

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/1/2019	1	203	365	361
1/1/2019	2	194	359	330
1/1/2019	3	190	340	320
1/1/2019	4	188	332	327
1/1/2019	5	190	400	390
1/1/2019	6	200	419	390
1/1/2019	7	174	300	300
1/1/2019	8	178	333	330
1/1/2019	9	185	300	235
1/1/2019	10	193	300	291
1/1/2019	11	202	330	325
1/1/2019	12	213	399	389
1/1/2019	13	213	409	400
1/1/2019	14	214	409	400
1/1/2019	15	213	382	357
1/1/2019	16	211	380	359
1/1/2019	17	213	385	350
1/1/2019	18	242	425	425
1/1/2019	19	249	495	490
1/1/2019	20	246	475	470
1/1/2019	21	242	450	435
1/1/2019	22	232	426	400
1/1/2019	23	220	375	359
1/1/2019	24	210	325	311
1/2/2019	1	252	520	420
1/2/2019	2	241	480	380
1/2/2019	3	233	450	350
1/2/2019	4	230	420	350
1/2/2019	5	229	450	380
1/2/2019	6	232	480	380
1/2/2019	7	238	464	450
1/2/2019	8	250	509	456
1/2/2019	9	275	500	456
1/2/2019	10	293	510	456
1/2/2019	11	299	555	456
1/2/2019	12	294	480	456
1/2/2019	13	293	456	453
1/2/2019	14	303	550	456
1/2/2019	15	297	508	456
1/2/2019	16	288	456	450
1/2/2019	17	281	456	450
1/2/2019	18	299	521	456
1/2/2019	19	297	517	456
1/2/2019	20	292	500	456
1/2/2019	21	286	460	456
1/2/2019	22	279	458	456
1/2/2019	23	270	456	430
1/2/2019	24	266	456	430
1/3/2019	1	247	551	420
1/3/2019	2	237	480	400
1/3/2019	3	232	450	350
1/3/2019	4	229	432	350
1/3/2019	5	232	480	380
1/3/2019	6	237	500	409
1/3/2019	7	243	485	400
1/3/2019	8	263	509	456
1/3/2019	9	296	500	456
1/3/2019	10	314	510	456
1/3/2019	11	328	580	456
1/3/2019	12	319	520	456
1/3/2019	13	320	530	456
1/3/2019	14	328	580	456
1/3/2019	15	324	580	456
1/3/2019	16	319	500	456
1/3/2019	17	311	456	450

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/3/2019	18	326	521	456
1/3/2019	19	320	517	456
1/3/2019	20	312	500	456
1/3/2019	21	304	460	456
1/3/2019	22	292	458	456
1/3/2019	23	274	456	430
1/3/2019	24	259	456	420
1/4/2019	1	261	550	444
1/4/2019	2	252	500	425
1/4/2019	3	245	440	350
1/4/2019	4	242	400	350
1/4/2019	5	245	460	380
1/4/2019	6	249	480	400
1/4/2019	7	254	485	400
1/4/2019	8	282	509	456
1/4/2019	9	314	500	456
1/4/2019	10	331	647	500
1/4/2019	11	342	647	523
1/4/2019	12	335	520	456
1/4/2019	13	332	500	456
1/4/2019	14	344	647	516
1/4/2019	15	337	580	506
1/4/2019	16	334	500	480
1/4/2019	17	330	480	463
1/4/2019	18	337	647	486
1/4/2019	19	331	647	456
1/4/2019	20	322	534	456
1/4/2019	21	316	478	456
1/4/2019	22	302	536	456
1/4/2019	23	287	468	456
1/4/2019	24	271	456	420
1/5/2019	1	262	580	441
1/5/2019	2	254	531	428
1/5/2019	3	247	500	380
1/5/2019	4	244	403	352
1/5/2019	5	243	460	400
1/5/2019	6	244	480	400
1/5/2019	7	246	485	400
1/5/2019	8	266	500	456
1/5/2019	9	291	500	456
1/5/2019	10	314	550	460
1/5/2019	11	326	580	464
1/5/2019	12	318	520	456
1/5/2019	13	315	500	456
1/5/2019	14	320	550	456
1/5/2019	15	314	516	456
1/5/2019	16	308	500	456
1/5/2019	17	300	480	456
1/5/2019	18	320	580	472
1/5/2019	19	318	576	458
1/5/2019	20	315	520	456
1/5/2019	21	310	500	456
1/5/2019	22	300	490	456
1/5/2019	23	286	468	456
1/5/2019	24	269	456	420
1/6/2019	1	264	580	513
1/6/2019	2	252	500	456
1/6/2019	3	244	480	456
1/6/2019	4	242	456	450
1/6/2019	5	241	482	456
1/6/2019	6	248	500	456
1/6/2019	7	254	485	456
1/6/2019	8	266	500	463
1/6/2019	9	272	500	460
1/6/2019	10	283	647	500

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/6/2019	11	293	647	537
1/6/2019	12	288	520	456
1/6/2019	13	287	500	456
1/6/2019	14	297	595	500
1/6/2019	15	291	550	456
1/6/2019	16	282	500	456
1/6/2019	17	275	480	456
1/6/2019	18	300	647	512
1/6/2019	19	298	647	537
1/6/2019	20	293	576	500
1/6/2019	21	287	456	453
1/6/2019	22	276	490	456
1/6/2019	23	263	468	456
1/6/2019	24	255	456	420
1/7/2019	1	272	600	550
1/7/2019	2	261	565	500
1/7/2019	3	253	515	456
1/7/2019	4	251	480	456
1/7/2019	5	251	485	456
1/7/2019	6	254	485	456
1/7/2019	7	271	485	456
1/7/2019	8	303	563	456
1/7/2019	9	319	580	456
1/7/2019	10	341	647	554
1/7/2019	11	358	647	647
1/7/2019	12	352	647	570
1/7/2019	13	350	647	543
1/7/2019	14	366	647	647
1/7/2019	15	362	647	647
1/7/2019	16	356	647	647
1/7/2019	17	340	647	550
1/7/2019	18	352	647	548
1/7/2019	19	343	647	500
1/7/2019	20	338	647	571
1/7/2019	21	332	583	500
1/7/2019	22	315	598	580
1/7/2019	23	296	580	579
1/7/2019	24	276	480	456
1/8/2019	1	261	590	540
1/8/2019	2	250	550	500
1/8/2019	3	243	500	456
1/8/2019	4	242	480	456
1/8/2019	5	247	490	456
1/8/2019	6	254	500	456
1/8/2019	7	258	520	456
1/8/2019	8	280	563	456
1/8/2019	9	316	556	456
1/8/2019	10	337	580	480
1/8/2019	11	349	647	500
1/8/2019	12	343	550	480
1/8/2019	13	339	513	480
1/8/2019	14	354	647	547
1/8/2019	15	352	580	520
1/8/2019	16	347	550	500
1/8/2019	17	334	550	540
1/8/2019	18	344	568	550
1/8/2019	19	338	550	540
1/8/2019	20	332	520	500
1/8/2019	21	323	500	480
1/8/2019	22	307	490	456
1/8/2019	23	290	580	500
1/8/2019	24	274	458	456
1/9/2019	1	273	600	550
1/9/2019	2	270	580	520
1/9/2019	3	264	550	500

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/9/2019	4	260	500	456
1/9/2019	5	266	550	460
1/9/2019	6	273	570	470
1/9/2019	7	270	580	480
1/9/2019	8	300	647	532
1/9/2019	9	332	647	647
1/9/2019	10	352	647	647
1/9/2019	11	366	647	647
1/9/2019	12	357	647	647
1/9/2019	13	356	647	647
1/9/2019	14	368	647	647
1/9/2019	15	365	647	647
1/9/2019	16	359	647	647
1/9/2019	17	346	647	647
1/9/2019	18	354	647	647
1/9/2019	19	354	647	647
1/9/2019	20	346	647	567
1/9/2019	21	336	580	550
1/9/2019	22	317	550	520
1/9/2019	23	294	514	490
1/9/2019	24	282	480	456
1/10/2019	1	259	580	500
1/10/2019	2	251	513	480
1/10/2019	3	246	480	420
1/10/2019	4	242	548	350
1/10/2019	5	244	548	360
1/10/2019	6	251	548	440
1/10/2019	7	256	548	480
1/10/2019	8	281	548	490
1/10/2019	9	313	548	500
1/10/2019	10	332	558	540
1/10/2019	11	346	647	620
1/10/2019	12	337	568	500
1/10/2019	13	333	550	480
1/10/2019	14	342	647	501
1/10/2019	15	338	581	500
1/10/2019	16	334	550	480
1/10/2019	17	328	540	470
1/10/2019	18	344	647	541
1/10/2019	19	334	580	520
1/10/2019	20	324	550	500
1/10/2019	21	318	500	470
1/10/2019	22	306	480	459
1/10/2019	23	286	456	450
1/10/2019	24	271	456	420
1/11/2019	1	263	593	470
1/11/2019	2	256	520	469
1/11/2019	3	250	420	400
1/11/2019	4	247	480	353
1/11/2019	5	251	480	389
1/11/2019	6	254	443	440
1/11/2019	7	257	480	440
1/11/2019	8	290	480	470
1/11/2019	9	324	500	480
1/11/2019	10	341	647	580
1/11/2019	11	355	647	647
1/11/2019	12	347	647	550
1/11/2019	13	347	647	586
1/11/2019	14	357	647	647
1/11/2019	15	350	647	647
1/11/2019	16	340	583	550
1/11/2019	17	333	550	539
1/11/2019	18	347	647	647
1/11/2019	19	341	647	578
1/11/2019	20	334	550	502

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ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/11/2019	21	326	520	500
1/11/2019	22	305	480	456
1/11/2019	23	292	456	450
1/11/2019	24	276	456	420
1/12/2019	1	264	579	559
1/12/2019	2	255	469	456
1/12/2019	3	247	456	454
1/12/2019	4	244	429	420
1/12/2019	5	242	452	450
1/12/2019	6	248	500	499
1/12/2019	7	264	539	534
1/12/2019	8	271	505	504
1/12/2019	9	297	456	405
1/12/2019	10	317	640	619
1/12/2019	11	333	647	647
1/12/2019	12	328	589	581
1/12/2019	13	326	586	567
1/12/2019	14	333	647	647
1/12/2019	15	328	647	645
1/12/2019	16	322	558	550
1/12/2019	17	310	503	500
1/12/2019	18	325	585	577
1/12/2019	19	328	647	647
1/12/2019	20	323	597	567
1/12/2019	21	316	506	500
1/12/2019	22	303	578	537
1/12/2019	23	287	515	493
1/12/2019	24	273	475	471
1/13/2019	1	262	580	550
1/13/2019	2	250	550	495
1/13/2019	3	242	500	450
1/13/2019	4	238	450	404
1/13/2019	5	237	440	387
1/13/2019	6	244	480	420
1/13/2019	7	250	550	483
1/13/2019	8	262	560	510
1/13/2019	9	282	647	546
1/13/2019	10	292	647	647
1/13/2019	11	302	647	647
1/13/2019	12	297	647	647
1/13/2019	13	296	647	647
1/13/2019	14	306	647	647
1/13/2019	15	300	647	647
1/13/2019	16	291	647	545
1/13/2019	17	284	580	500
1/13/2019	18	309	647	647
1/13/2019	19	307	647	647
1/13/2019	20	303	647	647
1/13/2019	21	292	607	574
1/13/2019	22	278	570	550
1/13/2019	23	265	477	456
1/13/2019	24	256	456	420
1/14/2019	1	259	600	550
1/14/2019	2	252	580	495
1/14/2019	3	246	500	450
1/14/2019	4	243	450	420
1/14/2019	5	247	440	400
1/14/2019	6	250	480	440
1/14/2019	7	252	450	420
1/14/2019	8	286	560	488
1/14/2019	9	330	580	546
1/14/2019	10	356	582	580
1/14/2019	11	370	647	647
1/14/2019	12	362	580	567
1/14/2019	13	362	612	550

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ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/14/2019	14	371	647	647
1/14/2019	15	365	647	585
1/14/2019	16	354	580	550
1/14/2019	17	347	546	500
1/14/2019	18	362	647	647
1/14/2019	19	356	647	570
1/14/2019	20	348	580	550
1/14/2019	21	340	557	520
1/14/2019	22	320	500	464
1/14/2019	23	306	480	456
1/14/2019	24	290	456	450
1/15/2019	1	262	600	550
1/15/2019	2	254	580	520
1/15/2019	3	246	550	460
1/15/2019	4	244	524	456
1/15/2019	5	252	580	480
1/15/2019	6	263	600	570
1/15/2019	7	261	600	553
1/15/2019	8	293	647	647
1/15/2019	9	326	647	647
1/15/2019	10	346	647	647
1/15/2019	11	359	647	647
1/15/2019	12	351	647	647
1/15/2019	13	347	647	647
1/15/2019	14	356	647	647
1/15/2019	15	355	647	647
1/15/2019	16	352	647	647
1/15/2019	17	339	580	526
1/15/2019	18	344	647	580
1/15/2019	19	343	647	580
1/15/2019	20	336	580	550
1/15/2019	21	327	550	524
1/15/2019	22	309	500	462
1/15/2019	23	292	476	456
1/15/2019	24	275	456	450
1/16/2019	1	262	600	550
1/16/2019	2	254	580	520
1/16/2019	3	246	550	460
1/16/2019	4	244	524	456
1/16/2019	5	252	580	480
1/16/2019	6	263	600	570
1/16/2019	7	261	600	553
1/16/2019	8	293	647	647
1/16/2019	9	326	647	647
1/16/2019	10	346	647	647
1/16/2019	11	359	647	647
1/16/2019	12	351	647	647
1/16/2019	13	347	647	647
1/16/2019	14	356	647	647
1/16/2019	15	355	647	647
1/16/2019	16	352	647	647
1/16/2019	17	339	580	526
1/16/2019	18	344	647	580
1/16/2019	19	343	647	580
1/16/2019	20	336	580	550
1/16/2019	21	327	550	524
1/16/2019	22	309	500	462
1/16/2019	23	292	476	456
1/16/2019	24	275	456	450
1/17/2019	1	261	647	456
1/17/2019	2	254	647	456
1/17/2019	3	248	647	456
1/17/2019	4	245	647	456
1/17/2019	5	252	647	456
1/17/2019	6	263	647	456

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ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/17/2019	7	253	580	519
1/17/2019	8	290	647	647
1/17/2019	9	321	647	647
1/17/2019	10	340	647	647
1/17/2019	11	354	647	647
1/17/2019	12	345	647	647
1/17/2019	13	343	647	647
1/17/2019	14	357	647	647
1/17/2019	15	353	647	647
1/17/2019	16	349	647	647
1/17/2019	17	322	580	550
1/17/2019	18	328	647	607
1/17/2019	19	329	647	620
1/17/2019	20	320	647	647
1/17/2019	21	310	647	352
1/17/2019	22	294	580	352
1/17/2019	23	277	550	352
1/17/2019	24	264	542	352
1/18/2019	1	250	647	647
1/18/2019	2	243	580	550
1/18/2019	3	236	550	500
1/18/2019	4	235	520	450
1/18/2019	5	242	580	470
1/18/2019	6	254	590	500
1/18/2019	7	254	600	517
1/18/2019	8	287	647	647
1/18/2019	9	323	647	647
1/18/2019	10	348	647	647
1/18/2019	11	361	647	647
1/18/2019	12	353	647	647
1/18/2019	13	349	647	647
1/18/2019	14	361	647	647
1/18/2019	15	360	647	647
1/18/2019	16	356	647	647
1/18/2019	17	343	647	647
1/18/2019	18	348	647	647
1/18/2019	19	346	647	647
1/18/2019	20	339	647	647
1/18/2019	21	329	589	560
1/18/2019	22	311	515	480
1/18/2019	23	295	533	463
1/18/2019	24	278	480	420
1/19/2019	1	258	647	352
1/19/2019	2	251	647	352
1/19/2019	3	246	647	352
1/19/2019	4	241	647	352
1/19/2019	5	242	647	352
1/19/2019	6	246	647	352
1/19/2019	7	251	647	450
1/19/2019	8	269	647	647
1/19/2019	9	295	647	647
1/19/2019	10	317	647	647
1/19/2019	11	330	647	647
1/19/2019	12	323	647	647
1/19/2019	13	321	647	647
1/19/2019	14	330	647	647
1/19/2019	15	325	647	647
1/19/2019	16	319	647	647
1/19/2019	17	306	647	647
1/19/2019	18	315	647	647
1/19/2019	19	321	647	647
1/19/2019	20	317	647	647
1/19/2019	21	310	647	352
1/19/2019	22	298	647	352
1/19/2019	23	285	647	352

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/19/2019	24	269	647	352
1/20/2019	1	258	647	647
1/20/2019	2	250	647	647
1/20/2019	3	242	621	500
1/20/2019	4	238	561	450
1/20/2019	5	237	571	420
1/20/2019	6	244	647	524
1/20/2019	7	250	647	534
1/20/2019	8	262	647	610
1/20/2019	9	281	647	647
1/20/2019	10	291	647	647
1/20/2019	11	301	647	647
1/20/2019	12	296	647	647
1/20/2019	13	295	647	647
1/20/2019	14	305	647	647
1/20/2019	15	299	647	647
1/20/2019	16	290	647	647
1/20/2019	17	283	647	647
1/20/2019	18	308	647	647
1/20/2019	19	306	647	647
1/20/2019	20	302	647	647
1/20/2019	21	291	589	560
1/20/2019	22	277	515	480
1/20/2019	23	264	533	463
1/20/2019	24	255	556	460
1/21/2019	1	250	647	647
1/21/2019	2	243	580	550
1/21/2019	3	236	550	500
1/21/2019	4	235	520	450
1/21/2019	5	242	580	470
1/21/2019	6	254	590	500
1/21/2019	7	254	600	517
1/21/2019	8	287	647	647
1/21/2019	9	323	647	647
1/21/2019	10	348	647	647
1/21/2019	11	361	647	647
1/21/2019	12	353	647	647
1/21/2019	13	349	647	647
1/21/2019	14	361	647	647
1/21/2019	15	360	647	647
1/21/2019	16	356	647	647
1/21/2019	17	343	647	647
1/21/2019	18	348	647	647
1/21/2019	19	346	647	647
1/21/2019	20	339	647	647
1/21/2019	21	329	589	560
1/21/2019	22	311	515	480
1/21/2019	23	295	533	463
1/21/2019	24	278	480	420
1/22/2019	1	258	647	581
1/22/2019	2	248	580	550
1/22/2019	3	242	520	480
1/22/2019	4	239	480	450
1/22/2019	5	245	569	440
1/22/2019	6	256	647	516
1/22/2019	7	259	647	500
1/22/2019	8	288	647	598
1/22/2019	9	321	647	622
1/22/2019	10	343	647	647
1/22/2019	11	356	647	647
1/22/2019	12	347	647	647
1/22/2019	13	346	647	647
1/22/2019	14	358	647	647
1/22/2019	15	354	647	647
1/22/2019	16	350	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/22/2019	17	336	647	647
1/22/2019	18	342	647	647
1/22/2019	19	340	647	647
1/22/2019	20	331	647	647
1/22/2019	21	322	647	513
1/22/2019	22	306	622	460
1/22/2019	23	289	516	450
1/22/2019	24	273	480	407
1/23/2019	1	261	647	590
1/23/2019	2	252	600	570
1/23/2019	3	246	520	480
1/23/2019	4	243	480	450
1/23/2019	5	251	580	480
1/23/2019	6	261	647	600
1/23/2019	7	262	552	518
1/23/2019	8	291	580	501
1/23/2019	9	324	647	622
1/23/2019	10	345	647	647
1/23/2019	11	356	647	647
1/23/2019	12	348	647	647
1/23/2019	13	346	647	647
1/23/2019	14	355	647	647
1/23/2019	15	353	647	647
1/23/2019	16	348	647	647
1/23/2019	17	336	647	647
1/23/2019	18	340	647	647
1/23/2019	19	341	647	647
1/23/2019	20	334	647	647
1/23/2019	21	322	647	544
1/23/2019	22	304	622	468
1/23/2019	23	287	516	483
1/23/2019	24	270	480	420
1/24/2019	1	254	647	580
1/24/2019	2	250	647	570
1/24/2019	3	239	550	480
1/24/2019	4	237	500	450
1/24/2019	5	245	570	480
1/24/2019	6	257	647	600
1/24/2019	7	267	552	518
1/24/2019	8	287	615	510
1/24/2019	9	315	647	539
1/24/2019	10	336	647	647
1/24/2019	11	351	647	647
1/24/2019	12	342	647	647
1/24/2019	13	342	647	647
1/24/2019	14	356	647	647
1/24/2019	15	353	647	647
1/24/2019	16	347	647	647
1/24/2019	17	335	647	647
1/24/2019	18	338	647	647
1/24/2019	19	336	647	647
1/24/2019	20	326	647	647
1/24/2019	21	315	647	554
1/24/2019	22	296	590	468
1/24/2019	23	279	488	450
1/24/2019	24	265	474	416
1/25/2019	1	263	647	590
1/25/2019	2	256	600	570
1/25/2019	3	251	535	520
1/25/2019	4	248	480	450
1/25/2019	5	254	580	480
1/25/2019	6	265	647	600
1/25/2019	7	273	552	476
1/25/2019	8	295	580	501
1/25/2019	9	328	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/25/2019	10	347	647	647
1/25/2019	11	361	647	647
1/25/2019	12	351	647	647
1/25/2019	13	348	647	647
1/25/2019	14	361	647	647
1/25/2019	15	358	647	647
1/25/2019	16	354	647	647
1/25/2019	17	337	647	647
1/25/2019	18	343	647	647
1/25/2019	19	342	647	647
1/25/2019	20	333	647	647
1/25/2019	21	323	598	544
1/25/2019	22	307	550	500
1/25/2019	23	293	516	483
1/25/2019	24	275	480	420
1/26/2019	1	263	647	643
1/26/2019	2	256	606	600
1/26/2019	3	248	535	520
1/26/2019	4	243	480	450
1/26/2019	5	243	480	451
1/26/2019	6	246	520	496
1/26/2019	7	249	520	500
1/26/2019	8	273	600	581
1/26/2019	9	298	647	647
1/26/2019	10	320	647	647
1/26/2019	11	333	647	647
1/26/2019	12	328	647	647
1/26/2019	13	326	647	647
1/26/2019	14	333	647	647
1/26/2019	15	328	647	647
1/26/2019	16	322	592	590
1/26/2019	17	310	550	534
1/26/2019	18	321	620	604
1/26/2019	19	324	647	647
1/26/2019	20	321	647	647
1/26/2019	21	313	598	544
1/26/2019	22	302	580	561
1/26/2019	23	287	450	424
1/26/2019	24	272	450	420
1/27/2019	1	256	600	550
1/27/2019	2	248	580	510
1/27/2019	3	240	500	448
1/27/2019	4	236	437	416
1/27/2019	5	236	427	416
1/27/2019	6	242	537	440
1/27/2019	7	248	552	475
1/27/2019	8	262	580	501
1/27/2019	9	280	617	510
1/27/2019	10	290	647	647
1/27/2019	11	300	647	647
1/27/2019	12	295	647	615
1/27/2019	13	294	647	589
1/27/2019	14	304	647	647
1/27/2019	15	298	647	613
1/27/2019	16	289	563	550
1/27/2019	17	282	550	460
1/27/2019	18	307	647	647
1/27/2019	19	305	647	647
1/27/2019	20	301	647	647
1/27/2019	21	290	562	544
1/27/2019	22	276	550	420
1/27/2019	23	263	500	420
1/27/2019	24	254	480	420
1/28/2019	1	250	580	540
1/28/2019	2	243	560	480

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/28/2019	3	237	509	420
1/28/2019	4	235	492	416
1/28/2019	5	243	427	416
1/28/2019	6	254	540	490
1/28/2019	7	254	500	440
1/28/2019	8	287	580	501
1/28/2019	9	323	647	647
1/28/2019	10	349	647	647
1/28/2019	11	362	647	647
1/28/2019	12	354	647	647
1/28/2019	13	350	647	647
1/28/2019	14	362	647	647
1/28/2019	15	361	647	647
1/28/2019	16	357	647	647
1/28/2019	17	344	647	647
1/28/2019	18	349	647	647
1/28/2019	19	347	647	647
1/28/2019	20	340	647	647
1/28/2019	21	330	647	575
1/28/2019	22	312	647	516
1/28/2019	23	296	546	420
1/28/2019	24	278	450	420
1/29/2019	1	239	550	500
1/29/2019	2	229	510	468
1/29/2019	3	226	480	417
1/29/2019	4	223	450	416
1/29/2019	5	230	460	416
1/29/2019	6	242	500	420
1/29/2019	7	244	470	416
1/29/2019	8	268	580	501
1/29/2019	9	299	647	647
1/29/2019	10	322	647	647
1/29/2019	11	335	647	647
1/29/2019	12	328	647	647
1/29/2019	13	328	647	647
1/29/2019	14	339	647	647
1/29/2019	15	336	647	647
1/29/2019	16	333	614	580
1/29/2019	17	317	580	518
1/29/2019	18	323	611	550
1/29/2019	19	319	580	540
1/29/2019	20	312	560	520
1/29/2019	21	300	520	500
1/29/2019	22	286	500	470
1/29/2019	23	271	480	450
1/29/2019	24	255	420	400
1/30/2019	1	241	589	500
1/30/2019	2	234	542	460
1/30/2019	3	230	457	420
1/30/2019	4	227	440	416
1/30/2019	5	236	500	450
1/30/2019	6	248	550	470
1/30/2019	7	254	580	460
1/30/2019	8	274	600	520
1/30/2019	9	303	647	647
1/30/2019	10	323	647	647
1/30/2019	11	336	647	647
1/30/2019	12	327	647	647
1/30/2019	13	323	647	647
1/30/2019	14	335	647	647
1/30/2019	15	332	647	647
1/30/2019	16	328	580	534
1/30/2019	17	318	580	518
1/30/2019	18	321	616	550
1/30/2019	19	321	580	525

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/30/2019	20	314	560	480
1/30/2019	21	305	500	450
1/30/2019	22	288	480	420
1/30/2019	23	274	450	420
1/30/2019	24	259	420	400
1/31/2019	1	241	589	500
1/31/2019	2	234	542	460
1/31/2019	3	230	457	420
1/31/2019	4	227	440	416
1/31/2019	5	236	500	450
1/31/2019	6	248	550	470
1/31/2019	7	254	580	460
1/31/2019	8	274	600	520
1/31/2019	9	303	647	647
1/31/2019	10	323	647	647
1/31/2019	11	336	647	647
1/31/2019	12	327	647	647
1/31/2019	13	323	647	647
1/31/2019	14	335	647	647
1/31/2019	15	332	647	647
1/31/2019	16	328	580	534
1/31/2019	17	318	580	518
1/31/2019	18	321	616	550
1/31/2019	19	321	580	525
1/31/2019	20	314	560	480
1/31/2019	21	305	500	450
1/31/2019	22	288	480	420
1/31/2019	23	274	450	420
1/31/2019	24	259	420	400
2/1/2019	1	248	591	550
2/1/2019	2	241	580	527
2/1/2019	3	236	500	473
2/1/2019	4	234	475	450
2/1/2019	5	240	541	524
2/1/2019	6	250	550	518
2/1/2019	7	251	550	550
2/1/2019	8	276	522	520
2/1/2019	9	306	580	561
2/1/2019	10	326	647	647
2/1/2019	11	337	647	647
2/1/2019	12	327	600	600
2/1/2019	13	325	600	600
2/1/2019	14	338	647	647
2/1/2019	15	334	647	647
2/1/2019	16	329	600	600
2/1/2019	17	296	500	500
2/1/2019	18	318	575	567
2/1/2019	19	320	625	625
2/1/2019	20	311	595	552
2/1/2019	21	301	479	475
2/1/2019	22	287	470	434
2/1/2019	23	271	450	420
2/1/2019	24	257	420	420
2/2/2019	1	249	550	550
2/2/2019	2	242	580	527
2/2/2019	3	236	500	473
2/2/2019	4	231	475	451
2/2/2019	5	231	542	520
2/2/2019	6	234	539	518
2/2/2019	7	236	550	550
2/2/2019	8	260	550	550
2/2/2019	9	283	580	561
2/2/2019	10	303	580	561
2/2/2019	11	315	647	647
2/2/2019	12	308	580	560

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/2/2019	13	305	550	530
2/2/2019	14	311	580	560
2/2/2019	15	307	580	553
2/2/2019	16	300	580	561
2/2/2019	17	290	580	561
2/2/2019	18	300	580	561
2/2/2019	19	304	580	561
2/2/2019	20	299	580	561
2/2/2019	21	291	483	479
2/2/2019	22	279	455	434
2/2/2019	23	266	455	420
2/2/2019	24	252	420	420
2/3/2019	1	244	580	500
2/3/2019	2	236	550	480
2/3/2019	3	228	500	450
2/3/2019	4	224	460	420
2/3/2019	5	224	450	416
2/3/2019	6	230	470	439
2/3/2019	7	236	500	473
2/3/2019	8	246	533	480
2/3/2019	9	250	550	480
2/3/2019	10	260	560	500
2/3/2019	11	271	647	519
2/3/2019	12	266	550	444
2/3/2019	13	265	568	420
2/3/2019	14	274	647	647
2/3/2019	15	268	580	568
2/3/2019	16	260	550	500
2/3/2019	17	253	500	480
2/3/2019	18	277	647	602
2/3/2019	19	275	647	600
2/3/2019	20	271	647	584
2/3/2019	21	261	550	480
2/3/2019	22	246	455	434
2/3/2019	23	237	420	420
2/3/2019	24	229	420	420
2/4/2019	1	244	580	500
2/4/2019	2	237	550	480
2/4/2019	3	231	500	450
2/4/2019	4	229	460	420
2/4/2019	5	237	450	416
2/4/2019	6	249	470	439
2/4/2019	7	248	500	437
2/4/2019	8	281	568	480
2/4/2019	9	308	647	580
2/4/2019	10	328	647	647
2/4/2019	11	341	647	647
2/4/2019	12	330	647	647
2/4/2019	13	328	647	647
2/4/2019	14	343	647	647
2/4/2019	15	339	647	647
2/4/2019	16	335	647	647
2/4/2019	17	323	647	580
2/4/2019	18	325	647	613
2/4/2019	19	325	647	594
2/4/2019	20	318	590	580
2/4/2019	21	307	600	550
2/4/2019	22	293	570	500
2/4/2019	23	277	500	450
2/4/2019	24	262	480	420
2/5/2019	1	249	580	520
2/5/2019	2	242	550	500
2/5/2019	3	235	500	450
2/5/2019	4	231	460	420
2/5/2019	5	230	450	450

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/5/2019	6	234	450	450
2/5/2019	7	235	450	450
2/5/2019	8	259	475	475
2/5/2019	9	283	480	450
2/5/2019	10	303	550	550
2/5/2019	11	314	647	647
2/5/2019	12	308	625	625
2/5/2019	13	305	625	625
2/5/2019	14	311	640	630
2/5/2019	15	306	625	625
2/5/2019	16	300	550	550
2/5/2019	17	290	550	550
2/5/2019	18	300	575	575
2/5/2019	19	303	625	600
2/5/2019	20	299	590	580
2/5/2019	21	291	600	550
2/5/2019	22	279	570	500
2/5/2019	23	265	500	450
2/5/2019	24	251	480	420
2/6/2019	1	247	575	490
2/6/2019	2	240	540	470
2/6/2019	3	234	500	440
2/6/2019	4	232	460	416
2/6/2019	5	240	500	445
2/6/2019	6	252	470	440
2/6/2019	7	252	500	420
2/6/2019	8	284	580	547
2/6/2019	9	320	647	647
2/6/2019	10	335	647	647
2/6/2019	11	342	647	647
2/6/2019	12	336	647	647
2/6/2019	13	342	647	647
2/6/2019	14	352	647	647
2/6/2019	15	346	647	647
2/6/2019	16	340	647	647
2/6/2019	17	332	647	647
2/6/2019	18	334	647	647
2/6/2019	19	338	647	647
2/6/2019	20	327	647	647
2/6/2019	21	314	647	597
2/6/2019	22	295	570	500
2/6/2019	23	278	500	450
2/6/2019	24	263	470	420
2/7/2019	1	264	647	579
2/7/2019	2	248	540	480
2/7/2019	3	239	500	440
2/7/2019	4	239	460	420
2/7/2019	5	249	550	447
2/7/2019	6	271	580	514
2/7/2019	7	264	500	420
2/7/2019	8	284	580	547
2/7/2019	9	323	647	647
2/7/2019	10	343	647	647
2/7/2019	11	357	647	647
2/7/2019	12	350	647	647
2/7/2019	13	347	647	647
2/7/2019	14	362	647	647
2/7/2019	15	357	647	647
2/7/2019	16	354	647	647
2/7/2019	17	344	647	647
2/7/2019	18	347	647	647
2/7/2019	19	347	647	647
2/7/2019	20	338	647	647
2/7/2019	21	326	647	647
2/7/2019	22	301	590	550

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/7/2019	23	290	550	500
2/7/2019	24	276	500	420
2/8/2019	1	263	575	575
2/8/2019	2	257	550	550
2/8/2019	3	252	550	550
2/8/2019	4	250	530	500
2/8/2019	5	259	584	584
2/8/2019	6	272	625	625
2/8/2019	7	288	647	647
2/8/2019	8	300	647	647
2/8/2019	9	331	647	647
2/8/2019	10	353	647	647
2/8/2019	11	360	647	647
2/8/2019	12	347	647	647
2/8/2019	13	342	647	647
2/8/2019	14	354	647	647
2/8/2019	15	351	647	647
2/8/2019	16	348	647	647
2/8/2019	17	337	647	647
2/8/2019	18	338	647	647
2/8/2019	19	345	647	647
2/8/2019	20	335	647	647
2/8/2019	21	322	647	647
2/8/2019	22	304	590	550
2/8/2019	23	286	550	521
2/8/2019	24	269	500	454
2/9/2019	1	244	580	501
2/9/2019	2	236	540	480
2/9/2019	3	230	490	420
2/9/2019	4	229	460	420
2/9/2019	5	236	550	440
2/9/2019	6	249	580	480
2/9/2019	7	248	470	420
2/9/2019	8	281	580	547
2/9/2019	9	300	600	550
2/9/2019	10	320	647	647
2/9/2019	11	332	647	647
2/9/2019	12	322	647	579
2/9/2019	13	320	625	550
2/9/2019	14	334	647	647
2/9/2019	15	331	647	647
2/9/2019	16	326	647	567
2/9/2019	17	315	580	540
2/9/2019	18	316	590	500
2/9/2019	19	316	647	647
2/9/2019	20	309	647	584
2/9/2019	21	299	578	520
2/9/2019	22	284	550	480
2/9/2019	23	269	500	420
2/9/2019	24	253	447	420
2/10/2019	1	248	580	510
2/10/2019	2	240	550	470
2/10/2019	3	232	480	420
2/10/2019	4	228	450	420
2/10/2019	5	228	475	420
2/10/2019	6	234	475	450
2/10/2019	7	240	522	489
2/10/2019	8	250	546	480
2/10/2019	9	286	550	480
2/10/2019	10	296	599	550
2/10/2019	11	306	647	628
2/10/2019	12	301	580	570
2/10/2019	13	300	574	550
2/10/2019	14	310	647	647
2/10/2019	15	304	647	571

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/10/2019	16	295	580	500
2/10/2019	17	288	572	480
2/10/2019	18	313	647	647
2/10/2019	19	311	647	647
2/10/2019	20	306	647	647
2/10/2019	21	292	580	520
2/10/2019	22	277	550	521
2/10/2019	23	265	480	456
2/10/2019	24	252	456	420
2/11/2019	1	246	570	500
2/11/2019	2	236	530	450
2/11/2019	3	230	470	420
2/11/2019	4	230	450	420
2/11/2019	5	234	470	420
2/11/2019	6	246	480	450
2/11/2019	7	248	484	420
2/11/2019	8	280	546	480
2/11/2019	9	326	647	647
2/11/2019	10	346	647	647
2/11/2019	11	359	647	647
2/11/2019	12	352	647	647
2/11/2019	13	349	647	647
2/11/2019	14	364	647	647
2/11/2019	15	359	647	647
2/11/2019	16	357	647	647
2/11/2019	17	346	647	647
2/11/2019	18	350	647	647
2/11/2019	19	350	647	647
2/11/2019	20	340	647	647
2/11/2019	21	329	647	613
2/11/2019	22	303	550	521
2/11/2019	23	293	480	456
2/11/2019	24	278	456	420
2/12/2019	1	261	647	550
2/12/2019	2	252	580	500
2/12/2019	3	246	500	450
2/12/2019	4	244	480	420
2/12/2019	5	253	550	450
2/12/2019	6	264	580	470
2/12/2019	7	272	484	420
2/12/2019	8	297	546	480
2/12/2019	9	332	647	482
2/12/2019	10	356	647	647
2/12/2019	11	367	647	647
2/12/2019	12	359	647	647
2/12/2019	13	357	647	647
2/12/2019	14	370	647	647
2/12/2019	15	368	647	647
2/12/2019	16	363	647	647
2/12/2019	17	351	647	647
2/12/2019	18	353	647	647
2/12/2019	19	351	647	647
2/12/2019	20	342	647	647
2/12/2019	21	330	647	647
2/12/2019	22	315	647	647
2/12/2019	23	296	480	420
2/12/2019	24	282	420	420
2/13/2019	1	261	592	550
2/13/2019	2	253	580	500
2/13/2019	3	247	500	450
2/13/2019	4	245	480	420
2/13/2019	5	253	541	450
2/13/2019	6	264	500	440
2/13/2019	7	267	480	420
2/13/2019	8	292	500	420

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/13/2019	9	324	550	450
2/13/2019	10	345	647	569
2/13/2019	11	353	647	574
2/13/2019	12	344	647	542
2/13/2019	13	341	647	504
2/13/2019	14	353	647	590
2/13/2019	15	349	590	540
2/13/2019	16	345	580	500
2/13/2019	17	332	560	499
2/13/2019	18	338	589	520
2/13/2019	19	340	611	550
2/13/2019	20	330	598	520
2/13/2019	21	320	557	500
2/13/2019	22	301	520	450
2/13/2019	23	284	480	420
2/13/2019	24	267	420	420
2/14/2019	1	254	560	451
2/14/2019	2	245	540	420
2/14/2019	3	239	507	420
2/14/2019	4	235	480	420
2/14/2019	5	239	500	450
2/14/2019	6	241	470	420
2/14/2019	7	251	480	446
2/14/2019	8	280	480	420
2/14/2019	9	310	550	456
2/14/2019	10	333	580	456
2/14/2019	11	346	647	554
2/14/2019	12	339	647	500
2/14/2019	13	338	580	480
2/14/2019	14	350	647	550
2/14/2019	15	348	647	500
2/14/2019	16	343	580	480
2/14/2019	17	331	550	456
2/14/2019	18	330	520	456
2/14/2019	19	340	590	470
2/14/2019	20	332	570	520
2/14/2019	21	324	540	500
2/14/2019	22	309	530	456
2/14/2019	23	292	520	456
2/14/2019	24	267	456	420
2/15/2019	1	254	560	451
2/15/2019	2	245	540	420
2/15/2019	3	239	507	420
2/15/2019	4	235	480	420
2/15/2019	5	239	500	450
2/15/2019	6	241	470	420
2/15/2019	7	251	480	446
2/15/2019	8	280	480	420
2/15/2019	9	310	550	456
2/15/2019	10	333	580	456
2/15/2019	11	346	647	554
2/15/2019	12	339	647	500
2/15/2019	13	338	580	480
2/15/2019	14	350	647	550
2/15/2019	15	348	647	500
2/15/2019	16	343	580	480
2/15/2019	17	331	550	456
2/15/2019	18	330	520	456
2/15/2019	19	340	590	470
2/15/2019	20	332	570	520
2/15/2019	21	324	540	500
2/15/2019	22	309	530	456
2/15/2019	23	292	520	456
2/15/2019	24	267	456	420
2/16/2019	1	256	580	480

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/16/2019	2	246	509	432
2/16/2019	3	240	502	420
2/16/2019	4	236	480	420
2/16/2019	5	236	500	450
2/16/2019	6	239	470	420
2/16/2019	7	239	480	420
2/16/2019	8	268	453	420
2/16/2019	9	288	480	430
2/16/2019	10	311	510	456
2/16/2019	11	325	563	550
2/16/2019	12	322	522	500
2/16/2019	13	322	525	500
2/16/2019	14	332	647	550
2/16/2019	15	329	647	500
2/16/2019	16	323	520	478
2/16/2019	17	311	480	456
2/16/2019	18	313	500	460
2/16/2019	19	326	590	473
2/16/2019	20	318	550	456
2/16/2019	21	311	520	456
2/16/2019	22	297	500	456
2/16/2019	23	284	456	450
2/16/2019	24	269	456	420
2/17/2019	1	245	560	451
2/17/2019	2	239	560	451
2/17/2019	3	234	560	451
2/17/2019	4	228	530	430
2/17/2019	5	229	530	430
2/17/2019	6	230	536	430
2/17/2019	7	231	544	451
2/17/2019	8	243	560	472
2/17/2019	9	261	560	539
2/17/2019	10	279	618	600
2/17/2019	11	288	600	597
2/17/2019	12	284	600	594
2/17/2019	13	282	590	500
2/17/2019	14	285	590	500
2/17/2019	15	282	590	500
2/17/2019	16	278	578	500
2/17/2019	17	275	590	535
2/17/2019	18	290	590	538
2/17/2019	19	300	647	585
2/17/2019	20	296	647	585
2/17/2019	21	289	596	501
2/17/2019	22	276	560	500
2/17/2019	23	260	500	474
2/17/2019	24	246	456	420
2/18/2019	1	245	550	456
2/18/2019	2	239	530	420
2/18/2019	3	230	502	420
2/18/2019	4	228	480	420
2/18/2019	5	233	500	450
2/18/2019	6	245	470	420
2/18/2019	7	246	480	446
2/18/2019	8	280	480	420
2/18/2019	9	324	550	465
2/18/2019	10	344	580	475
2/18/2019	11	358	647	647
2/18/2019	12	350	647	580
2/18/2019	13	348	647	539
2/18/2019	14	363	647	647
2/18/2019	15	358	647	647
2/18/2019	16	355	647	647
2/18/2019	17	344	647	600
2/18/2019	18	346	580	513

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/18/2019	19	348	647	520
2/18/2019	20	338	580	550
2/18/2019	21	323	550	500
2/18/2019	22	302	500	456
2/18/2019	23	291	456	450
2/18/2019	24	277	456	420
2/19/2019	1	264	580	469
2/19/2019	2	257	530	420
2/19/2019	3	249	480	420
2/19/2019	4	246	450	420
2/19/2019	5	252	500	431
2/19/2019	6	264	470	420
2/19/2019	7	267	480	446
2/19/2019	8	301	500	450
2/19/2019	9	328	580	476
2/19/2019	10	352	647	550
2/19/2019	11	361	647	647
2/19/2019	12	355	647	647
2/19/2019	13	356	647	647
2/19/2019	14	371	647	647
2/19/2019	15	368	647	647
2/19/2019	16	361	647	647
2/19/2019	17	346	647	647
2/19/2019	18	336	580	540
2/19/2019	19	344	647	580
2/19/2019	20	334	616	550
2/19/2019	21	324	550	500
2/19/2019	22	306	550	468
2/19/2019	23	289	456	450
2/19/2019	24	273	456	420
2/20/2019	1	264	477	456
2/20/2019	2	256	427	425
2/20/2019	3	249	450	425
2/20/2019	4	247	450	425
2/20/2019	5	257	500	500
2/20/2019	6	266	550	525
2/20/2019	7	266	550	525
2/20/2019	8	295	575	525
2/20/2019	9	328	647	639
2/20/2019	10	347	647	647
2/20/2019	11	360	647	647
2/20/2019	12	350	647	647
2/20/2019	13	351	647	647
2/20/2019	14	366	647	647
2/20/2019	15	364	647	647
2/20/2019	16	357	647	647
2/20/2019	17	345	647	647
2/20/2019	18	337	647	647
2/20/2019	19	350	647	647
2/20/2019	20	343	647	647
2/20/2019	21	336	647	647
2/20/2019	22	320	595	589
2/20/2019	23	307	554	550
2/20/2019	24	289	477	456
2/21/2019	1	265	541	456
2/21/2019	2	249	500	420
2/21/2019	3	243	480	420
2/21/2019	4	241	466	420
2/21/2019	5	249	500	450
2/21/2019	6	251	500	460
2/21/2019	7	251	510	440
2/21/2019	8	288	580	562
2/21/2019	9	322	647	647
2/21/2019	10	346	647	647
2/21/2019	11	358	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/21/2019	12	351	647	647
2/21/2019	13	351	647	647
2/21/2019	14	366	647	647
2/21/2019	15	364	647	647
2/21/2019	16	358	647	647
2/21/2019	17	343	647	539
2/21/2019	18	336	647	483
2/21/2019	19	344	647	606
2/21/2019	20	334	580	543
2/21/2019	21	323	520	456
2/21/2019	22	305	500	456
2/21/2019	23	284	480	456
2/21/2019	24	270	456	420
2/22/2019	1	260	550	500
2/22/2019	2	252	520	450
2/22/2019	3	246	500	420
2/22/2019	4	242	460	420
2/22/2019	5	250	500	420
2/22/2019	6	262	520	420
2/22/2019	7	267	550	480
2/22/2019	8	292	580	550
2/22/2019	9	325	647	580
2/22/2019	10	345	580	550
2/22/2019	11	360	647	647
2/22/2019	12	350	580	550
2/22/2019	13	348	550	500
2/22/2019	14	362	647	580
2/22/2019	15	360	647	550
2/22/2019	16	355	647	500
2/22/2019	17	340	580	480
2/22/2019	18	339	550	456
2/22/2019	19	344	580	506
2/22/2019	20	334	550	456
2/22/2019	21	323	480	456
2/22/2019	22	307	456	450
2/22/2019	23	290	456	420
2/22/2019	24	272	456	420
2/23/2019	1	267	550	500
2/23/2019	2	257	550	500
2/23/2019	3	251	550	500
2/23/2019	4	247	550	500
2/23/2019	5	247	550	500
2/23/2019	6	250	550	500
2/23/2019	7	253	550	500
2/23/2019	8	273	580	550
2/23/2019	9	302	627	600
2/23/2019	10	326	647	647
2/23/2019	11	340	647	647
2/23/2019	12	336	647	647
2/23/2019	13	336	647	647
2/23/2019	14	345	647	647
2/23/2019	15	344	647	647
2/23/2019	16	337	625	619
2/23/2019	17	323	567	500
2/23/2019	18	324	500	500
2/23/2019	19	339	647	647
2/23/2019	20	331	600	600
2/23/2019	21	323	600	600
2/23/2019	22	309	575	575
2/23/2019	23	293	470	466
2/23/2019	24	277	480	460
2/24/2019	1	247	570	500
2/24/2019	2	239	520	461
2/24/2019	3	232	500	421
2/24/2019	4	228	451	420

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/24/2019	5	228	441	420
2/24/2019	6	234	520	420
2/24/2019	7	240	550	480
2/24/2019	8	250	580	490
2/24/2019	9	281	647	580
2/24/2019	10	296	580	550
2/24/2019	11	306	647	647
2/24/2019	12	301	647	569
2/24/2019	13	300	580	560
2/24/2019	14	310	647	647
2/24/2019	15	304	647	550
2/24/2019	16	295	580	480
2/24/2019	17	288	550	464
2/24/2019	18	293	550	456
2/24/2019	19	314	647	647
2/24/2019	20	308	647	647
2/24/2019	21	294	551	456
2/24/2019	22	279	456	450
2/24/2019	23	267	480	456
2/24/2019	24	254	456	420
2/25/2019	1	268	500	500
2/25/2019	2	258	500	450
2/25/2019	3	253	500	420
2/25/2019	4	249	500	464
2/25/2019	5	256	500	435
2/25/2019	6	264	520	487
2/25/2019	7	247	500	459
2/25/2019	8	265	580	550
2/25/2019	9	282	580	550
2/25/2019	10	305	600	550
2/25/2019	11	317	647	550
2/25/2019	12	313	580	550
2/25/2019	13	317	582	550
2/25/2019	14	317	647	550
2/25/2019	15	315	580	500
2/25/2019	16	307	550	456
2/25/2019	17	303	550	480
2/25/2019	18	329	647	550
2/25/2019	19	330	647	600
2/25/2019	20	329	647	600
2/25/2019	21	323	600	553
2/25/2019	22	311	585	550
2/25/2019	23	296	555	500
2/25/2019	24	283	535	500
2/26/2019	1	248	580	500
2/26/2019	2	239	520	480
2/26/2019	3	230	500	420
2/26/2019	4	228	450	420
2/26/2019	5	233	460	420
2/26/2019	6	245	580	464
2/26/2019	7	246	563	480
2/26/2019	8	280	580	499
2/26/2019	9	321	647	572
2/26/2019	10	343	647	597
2/26/2019	11	355	647	647
2/26/2019	12	348	647	647
2/26/2019	13	356	647	647
2/26/2019	14	371	647	647
2/26/2019	15	369	647	647
2/26/2019	16	364	647	647
2/26/2019	17	347	647	647
2/26/2019	18	338	647	647
2/26/2019	19	350	647	647
2/26/2019	20	341	647	638
2/26/2019	21	331	580	546

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/26/2019	22	314	489	456
2/26/2019	23	295	456	450
2/26/2019	24	276	456	420
2/27/2019	1	271	590	510
2/27/2019	2	262	520	477
2/27/2019	3	254	500	420
2/27/2019	4	252	450	420
2/27/2019	5	260	480	428
2/27/2019	6	270	580	477
2/27/2019	7	274	557	440
2/27/2019	8	301	602	500
2/27/2019	9	334	647	513
2/27/2019	10	353	647	647
2/27/2019	11	363	647	647
2/27/2019	12	352	647	600
2/27/2019	13	350	647	574
2/27/2019	14	361	647	647
2/27/2019	15	357	647	647
2/27/2019	16	353	647	550
2/27/2019	17	341	580	520
2/27/2019	18	339	624	500
2/27/2019	19	347	647	523
2/27/2019	20	338	538	480
2/27/2019	21	328	500	456
2/27/2019	22	310	456	450
2/27/2019	23	291	456	450
2/27/2019	24	274	456	420
2/28/2019	1	256	580	470
2/28/2019	2	247	500	450
2/28/2019	3	242	460	429
2/28/2019	4	240	450	420
2/28/2019	5	248	480	450
2/28/2019	6	257	575	470
2/28/2019	7	260	557	440
2/28/2019	8	285	580	488
2/28/2019	9	317	647	500
2/28/2019	10	338	647	647
2/28/2019	11	356	647	647
2/28/2019	12	346	647	600
2/28/2019	13	346	647	647
2/28/2019	14	362	647	647
2/28/2019	15	360	647	647
2/28/2019	16	355	647	550
2/28/2019	17	341	647	560
2/28/2019	18	334	610	500
2/28/2019	19	349	647	647
2/28/2019	20	340	538	480
2/28/2019	21	328	500	456
2/28/2019	22	310	456	450
2/28/2019	23	290	456	450
2/28/2019	24	273	456	420
3/1/2019	1	248	550	450
3/1/2019	2	240	480	420
3/1/2019	3	232	450	420
3/1/2019	4	227	420	420
3/1/2019	5	237	450	420
3/1/2019	6	247	500	450
3/1/2019	7	248	510	460
3/1/2019	8	288	580	488
3/1/2019	9	323	647	500
3/1/2019	10	347	647	647
3/1/2019	11	360	647	647
3/1/2019	12	353	647	647
3/1/2019	13	353	647	647
3/1/2019	14	366	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/1/2019	15	363	647	647
3/1/2019	16	359	647	647
3/1/2019	17	347	647	647
3/1/2019	18	341	647	647
3/1/2019	19	349	647	647
3/1/2019	20	341	647	647
3/1/2019	21	330	647	623
3/1/2019	22	308	580	550
3/1/2019	23	282	500	420
3/1/2019	24	263	450	420
3/2/2019	1	273	647	420
3/2/2019	2	255	550	420
3/2/2019	3	248	550	420
3/2/2019	4	244	550	420
3/2/2019	5	242	500	420
3/2/2019	6	246	550	420
3/2/2019	7	245	526	420
3/2/2019	8	269	580	420
3/2/2019	9	297	612	420
3/2/2019	10	319	647	420
3/2/2019	11	333	647	420
3/2/2019	12	329	647	420
3/2/2019	13	328	647	420
3/2/2019	14	338	647	420
3/2/2019	15	336	647	420
3/2/2019	16	329	647	420
3/2/2019	17	315	647	420
3/2/2019	18	315	647	420
3/2/2019	19	331	647	420
3/2/2019	20	323	647	420
3/2/2019	21	315	647	420
3/2/2019	22	301	647	420
3/2/2019	23	281	500	420
3/2/2019	24	266	450	420
3/3/2019	1	246	550	420
3/3/2019	2	238	470	420
3/3/2019	3	231	450	420
3/3/2019	4	227	420	420
3/3/2019	5	227	450	420
3/3/2019	6	233	500	420
3/3/2019	7	240	510	420
3/3/2019	8	250	480	420
3/3/2019	9	283	500	420
3/3/2019	10	298	647	420
3/3/2019	11	308	647	420
3/3/2019	12	303	647	420
3/3/2019	13	302	647	420
3/3/2019	14	312	647	420
3/3/2019	15	306	647	420
3/3/2019	16	297	647	420
3/3/2019	17	290	580	420
3/3/2019	18	295	605	420
3/3/2019	19	316	647	420
3/3/2019	20	310	580	420
3/3/2019	21	296	576	420
3/3/2019	22	281	550	420
3/3/2019	23	269	463	420
3/3/2019	24	256	450	420
3/4/2019	1	247	580	420
3/4/2019	2	239	490	420
3/4/2019	3	230	450	420
3/4/2019	4	228	420	420
3/4/2019	5	233	580	420
3/4/2019	6	245	600	420
3/4/2019	7	246	521	420

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/4/2019	8	292	647	420
3/4/2019	9	330	647	420
3/4/2019	10	350	647	420
3/4/2019	11	364	647	420
3/4/2019	12	356	647	420
3/4/2019	13	354	647	420
3/4/2019	14	369	647	420
3/4/2019	15	363	647	420
3/4/2019	16	361	647	420
3/4/2019	17	350	647	420
3/4/2019	18	351	647	420
3/4/2019	19	352	647	420
3/4/2019	20	344	647	420
3/4/2019	21	329	647	420
3/4/2019	22	308	580	420
3/4/2019	23	297	503	420
3/4/2019	24	282	475	420
3/5/2019	1	275	647	456
3/5/2019	2	265	605	456
3/5/2019	3	257	580	456
3/5/2019	4	254	550	456
3/5/2019	5	262	647	456
3/5/2019	6	273	647	456
3/5/2019	7	275	647	456
3/5/2019	8	308	647	456
3/5/2019	9	346	647	456
3/5/2019	10	368	647	456
3/5/2019	11	380	647	456
3/5/2019	12	370	647	456
3/5/2019	13	370	647	456
3/5/2019	14	386	647	456
3/5/2019	15	385	647	456
3/5/2019	16	380	647	456
3/5/2019	17	365	647	456
3/5/2019	18	359	647	456
3/5/2019	19	369	647	456
3/5/2019	20	361	647	456
3/5/2019	21	351	647	456
3/5/2019	22	332	647	456
3/5/2019	23	315	584	456
3/5/2019	24	297	550	456
3/6/2019	1	275	647	456
3/6/2019	2	269	605	456
3/6/2019	3	260	580	456
3/6/2019	4	256	550	456
3/6/2019	5	266	647	456
3/6/2019	6	278	647	456
3/6/2019	7	278	647	456
3/6/2019	8	303	647	456
3/6/2019	9	334	647	456
3/6/2019	10	360	647	456
3/6/2019	11	372	647	456
3/6/2019	12	368	647	456
3/6/2019	13	369	647	456
3/6/2019	14	382	647	456
3/6/2019	15	381	647	456
3/6/2019	16	377	647	456
3/6/2019	17	359	647	456
3/6/2019	18	349	647	456
3/6/2019	19	363	647	456
3/6/2019	20	354	647	456
3/6/2019	21	350	647	456
3/6/2019	22	331	647	456
3/6/2019	23	312	584	456
3/6/2019	24	293	550	456

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/7/2019	1	277	523	456
3/7/2019	2	271	479	456
3/7/2019	3	263	456	420
3/7/2019	4	262	456	420
3/7/2019	5	271	500	456
3/7/2019	6	279	550	463
3/7/2019	7	276	529	456
3/7/2019	8	310	550	480
3/7/2019	9	351	647	580
3/7/2019	10	374	647	647
3/7/2019	11	386	647	647
3/7/2019	12	377	647	647
3/7/2019	13	379	647	647
3/7/2019	14	392	647	647
3/7/2019	15	393	647	647
3/7/2019	16	389	647	647
3/7/2019	17	373	647	647
3/7/2019	18	366	647	647
3/7/2019	19	378	647	647
3/7/2019	20	372	647	647
3/7/2019	21	363	647	647
3/7/2019	22	344	580	550
3/7/2019	23	323	520	480
3/7/2019	24	305	480	456
3/8/2019	1	284	590	520
3/8/2019	2	273	520	456
3/8/2019	3	266	456	420
3/8/2019	4	260	456	420
3/8/2019	5	268	500	456
3/8/2019	6	279	568	460
3/8/2019	7	281	580	520
3/8/2019	8	311	600	480
3/8/2019	9	346	647	580
3/8/2019	10	370	647	647
3/8/2019	11	385	647	647
3/8/2019	12	377	647	647
3/8/2019	13	378	647	647
3/8/2019	14	392	647	647
3/8/2019	15	389	647	647
3/8/2019	16	384	647	647
3/8/2019	17	369	647	647
3/8/2019	18	360	647	647
3/8/2019	19	372	647	647
3/8/2019	20	363	647	647
3/8/2019	21	353	647	647
3/8/2019	22	336	647	599
3/8/2019	23	319	580	500
3/8/2019	24	300	520	456
3/9/2019	1	288	590	520
3/9/2019	2	278	520	456
3/9/2019	3	269	456	420
3/9/2019	4	265	500	456
3/9/2019	5	264	500	456
3/9/2019	6	267	575	568
3/9/2019	7	270	600	600
3/9/2019	8	293	607	600
3/9/2019	9	324	647	647
3/9/2019	10	348	647	647
3/9/2019	11	361	647	647
3/9/2019	12	352	647	647
3/9/2019	13	349	620	620
3/9/2019	14	361	647	647
3/9/2019	15	360	647	647
3/9/2019	16	353	647	647
3/9/2019	17	338	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/9/2019	18	332	647	647
3/9/2019	19	354	647	647
3/9/2019	20	347	647	647
3/9/2019	21	340	647	647
3/9/2019	22	325	647	647
3/9/2019	23	307	580	500
3/9/2019	24	287	520	456
3/10/2019	1	254	540	456
3/10/2019	2	246	520	456
3/10/2019	3	239	456	420
3/10/2019	4	235	456	420
3/10/2019	5	235	500	456
3/10/2019	6	241	530	456
3/10/2019	7	248	580	456
3/10/2019	8	262	600	456
3/10/2019	9	301	647	550
3/10/2019	10	315	647	580
3/10/2019	11	326	647	647
3/10/2019	12	321	647	622
3/10/2019	13	320	647	596
3/10/2019	14	329	647	647
3/10/2019	15	323	647	647
3/10/2019	16	315	580	537
3/10/2019	17	308	557	500
3/10/2019	18	312	647	561
3/10/2019	19	333	647	647
3/10/2019	20	328	647	647
3/10/2019	21	314	608	580
3/10/2019	22	299	550	520
3/10/2019	23	286	471	456
3/10/2019	24	274	456	440
3/11/2019	1	260	520	456
3/11/2019	2	249	480	456
3/11/2019	3	242	456	420
3/11/2019	4	236	456	420
3/11/2019	5	244	500	456
3/11/2019	6	255	530	456
3/11/2019	7	257	580	456
3/11/2019	8	303	600	456
3/11/2019	9	349	647	647
3/11/2019	10	374	647	647
3/11/2019	11	388	647	647
3/11/2019	12	380	647	647
3/11/2019	13	381	647	647
3/11/2019	14	395	647	647
3/11/2019	15	392	647	647
3/11/2019	16	388	647	647
3/11/2019	17	372	548	500
3/11/2019	18	364	500	456
3/11/2019	19	376	580	500
3/11/2019	20	367	550	480
3/11/2019	21	356	520	456
3/11/2019	22	340	500	456
3/11/2019	23	322	471	456
3/11/2019	24	303	456	440
3/12/2019	1	266	520	456
3/12/2019	2	256	480	456
3/12/2019	3	246	456	420
3/12/2019	4	240	456	420
3/12/2019	5	248	500	456
3/12/2019	6	259	530	456
3/12/2019	7	261	580	456
3/12/2019	8	307	600	456
3/12/2019	9	348	647	647
3/12/2019	10	372	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/12/2019	11	387	647	647
3/12/2019	12	379	647	647
3/12/2019	13	379	647	647
3/12/2019	14	394	647	647
3/12/2019	15	390	647	647
3/12/2019	16	386	647	647
3/12/2019	17	371	548	500
3/12/2019	18	362	500	456
3/12/2019	19	374	580	500
3/12/2019	20	365	550	480
3/12/2019	21	354	520	456
3/12/2019	22	338	500	456
3/12/2019	23	320	471	456
3/12/2019	24	301	456	440
3/13/2019	1	291	600	550
3/13/2019	2	277	550	520
3/13/2019	3	269	500	456
3/13/2019	4	264	456	450
3/13/2019	5	269	480	456
3/13/2019	6	275	520	460
3/13/2019	7	286	580	460
3/13/2019	8	317	600	480
3/13/2019	9	355	646	600
3/13/2019	10	380	647	599
3/13/2019	11	393	647	647
3/13/2019	12	387	647	647
3/13/2019	13	388	647	647
3/13/2019	14	401	647	647
3/13/2019	15	399	647	647
3/13/2019	16	393	647	647
3/13/2019	17	376	570	550
3/13/2019	18	363	500	456
3/13/2019	19	376	545	500
3/13/2019	20	370	580	480
3/13/2019	21	365	546	466
3/13/2019	22	348	540	456
3/13/2019	23	332	471	456
3/13/2019	24	310	456	440
3/14/2019	1	301	647	634
3/14/2019	2	291	647	589
3/14/2019	3	282	543	520
3/14/2019	4	279	566	520
3/14/2019	5	284	518	500
3/14/2019	6	291	523	456
3/14/2019	7	272	456	434
3/14/2019	8	324	609	456
3/14/2019	9	362	640	600
3/14/2019	10	384	647	608
3/14/2019	11	394	647	637
3/14/2019	12	389	611	600
3/14/2019	13	388	575	574
3/14/2019	14	404	647	647
3/14/2019	15	401	647	647
3/14/2019	16	399	647	647
3/14/2019	17	382	604	553
3/14/2019	18	370	567	500
3/14/2019	19	380	644	615
3/14/2019	20	373	556	550
3/14/2019	21	365	540	500
3/14/2019	22	348	537	500
3/14/2019	23	330	461	456
3/14/2019	24	310	456	426
3/15/2019	1	292	647	568
3/15/2019	2	283	589	500
3/15/2019	3	274	550	480

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/15/2019	4	269	519	456
3/15/2019	5	275	550	456
3/15/2019	6	283	580	460
3/15/2019	7	281	550	456
3/15/2019	8	317	647	456
3/15/2019	9	355	647	500
3/15/2019	10	374	647	500
3/15/2019	11	389	647	549
3/15/2019	12	381	600	559
3/15/2019	13	381	573	500
3/15/2019	14	396	647	600
3/15/2019	15	393	647	579
3/15/2019	16	388	647	554
3/15/2019	17	368	550	480
3/15/2019	18	356	520	456
3/15/2019	19	370	580	520
3/15/2019	20	363	550	500
3/15/2019	21	358	540	480
3/15/2019	22	343	530	470
3/15/2019	23	324	456	450
3/15/2019	24	309	456	420
3/16/2019	1	291	580	580
3/16/2019	2	282	580	572
3/16/2019	3	271	569	565
3/16/2019	4	266	571	565
3/16/2019	5	264	550	545
3/16/2019	6	266	537	500
3/16/2019	7	256	473	456
3/16/2019	8	292	575	564
3/16/2019	9	321	500	500
3/16/2019	10	343	578	550
3/16/2019	11	360	600	556
3/16/2019	12	354	504	500
3/16/2019	13	354	500	500
3/16/2019	14	364	647	600
3/16/2019	15	360	603	592
3/16/2019	16	354	607	592
3/16/2019	17	337	550	502
3/16/2019	18	332	537	520
3/16/2019	19	352	620	612
3/16/2019	20	345	588	575
3/16/2019	21	341	575	568
3/16/2019	22	331	575	575
3/16/2019	23	314	500	458
3/16/2019	24	298	500	456
3/17/2019	1	262	573	520
3/17/2019	2	250	550	456
3/17/2019	3	243	520	456
3/17/2019	4	239	480	456
3/17/2019	5	239	470	456
3/17/2019	6	245	520	456
3/17/2019	7	252	575	470
3/17/2019	8	274	580	509
3/17/2019	9	312	647	563
3/17/2019	10	326	647	647
3/17/2019	11	337	647	647
3/17/2019	12	332	647	619
3/17/2019	13	331	647	559
3/17/2019	14	340	647	647
3/17/2019	15	334	647	627
3/17/2019	16	326	622	550
3/17/2019	17	319	550	480
3/17/2019	18	323	600	456
3/17/2019	19	344	647	647
3/17/2019	20	339	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/17/2019	21	325	571	500
3/17/2019	22	310	550	480
3/17/2019	23	297	456	450
3/17/2019	24	285	456	420
3/18/2019	1	280	550	520
3/18/2019	2	268	500	456
3/18/2019	3	260	480	456
3/18/2019	4	254	456	450
3/18/2019	5	261	480	456
3/18/2019	6	268	500	456
3/18/2019	7	266	500	456
3/18/2019	8	316	510	456
3/18/2019	9	356	647	563
3/18/2019	10	381	647	647
3/18/2019	11	396	647	647
3/18/2019	12	390	647	570
3/18/2019	13	390	647	534
3/18/2019	14	408	647	647
3/18/2019	15	405	647	647
3/18/2019	16	400	647	647
3/18/2019	17	382	622	550
3/18/2019	18	373	550	456
3/18/2019	19	386	647	635
3/18/2019	20	379	647	555
3/18/2019	21	371	565	500
3/18/2019	22	358	620	570
3/18/2019	23	339	565	457
3/18/2019	24	319	456	420
3/19/2019	1	299	567	500
3/19/2019	2	288	500	456
3/19/2019	3	278	456	436
3/19/2019	4	272	456	420
3/19/2019	5	278	480	456
3/19/2019	6	283	550	456
3/19/2019	7	284	500	456
3/19/2019	8	318	496	456
3/19/2019	9	356	550	456
3/19/2019	10	380	647	595
3/19/2019	11	394	647	596
3/19/2019	12	389	550	500
3/19/2019	13	390	541	500
3/19/2019	14	407	647	647
3/19/2019	15	404	647	647
3/19/2019	16	398	647	605
3/19/2019	17	378	580	500
3/19/2019	18	369	500	456
3/19/2019	19	382	557	500
3/19/2019	20	376	520	470
3/19/2019	21	371	500	500
3/19/2019	22	357	500	480
3/19/2019	23	338	456	450
3/19/2019	24	320	456	420
3/20/2019	1	284	560	500
3/20/2019	2	274	500	456
3/20/2019	3	265	456	430
3/20/2019	4	260	456	420
3/20/2019	5	267	480	456
3/20/2019	6	275	550	456
3/20/2019	7	281	500	456
3/20/2019	8	326	500	456
3/20/2019	9	360	550	461
3/20/2019	10	381	580	535
3/20/2019	11	396	647	540
3/20/2019	12	386	550	501
3/20/2019	13	385	540	477

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/20/2019	14	401	647	524
3/20/2019	15	396	647	486
3/20/2019	16	390	647	456
3/20/2019	17	371	580	456
3/20/2019	18	363	500	456
3/20/2019	19	375	530	500
3/20/2019	20	368	470	460
3/20/2019	21	358	456	450
3/20/2019	22	335	456	440
3/20/2019	23	308	456	450
3/20/2019	24	285	456	420
3/21/2019	1	299	585	456
3/21/2019	2	288	500	456
3/21/2019	3	280	456	450
3/21/2019	4	277	456	420
3/21/2019	5	282	480	456
3/21/2019	6	289	550	456
3/21/2019	7	290	500	456
3/21/2019	8	321	522	456
3/21/2019	9	357	550	461
3/21/2019	10	380	580	500
3/21/2019	11	393	647	513
3/21/2019	12	386	550	456
3/21/2019	13	386	540	456
3/21/2019	14	402	647	647
3/21/2019	15	399	647	647
3/21/2019	16	396	647	568
3/21/2019	17	379	580	456
3/21/2019	18	367	500	456
3/21/2019	19	380	572	500
3/21/2019	20	374	480	460
3/21/2019	21	367	456	450
3/21/2019	22	352	456	440
3/21/2019	23	335	456	420
3/21/2019	24	316	456	420
3/22/2019	1	305	647	600
3/22/2019	2	294	600	580
3/22/2019	3	284	580	460
3/22/2019	4	280	550	456
3/22/2019	5	284	550	456
3/22/2019	6	290	580	480
3/22/2019	7	290	500	493
3/22/2019	8	323	580	550
3/22/2019	9	356	647	647
3/22/2019	10	376	647	647
3/22/2019	11	391	647	647
3/22/2019	12	384	647	647
3/22/2019	13	384	647	647
3/22/2019	14	400	647	647
3/22/2019	15	394	647	647
3/22/2019	16	387	647	647
3/22/2019	17	367	580	550
3/22/2019	18	357	520	456
3/22/2019	19	367	647	620
3/22/2019	20	362	517	470
3/22/2019	21	357	456	450
3/22/2019	22	343	520	484
3/22/2019	23	326	500	456
3/22/2019	24	310	456	440
3/23/2019	1	298	605	456
3/23/2019	2	286	603	456
3/23/2019	3	279	550	456
3/23/2019	4	272	468	456
3/23/2019	5	272	494	456
3/23/2019	6	271	485	456

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/23/2019	7	271	456	455
3/23/2019	8	295	555	456
3/23/2019	9	319	647	456
3/23/2019	10	340	647	456
3/23/2019	11	352	647	456
3/23/2019	12	347	608	456
3/23/2019	13	345	559	456
3/23/2019	14	355	647	456
3/23/2019	15	354	647	456
3/23/2019	16	348	647	456
3/23/2019	17	333	561	456
3/23/2019	18	328	456	455
3/23/2019	19	348	647	456
3/23/2019	20	344	647	456
3/23/2019	21	340	647	456
3/23/2019	22	330	647	456
3/23/2019	23	312	548	456
3/23/2019	24	297	456	456
3/24/2019	1	262	600	456
3/24/2019	2	250	580	456
3/24/2019	3	242	460	456
3/24/2019	4	239	456	435
3/24/2019	5	238	456	450
3/24/2019	6	245	480	456
3/24/2019	7	252	456	420
3/24/2019	8	274	550	456
3/24/2019	9	307	647	456
3/24/2019	10	321	647	456
3/24/2019	11	332	647	456
3/24/2019	12	327	647	456
3/24/2019	13	326	647	456
3/24/2019	14	335	647	456
3/24/2019	15	329	647	456
3/24/2019	16	321	647	456
3/24/2019	17	314	550	456
3/24/2019	18	318	456	450
3/24/2019	19	339	647	456
3/24/2019	20	334	519	456
3/24/2019	21	320	480	456
3/24/2019	22	305	456	420
3/24/2019	23	292	456	420
3/24/2019	24	280	456	420
3/25/2019	1	260	550	456
3/25/2019	2	250	520	456
3/25/2019	3	242	480	456
3/25/2019	4	236	456	420
3/25/2019	5	244	520	456
3/25/2019	6	255	530	456
3/25/2019	7	257	467	456
3/25/2019	8	311	550	503
3/25/2019	9	359	558	550
3/25/2019	10	381	580	560
3/25/2019	11	395	580	573
3/25/2019	12	388	578	540
3/25/2019	13	388	570	550
3/25/2019	14	404	647	647
3/25/2019	15	401	647	647
3/25/2019	16	398	647	647
3/25/2019	17	381	550	500
3/25/2019	18	368	500	456
3/25/2019	19	382	580	457
3/25/2019	20	376	550	456
3/25/2019	21	369	530	456
3/25/2019	22	354	552	456
3/25/2019	23	337	550	456

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/25/2019	24	318	509	456
3/26/2019	1	296	647	647
3/26/2019	2	285	647	559
3/26/2019	3	276	550	483
3/26/2019	4	272	500	456
3/26/2019	5	277	558	456
3/26/2019	6	284	647	460
3/26/2019	7	290	631	456
3/26/2019	8	320	647	647
3/26/2019	9	358	647	647
3/26/2019	10	381	647	647
3/26/2019	11	393	647	647
3/26/2019	12	388	647	647
3/26/2019	13	387	647	647
3/26/2019	14	403	647	647
3/26/2019	15	399	647	647
3/26/2019	16	395	647	647
3/26/2019	17	377	647	647
3/26/2019	18	367	572	550
3/26/2019	19	378	647	647
3/26/2019	20	372	647	555
3/26/2019	21	363	580	528
3/26/2019	22	350	580	500
3/26/2019	23	333	550	487
3/26/2019	24	315	479	456
3/27/2019	1	301	647	580
3/27/2019	2	289	576	550
3/27/2019	3	280	550	500
3/27/2019	4	275	500	456
3/27/2019	5	279	550	480
3/27/2019	6	285	580	500
3/27/2019	7	290	550	480
3/27/2019	8	321	647	583
3/27/2019	9	359	647	647
3/27/2019	10	380	647	647
3/27/2019	11	393	647	647
3/27/2019	12	386	647	570
3/27/2019	13	388	647	647
3/27/2019	14	403	647	647
3/27/2019	15	402	647	647
3/27/2019	16	395	647	647
3/27/2019	17	376	647	554
3/27/2019	18	365	570	550
3/27/2019	19	376	647	561
3/27/2019	20	370	580	516
3/27/2019	21	364	580	510
3/27/2019	22	351	517	480
3/27/2019	23	333	500	460
3/27/2019	24	316	480	456
3/28/2019	1	301	647	568
3/28/2019	2	290	580	544
3/28/2019	3	281	520	460
3/28/2019	4	277	456	450
3/28/2019	5	282	480	456
3/28/2019	6	288	555	456
3/28/2019	7	289	520	456
3/28/2019	8	323	647	507
3/28/2019	9	360	647	577
3/28/2019	10	380	647	619
3/28/2019	11	395	647	647
3/28/2019	12	388	647	570
3/28/2019	13	387	647	647
3/28/2019	14	405	647	647
3/28/2019	15	402	647	647
3/28/2019	16	394	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/28/2019	17	380	607	580
3/28/2019	18	369	570	500
3/28/2019	19	381	647	525
3/28/2019	20	374	580	490
3/28/2019	21	368	580	485
3/28/2019	22	356	545	480
3/28/2019	23	339	500	460
3/28/2019	24	320	480	456
3/29/2019	1	308	647	631
3/29/2019	2	295	580	528
3/29/2019	3	284	500	485
3/29/2019	4	284	460	456
3/29/2019	5	282	456	440
3/29/2019	6	287	500	456
3/29/2019	7	292	480	456
3/29/2019	8	333	647	550
3/29/2019	9	371	647	647
3/29/2019	10	394	647	647
3/29/2019	11	403	647	647
3/29/2019	12	394	647	570
3/29/2019	13	394	647	647
3/29/2019	14	410	647	647
3/29/2019	15	406	647	647
3/29/2019	16	400	647	647
3/29/2019	17	379	600	550
3/29/2019	18	368	550	480
3/29/2019	19	380	552	520
3/29/2019	20	374	500	493
3/29/2019	21	369	500	476
3/29/2019	22	354	487	456
3/29/2019	23	336	500	465
3/29/2019	24	319	480	456
3/30/2019	1	319	631	585
3/30/2019	2	307	580	528
3/30/2019	3	296	530	514
3/30/2019	4	288	530	474
3/30/2019	5	285	500	456
3/30/2019	6	281	456	445
3/30/2019	7	282	456	442
3/30/2019	8	306	575	525
3/30/2019	9	342	575	525
3/30/2019	10	365	575	550
3/30/2019	11	378	600	550
3/30/2019	12	375	595	570
3/30/2019	13	372	595	580
3/30/2019	14	385	647	601
3/30/2019	15	381	600	549
3/30/2019	16	372	550	550
3/30/2019	17	355	550	546
3/30/2019	18	349	550	489
3/30/2019	19	367	552	520
3/30/2019	20	366	520	510
3/30/2019	21	360	647	630
3/30/2019	22	348	580	572
3/30/2019	23	334	535	500
3/30/2019	24	319	475	456
3/31/2019	1	266	550	500
3/31/2019	2	254	500	456
3/31/2019	3	247	480	456
3/31/2019	4	243	456	450
3/31/2019	5	243	456	439
3/31/2019	6	249	480	456
3/31/2019	7	256	480	456
3/31/2019	8	278	470	456
3/31/2019	9	303	480	456

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/31/2019	10	317	500	456
3/31/2019	11	328	550	500
3/31/2019	12	323	520	480
3/31/2019	13	322	530	470
3/31/2019	14	331	580	500
3/31/2019	15	325	550	480
3/31/2019	16	317	520	456
3/31/2019	17	310	500	456
3/31/2019	18	314	480	456
3/31/2019	19	335	552	504
3/31/2019	20	330	500	493
3/31/2019	21	316	550	501
3/31/2019	22	301	480	456
3/31/2019	23	288	456	450
3/31/2019	24	276	456	440
4/1/2019	1	266	550	480
4/1/2019	2	256	520	456
4/1/2019	3	248	480	456
4/1/2019	4	242	456	450
4/1/2019	5	250	460	456
4/1/2019	6	261	500	495
4/1/2019	7	263	480	456
4/1/2019	8	321	647	551
4/1/2019	9	372	647	647
4/1/2019	10	394	647	647
4/1/2019	11	408	647	647
4/1/2019	12	401	647	570
4/1/2019	13	400	647	633
4/1/2019	14	417	647	647
4/1/2019	15	414	647	647
4/1/2019	16	411	647	647
4/1/2019	17	394	647	586
4/1/2019	18	381	550	480
4/1/2019	19	395	589	520
4/1/2019	20	388	531	480
4/1/2019	21	382	515	480
4/1/2019	22	367	500	500
4/1/2019	23	350	495	480
4/1/2019	24	331	480	456
4/2/2019	1	300	580	500
4/2/2019	2	289	550	480
4/2/2019	3	281	480	456
4/2/2019	4	276	456	447
4/2/2019	5	279	456	450
4/2/2019	6	285	460	456
4/2/2019	7	290	520	456
4/2/2019	8	326	580	500
4/2/2019	9	363	647	647
4/2/2019	10	386	647	647
4/2/2019	11	401	647	647
4/2/2019	12	394	647	647
4/2/2019	13	395	647	647
4/2/2019	14	410	647	647
4/2/2019	15	407	647	647
4/2/2019	16	403	647	647
4/2/2019	17	382	647	647
4/2/2019	18	367	628	550
4/2/2019	19	380	647	647
4/2/2019	20	372	647	560
4/2/2019	21	366	580	550
4/2/2019	22	353	550	540
4/2/2019	23	337	520	500
4/2/2019	24	319	480	456
4/3/2019	1	300	600	520
4/3/2019	2	290	569	480

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/3/2019	3	281	480	459
4/3/2019	4	277	459	449
4/3/2019	5	280	480	459
4/3/2019	6	286	460	459
4/3/2019	7	290	480	459
4/3/2019	8	323	580	500
4/3/2019	9	360	647	647
4/3/2019	10	383	647	647
4/3/2019	11	396	647	647
4/3/2019	12	388	647	647
4/3/2019	13	389	647	647
4/3/2019	14	404	647	647
4/3/2019	15	401	647	647
4/3/2019	16	395	647	647
4/3/2019	17	376	647	647
4/3/2019	18	362	628	550
4/3/2019	19	376	647	647
4/3/2019	20	371	618	560
4/3/2019	21	365	580	550
4/3/2019	22	352	550	540
4/3/2019	23	336	520	500
4/3/2019	24	318	480	459
4/4/2019	1	303	647	580
4/4/2019	2	292	580	550
4/4/2019	3	283	550	500
4/4/2019	4	279	500	459
4/4/2019	5	282	520	470
4/4/2019	6	288	580	460
4/4/2019	7	290	550	459
4/4/2019	8	326	647	647
4/4/2019	9	361	647	647
4/4/2019	10	384	647	647
4/4/2019	11	399	647	647
4/4/2019	12	393	647	647
4/4/2019	13	393	647	647
4/4/2019	14	410	647	647
4/4/2019	15	408	647	647
4/4/2019	16	404	647	647
4/4/2019	17	384	647	647
4/4/2019	18	371	647	591
4/4/2019	19	386	647	647
4/4/2019	20	380	647	627
4/4/2019	21	374	647	570
4/4/2019	22	362	647	550
4/4/2019	23	345	647	580
4/4/2019	24	327	647	528
4/5/2019	1	318	647	570
4/5/2019	2	307	580	547
4/5/2019	3	297	544	500
4/5/2019	4	291	459	457
4/5/2019	5	293	481	459
4/5/2019	6	298	550	460
4/5/2019	7	301	520	459
4/5/2019	8	336	647	501
4/5/2019	9	366	647	647
4/5/2019	10	389	647	647
4/5/2019	11	404	647	647
4/5/2019	12	397	647	647
4/5/2019	13	398	647	593
4/5/2019	14	414	647	647
4/5/2019	15	409	647	647
4/5/2019	16	403	647	647
4/5/2019	17	382	647	647
4/5/2019	18	370	580	474
4/5/2019	19	382	617	520

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/5/2019	20	378	600	534
4/5/2019	21	373	590	532
4/5/2019	22	359	509	480
4/5/2019	23	342	520	482
4/5/2019	24	325	459	450
4/6/2019	1	318	647	608
4/6/2019	2	305	620	592
4/6/2019	3	296	540	500
4/6/2019	4	289	500	489
4/6/2019	5	285	500	496
4/6/2019	6	281	550	460
4/6/2019	7	282	520	452
4/6/2019	8	306	523	501
4/6/2019	9	339	580	557
4/6/2019	10	364	600	560
4/6/2019	11	377	647	600
4/6/2019	12	374	625	600
4/6/2019	13	372	600	590
4/6/2019	14	384	647	600
4/6/2019	15	380	647	612
4/6/2019	16	370	647	615
4/6/2019	17	352	585	580
4/6/2019	18	345	521	500
4/6/2019	19	364	617	545
4/6/2019	20	362	617	534
4/6/2019	21	356	600	557
4/6/2019	22	347	600	540
4/6/2019	23	333	591	510
4/6/2019	24	318	527	520
4/7/2019	1	274	550	479
4/7/2019	2	262	520	459
4/7/2019	3	255	500	459
4/7/2019	4	251	459	450
4/7/2019	5	251	460	459
4/7/2019	6	257	480	459
4/7/2019	7	264	520	459
4/7/2019	8	286	550	459
4/7/2019	9	308	540	460
4/7/2019	10	323	550	490
4/7/2019	11	333	580	500
4/7/2019	12	328	550	459
4/7/2019	13	327	530	459
4/7/2019	14	337	590	480
4/7/2019	15	331	550	460
4/7/2019	16	322	540	459
4/7/2019	17	315	540	459
4/7/2019	18	320	550	460
4/7/2019	19	341	647	555
4/7/2019	20	336	600	534
4/7/2019	21	321	590	532
4/7/2019	22	306	500	459
4/7/2019	23	294	460	459
4/7/2019	24	281	459	420
4/8/2019	1	274	580	480
4/8/2019	2	264	550	460
4/8/2019	3	256	511	459
4/8/2019	4	250	459	450
4/8/2019	5	258	460	459
4/8/2019	6	269	463	459
4/8/2019	7	271	459	450
4/8/2019	8	329	550	459
4/8/2019	9	368	540	460
4/8/2019	10	396	647	647
4/8/2019	11	410	647	647
4/8/2019	12	402	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/8/2019	13	404	647	647
4/8/2019	14	418	647	647
4/8/2019	15	416	647	647
4/8/2019	16	411	647	647
4/8/2019	17	388	647	647
4/8/2019	18	371	550	460
4/8/2019	19	387	647	647
4/8/2019	20	384	647	647
4/8/2019	21	380	647	647
4/8/2019	22	369	647	647
4/8/2019	23	353	600	568
4/8/2019	24	336	547	500
4/9/2019	1	321	647	580
4/9/2019	2	309	600	550
4/9/2019	3	303	580	520
4/9/2019	4	295	550	480
4/9/2019	5	293	540	470
4/9/2019	6	289	520	459
4/9/2019	7	294	550	459
4/9/2019	8	314	550	459
4/9/2019	9	337	540	478
4/9/2019	10	364	560	480
4/9/2019	11	378	596	500
4/9/2019	12	372	519	459
4/9/2019	13	372	531	459
4/9/2019	14	375	550	460
4/9/2019	15	373	550	459
4/9/2019	16	370	500	459
4/9/2019	17	361	500	459
4/9/2019	18	365	550	550
4/9/2019	19	388	647	647
4/9/2019	20	386	647	647
4/9/2019	21	377	647	647
4/9/2019	22	363	647	647
4/9/2019	23	345	647	601
4/9/2019	24	327	520	500
4/10/2019	1	316	647	570
4/10/2019	2	304	580	550
4/10/2019	3	294	550	520
4/10/2019	4	282	500	480
4/10/2019	5	279	480	470
4/10/2019	6	272	459	450
4/10/2019	7	282	550	459
4/10/2019	8	337	600	502
4/10/2019	9	373	647	647
4/10/2019	10	400	647	647
4/10/2019	11	415	647	647
4/10/2019	12	407	647	647
4/10/2019	13	409	647	647
4/10/2019	14	423	647	647
4/10/2019	15	420	647	647
4/10/2019	16	415	647	647
4/10/2019	17	392	647	647
4/10/2019	18	375	647	647
4/10/2019	19	391	647	647
4/10/2019	20	388	647	647
4/10/2019	21	385	647	647
4/10/2019	22	374	647	647
4/10/2019	23	358	647	647
4/10/2019	24	341	647	618
4/11/2019	1	319	647	459
4/11/2019	2	308	647	459
4/11/2019	3	298	647	459
4/11/2019	4	292	647	459
4/11/2019	5	292	647	459

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/11/2019	6	292	647	459
4/11/2019	7	303	647	459
4/11/2019	8	339	647	459
4/11/2019	9	377	647	459
4/11/2019	10	401	647	459
4/11/2019	11	415	647	459
4/11/2019	12	409	647	459
4/11/2019	13	410	647	459
4/11/2019	14	425	647	459
4/11/2019	15	424	647	459
4/11/2019	16	417	647	459
4/11/2019	17	395	647	459
4/11/2019	18	378	647	459
4/11/2019	19	393	647	459
4/11/2019	20	390	647	459
4/11/2019	21	384	647	459
4/11/2019	22	371	647	459
4/11/2019	23	357	647	459
4/11/2019	24	340	647	459
4/12/2019	1	311	647	459
4/12/2019	2	299	647	459
4/12/2019	3	290	647	459
4/12/2019	4	284	647	459
4/12/2019	5	282	647	459
4/12/2019	6	282	647	459
4/12/2019	7	291	647	459
4/12/2019	8	327	647	459
4/12/2019	9	366	647	459
4/12/2019	10	389	647	459
4/12/2019	11	402	647	459
4/12/2019	12	395	647	459
4/12/2019	13	397	647	459
4/12/2019	14	412	647	459
4/12/2019	15	408	647	459
4/12/2019	16	401	647	459
4/12/2019	17	381	647	459
4/12/2019	18	365	647	459
4/12/2019	19	378	647	459
4/12/2019	20	374	647	459
4/12/2019	21	372	647	459
4/12/2019	22	362	647	459
4/12/2019	23	347	647	459
4/12/2019	24	332	647	459
4/13/2019	1	328	647	459
4/13/2019	2	317	647	459
4/13/2019	3	307	647	459
4/13/2019	4	299	647	459
4/13/2019	5	295	647	459
4/13/2019	6	288	647	459
4/13/2019	7	290	647	459
4/13/2019	8	317	647	459
4/13/2019	9	346	647	459
4/13/2019	10	368	647	459
4/13/2019	11	384	647	459
4/13/2019	12	378	647	459
4/13/2019	13	380	647	459
4/13/2019	14	393	647	459
4/13/2019	15	390	647	459
4/13/2019	16	381	647	459
4/13/2019	17	365	647	459
4/13/2019	18	357	647	459
4/13/2019	19	377	647	459
4/13/2019	20	377	647	459
4/13/2019	21	378	647	459
4/13/2019	22	368	647	459

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/13/2019	23	357	647	459
4/13/2019	24	343	647	459
4/14/2019	1	278	647	459
4/14/2019	2	266	647	459
4/14/2019	3	259	580	459
4/14/2019	4	255	550	459
4/14/2019	5	255	540	459
4/14/2019	6	261	580	459
4/14/2019	7	268	609	459
4/14/2019	8	290	647	459
4/14/2019	9	314	647	459
4/14/2019	10	329	647	459
4/14/2019	11	339	647	459
4/14/2019	12	334	647	459
4/14/2019	13	333	647	459
4/14/2019	14	343	647	459
4/14/2019	15	337	647	459
4/14/2019	16	328	647	459
4/14/2019	17	321	647	459
4/14/2019	18	326	647	459
4/14/2019	19	347	647	459
4/14/2019	20	341	647	459
4/14/2019	21	327	647	459
4/14/2019	22	312	601	459
4/14/2019	23	299	580	459
4/14/2019	24	287	480	459
4/15/2019	1	295	647	459
4/15/2019	2	283	647	459
4/15/2019	3	274	647	459
4/15/2019	4	268	580	459
4/15/2019	5	262	550	459
4/15/2019	6	266	560	459
4/15/2019	7	275	580	459
4/15/2019	8	315	647	459
4/15/2019	9	366	647	459
4/15/2019	10	389	647	459
4/15/2019	11	402	647	459
4/15/2019	12	395	647	459
4/15/2019	13	397	647	459
4/15/2019	14	412	647	459
4/15/2019	15	408	647	459
4/15/2019	16	401	647	459
4/15/2019	17	381	647	459
4/15/2019	18	365	647	459
4/15/2019	19	378	647	459
4/15/2019	20	374	647	459
4/15/2019	21	372	647	459
4/15/2019	22	362	647	459
4/15/2019	23	347	647	459
4/15/2019	24	332	647	459
4/16/2019	1	305	647	459
4/16/2019	2	294	647	459
4/16/2019	3	286	647	459
4/16/2019	4	281	580	459
4/16/2019	5	285	550	459
4/16/2019	6	292	560	459
4/16/2019	7	295	560	459
4/16/2019	8	329	647	459
4/16/2019	9	367	647	459
4/16/2019	10	390	647	459
4/16/2019	11	405	647	459
4/16/2019	12	398	647	459
4/16/2019	13	400	647	459
4/16/2019	14	417	647	459
4/16/2019	15	414	647	459

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/16/2019	16	410	647	459
4/16/2019	17	389	647	459
4/16/2019	18	377	647	459
4/16/2019	19	389	647	459
4/16/2019	20	382	647	459
4/16/2019	21	375	647	459
4/16/2019	22	363	647	459
4/16/2019	23	344	647	459
4/16/2019	24	326	647	459
4/17/2019	1	320	580	550
4/17/2019	2	309	550	500
4/17/2019	3	299	500	459
4/17/2019	4	291	480	459
4/17/2019	5	287	460	459
4/17/2019	6	280	459	420
4/17/2019	7	282	459	450
4/17/2019	8	309	459	420
4/17/2019	9	346	459	450
4/17/2019	10	368	459	459
4/17/2019	11	384	571	459
4/17/2019	12	378	500	459
4/17/2019	13	380	500	459
4/17/2019	14	393	647	505
4/17/2019	15	390	647	476
4/17/2019	16	381	580	459
4/17/2019	17	365	500	459
4/17/2019	18	357	480	459
4/17/2019	19	377	601	459
4/17/2019	20	377	580	459
4/17/2019	21	378	567	459
4/17/2019	22	368	550	459
4/17/2019	23	357	647	616
4/17/2019	24	343	647	600
4/18/2019	1	250	300	300
4/18/2019	2	242	300	300
4/18/2019	3	234	300	300
4/18/2019	4	227	300	300
4/18/2019	5	223	300	300
4/18/2019	6	216	300	300
4/18/2019	7	236	300	300
4/18/2019	8	243	300	300
4/18/2019	9	256	300	300
4/18/2019	10	264	300	300
4/18/2019	11	272	300	300
4/18/2019	12	275	300	300
4/18/2019	13	276	300	300
4/18/2019	14	282	331	325
4/18/2019	15	276	300	300
4/18/2019	16	270	300	300
4/18/2019	17	265	300	300
4/18/2019	18	273	300	300
4/18/2019	19	293	441	435
4/18/2019	20	294	450	444
4/18/2019	21	292	420	420
4/18/2019	22	285	420	420
4/18/2019	23	278	420	420
4/18/2019	24	262	333	333
4/19/2019	1	235	459	350
4/19/2019	2	222	459	266
4/19/2019	3	215	459	266
4/19/2019	4	208	459	264
4/19/2019	5	206	459	262
4/19/2019	6	201	459	225
4/19/2019	7	221	459	350
4/19/2019	8	227	459	350

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/19/2019	9	233	459	354
4/19/2019	10	249	459	397
4/19/2019	11	261	459	450
4/19/2019	12	259	459	450
4/19/2019	13	257	459	450
4/19/2019	14	258	459	450
4/19/2019	15	254	459	450
4/19/2019	16	250	459	450
4/19/2019	17	250	459	450
4/19/2019	18	275	550	459
4/19/2019	19	275	520	459
4/19/2019	20	259	500	459
4/19/2019	21	250	459	450
4/19/2019	22	241	459	450
4/19/2019	23	234	459	350
4/19/2019	24	227	459	350
4/20/2019	1	237	459	350
4/20/2019	2	228	459	326
4/20/2019	3	223	459	325
4/20/2019	4	219	459	325
4/20/2019	5	217	459	325
4/20/2019	6	216	459	325
4/20/2019	7	211	459	266
4/20/2019	8	222	459	275
4/20/2019	9	240	459	353
4/20/2019	10	255	459	397
4/20/2019	11	266	459	450
4/20/2019	12	265	459	450
4/20/2019	13	265	459	450
4/20/2019	14	268	459	450
4/20/2019	15	268	459	450
4/20/2019	16	264	459	450
4/20/2019	17	261	459	450
4/20/2019	18	273	459	420
4/20/2019	19	291	520	459
4/20/2019	20	289	520	459
4/20/2019	21	283	517	459
4/20/2019	22	272	500	459
4/20/2019	23	259	500	459
4/20/2019	24	248	459	402
4/21/2019	1	282	550	459
4/21/2019	2	270	480	459
4/21/2019	3	263	459	444
4/21/2019	4	259	459	420
4/21/2019	5	259	459	420
4/21/2019	6	265	459	440
4/21/2019	7	272	459	450
4/21/2019	8	294	460	459
4/21/2019	9	301	470	459
4/21/2019	10	315	480	459
4/21/2019	11	326	550	480
4/21/2019	12	321	480	459
4/21/2019	13	320	480	459
4/21/2019	14	330	544	459
4/21/2019	15	324	480	459
4/21/2019	16	315	480	459
4/21/2019	17	308	480	459
4/21/2019	18	312	516	472
4/21/2019	19	334	647	542
4/21/2019	20	328	582	500
4/21/2019	21	314	550	459
4/21/2019	22	299	540	459
4/21/2019	23	286	512	459
4/21/2019	24	274	480	459
4/22/2019	1	295	520	459

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/22/2019	2	283	480	459
4/22/2019	3	274	459	450
4/22/2019	4	268	459	420
4/22/2019	5	273	459	430
4/22/2019	6	281	459	440
4/22/2019	7	291	459	450
4/22/2019	8	336	460	459
4/22/2019	9	377	647	580
4/22/2019	10	403	647	580
4/22/2019	11	418	647	647
4/22/2019	12	415	647	647
4/22/2019	13	415	647	647
4/22/2019	14	432	647	647
4/22/2019	15	430	647	647
4/22/2019	16	423	647	647
4/22/2019	17	399	550	500
4/22/2019	18	376	480	459
4/22/2019	19	392	539	460
4/22/2019	20	387	480	459
4/22/2019	21	384	480	459
4/22/2019	22	376	480	459
4/22/2019	23	361	480	459
4/22/2019	24	345	480	459
4/23/2019	1	333	647	647
4/23/2019	2	325	647	647
4/23/2019	3	314	647	647
4/23/2019	4	308	647	647
4/23/2019	5	307	647	647
4/23/2019	6	314	647	647
4/23/2019	7	320	647	647
4/23/2019	8	358	647	647
4/23/2019	9	393	647	647
4/23/2019	10	414	647	647
4/23/2019	11	429	647	647
4/23/2019	12	424	647	647
4/23/2019	13	424	647	647
4/23/2019	14	438	647	647
4/23/2019	15	436	647	647
4/23/2019	16	432	647	647
4/23/2019	17	411	647	647
4/23/2019	18	398	647	647
4/23/2019	19	410	647	647
4/23/2019	20	404	647	647
4/23/2019	21	399	647	647
4/23/2019	22	392	647	647
4/23/2019	23	370	647	647
4/23/2019	24	352	647	647
4/24/2019	1	321	647	647
4/24/2019	2	313	647	647
4/24/2019	3	302	647	647
4/24/2019	4	296	647	647
4/24/2019	5	295	647	647
4/24/2019	6	302	647	647
4/24/2019	7	308	647	647
4/24/2019	8	350	647	647
4/24/2019	9	380	647	647
4/24/2019	10	401	647	647
4/24/2019	11	416	647	647
4/24/2019	12	411	647	647
4/24/2019	13	411	647	647
4/24/2019	14	426	647	647
4/24/2019	15	424	647	647
4/24/2019	16	419	647	647
4/24/2019	17	398	647	647
4/24/2019	18	385	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/24/2019	19	397	647	647
4/24/2019	20	391	647	647
4/24/2019	21	386	647	647
4/24/2019	22	379	647	647
4/24/2019	23	357	647	647
4/24/2019	24	339	647	647
4/25/2019	1	324	647	647
4/25/2019	2	312	647	618
4/25/2019	3	302	647	600
4/25/2019	4	296	647	566
4/25/2019	5	297	647	647
4/25/2019	6	300	647	647
4/25/2019	7	307	647	647
4/25/2019	8	345	647	647
4/25/2019	9	381	647	647
4/25/2019	10	405	647	647
4/25/2019	11	421	647	647
4/25/2019	12	416	647	647
4/25/2019	13	416	647	647
4/25/2019	14	433	647	647
4/25/2019	15	430	647	647
4/25/2019	16	426	647	647
4/25/2019	17	404	647	647
4/25/2019	18	388	647	647
4/25/2019	19	403	647	647
4/25/2019	20	398	647	647
4/25/2019	21	392	647	647
4/25/2019	22	379	647	647
4/25/2019	23	363	647	647
4/25/2019	24	345	647	647
4/26/2019	1	330	647	647
4/26/2019	2	315	647	618
4/26/2019	3	307	647	600
4/26/2019	4	299	647	566
4/26/2019	5	300	647	647
4/26/2019	6	300	647	647
4/26/2019	7	308	647	647
4/26/2019	8	344	647	647
4/26/2019	9	381	647	647
4/26/2019	10	405	647	647
4/26/2019	11	420	647	647
4/26/2019	12	414	647	647
4/26/2019	13	416	647	647
4/26/2019	14	427	647	647
4/26/2019	15	424	647	647
4/26/2019	16	417	647	647
4/26/2019	17	398	647	647
4/26/2019	18	381	647	647
4/26/2019	19	396	647	647
4/26/2019	20	392	647	647
4/26/2019	21	389	647	647
4/26/2019	22	377	647	647
4/26/2019	23	360	647	647
4/26/2019	24	344	647	647
4/27/2019	1	343	647	647
4/27/2019	2	331	647	647
4/27/2019	3	320	647	647
4/27/2019	4	313	647	647
4/27/2019	5	305	647	647
4/27/2019	6	296	647	647
4/27/2019	7	293	647	647
4/27/2019	8	320	647	647
4/27/2019	9	350	647	647
4/27/2019	10	373	647	647
4/27/2019	11	387	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/27/2019	12	381	647	647
4/27/2019	13	384	647	647
4/27/2019	14	395	647	647
4/27/2019	15	392	647	647
4/27/2019	16	382	647	647
4/27/2019	17	364	647	647
4/27/2019	18	356	647	647
4/27/2019	19	375	647	647
4/27/2019	20	377	647	647
4/27/2019	21	377	647	647
4/27/2019	22	368	647	647
4/27/2019	23	357	647	647
4/27/2019	24	342	647	647
4/28/2019	1	294	647	550
4/28/2019	2	282	576	550
4/28/2019	3	275	550	500
4/28/2019	4	271	520	480
4/28/2019	5	271	530	470
4/28/2019	6	277	550	500
4/28/2019	7	284	590	586
4/28/2019	8	306	647	632
4/28/2019	9	342	647	647
4/28/2019	10	356	647	647
4/28/2019	11	367	647	647
4/28/2019	12	362	647	647
4/28/2019	13	361	647	647
4/28/2019	14	371	647	647
4/28/2019	15	364	647	647
4/28/2019	16	356	647	647
4/28/2019	17	349	647	647
4/28/2019	18	353	647	647
4/28/2019	19	375	647	647
4/28/2019	20	369	647	647
4/28/2019	21	355	647	647
4/28/2019	22	340	647	647
4/28/2019	23	327	647	561
4/28/2019	24	315	540	468
4/29/2019	1	300	647	580
4/29/2019	2	288	580	560
4/29/2019	3	278	550	520
4/29/2019	4	272	518	500
4/29/2019	5	273	551	510
4/29/2019	6	276	550	500
4/29/2019	7	291	600	586
4/29/2019	8	345	647	647
4/29/2019	9	392	647	647
4/29/2019	10	415	647	647
4/29/2019	11	432	647	647
4/29/2019	12	426	647	647
4/29/2019	13	427	647	647
4/29/2019	14	444	647	647
4/29/2019	15	441	647	647
4/29/2019	16	437	647	647
4/29/2019	17	415	647	647
4/29/2019	18	399	647	647
4/29/2019	19	414	647	647
4/29/2019	20	409	647	647
4/29/2019	21	403	647	647
4/29/2019	22	390	647	647
4/29/2019	23	373	647	647
4/29/2019	24	356	647	647
4/30/2019	1	343	647	647
4/30/2019	2	331	647	647
4/30/2019	3	319	647	647
4/30/2019	4	312	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/30/2019	5	308	647	647
4/30/2019	6	305	647	647
4/30/2019	7	310	647	647
4/30/2019	8	349	647	647
4/30/2019	9	386	647	647
4/30/2019	10	410	647	647
4/30/2019	11	425	647	647
4/30/2019	12	421	647	647
4/30/2019	13	422	647	647
4/30/2019	14	436	647	647
4/30/2019	15	435	647	647
4/30/2019	16	430	647	647
4/30/2019	17	405	647	647
4/30/2019	18	387	647	647
4/30/2019	19	403	647	647
4/30/2019	20	398	647	647
4/30/2019	21	395	647	647
4/30/2019	22	391	647	647
4/30/2019	23	379	647	647
4/30/2019	24	364	647	647
5/1/2019	1	325	507	500
5/1/2019	2	314	523	500
5/1/2019	3	304	500	500
5/1/2019	4	295	500	500
5/1/2019	5	289	500	500
5/1/2019	6	284	500	494
5/1/2019	7	283	500	460
5/1/2019	8	301	500	460
5/1/2019	9	324	500	474
5/1/2019	10	350	500	460
5/1/2019	11	366	575	491
5/1/2019	12	365	535	500
5/1/2019	13	369	579	545
5/1/2019	14	379	647	558
5/1/2019	15	375	600	555
5/1/2019	16	370	603	600
5/1/2019	17	354	500	500
5/1/2019	18	350	535	500
5/1/2019	19	376	647	586
5/1/2019	20	372	600	552
5/1/2019	21	369	573	536
5/1/2019	22	355	583	550
5/1/2019	23	344	566	550
5/1/2019	24	330	500	500
5/2/2019	1	315	647	550
5/2/2019	2	303	647	500
5/2/2019	3	291	647	460
5/2/2019	4	284	647	460
5/2/2019	5	280	647	460
5/2/2019	6	277	647	460
5/2/2019	7	282	647	460
5/2/2019	8	337	647	500
5/2/2019	9	382	647	647
5/2/2019	10	406	647	647
5/2/2019	11	422	647	647
5/2/2019	12	417	647	647
5/2/2019	13	418	647	647
5/2/2019	14	432	647	647
5/2/2019	15	431	647	647
5/2/2019	16	426	647	647
5/2/2019	17	401	647	549
5/2/2019	18	383	647	500
5/2/2019	19	399	647	647
5/2/2019	20	394	647	647
5/2/2019	21	391	647	589

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/2/2019	22	387	647	550
5/2/2019	23	375	647	500
5/2/2019	24	360	647	460
5/3/2019	1	352	647	647
5/3/2019	2	328	647	500
5/3/2019	3	316	647	460
5/3/2019	4	309	580	460
5/3/2019	5	305	550	460
5/3/2019	6	296	500	460
5/3/2019	7	298	580	505
5/3/2019	8	345	647	523
5/3/2019	9	387	647	647
5/3/2019	10	409	647	647
5/3/2019	11	423	647	647
5/3/2019	12	417	647	647
5/3/2019	13	419	647	647
5/3/2019	14	435	647	647
5/3/2019	15	432	647	647
5/3/2019	16	423	647	647
5/3/2019	17	399	624	540
5/3/2019	18	381	580	500
5/3/2019	19	395	647	545
5/3/2019	20	392	647	588
5/3/2019	21	391	617	552
5/3/2019	22	382	580	520
5/3/2019	23	375	570	500
5/3/2019	24	358	550	460
5/4/2019	1	342	647	647
5/4/2019	2	332	647	647
5/4/2019	3	319	647	647
5/4/2019	4	313	647	647
5/4/2019	5	303	647	647
5/4/2019	6	295	647	647
5/4/2019	7	298	647	647
5/4/2019	8	324	647	647
5/4/2019	9	354	647	647
5/4/2019	10	375	647	647
5/4/2019	11	386	647	647
5/4/2019	12	383	647	647
5/4/2019	13	387	647	647
5/4/2019	14	400	647	647
5/4/2019	15	396	647	647
5/4/2019	16	388	647	647
5/4/2019	17	368	647	647
5/4/2019	18	355	647	647
5/4/2019	19	373	647	647
5/4/2019	20	374	647	647
5/4/2019	21	373	647	647
5/4/2019	22	370	647	647
5/4/2019	23	357	647	647
5/4/2019	24	343	647	647
5/5/2019	1	298	647	647
5/5/2019	2	286	647	500
5/5/2019	3	279	647	460
5/5/2019	4	276	580	460
5/5/2019	5	275	550	460
5/5/2019	6	282	500	460
5/5/2019	7	288	580	505
5/5/2019	8	310	647	523
5/5/2019	9	325	647	647
5/5/2019	10	340	647	647
5/5/2019	11	350	647	647
5/5/2019	12	345	647	647
5/5/2019	13	344	647	647
5/5/2019	14	354	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/5/2019	15	348	647	647
5/5/2019	16	339	647	647
5/5/2019	17	332	624	540
5/5/2019	18	337	580	500
5/5/2019	19	358	647	545
5/5/2019	20	353	647	588
5/5/2019	21	338	617	552
5/5/2019	22	323	580	520
5/5/2019	23	311	570	500
5/5/2019	24	298	550	460
5/6/2019	1	312	647	647
5/6/2019	2	300	620	580
5/6/2019	3	290	580	520
5/6/2019	4	278	580	460
5/6/2019	5	275	550	460
5/6/2019	6	268	574	460
5/6/2019	7	282	580	467
5/6/2019	8	337	590	493
5/6/2019	9	379	647	505
5/6/2019	10	400	647	647
5/6/2019	11	411	647	647
5/6/2019	12	405	647	647
5/6/2019	13	407	647	647
5/6/2019	14	423	647	647
5/6/2019	15	422	647	647
5/6/2019	16	414	647	647
5/6/2019	17	393	647	647
5/6/2019	18	374	647	647
5/6/2019	19	387	647	647
5/6/2019	20	386	647	647
5/6/2019	21	387	647	647
5/6/2019	22	377	647	647
5/6/2019	23	364	647	647
5/6/2019	24	350	647	647
5/7/2019	1	316	647	647
5/7/2019	2	305	647	647
5/7/2019	3	293	572	500
5/7/2019	4	285	500	460
5/7/2019	5	281	480	460
5/7/2019	6	276	540	460
5/7/2019	7	289	600	585
5/7/2019	8	320	647	602
5/7/2019	9	333	647	647
5/7/2019	10	403	647	647
5/7/2019	11	416	647	647
5/7/2019	12	413	647	647
5/7/2019	13	416	647	647
5/7/2019	14	423	647	647
5/7/2019	15	423	647	647
5/7/2019	16	419	647	647
5/7/2019	17	396	647	580
5/7/2019	18	379	647	550
5/7/2019	19	392	647	580
5/7/2019	20	387	647	550
5/7/2019	21	380	647	500
5/7/2019	22	373	600	480
5/7/2019	23	356	580	460
5/7/2019	24	336	500	460
5/8/2019	1	328	647	647
5/8/2019	2	316	647	647
5/8/2019	3	304	580	550
5/8/2019	4	296	550	480
5/8/2019	5	291	500	460
5/8/2019	6	286	540	460
5/8/2019	7	294	600	585

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/8/2019	8	347	647	647
5/8/2019	9	387	647	647
5/8/2019	10	406	647	647
5/8/2019	11	421	647	647
5/8/2019	12	416	647	647
5/8/2019	13	415	647	647
5/8/2019	14	426	647	647
5/8/2019	15	419	647	647
5/8/2019	16	411	647	647
5/8/2019	17	390	647	539
5/8/2019	18	376	647	527
5/8/2019	19	393	647	647
5/8/2019	20	390	647	557
5/8/2019	21	390	647	540
5/8/2019	22	383	608	500
5/8/2019	23	367	601	480
5/8/2019	24	345	580	460
5/9/2019	1	319	647	580
5/9/2019	2	306	590	550
5/9/2019	3	296	560	520
5/9/2019	4	285	530	470
5/9/2019	5	282	490	460
5/9/2019	6	272	480	460
5/9/2019	7	284	550	460
5/9/2019	8	334	580	500
5/9/2019	9	372	647	550
5/9/2019	10	387	647	626
5/9/2019	11	400	647	647
5/9/2019	12	397	647	647
5/9/2019	13	398	647	611
5/9/2019	14	411	647	647
5/9/2019	15	408	647	647
5/9/2019	16	400	647	647
5/9/2019	17	383	571	500
5/9/2019	18	367	550	480
5/9/2019	19	382	580	550
5/9/2019	20	379	647	557
5/9/2019	21	377	647	551
5/9/2019	22	372	550	500
5/9/2019	23	356	520	480
5/9/2019	24	335	500	460
5/10/2019	1	318	647	647
5/10/2019	2	309	647	647
5/10/2019	3	298	647	647
5/10/2019	4	287	647	600
5/10/2019	5	286	647	600
5/10/2019	6	279	647	575
5/10/2019	7	291	647	600
5/10/2019	8	341	647	647
5/10/2019	9	380	647	647
5/10/2019	10	402	647	647
5/10/2019	11	412	647	647
5/10/2019	12	406	647	647
5/10/2019	13	407	647	647
5/10/2019	14	418	647	647
5/10/2019	15	416	647	647
5/10/2019	16	410	647	647
5/10/2019	17	392	647	647
5/10/2019	18	374	647	647
5/10/2019	19	387	647	647
5/10/2019	20	385	647	647
5/10/2019	21	385	647	647
5/10/2019	22	375	647	615
5/10/2019	23	356	647	600
5/10/2019	24	338	647	628

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/11/2019	1	318	647	580
5/11/2019	2	308	590	560
5/11/2019	3	295	560	520
5/11/2019	4	289	530	470
5/11/2019	5	279	490	460
5/11/2019	6	271	480	460
5/11/2019	7	274	550	460
5/11/2019	8	300	500	460
5/11/2019	9	331	530	480
5/11/2019	10	352	550	500
5/11/2019	11	363	580	518
5/11/2019	12	360	540	460
5/11/2019	13	364	560	480
5/11/2019	14	377	647	647
5/11/2019	15	373	647	596
5/11/2019	16	365	647	576
5/11/2019	17	345	550	480
5/11/2019	18	332	500	460
5/11/2019	19	350	597	550
5/11/2019	20	351	597	585
5/11/2019	21	350	597	580
5/11/2019	22	347	534	500
5/11/2019	23	334	520	480
5/11/2019	24	320	500	460
5/12/2019	1	314	590	539
5/12/2019	2	303	590	527
5/12/2019	3	291	560	520
5/12/2019	4	282	511	470
5/12/2019	5	273	490	460
5/12/2019	6	268	480	460
5/12/2019	7	268	550	460
5/12/2019	8	282	500	460
5/12/2019	9	299	500	460
5/12/2019	10	310	500	460
5/12/2019	11	320	550	460
5/12/2019	12	319	540	460
5/12/2019	13	318	560	460
5/12/2019	14	321	580	460
5/12/2019	15	324	550	460
5/12/2019	16	317	518	460
5/12/2019	17	310	480	460
5/12/2019	18	319	500	460
5/12/2019	19	353	647	647
5/12/2019	20	353	647	647
5/12/2019	21	350	647	647
5/12/2019	22	335	534	500
5/12/2019	23	323	520	480
5/12/2019	24	306	480	460
5/13/2019	1	298	500	484
5/13/2019	2	287	500	463
5/13/2019	3	277	500	460
5/13/2019	4	274	500	464
5/13/2019	5	279	500	478
5/13/2019	6	272	500	460
5/13/2019	7	269	482	420
5/13/2019	8	285	420	420
5/13/2019	9	309	420	420
5/13/2019	10	333	460	446
5/13/2019	11	342	522	460
5/13/2019	12	340	460	450
5/13/2019	13	344	520	460
5/13/2019	14	346	522	520
5/13/2019	15	342	500	478
5/13/2019	16	335	505	500
5/13/2019	17	331	506	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/13/2019	18	335	500	484
5/13/2019	19	362	647	582
5/13/2019	20	360	618	559
5/13/2019	21	357	600	562
5/13/2019	22	347	600	545
5/13/2019	23	331	525	460
5/13/2019	24	312	500	460
5/14/2019	1	316	580	550
5/14/2019	2	304	550	530
5/14/2019	3	294	520	500
5/14/2019	4	282	500	480
5/14/2019	5	279	500	470
5/14/2019	6	272	480	460
5/14/2019	7	282	550	500
5/14/2019	8	337	566	540
5/14/2019	9	380	647	647
5/14/2019	10	401	647	647
5/14/2019	11	412	647	647
5/14/2019	12	406	647	647
5/14/2019	13	408	647	647
5/14/2019	14	425	647	647
5/14/2019	15	423	647	647
5/14/2019	16	415	647	647
5/14/2019	17	394	647	647
5/14/2019	18	375	647	580
5/14/2019	19	388	647	588
5/14/2019	20	387	647	560
5/14/2019	21	384	647	550
5/14/2019	22	378	647	540
5/14/2019	23	365	647	520
5/14/2019	24	351	647	500
5/15/2019	1	316	647	580
5/15/2019	2	304	580	550
5/15/2019	3	294	550	500
5/15/2019	4	282	520	460
5/15/2019	5	279	500	460
5/15/2019	6	272	500	460
5/15/2019	7	282	580	550
5/15/2019	8	337	647	647
5/15/2019	9	380	647	647
5/15/2019	10	401	647	647
5/15/2019	11	412	647	647
5/15/2019	12	406	647	647
5/15/2019	13	408	647	647
5/15/2019	14	425	647	647
5/15/2019	15	423	647	647
5/15/2019	16	415	647	647
5/15/2019	17	394	647	647
5/15/2019	18	375	647	617
5/15/2019	19	388	647	647
5/15/2019	20	387	647	647
5/15/2019	21	384	647	647
5/15/2019	22	378	647	647
5/15/2019	23	365	647	647
5/15/2019	24	351	647	632
5/16/2019	1	321	647	638
5/16/2019	2	310	580	550
5/16/2019	3	301	550	500
5/16/2019	4	292	520	460
5/16/2019	5	289	500	460
5/16/2019	6	285	500	460
5/16/2019	7	300	590	540
5/16/2019	8	353	647	647
5/16/2019	9	398	647	647
5/16/2019	10	423	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/16/2019	11	437	647	647
5/16/2019	12	433	647	647
5/16/2019	13	435	647	647
5/16/2019	14	447	647	647
5/16/2019	15	443	647	647
5/16/2019	16	435	647	647
5/16/2019	17	415	647	647
5/16/2019	18	396	647	617
5/16/2019	19	407	647	647
5/16/2019	20	404	647	647
5/16/2019	21	402	647	647
5/16/2019	22	391	647	647
5/16/2019	23	374	647	647
5/16/2019	24	351	647	546
5/17/2019	1	323	647	620
5/17/2019	2	311	580	560
5/17/2019	3	298	570	500
5/17/2019	4	290	530	460
5/17/2019	5	286	500	460
5/17/2019	6	282	500	460
5/17/2019	7	316	647	540
5/17/2019	8	356	647	647
5/17/2019	9	386	647	647
5/17/2019	10	408	647	647
5/17/2019	11	420	647	647
5/17/2019	12	415	647	647
5/17/2019	13	417	647	647
5/17/2019	14	429	647	647
5/17/2019	15	425	647	647
5/17/2019	16	416	647	647
5/17/2019	17	397	647	600
5/17/2019	18	380	580	579
5/17/2019	19	392	647	647
5/17/2019	20	389	647	647
5/17/2019	21	387	647	615
5/17/2019	22	379	647	574
5/17/2019	23	359	591	550
5/17/2019	24	339	550	500
5/18/2019	1	329	625	593
5/18/2019	2	319	625	575
5/18/2019	3	306	570	553
5/18/2019	4	296	600	550
5/18/2019	5	292	600	460
5/18/2019	6	281	500	460
5/18/2019	7	287	500	460
5/18/2019	8	324	643	600
5/18/2019	9	362	647	600
5/18/2019	10	385	647	647
5/18/2019	11	398	647	647
5/18/2019	12	391	647	647
5/18/2019	13	389	647	568
5/18/2019	14	399	647	647
5/18/2019	15	392	647	647
5/18/2019	16	383	612	600
5/18/2019	17	367	600	519
5/18/2019	18	358	600	528
5/18/2019	19	378	600	533
5/18/2019	20	379	647	590
5/18/2019	21	380	647	647
5/18/2019	22	375	647	647
5/18/2019	23	357	612	540
5/18/2019	24	337	540	523
5/19/2019	1	314	600	570
5/19/2019	2	302	580	560
5/19/2019	3	291	570	500

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/19/2019	4	282	530	460
5/19/2019	5	273	509	460
5/19/2019	6	268	500	460
5/19/2019	7	268	480	460
5/19/2019	8	282	480	460
5/19/2019	9	304	540	460
5/19/2019	10	314	550	460
5/19/2019	11	324	580	535
5/19/2019	12	323	563	460
5/19/2019	13	323	570	460
5/19/2019	14	328	580	460
5/19/2019	15	325	560	460
5/19/2019	16	321	558	460
5/19/2019	17	314	550	460
5/19/2019	18	324	560	460
5/19/2019	19	357	647	621
5/19/2019	20	358	647	647
5/19/2019	21	354	647	647
5/19/2019	22	340	580	523
5/19/2019	23	327	500	480
5/19/2019	24	310	480	460
5/20/2019	1	309	600	570
5/20/2019	2	298	580	540
5/20/2019	3	289	550	500
5/20/2019	4	280	500	460
5/20/2019	5	277	480	460
5/20/2019	6	273	460	460
5/20/2019	7	288	480	460
5/20/2019	8	353	480	460
5/20/2019	9	402	647	647
5/20/2019	10	427	647	647
5/20/2019	11	441	647	647
5/20/2019	12	437	647	647
5/20/2019	13	439	647	647
5/20/2019	14	451	647	647
5/20/2019	15	446	647	647
5/20/2019	16	439	647	647
5/20/2019	17	418	647	647
5/20/2019	18	400	647	647
5/20/2019	19	411	647	647
5/20/2019	20	408	647	647
5/20/2019	21	406	647	647
5/20/2019	22	395	647	647
5/20/2019	23	378	647	647
5/20/2019	24	355	647	647
5/21/2019	1	341	647	647
5/21/2019	2	317	647	647
5/21/2019	3	307	647	572
5/21/2019	4	300	580	550
5/21/2019	5	297	550	465
5/21/2019	6	295	580	534
5/21/2019	7	318	647	647
5/21/2019	8	354	647	647
5/21/2019	9	391	647	647
5/21/2019	10	414	647	647
5/21/2019	11	431	647	647
5/21/2019	12	425	647	647
5/21/2019	13	424	647	647
5/21/2019	14	435	647	647
5/21/2019	15	429	647	647
5/21/2019	16	423	647	647
5/21/2019	17	402	647	647
5/21/2019	18	389	647	647
5/21/2019	19	401	647	647
5/21/2019	20	400	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/21/2019	21	399	647	647
5/21/2019	22	391	647	647
5/21/2019	23	377	647	647
5/21/2019	24	363	647	647
5/22/2019	1	348	647	647
5/22/2019	2	336	647	647
5/22/2019	3	325	647	647
5/22/2019	4	315	647	647
5/22/2019	5	309	647	647
5/22/2019	6	300	647	632
5/22/2019	7	303	580	520
5/22/2019	8	361	647	647
5/22/2019	9	401	647	647
5/22/2019	10	431	647	647
5/22/2019	11	445	647	647
5/22/2019	12	439	647	647
5/22/2019	13	438	647	647
5/22/2019	14	452	647	647
5/22/2019	15	448	647	647
5/22/2019	16	442	647	647
5/22/2019	17	419	647	647
5/22/2019	18	402	647	647
5/22/2019	19	419	647	647
5/22/2019	20	417	647	647
5/22/2019	21	415	647	647
5/22/2019	22	408	647	647
5/22/2019	23	390	647	647
5/22/2019	24	368	647	647
5/23/2019	1	351	647	647
5/23/2019	2	340	647	647
5/23/2019	3	329	647	647
5/23/2019	4	319	647	647
5/23/2019	5	314	647	647
5/23/2019	6	308	647	625
5/23/2019	7	322	647	647
5/23/2019	8	360	647	647
5/23/2019	9	398	647	647
5/23/2019	10	419	647	647
5/23/2019	11	433	647	647
5/23/2019	12	426	647	647
5/23/2019	13	429	647	647
5/23/2019	14	442	647	647
5/23/2019	15	440	647	647
5/23/2019	16	433	647	647
5/23/2019	17	412	647	647
5/23/2019	18	395	647	647
5/23/2019	19	407	647	647
5/23/2019	20	408	647	647
5/23/2019	21	408	647	647
5/23/2019	22	404	647	647
5/23/2019	23	391	647	647
5/23/2019	24	376	647	647
5/24/2019	1	334	647	647
5/24/2019	2	325	647	647
5/24/2019	3	311	647	647
5/24/2019	4	302	580	550
5/24/2019	5	298	560	530
5/24/2019	6	292	540	500
5/24/2019	7	305	647	508
5/24/2019	8	355	647	647
5/24/2019	9	395	647	647
5/24/2019	10	422	647	647
5/24/2019	11	433	647	647
5/24/2019	12	421	647	622
5/24/2019	13	423	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/24/2019	14	439	647	647
5/24/2019	15	431	647	647
5/24/2019	16	426	647	647
5/24/2019	17	403	608	550
5/24/2019	18	385	520	500
5/24/2019	19	401	550	520
5/24/2019	20	402	510	500
5/24/2019	21	402	580	556
5/24/2019	22	395	571	550
5/24/2019	23	379	600	556
5/24/2019	24	358	479	460
5/25/2019	1	355	647	600
5/25/2019	2	337	638	600
5/25/2019	3	325	647	600
5/25/2019	4	314	580	550
5/25/2019	5	310	580	550
5/25/2019	6	299	517	500
5/25/2019	7	302	542	500
5/25/2019	8	330	550	500
5/25/2019	9	362	583	500
5/25/2019	10	386	590	500
5/25/2019	11	398	647	545
5/25/2019	12	392	550	550
5/25/2019	13	390	550	550
5/25/2019	14	399	647	525
5/25/2019	15	393	600	511
5/25/2019	16	383	550	500
5/25/2019	17	367	550	550
5/25/2019	18	358	520	500
5/25/2019	19	379	550	532
5/25/2019	20	379	524	500
5/25/2019	21	380	600	588
5/25/2019	22	376	598	590
5/25/2019	23	363	580	556
5/25/2019	24	350	532	513
5/26/2019	1	322	647	647
5/26/2019	2	313	647	647
5/26/2019	3	299	580	550
5/26/2019	4	290	550	520
5/26/2019	5	286	500	480
5/26/2019	6	280	500	460
5/26/2019	7	293	500	460
5/26/2019	8	347	520	460
5/26/2019	9	389	647	580
5/26/2019	10	416	647	647
5/26/2019	11	427	647	647
5/26/2019	12	415	647	647
5/26/2019	13	417	647	647
5/26/2019	14	433	647	647
5/26/2019	15	425	647	647
5/26/2019	16	419	647	647
5/26/2019	17	396	647	647
5/26/2019	18	379	647	550
5/26/2019	19	395	580	550
5/26/2019	20	394	590	580
5/26/2019	21	394	580	561
5/26/2019	22	389	626	550
5/26/2019	23	373	580	513
5/26/2019	24	352	608	580
5/27/2019	1	322	647	647
5/27/2019	2	313	647	647
5/27/2019	3	299	580	550
5/27/2019	4	290	550	520
5/27/2019	5	286	500	480
5/27/2019	6	280	500	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/27/2019	7	293	500	460
5/27/2019	8	347	520	460
5/27/2019	9	389	647	580
5/27/2019	10	416	647	647
5/27/2019	11	427	647	647
5/27/2019	12	415	647	647
5/27/2019	13	417	647	647
5/27/2019	14	433	647	647
5/27/2019	15	425	647	647
5/27/2019	16	419	647	647
5/27/2019	17	396	647	647
5/27/2019	18	379	647	550
5/27/2019	19	395	580	550
5/27/2019	20	394	590	580
5/27/2019	21	394	580	561
5/27/2019	22	389	626	550
5/27/2019	23	373	580	513
5/27/2019	24	352	608	580
5/28/2019	1	332	647	647
5/28/2019	2	323	647	647
5/28/2019	3	310	580	550
5/28/2019	4	302	550	520
5/28/2019	5	296	500	480
5/28/2019	6	288	500	460
5/28/2019	7	301	500	460
5/28/2019	8	351	520	460
5/28/2019	9	382	647	580
5/28/2019	10	409	647	647
5/28/2019	11	420	647	647
5/28/2019	12	408	647	647
5/28/2019	13	410	647	647
5/28/2019	14	426	647	647
5/28/2019	15	418	647	647
5/28/2019	16	412	647	647
5/28/2019	17	389	647	647
5/28/2019	18	372	647	550
5/28/2019	19	387	580	550
5/28/2019	20	387	590	580
5/28/2019	21	386	580	561
5/28/2019	22	382	626	550
5/28/2019	23	366	580	513
5/28/2019	24	345	608	580
5/29/2019	1	343	647	647
5/29/2019	2	331	647	647
5/29/2019	3	321	580	550
5/29/2019	4	314	553	470
5/29/2019	5	309	500	460
5/29/2019	6	304	472	460
5/29/2019	7	315	580	500
5/29/2019	8	355	647	647
5/29/2019	9	388	647	647
5/29/2019	10	408	647	647
5/29/2019	11	423	647	647
5/29/2019	12	419	647	647
5/29/2019	13	419	647	647
5/29/2019	14	430	647	647
5/29/2019	15	425	647	647
5/29/2019	16	416	647	647
5/29/2019	17	399	580	550
5/29/2019	18	383	550	513
5/29/2019	19	392	580	460
5/29/2019	20	387	541	460
5/29/2019	21	385	520	460
5/29/2019	22	376	580	460
5/29/2019	23	364	580	523

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/29/2019	24	349	500	480
5/30/2019	1	322	647	580
5/30/2019	2	311	647	548
5/30/2019	3	304	603	520
5/30/2019	4	295	520	460
5/30/2019	5	293	500	460
5/30/2019	6	290	472	460
5/30/2019	7	300	580	480
5/30/2019	8	338	647	550
5/30/2019	9	377	647	647
5/30/2019	10	400	647	647
5/30/2019	11	412	647	647
5/30/2019	12	406	647	647
5/30/2019	13	411	647	647
5/30/2019	14	423	647	647
5/30/2019	15	417	647	647
5/30/2019	16	413	647	647
5/30/2019	17	389	584	555
5/30/2019	18	372	530	463
5/30/2019	19	385	580	521
5/30/2019	20	385	561	480
5/30/2019	21	382	580	538
5/30/2019	22	376	580	479
5/30/2019	23	362	580	565
5/30/2019	24	345	500	480
5/31/2019	1	333	647	647
5/31/2019	2	322	647	647
5/31/2019	3	310	647	647
5/31/2019	4	300	647	569
5/31/2019	5	296	647	515
5/31/2019	6	289	574	460
5/31/2019	7	310	647	647
5/31/2019	8	359	647	647
5/31/2019	9	396	647	647
5/31/2019	10	415	647	647
5/31/2019	11	427	647	647
5/31/2019	12	419	647	647
5/31/2019	13	415	647	647
5/31/2019	14	425	647	647
5/31/2019	15	420	647	647
5/31/2019	16	414	647	647
5/31/2019	17	393	647	647
5/31/2019	18	377	580	550
5/31/2019	19	391	647	548
5/31/2019	20	389	647	533
5/31/2019	21	391	594	520
5/31/2019	22	382	647	597
5/31/2019	23	371	647	579
5/31/2019	24	344	550	488
6/1/2019	1	329	647	647
6/1/2019	2	312	647	647
6/1/2019	3	301	647	647
6/1/2019	4	291	647	647
6/1/2019	5	286	647	599
6/1/2019	6	276	600	550
6/1/2019	7	293	647	647
6/1/2019	8	333	647	647
6/1/2019	9	356	647	647
6/1/2019	10	377	647	647
6/1/2019	11	392	647	647
6/1/2019	12	387	647	647
6/1/2019	13	387	647	647
6/1/2019	14	397	647	647
6/1/2019	15	391	647	647
6/1/2019	16	381	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/1/2019	17	363	647	647
6/1/2019	18	356	647	647
6/1/2019	19	373	647	647
6/1/2019	20	375	647	647
6/1/2019	21	376	647	647
6/1/2019	22	372	647	647
6/1/2019	23	353	647	647
6/1/2019	24	333	647	637
6/2/2019	1	327	647	647
6/2/2019	2	314	647	647
6/2/2019	3	302	647	647
6/2/2019	4	288	647	569
6/2/2019	5	285	647	515
6/2/2019	6	279	574	450
6/2/2019	7	279	470	420
6/2/2019	8	297	481	420
6/2/2019	9	311	500	441
6/2/2019	10	332	647	647
6/2/2019	11	343	647	647
6/2/2019	12	342	647	647
6/2/2019	13	344	647	647
6/2/2019	14	350	647	647
6/2/2019	15	349	647	647
6/2/2019	16	338	647	647
6/2/2019	17	329	647	647
6/2/2019	18	329	647	647
6/2/2019	19	350	647	647
6/2/2019	20	352	647	647
6/2/2019	21	350	647	647
6/2/2019	22	348	647	647
6/2/2019	23	343	647	647
6/2/2019	24	324	647	647
6/3/2019	1	320	647	647
6/3/2019	2	312	647	647
6/3/2019	3	298	647	647
6/3/2019	4	289	647	569
6/3/2019	5	285	647	515
6/3/2019	6	280	574	450
6/3/2019	7	292	470	420
6/3/2019	8	347	481	460
6/3/2019	9	385	500	460
6/3/2019	10	412	647	647
6/3/2019	11	423	647	647
6/3/2019	12	411	647	612
6/3/2019	13	413	647	647
6/3/2019	14	429	647	647
6/3/2019	15	421	647	647
6/3/2019	16	415	647	647
6/3/2019	17	392	647	647
6/3/2019	18	375	580	550
6/3/2019	19	391	598	580
6/3/2019	20	390	647	561
6/3/2019	21	390	647	548
6/3/2019	22	385	647	505
6/3/2019	23	369	580	550
6/3/2019	24	348	570	540
6/4/2019	1	356	647	647
6/4/2019	2	344	647	647
6/4/2019	3	334	647	647
6/4/2019	4	325	647	647
6/4/2019	5	326	647	647
6/4/2019	6	314	647	647
6/4/2019	7	323	647	647
6/4/2019	8	362	647	647
6/4/2019	9	401	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/4/2019	10	424	647	647
6/4/2019	11	436	647	647
6/4/2019	12	431	647	612
6/4/2019	13	432	647	647
6/4/2019	14	445	647	647
6/4/2019	15	437	647	647
6/4/2019	16	427	647	647
6/4/2019	17	406	647	647
6/4/2019	18	393	580	550
6/4/2019	19	399	598	580
6/4/2019	20	400	647	561
6/4/2019	21	397	647	548
6/4/2019	22	385	647	607
6/4/2019	23	368	614	534
6/4/2019	24	352	647	617
6/5/2019	1	336	647	647
6/5/2019	2	326	647	647
6/5/2019	3	314	647	647
6/5/2019	4	307	647	647
6/5/2019	5	301	647	647
6/5/2019	6	292	647	647
6/5/2019	7	293	647	647
6/5/2019	8	313	647	647
6/5/2019	9	353	647	647
6/5/2019	10	387	647	647
6/5/2019	11	403	647	647
6/5/2019	12	397	647	647
6/5/2019	13	398	647	647
6/5/2019	14	408	647	647
6/5/2019	15	406	647	647
6/5/2019	16	398	647	647
6/5/2019	17	387	647	647
6/5/2019	18	384	647	647
6/5/2019	19	408	647	647
6/5/2019	20	408	647	647
6/5/2019	21	408	647	647
6/5/2019	22	396	647	647
6/5/2019	23	374	647	647
6/5/2019	24	352	647	647
6/6/2019	1	322	600	560
6/6/2019	2	314	570	520
6/6/2019	3	300	550	500
6/6/2019	4	291	520	480
6/6/2019	5	287	500	460
6/6/2019	6	282	500	460
6/6/2019	7	294	520	480
6/6/2019	8	353	647	627
6/6/2019	9	394	647	647
6/6/2019	10	420	647	647
6/6/2019	11	432	647	647
6/6/2019	12	428	647	612
6/6/2019	13	429	647	647
6/6/2019	14	441	647	647
6/6/2019	15	434	647	647
6/6/2019	16	424	647	647
6/6/2019	17	403	647	647
6/6/2019	18	389	580	550
6/6/2019	19	395	598	550
6/6/2019	20	397	647	550
6/6/2019	21	394	647	615
6/6/2019	22	382	647	580
6/6/2019	23	365	600	570
6/6/2019	24	349	550	500
6/7/2019	1	335	647	647
6/7/2019	2	324	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/7/2019	3	316	647	647
6/7/2019	4	299	580	533
6/7/2019	5	296	587	510
6/7/2019	6	308	647	647
6/7/2019	7	318	647	647
6/7/2019	8	362	647	647
6/7/2019	9	396	647	647
6/7/2019	10	414	647	647
6/7/2019	11	427	647	647
6/7/2019	12	422	647	647
6/7/2019	13	424	647	647
6/7/2019	14	443	647	647
6/7/2019	15	440	647	647
6/7/2019	16	439	647	647
6/7/2019	17	410	647	647
6/7/2019	18	393	647	647
6/7/2019	19	407	647	647
6/7/2019	20	407	647	647
6/7/2019	21	405	647	647
6/7/2019	22	395	647	647
6/7/2019	23	371	647	647
6/7/2019	24	357	647	647
6/8/2019	1	327	647	647
6/8/2019	2	316	647	647
6/8/2019	3	304	616	572
6/8/2019	4	295	583	533
6/8/2019	5	289	587	513
6/8/2019	6	285	532	525
6/8/2019	7	302	647	647
6/8/2019	8	327	647	647
6/8/2019	9	359	647	647
6/8/2019	10	381	647	647
6/8/2019	11	394	647	647
6/8/2019	12	391	647	647
6/8/2019	13	391	647	647
6/8/2019	14	401	647	647
6/8/2019	15	394	647	647
6/8/2019	16	382	647	647
6/8/2019	17	366	647	647
6/8/2019	18	359	647	647
6/8/2019	19	376	647	647
6/8/2019	20	379	647	647
6/8/2019	21	377	647	647
6/8/2019	22	373	647	647
6/8/2019	23	355	647	647
6/8/2019	24	335	647	647
6/9/2019	1	331	647	647
6/9/2019	2	318	647	647
6/9/2019	3	306	647	637
6/9/2019	4	292	580	530
6/9/2019	5	289	560	510
6/9/2019	6	283	550	480
6/9/2019	7	287	570	490
6/9/2019	8	313	600	520
6/9/2019	9	331	647	550
6/9/2019	10	352	647	647
6/9/2019	11	363	647	647
6/9/2019	12	362	647	647
6/9/2019	13	364	647	647
6/9/2019	14	370	647	647
6/9/2019	15	369	647	647
6/9/2019	16	358	647	647
6/9/2019	17	349	647	647
6/9/2019	18	349	647	647
6/9/2019	19	372	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/9/2019	20	370	647	647
6/9/2019	21	367	647	647
6/9/2019	22	362	647	647
6/9/2019	23	355	647	647
6/9/2019	24	340	647	647
6/10/2019	1	320	647	647
6/10/2019	2	311	647	647
6/10/2019	3	298	647	637
6/10/2019	4	289	580	530
6/10/2019	5	285	560	510
6/10/2019	6	280	550	480
6/10/2019	7	292	570	490
6/10/2019	8	347	600	562
6/10/2019	9	388	647	586
6/10/2019	10	415	647	647
6/10/2019	11	426	647	647
6/10/2019	12	414	647	647
6/10/2019	13	416	647	647
6/10/2019	14	432	647	647
6/10/2019	15	424	647	647
6/10/2019	16	419	647	647
6/10/2019	17	396	647	589
6/10/2019	18	378	580	550
6/10/2019	19	394	647	598
6/10/2019	20	394	647	604
6/10/2019	21	393	591	550
6/10/2019	22	388	647	589
6/10/2019	23	372	647	568
6/10/2019	24	351	647	564
6/11/2019	1	342	647	647
6/11/2019	2	330	647	647
6/11/2019	3	321	647	647
6/11/2019	4	314	580	540
6/11/2019	5	312	580	556
6/11/2019	6	308	550	550
6/11/2019	7	323	600	600
6/11/2019	8	361	647	647
6/11/2019	9	394	647	647
6/11/2019	10	417	647	647
6/11/2019	11	433	647	647
6/11/2019	12	427	647	647
6/11/2019	13	421	647	647
6/11/2019	14	430	647	647
6/11/2019	15	422	647	647
6/11/2019	16	415	647	647
6/11/2019	17	398	647	647
6/11/2019	18	389	647	600
6/11/2019	19	398	647	614
6/11/2019	20	396	647	607
6/11/2019	21	393	600	600
6/11/2019	22	385	600	600
6/11/2019	23	371	600	600
6/11/2019	24	356	626	623
6/12/2019	1	329	647	647
6/12/2019	2	285	460	450
6/12/2019	3	276	460	420
6/12/2019	4	273	490	460
6/12/2019	5	278	525	491
6/12/2019	6	276	525	525
6/12/2019	7	289	525	513
6/12/2019	8	326	600	503
6/12/2019	9	359	600	506
6/12/2019	10	379	600	515
6/12/2019	11	391	647	647
6/12/2019	12	381	600	524

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/12/2019	13	381	600	521
6/12/2019	14	394	647	629
6/12/2019	15	390	630	618
6/12/2019	16	385	600	598
6/12/2019	17	374	611	600
6/12/2019	18	365	580	580
6/12/2019	19	372	600	575
6/12/2019	20	370	600	580
6/12/2019	21	361	600	598
6/12/2019	22	344	600	578
6/12/2019	23	322	580	523
6/12/2019	24	305	460	441
6/13/2019	1	342	647	647
6/13/2019	2	330	647	647
6/13/2019	3	321	647	647
6/13/2019	4	314	647	647
6/13/2019	5	312	647	647
6/13/2019	6	308	647	647
6/13/2019	7	323	647	602
6/13/2019	8	360	647	647
6/13/2019	9	394	647	647
6/13/2019	10	416	647	647
6/13/2019	11	430	647	647
6/13/2019	12	427	647	647
6/13/2019	13	421	647	647
6/13/2019	14	432	647	647
6/13/2019	15	422	647	647
6/13/2019	16	415	647	647
6/13/2019	17	397	630	600
6/13/2019	18	389	600	600
6/13/2019	19	398	647	647
6/13/2019	20	396	647	647
6/13/2019	21	393	646	600
6/13/2019	22	385	647	647
6/13/2019	23	371	647	647
6/13/2019	24	356	647	647
6/14/2019	1	349	647	647
6/14/2019	2	338	647	647
6/14/2019	3	325	647	647
6/14/2019	4	316	647	647
6/14/2019	5	313	647	566
6/14/2019	6	306	647	540
6/14/2019	7	315	647	627
6/14/2019	8	356	647	647
6/14/2019	9	393	647	647
6/14/2019	10	414	647	647
6/14/2019	11	426	647	647
6/14/2019	12	420	647	647
6/14/2019	13	419	647	647
6/14/2019	14	429	647	647
6/14/2019	15	427	647	647
6/14/2019	16	421	647	647
6/14/2019	17	400	647	647
6/14/2019	18	385	627	550
6/14/2019	19	397	647	460
6/14/2019	20	397	647	460
6/14/2019	21	397	647	460
6/14/2019	22	387	647	460
6/14/2019	23	380	647	460
6/14/2019	24	362	647	460
6/15/2019	1	329	647	460
6/15/2019	2	320	647	460
6/15/2019	3	308	647	460
6/15/2019	4	299	647	460
6/15/2019	5	292	556	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/15/2019	6	281	557	460
6/15/2019	7	297	647	460
6/15/2019	8	329	647	460
6/15/2019	9	359	647	460
6/15/2019	10	380	647	460
6/15/2019	11	393	647	460
6/15/2019	12	389	647	460
6/15/2019	13	390	647	460
6/15/2019	14	401	647	460
6/15/2019	15	396	647	460
6/15/2019	16	385	600	460
6/15/2019	17	366	575	460
6/15/2019	18	360	550	460
6/15/2019	19	376	647	460
6/15/2019	20	380	647	460
6/15/2019	21	380	647	460
6/15/2019	22	377	625	460
6/15/2019	23	358	639	460
6/15/2019	24	339	647	460
6/16/2019	1	330	647	460
6/16/2019	2	318	647	460
6/16/2019	3	306	647	460
6/16/2019	4	292	647	460
6/16/2019	5	289	647	460
6/16/2019	6	283	647	460
6/16/2019	7	287	647	460
6/16/2019	8	312	647	460
6/16/2019	9	329	647	460
6/16/2019	10	350	647	460
6/16/2019	11	361	647	460
6/16/2019	12	360	647	460
6/16/2019	13	362	647	460
6/16/2019	14	369	647	460
6/16/2019	15	368	647	460
6/16/2019	16	357	647	460
6/16/2019	17	348	647	460
6/16/2019	18	348	647	460
6/16/2019	19	370	647	460
6/16/2019	20	368	647	460
6/16/2019	21	366	647	460
6/16/2019	22	360	647	460
6/16/2019	23	354	647	460
6/16/2019	24	339	647	460
6/17/2019	1	321	647	460
6/17/2019	2	311	647	460
6/17/2019	3	298	647	460
6/17/2019	4	289	647	460
6/17/2019	5	285	647	460
6/17/2019	6	280	647	460
6/17/2019	7	293	647	460
6/17/2019	8	347	647	460
6/17/2019	9	389	647	460
6/17/2019	10	416	647	460
6/17/2019	11	428	647	460
6/17/2019	12	415	647	460
6/17/2019	13	417	647	550
6/17/2019	14	434	647	647
6/17/2019	15	425	647	647
6/17/2019	16	420	647	647
6/17/2019	17	397	647	586
6/17/2019	18	380	605	550
6/17/2019	19	395	647	580
6/17/2019	20	395	647	580
6/17/2019	21	394	647	567
6/17/2019	22	389	584	550

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/17/2019	23	373	647	564
6/17/2019	24	352	564	550
6/18/2019	1	343	647	647
6/18/2019	2	331	647	647
6/18/2019	3	321	647	647
6/18/2019	4	313	647	612
6/18/2019	5	313	647	599
6/18/2019	6	306	647	613
6/18/2019	7	319	647	647
6/18/2019	8	359	647	647
6/18/2019	9	395	647	647
6/18/2019	10	414	647	647
6/18/2019	11	425	647	647
6/18/2019	12	421	647	647
6/18/2019	13	422	647	647
6/18/2019	14	439	647	647
6/18/2019	15	435	647	647
6/18/2019	16	427	647	647
6/18/2019	17	406	647	647
6/18/2019	18	387	647	647
6/18/2019	19	400	647	647
6/18/2019	20	398	647	647
6/18/2019	21	395	647	647
6/18/2019	22	386	647	647
6/18/2019	23	373	647	647
6/18/2019	24	357	647	647
6/19/2019	1	336	647	647
6/19/2019	2	323	647	647
6/19/2019	3	312	647	647
6/19/2019	4	303	647	647
6/19/2019	5	296	647	647
6/19/2019	6	287	647	587
6/19/2019	7	313	647	587
6/19/2019	8	362	647	591
6/19/2019	9	396	647	647
6/19/2019	10	417	647	647
6/19/2019	11	433	647	647
6/19/2019	12	427	647	647
6/19/2019	13	428	647	647
6/19/2019	14	441	647	647
6/19/2019	15	437	647	647
6/19/2019	16	429	647	647
6/19/2019	17	407	647	647
6/19/2019	18	394	647	647
6/19/2019	19	397	647	647
6/19/2019	20	393	647	647
6/19/2019	21	393	647	647
6/19/2019	22	387	647	647
6/19/2019	23	369	647	647
6/19/2019	24	349	647	647
6/20/2019	1	359	647	647
6/20/2019	2	347	647	647
6/20/2019	3	336	647	647
6/20/2019	4	327	647	647
6/20/2019	5	323	647	647
6/20/2019	6	316	647	647
6/20/2019	7	330	647	647
6/20/2019	8	368	647	647
6/20/2019	9	418	647	647
6/20/2019	10	439	647	647
6/20/2019	11	451	647	647
6/20/2019	12	443	647	647
6/20/2019	13	442	647	647
6/20/2019	14	454	647	647
6/20/2019	15	450	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/20/2019	16	445	647	647
6/20/2019	17	423	647	647
6/20/2019	18	406	647	647
6/20/2019	19	421	647	647
6/20/2019	20	421	647	647
6/20/2019	21	420	647	647
6/20/2019	22	411	647	647
6/20/2019	23	396	647	647
6/20/2019	24	371	647	647
6/21/2019	1	312	647	580
6/21/2019	2	301	647	562
6/21/2019	3	291	647	551
6/21/2019	4	285	615	542
6/21/2019	5	280	600	541
6/21/2019	6	271	600	561
6/21/2019	7	290	594	581
6/21/2019	8	318	600	560
6/21/2019	9	350	647	647
6/21/2019	10	377	647	647
6/21/2019	11	390	647	647
6/21/2019	12	383	647	647
6/21/2019	13	382	647	647
6/21/2019	14	392	647	647
6/21/2019	15	386	647	647
6/21/2019	16	375	647	647
6/21/2019	17	359	647	647
6/21/2019	18	368	647	647
6/21/2019	19	375	647	647
6/21/2019	20	375	647	647
6/21/2019	21	371	647	623
6/21/2019	22	359	630	531
6/21/2019	23	342	630	625
6/21/2019	24	327	600	543
6/22/2019	1	312	647	580
6/22/2019	2	301	647	562
6/22/2019	3	291	647	551
6/22/2019	4	285	615	542
6/22/2019	5	280	600	541
6/22/2019	6	271	600	561
6/22/2019	7	290	594	581
6/22/2019	8	318	600	560
6/22/2019	9	350	647	647
6/22/2019	10	377	647	647
6/22/2019	11	390	647	647
6/22/2019	12	383	647	647
6/22/2019	13	382	647	647
6/22/2019	14	392	647	647
6/22/2019	15	386	647	647
6/22/2019	16	375	647	647
6/22/2019	17	359	647	647
6/22/2019	18	368	647	647
6/22/2019	19	375	647	647
6/22/2019	20	375	647	647
6/22/2019	21	371	647	623
6/22/2019	22	359	630	531
6/22/2019	23	342	630	625
6/22/2019	24	327	600	543
6/23/2019	1	303	647	580
6/23/2019	2	292	647	562
6/23/2019	3	283	647	551
6/23/2019	4	278	615	528
6/23/2019	5	285	647	541
6/23/2019	6	286	647	561
6/23/2019	7	276	600	500
6/23/2019	8	293	600	500

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/23/2019	9	316	600	500
6/23/2019	10	335	600	503
6/23/2019	11	345	647	608
6/23/2019	12	342	647	599
6/23/2019	13	341	647	600
6/23/2019	14	344	647	600
6/23/2019	15	341	600	550
6/23/2019	16	337	647	615
6/23/2019	17	333	647	647
6/23/2019	18	336	647	601
6/23/2019	19	364	647	647
6/23/2019	20	367	647	647
6/23/2019	21	362	647	647
6/23/2019	22	351	647	647
6/23/2019	23	336	647	647
6/23/2019	24	318	600	543
6/24/2019	1	325	647	647
6/24/2019	2	315	647	580
6/24/2019	3	302	647	550
6/24/2019	4	293	600	520
6/24/2019	5	289	580	500
6/24/2019	6	284	576	540
6/24/2019	7	297	647	611
6/24/2019	8	351	647	647
6/24/2019	9	391	647	647
6/24/2019	10	418	647	647
6/24/2019	11	429	647	647
6/24/2019	12	417	647	647
6/24/2019	13	418	647	647
6/24/2019	14	435	647	647
6/24/2019	15	427	647	647
6/24/2019	16	421	647	647
6/24/2019	17	398	647	647
6/24/2019	18	381	647	550
6/24/2019	19	396	647	647
6/24/2019	20	396	647	647
6/24/2019	21	395	647	647
6/24/2019	22	391	647	647
6/24/2019	23	374	647	647
6/24/2019	24	354	580	550
6/25/2019	1	345	647	647
6/25/2019	2	335	647	647
6/25/2019	3	324	647	647
6/25/2019	4	316	647	647
6/25/2019	5	317	647	647
6/25/2019	6	306	647	647
6/25/2019	7	315	647	647
6/25/2019	8	359	647	647
6/25/2019	9	395	647	647
6/25/2019	10	415	647	647
6/25/2019	11	426	647	647
6/25/2019	12	421	647	599
6/25/2019	13	423	647	647
6/25/2019	14	438	647	647
6/25/2019	15	434	647	647
6/25/2019	16	428	647	647
6/25/2019	17	408	647	614
6/25/2019	18	391	550	500
6/25/2019	19	401	647	541
6/25/2019	20	403	647	647
6/25/2019	21	405	647	578
6/25/2019	22	393	580	550
6/25/2019	23	376	647	617
6/25/2019	24	364	580	549
6/26/2019	1	340	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/26/2019	2	329	647	647
6/26/2019	3	317	647	647
6/26/2019	4	309	647	647
6/26/2019	5	307	647	647
6/26/2019	6	301	647	647
6/26/2019	7	299	647	610
6/26/2019	8	352	647	647
6/26/2019	9	384	647	647
6/26/2019	10	404	647	647
6/26/2019	11	413	647	647
6/26/2019	12	407	647	599
6/26/2019	13	410	647	647
6/26/2019	14	423	647	647
6/26/2019	15	418	647	647
6/26/2019	16	408	647	647
6/26/2019	17	392	647	647
6/26/2019	18	379	580	555
6/26/2019	19	388	603	560
6/26/2019	20	393	647	647
6/26/2019	21	395	647	584
6/26/2019	22	382	609	550
6/26/2019	23	369	600	540
6/26/2019	24	353	580	540
6/27/2019	1	341	647	647
6/27/2019	2	326	647	647
6/27/2019	3	314	647	647
6/27/2019	4	307	647	647
6/27/2019	5	308	647	647
6/27/2019	6	302	647	647
6/27/2019	7	311	647	610
6/27/2019	8	355	647	647
6/27/2019	9	395	647	647
6/27/2019	10	416	647	647
6/27/2019	11	429	647	647
6/27/2019	12	423	647	647
6/27/2019	13	421	647	647
6/27/2019	14	434	647	647
6/27/2019	15	427	647	647
6/27/2019	16	420	647	647
6/27/2019	17	403	647	647
6/27/2019	18	387	647	609
6/27/2019	19	399	647	647
6/27/2019	20	399	647	647
6/27/2019	21	399	647	647
6/27/2019	22	389	647	647
6/27/2019	23	375	647	647
6/27/2019	24	359	647	614
6/28/2019	1	330	647	647
6/28/2019	2	322	647	647
6/28/2019	3	309	600	580
6/28/2019	4	302	590	570
6/28/2019	5	303	580	560
6/28/2019	6	297	570	520
6/28/2019	7	300	590	530
6/28/2019	8	345	647	618
6/28/2019	9	380	647	647
6/28/2019	10	399	647	647
6/28/2019	11	407	647	647
6/28/2019	12	400	647	647
6/28/2019	13	405	647	647
6/28/2019	14	416	647	647
6/28/2019	15	412	647	647
6/28/2019	16	404	647	647
6/28/2019	17	384	647	647
6/28/2019	18	369	626	580

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/28/2019	19	378	647	603
6/28/2019	20	379	647	604
6/28/2019	21	379	647	647
6/28/2019	22	368	647	647
6/28/2019	23	354	647	647
6/28/2019	24	340	647	647
6/29/2019	1	297	614	550
6/29/2019	2	287	635	550
6/29/2019	3	279	605	530
6/29/2019	4	271	600	522
6/29/2019	5	267	580	489
6/29/2019	6	260	520	480
6/29/2019	7	275	553	510
6/29/2019	8	304	550	538
6/29/2019	9	332	604	550
6/29/2019	10	353	617	554
6/29/2019	11	363	647	550
6/29/2019	12	355	600	550
6/29/2019	13	354	600	550
6/29/2019	14	364	647	550
6/29/2019	15	358	600	550
6/29/2019	16	349	600	550
6/29/2019	17	334	600	550
6/29/2019	18	331	600	513
6/29/2019	19	344	618	567
6/29/2019	20	347	608	603
6/29/2019	21	345	630	579
6/29/2019	22	337	614	580
6/29/2019	23	319	596	555
6/29/2019	24	300	580	550
6/30/2019	1	314	647	647
6/30/2019	2	302	647	647
6/30/2019	3	290	647	530
6/30/2019	4	276	574	520
6/30/2019	5	273	534	490
6/30/2019	6	267	520	480
6/30/2019	7	271	520	500
6/30/2019	8	296	560	520
6/30/2019	9	309	580	500
6/30/2019	10	318	580	500
6/30/2019	11	329	590	500
6/30/2019	12	328	580	486
6/30/2019	13	330	580	502
6/30/2019	14	336	647	573
6/30/2019	15	335	647	572
6/30/2019	16	324	647	570
6/30/2019	17	315	621	580
6/30/2019	18	315	580	550
6/30/2019	19	338	647	647
6/30/2019	20	336	647	647
6/30/2019	21	333	647	647
6/30/2019	22	328	647	647
6/30/2019	23	321	647	647
6/30/2019	24	306	580	550
7/1/2019	1	314	647	647
7/1/2019	2	306	647	647
7/1/2019	3	293	647	590
7/1/2019	4	286	647	587
7/1/2019	5	287	647	590
7/1/2019	6	281	647	560
7/1/2019	7	284	647	550
7/1/2019	8	337	647	647
7/1/2019	9	380	647	647
7/1/2019	10	399	647	647
7/1/2019	11	407	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/1/2019	12	400	647	647
7/1/2019	13	405	647	647
7/1/2019	14	416	647	647
7/1/2019	15	412	647	647
7/1/2019	16	404	647	647
7/1/2019	17	384	647	647
7/1/2019	18	369	624	550
7/1/2019	19	378	647	591
7/1/2019	20	379	647	647
7/1/2019	21	379	647	647
7/1/2019	22	368	647	647
7/1/2019	23	354	647	647
7/1/2019	24	340	647	635
7/2/2019	1	312	647	647
7/2/2019	2	302	647	647
7/2/2019	3	292	647	598
7/2/2019	4	286	608	550
7/2/2019	5	287	624	550
7/2/2019	6	283	647	594
7/2/2019	7	293	647	647
7/2/2019	8	327	647	647
7/2/2019	9	371	647	619
7/2/2019	10	380	616	550
7/2/2019	11	388	584	550
7/2/2019	12	383	550	500
7/2/2019	13	383	647	500
7/2/2019	14	395	647	647
7/2/2019	15	391	647	647
7/2/2019	16	383	608	580
7/2/2019	17	367	580	540
7/2/2019	18	355	550	500
7/2/2019	19	364	580	500
7/2/2019	20	366	595	500
7/2/2019	21	363	570	500
7/2/2019	22	352	580	500
7/2/2019	23	338	580	500
7/2/2019	24	322	551	500
7/3/2019	1	312	647	647
7/3/2019	2	302	647	647
7/3/2019	3	292	647	598
7/3/2019	4	286	608	550
7/3/2019	5	287	624	550
7/3/2019	6	283	647	594
7/3/2019	7	293	647	647
7/3/2019	8	327	647	647
7/3/2019	9	371	647	619
7/3/2019	10	380	616	550
7/3/2019	11	388	584	550
7/3/2019	12	383	550	500
7/3/2019	13	383	647	500
7/3/2019	14	395	647	647
7/3/2019	15	391	647	647
7/3/2019	16	383	608	580
7/3/2019	17	367	580	540
7/3/2019	18	355	550	500
7/3/2019	19	364	580	500
7/3/2019	20	366	595	500
7/3/2019	21	363	570	500
7/3/2019	22	352	580	500
7/3/2019	23	338	580	500
7/3/2019	24	322	551	500
7/4/2019	1	339	647	647
7/4/2019	2	328	647	647
7/4/2019	3	316	647	647
7/4/2019	4	308	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/4/2019	5	309	647	647
7/4/2019	6	298	647	647
7/4/2019	7	309	647	647
7/4/2019	8	347	647	647
7/4/2019	9	381	647	647
7/4/2019	10	401	647	647
7/4/2019	11	410	647	647
7/4/2019	12	406	647	647
7/4/2019	13	409	647	647
7/4/2019	14	420	647	647
7/4/2019	15	416	647	647
7/4/2019	16	413	647	647
7/4/2019	17	393	647	647
7/4/2019	18	376	647	597
7/4/2019	19	387	647	580
7/4/2019	20	389	647	613
7/4/2019	21	391	647	647
7/4/2019	22	381	647	647
7/4/2019	23	368	647	647
7/4/2019	24	353	647	597
7/5/2019	1	334	647	553
7/5/2019	2	324	647	534
7/5/2019	3	311	642	500
7/5/2019	4	303	636	480
7/5/2019	5	305	647	517
7/5/2019	6	298	580	520
7/5/2019	7	307	647	647
7/5/2019	8	348	647	647
7/5/2019	9	383	647	647
7/5/2019	10	403	647	647
7/5/2019	11	411	647	647
7/5/2019	12	405	647	647
7/5/2019	13	408	647	647
7/5/2019	14	421	647	647
7/5/2019	15	417	647	647
7/5/2019	16	409	647	647
7/5/2019	17	390	647	647
7/5/2019	18	375	647	546
7/5/2019	19	383	647	580
7/5/2019	20	385	647	613
7/5/2019	21	385	647	647
7/5/2019	22	374	636	550
7/5/2019	23	359	647	568
7/5/2019	24	345	588	500
7/6/2019	1	340	647	647
7/6/2019	2	330	647	647
7/6/2019	3	318	642	610
7/6/2019	4	309	614	586
7/6/2019	5	304	578	571
7/6/2019	6	292	550	526
7/6/2019	7	298	630	528
7/6/2019	8	322	647	647
7/6/2019	9	351	647	647
7/6/2019	10	372	647	647
7/6/2019	11	386	647	647
7/6/2019	12	383	647	647
7/6/2019	13	384	647	647
7/6/2019	14	397	647	647
7/6/2019	15	392	647	647
7/6/2019	16	378	647	647
7/6/2019	17	359	647	647
7/6/2019	18	351	647	647
7/6/2019	19	366	647	647
7/6/2019	20	369	647	647
7/6/2019	21	369	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/6/2019	22	365	647	647
7/6/2019	23	352	647	647
7/6/2019	24	339	647	647
7/7/2019	1	318	647	647
7/7/2019	2	306	647	647
7/7/2019	3	294	647	647
7/7/2019	4	284	647	647
7/7/2019	5	281	647	647
7/7/2019	6	275	647	647
7/7/2019	7	279	647	647
7/7/2019	8	300	647	647
7/7/2019	9	317	647	647
7/7/2019	10	334	647	647
7/7/2019	11	345	647	647
7/7/2019	12	344	647	647
7/7/2019	13	346	647	647
7/7/2019	14	352	647	647
7/7/2019	15	351	647	647
7/7/2019	16	340	647	647
7/7/2019	17	332	647	647
7/7/2019	18	331	647	647
7/7/2019	19	354	647	647
7/7/2019	20	352	647	647
7/7/2019	21	350	647	647
7/7/2019	22	344	647	647
7/7/2019	23	337	647	647
7/7/2019	24	323	647	628
7/8/2019	1	314	647	647
7/8/2019	2	306	647	647
7/8/2019	3	293	647	647
7/8/2019	4	286	647	580
7/8/2019	5	287	647	647
7/8/2019	6	281	647	647
7/8/2019	7	284	647	647
7/8/2019	8	337	647	647
7/8/2019	9	379	647	647
7/8/2019	10	398	647	647
7/8/2019	11	407	647	647
7/8/2019	12	400	647	647
7/8/2019	13	403	647	647
7/8/2019	14	417	647	647
7/8/2019	15	412	647	647
7/8/2019	16	405	647	647
7/8/2019	17	386	647	647
7/8/2019	18	370	647	647
7/8/2019	19	379	647	647
7/8/2019	20	380	647	647
7/8/2019	21	380	647	647
7/8/2019	22	370	647	647
7/8/2019	23	355	647	647
7/8/2019	24	340	647	628
7/9/2019	1	337	647	647
7/9/2019	2	328	647	647
7/9/2019	3	319	647	647
7/9/2019	4	311	647	647
7/9/2019	5	312	647	647
7/9/2019	6	301	647	647
7/9/2019	7	311	647	647
7/9/2019	8	352	647	647
7/9/2019	9	384	647	647
7/9/2019	10	404	647	647
7/9/2019	11	416	647	647
7/9/2019	12	412	647	647
7/9/2019	13	415	647	647
7/9/2019	14	429	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/9/2019	15	425	647	647
7/9/2019	16	420	647	647
7/9/2019	17	397	647	647
7/9/2019	18	382	647	647
7/9/2019	19	393	647	647
7/9/2019	20	394	647	647
7/9/2019	21	394	647	647
7/9/2019	22	384	647	647
7/9/2019	23	368	647	647
7/9/2019	24	355	647	647
7/10/2019	1	333	647	601
7/10/2019	2	322	647	560
7/10/2019	3	312	647	525
7/10/2019	4	308	647	523
7/10/2019	5	312	647	608
7/10/2019	6	311	647	632
7/10/2019	7	330	647	647
7/10/2019	8	365	647	647
7/10/2019	9	401	647	647
7/10/2019	10	425	647	647
7/10/2019	11	437	647	647
7/10/2019	12	432	647	647
7/10/2019	13	431	647	647
7/10/2019	14	444	647	647
7/10/2019	15	438	647	647
7/10/2019	16	428	647	647
7/10/2019	17	411	647	647
7/10/2019	18	394	647	647
7/10/2019	19	388	647	647
7/10/2019	20	407	647	647
7/10/2019	21	401	647	647
7/10/2019	22	388	647	647
7/10/2019	23	371	647	647
7/10/2019	24	354	647	582
7/11/2019	1	333	647	647
7/11/2019	2	318	647	588
7/11/2019	3	306	647	507
7/11/2019	4	299	647	500
7/11/2019	5	306	647	580
7/11/2019	6	305	647	647
7/11/2019	7	319	647	647
7/11/2019	8	354	647	647
7/11/2019	9	390	647	647
7/11/2019	10	411	647	647
7/11/2019	11	423	647	647
7/11/2019	12	418	647	647
7/11/2019	13	417	647	647
7/11/2019	14	432	647	647
7/11/2019	15	428	647	647
7/11/2019	16	423	647	647
7/11/2019	17	401	647	647
7/11/2019	18	383	647	564
7/11/2019	19	397	647	647
7/11/2019	20	399	647	647
7/11/2019	21	398	647	647
7/11/2019	22	387	647	647
7/11/2019	23	373	647	647
7/11/2019	24	360	647	596
7/12/2019	1	334	647	647
7/12/2019	2	324	647	633
7/12/2019	3	313	647	592
7/12/2019	4	306	647	568
7/12/2019	5	306	647	570
7/12/2019	6	303	595	550
7/12/2019	7	311	647	570

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/12/2019	8	352	647	580
7/12/2019	9	405	647	647
7/12/2019	10	426	647	647
7/12/2019	11	437	647	647
7/12/2019	12	428	647	647
7/12/2019	13	428	647	647
7/12/2019	14	440	647	647
7/12/2019	15	435	647	647
7/12/2019	16	432	647	647
7/12/2019	17	411	647	647
7/12/2019	18	392	647	563
7/12/2019	19	406	647	647
7/12/2019	20	406	647	647
7/12/2019	21	406	647	647
7/12/2019	22	396	647	647
7/12/2019	23	380	647	647
7/12/2019	24	363	647	647
7/13/2019	1	339	647	647
7/13/2019	2	326	647	647
7/13/2019	3	315	647	647
7/13/2019	4	303	647	647
7/13/2019	5	300	647	647
7/13/2019	6	294	600	573
7/13/2019	7	287	575	550
7/13/2019	8	325	575	550
7/13/2019	9	358	600	600
7/13/2019	10	377	647	647
7/13/2019	11	389	647	647
7/13/2019	12	384	647	647
7/13/2019	13	382	647	647
7/13/2019	14	395	647	647
7/13/2019	15	388	647	647
7/13/2019	16	377	647	647
7/13/2019	17	361	647	647
7/13/2019	18	352	647	647
7/13/2019	19	369	647	647
7/13/2019	20	373	647	647
7/13/2019	21	374	647	647
7/13/2019	22	371	647	647
7/13/2019	23	357	647	647
7/13/2019	24	339	647	647
7/14/2019	1	320	647	647
7/14/2019	2	308	647	647
7/14/2019	3	296	647	647
7/14/2019	4	286	621	550
7/14/2019	5	283	592	550
7/14/2019	6	277	580	520
7/14/2019	7	281	590	550
7/14/2019	8	302	647	560
7/14/2019	9	323	647	580
7/14/2019	10	340	647	647
7/14/2019	11	351	647	647
7/14/2019	12	350	647	647
7/14/2019	13	352	647	647
7/14/2019	14	358	647	647
7/14/2019	15	357	647	647
7/14/2019	16	346	647	647
7/14/2019	17	338	647	613
7/14/2019	18	337	647	647
7/14/2019	19	360	647	647
7/14/2019	20	358	647	647
7/14/2019	21	356	647	647
7/14/2019	22	350	647	647
7/14/2019	23	343	647	647
7/14/2019	24	329	647	508

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/15/2019	1	316	600	559
7/15/2019	2	308	580	540
7/15/2019	3	295	570	500
7/15/2019	4	288	550	500
7/15/2019	5	289	580	520
7/15/2019	6	283	550	500
7/15/2019	7	286	580	520
7/15/2019	8	339	647	598
7/15/2019	9	382	647	596
7/15/2019	10	403	647	647
7/15/2019	11	414	647	647
7/15/2019	12	408	647	647
7/15/2019	13	410	647	647
7/15/2019	14	427	647	647
7/15/2019	15	425	647	647
7/15/2019	16	417	647	647
7/15/2019	17	396	647	613
7/15/2019	18	377	621	580
7/15/2019	19	390	647	647
7/15/2019	20	389	647	647
7/15/2019	21	387	647	647
7/15/2019	22	380	647	647
7/15/2019	23	374	647	647
7/15/2019	24	360	647	619
7/16/2019	1	309	602	550
7/16/2019	2	298	580	523
7/16/2019	3	289	570	500
7/16/2019	4	284	550	500
7/16/2019	5	285	580	530
7/16/2019	6	283	560	520
7/16/2019	7	266	501	460
7/16/2019	8	329	580	500
7/16/2019	9	369	647	647
7/16/2019	10	388	647	647
7/16/2019	11	400	647	647
7/16/2019	12	391	647	574
7/16/2019	13	399	647	647
7/16/2019	14	410	647	647
7/16/2019	15	395	647	556
7/16/2019	16	392	647	575
7/16/2019	17	375	580	550
7/16/2019	18	357	550	491
7/16/2019	19	370	550	500
7/16/2019	20	372	580	550
7/16/2019	21	371	600	561
7/16/2019	22	359	580	520
7/16/2019	23	344	550	500
7/16/2019	24	326	530	480
7/17/2019	1	307	647	634
7/17/2019	2	296	647	571
7/17/2019	3	287	647	552
7/17/2019	4	282	647	545
7/17/2019	5	283	647	605
7/17/2019	6	286	647	647
7/17/2019	7	287	647	571
7/17/2019	8	336	647	647
7/17/2019	9	370	647	647
7/17/2019	10	392	647	647
7/17/2019	11	404	647	647
7/17/2019	12	396	647	647
7/17/2019	13	395	647	647
7/17/2019	14	408	647	647
7/17/2019	15	403	647	647
7/17/2019	16	399	647	647
7/17/2019	17	382	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/17/2019	18	363	550	465
7/17/2019	19	369	614	507
7/17/2019	20	378	647	647
7/17/2019	21	375	647	647
7/17/2019	22	364	647	617
7/17/2019	23	348	580	534
7/17/2019	24	330	550	480
7/18/2019	1	318	647	647
7/18/2019	2	301	647	647
7/18/2019	3	290	647	647
7/18/2019	4	284	647	647
7/18/2019	5	286	647	647
7/18/2019	6	283	647	647
7/18/2019	7	291	634	600
7/18/2019	8	333	647	647
7/18/2019	9	371	647	647
7/18/2019	10	390	647	647
7/18/2019	11	403	647	647
7/18/2019	12	398	647	647
7/18/2019	13	400	647	647
7/18/2019	14	415	647	647
7/18/2019	15	411	647	647
7/18/2019	16	405	647	647
7/18/2019	17	382	647	647
7/18/2019	18	365	647	615
7/18/2019	19	378	647	647
7/18/2019	20	382	647	647
7/18/2019	21	380	647	647
7/18/2019	22	370	647	647
7/18/2019	23	354	647	647
7/18/2019	24	335	647	647
7/19/2019	1	298	647	647
7/19/2019	2	288	647	647
7/19/2019	3	279	647	636
7/19/2019	4	276	647	573
7/19/2019	5	279	647	647
7/19/2019	6	279	647	647
7/19/2019	7	286	647	647
7/19/2019	8	326	647	647
7/19/2019	9	362	647	647
7/19/2019	10	383	647	647
7/19/2019	11	389	647	647
7/19/2019	12	382	647	647
7/19/2019	13	381	647	647
7/19/2019	14	390	647	600
7/19/2019	15	384	647	550
7/19/2019	16	380	647	600
7/19/2019	17	368	647	550
7/19/2019	18	355	647	460
7/19/2019	19	367	647	460
7/19/2019	20	366	647	460
7/19/2019	21	363	647	460
7/19/2019	22	349	647	460
7/19/2019	23	332	647	420
7/19/2019	24	317	647	420
7/20/2019	1	315	647	460
7/20/2019	2	309	647	460
7/20/2019	3	298	647	460
7/20/2019	4	289	647	460
7/20/2019	5	285	647	460
7/20/2019	6	277	647	460
7/20/2019	7	283	647	460
7/20/2019	8	308	647	460
7/20/2019	9	337	647	460
7/20/2019	10	356	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/20/2019	11	368	647	460
7/20/2019	12	363	647	460
7/20/2019	13	363	647	460
7/20/2019	14	375	647	460
7/20/2019	15	370	647	460
7/20/2019	16	358	647	460
7/20/2019	17	340	647	460
7/20/2019	18	332	647	420
7/20/2019	19	346	647	460
7/20/2019	20	349	647	460
7/20/2019	21	350	647	460
7/20/2019	22	346	647	460
7/20/2019	23	333	647	460
7/20/2019	24	319	647	460
7/21/2019	1	314	647	460
7/21/2019	2	302	647	460
7/21/2019	3	290	647	460
7/21/2019	4	280	647	460
7/21/2019	5	277	647	460
7/21/2019	6	275	647	460
7/21/2019	7	279	647	460
7/21/2019	8	295	647	460
7/21/2019	9	309	647	460
7/21/2019	10	322	647	460
7/21/2019	11	333	647	460
7/21/2019	12	332	647	460
7/21/2019	13	334	647	460
7/21/2019	14	340	647	460
7/21/2019	15	339	647	460
7/21/2019	16	328	647	460
7/21/2019	17	319	647	460
7/21/2019	18	319	647	460
7/21/2019	19	342	647	460
7/21/2019	20	340	647	460
7/21/2019	21	337	647	460
7/21/2019	22	332	647	460
7/21/2019	23	325	647	460
7/21/2019	24	314	647	460
7/22/2019	1	312	600	580
7/22/2019	2	301	583	560
7/22/2019	3	292	560	540
7/22/2019	4	287	541	501
7/22/2019	5	295	551	502
7/22/2019	6	291	580	541
7/22/2019	7	299	590	560
7/22/2019	8	343	621	600
7/22/2019	9	375	647	647
7/22/2019	10	398	647	647
7/22/2019	11	410	647	647
7/22/2019	12	403	624	550
7/22/2019	13	402	580	550
7/22/2019	14	415	647	647
7/22/2019	15	411	647	647
7/22/2019	16	406	647	647
7/22/2019	17	388	574	550
7/22/2019	18	369	550	500
7/22/2019	19	366	550	460
7/22/2019	20	384	647	539
7/22/2019	21	381	647	610
7/22/2019	22	370	647	577
7/22/2019	23	355	588	520
7/22/2019	24	337	550	480
7/23/2019	1	316	647	613
7/23/2019	2	305	630	609
7/23/2019	3	295	610	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/23/2019	4	289	575	569
7/23/2019	5	291	600	600
7/23/2019	6	289	600	596
7/23/2019	7	299	621	620
7/23/2019	8	336	647	636
7/23/2019	9	375	647	647
7/23/2019	10	395	647	647
7/23/2019	11	400	647	647
7/23/2019	12	398	647	647
7/23/2019	13	398	647	647
7/23/2019	14	410	647	647
7/23/2019	15	403	647	647
7/23/2019	16	399	647	647
7/23/2019	17	381	620	600
7/23/2019	18	363	600	580
7/23/2019	19	376	620	608
7/23/2019	20	378	621	620
7/23/2019	21	377	647	647
7/23/2019	22	365	647	647
7/23/2019	23	351	620	612
7/23/2019	24	332	600	550
7/24/2019	1	312	600	580
7/24/2019	2	301	583	560
7/24/2019	3	292	560	540
7/24/2019	4	287	541	501
7/24/2019	5	295	551	502
7/24/2019	6	291	580	541
7/24/2019	7	299	590	560
7/24/2019	8	343	621	600
7/24/2019	9	375	647	647
7/24/2019	10	398	647	647
7/24/2019	11	410	647	647
7/24/2019	12	403	624	550
7/24/2019	13	402	580	550
7/24/2019	14	415	647	647
7/24/2019	15	411	647	647
7/24/2019	16	406	647	647
7/24/2019	17	388	574	550
7/24/2019	18	369	550	500
7/24/2019	19	366	550	460
7/24/2019	20	384	647	539
7/24/2019	21	381	647	610
7/24/2019	22	370	647	577
7/24/2019	23	355	588	520
7/24/2019	24	337	550	480
7/25/2019	1	313	647	647
7/25/2019	2	303	647	647
7/25/2019	3	293	647	580
7/25/2019	4	287	580	550
7/25/2019	5	292	647	560
7/25/2019	6	290	647	550
7/25/2019	7	298	647	578
7/25/2019	8	340	647	647
7/25/2019	9	377	647	647
7/25/2019	10	397	647	647
7/25/2019	11	408	647	647
7/25/2019	12	401	647	569
7/25/2019	13	399	647	546
7/25/2019	14	410	647	647
7/25/2019	15	407	647	647
7/25/2019	16	402	647	647
7/25/2019	17	383	647	548
7/25/2019	18	370	580	530
7/25/2019	19	381	600	543
7/25/2019	20	384	647	562

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/25/2019	21	378	647	571
7/25/2019	22	374	647	647
7/25/2019	23	350	647	564
7/25/2019	24	328	520	460
7/26/2019	1	315	647	647
7/26/2019	2	305	647	590
7/26/2019	3	297	647	580
7/26/2019	4	291	580	538
7/26/2019	5	294	647	560
7/26/2019	6	294	647	543
7/26/2019	7	312	647	581
7/26/2019	8	340	647	647
7/26/2019	9	377	647	647
7/26/2019	10	398	647	647
7/26/2019	11	408	647	647
7/26/2019	12	403	647	647
7/26/2019	13	403	647	647
7/26/2019	14	417	647	647
7/26/2019	15	414	647	647
7/26/2019	16	411	647	647
7/26/2019	17	392	647	647
7/26/2019	18	373	609	550
7/26/2019	19	387	647	569
7/26/2019	20	387	647	585
7/26/2019	21	384	647	627
7/26/2019	22	372	647	647
7/26/2019	23	355	647	604
7/26/2019	24	337	580	470
7/27/2019	1	319	630	581
7/27/2019	2	308	600	580
7/27/2019	3	298	600	556
7/27/2019	4	288	600	538
7/27/2019	5	285	600	561
7/27/2019	6	279	600	559
7/27/2019	7	289	600	550
7/27/2019	8	315	600	550
7/27/2019	9	346	600	550
7/27/2019	10	365	550	546
7/27/2019	11	378	647	578
7/27/2019	12	374	548	540
7/27/2019	13	372	575	540
7/27/2019	14	390	647	647
7/27/2019	15	385	647	647
7/27/2019	16	377	647	579
7/27/2019	17	362	520	500
7/27/2019	18	357	530	510
7/27/2019	19	374	600	594
7/27/2019	20	378	647	647
7/27/2019	21	378	647	647
7/27/2019	22	373	647	602
7/27/2019	23	350	629	562
7/27/2019	24	329	535	500
7/28/2019	1	314	647	647
7/28/2019	2	301	647	647
7/28/2019	3	290	647	647
7/28/2019	4	279	647	647
7/28/2019	5	277	647	647
7/28/2019	6	275	647	647
7/28/2019	7	279	580	550
7/28/2019	8	295	647	550
7/28/2019	9	310	647	580
7/28/2019	10	323	647	584
7/28/2019	11	333	647	590
7/28/2019	12	333	612	548
7/28/2019	13	334	647	569

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/28/2019	14	341	647	647
7/28/2019	15	340	647	647
7/28/2019	16	329	647	634
7/28/2019	17	320	647	612
7/28/2019	18	320	647	606
7/28/2019	19	342	647	647
7/28/2019	20	341	647	647
7/28/2019	21	338	647	647
7/28/2019	22	333	647	647
7/28/2019	23	326	647	647
7/28/2019	24	315	647	625
7/29/2019	1	305	600	580
7/29/2019	2	294	580	550
7/29/2019	3	285	560	540
7/29/2019	4	280	540	480
7/29/2019	5	281	580	500
7/29/2019	6	284	595	520
7/29/2019	7	289	580	550
7/29/2019	8	336	647	550
7/29/2019	9	376	647	647
7/29/2019	10	399	647	647
7/29/2019	11	410	647	647
7/29/2019	12	403	647	548
7/29/2019	13	402	647	531
7/29/2019	14	414	647	647
7/29/2019	15	410	647	647
7/29/2019	16	405	647	647
7/29/2019	17	388	647	612
7/29/2019	18	370	580	550
7/29/2019	19	375	600	550
7/29/2019	20	385	647	581
7/29/2019	21	381	647	647
7/29/2019	22	370	647	622
7/29/2019	23	354	647	582
7/29/2019	24	337	580	550
7/30/2019	1	303	580	545
7/30/2019	2	293	570	520
7/30/2019	3	285	550	509
7/30/2019	4	280	540	480
7/30/2019	5	283	570	500
7/30/2019	6	286	595	564
7/30/2019	7	292	580	550
7/30/2019	8	314	550	520
7/30/2019	9	363	647	647
7/30/2019	10	384	647	647
7/30/2019	11	397	647	647
7/30/2019	12	388	580	550
7/30/2019	13	391	550	520
7/30/2019	14	407	647	647
7/30/2019	15	403	647	607
7/30/2019	16	398	647	594
7/30/2019	17	382	563	520
7/30/2019	18	367	550	500
7/30/2019	19	380	560	500
7/30/2019	20	379	570	535
7/30/2019	21	375	587	550
7/30/2019	22	362	565	512
7/30/2019	23	345	592	527
7/30/2019	24	327	544	500
7/31/2019	1	303	647	580
7/31/2019	2	278	570	520
7/31/2019	3	274	550	509
7/31/2019	4	270	540	480
7/31/2019	5	274	570	500
7/31/2019	6	277	595	564

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/31/2019	7	280	580	550
7/31/2019	8	314	550	520
7/31/2019	9	356	647	647
7/31/2019	10	380	647	647
7/31/2019	11	391	647	647
7/31/2019	12	386	596	550
7/31/2019	13	386	580	575
7/31/2019	14	400	647	647
7/31/2019	15	396	647	592
7/31/2019	16	391	580	533
7/31/2019	17	373	520	500
7/31/2019	18	359	550	480
7/31/2019	19	371	595	520
7/31/2019	20	370	570	520
7/31/2019	21	365	580	564
7/31/2019	22	352	565	536
7/31/2019	23	335	560	535
7/31/2019	24	318	548	500
8/1/2019	1	307	647	572
8/1/2019	2	295	570	520
8/1/2019	3	285	550	510
8/1/2019	4	280	540	480
8/1/2019	5	284	565	500
8/1/2019	6	283	580	560
8/1/2019	7	281	580	550
8/1/2019	8	327	550	520
8/1/2019	9	363	647	608
8/1/2019	10	384	647	607
8/1/2019	11	394	647	647
8/1/2019	12	388	580	520
8/1/2019	13	389	582	530
8/1/2019	14	402	647	563
8/1/2019	15	399	620	525
8/1/2019	16	395	612	520
8/1/2019	17	376	530	500
8/1/2019	18	360	520	480
8/1/2019	19	374	550	500
8/1/2019	20	375	550	530
8/1/2019	21	369	599	564
8/1/2019	22	358	550	546
8/1/2019	23	342	577	529
8/1/2019	24	324	520	500
8/2/2019	1	307	647	570
8/2/2019	2	295	580	532
8/2/2019	3	286	540	500
8/2/2019	4	282	530	480
8/2/2019	5	286	560	500
8/2/2019	6	287	570	560
8/2/2019	7	283	580	550
8/2/2019	8	327	647	582
8/2/2019	9	357	647	647
8/2/2019	10	378	647	647
8/2/2019	11	391	647	647
8/2/2019	12	383	647	647
8/2/2019	13	383	647	647
8/2/2019	14	397	647	647
8/2/2019	15	392	647	647
8/2/2019	16	394	647	647
8/2/2019	17	373	590	550
8/2/2019	18	359	580	509
8/2/2019	19	370	647	575
8/2/2019	20	370	647	572
8/2/2019	21	366	647	554
8/2/2019	22	352	550	521
8/2/2019	23	338	531	520

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/2/2019	24	321	541	500
8/3/2019	1	294	601	552
8/3/2019	2	285	580	550
8/3/2019	3	277	534	500
8/3/2019	4	270	521	500
8/3/2019	5	267	551	500
8/3/2019	6	263	560	560
8/3/2019	7	267	570	550
8/3/2019	8	293	595	582
8/3/2019	9	324	600	590
8/3/2019	10	343	647	635
8/3/2019	11	354	647	647
8/3/2019	12	345	580	531
8/3/2019	13	343	570	520
8/3/2019	14	352	647	617
8/3/2019	15	345	600	580
8/3/2019	16	332	580	520
8/3/2019	17	321	550	500
8/3/2019	18	320	530	500
8/3/2019	19	333	580	550
8/3/2019	20	333	584	550
8/3/2019	21	329	570	558
8/3/2019	22	318	550	500
8/3/2019	23	303	550	520
8/3/2019	24	289	520	460
8/4/2019	1	290	590	550
8/4/2019	2	285	570	520
8/4/2019	3	274	520	500
8/4/2019	4	263	500	480
8/4/2019	5	261	550	490
8/4/2019	6	259	540	495
8/4/2019	7	263	570	550
8/4/2019	8	279	595	582
8/4/2019	9	285	600	590
8/4/2019	10	298	647	635
8/4/2019	11	309	627	550
8/4/2019	12	308	580	531
8/4/2019	13	310	590	530
8/4/2019	14	316	647	580
8/4/2019	15	315	647	574
8/4/2019	16	304	580	523
8/4/2019	17	296	550	471
8/4/2019	18	295	530	469
8/4/2019	19	318	614	550
8/4/2019	20	316	583	550
8/4/2019	21	314	570	550
8/4/2019	22	308	568	550
8/4/2019	23	301	537	500
8/4/2019	24	291	520	460
8/5/2019	1	286	580	540
8/5/2019	2	277	560	510
8/5/2019	3	270	510	500
8/5/2019	4	263	500	480
8/5/2019	5	261	550	490
8/5/2019	6	259	540	495
8/5/2019	7	267	570	550
8/5/2019	8	313	647	647
8/5/2019	9	353	647	647
8/5/2019	10	373	647	647
8/5/2019	11	385	647	647
8/5/2019	12	376	647	550
8/5/2019	13	374	647	550
8/5/2019	14	389	647	647
8/5/2019	15	384	647	647
8/5/2019	16	385	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/5/2019	17	365	647	647
8/5/2019	18	351	580	550
8/5/2019	19	363	647	610
8/5/2019	20	362	647	602
8/5/2019	21	359	647	550
8/5/2019	22	345	647	520
8/5/2019	23	331	540	500
8/5/2019	24	314	520	460
8/6/2019	1	291	580	500
8/6/2019	2	280	560	480
8/6/2019	3	274	510	460
8/6/2019	4	271	500	460
8/6/2019	5	277	550	470
8/6/2019	6	282	540	495
8/6/2019	7	297	570	550
8/6/2019	8	319	647	613
8/6/2019	9	352	647	647
8/6/2019	10	373	647	647
8/6/2019	11	381	647	647
8/6/2019	12	375	647	647
8/6/2019	13	376	647	647
8/6/2019	14	390	647	647
8/6/2019	15	387	647	647
8/6/2019	16	382	647	647
8/6/2019	17	367	647	647
8/6/2019	18	354	647	628
8/6/2019	19	361	647	647
8/6/2019	20	356	647	647
8/6/2019	21	345	647	550
8/6/2019	22	329	647	520
8/6/2019	23	311	540	500
8/6/2019	24	296	520	460
8/7/2019	1	289	586	500
8/7/2019	2	281	570	494
8/7/2019	3	273	520	460
8/7/2019	4	271	500	460
8/7/2019	5	277	552	470
8/7/2019	6	281	542	495
8/7/2019	7	300	575	550
8/7/2019	8	326	647	613
8/7/2019	9	357	647	647
8/7/2019	10	384	647	647
8/7/2019	11	395	647	647
8/7/2019	12	391	647	647
8/7/2019	13	392	647	647
8/7/2019	14	403	647	647
8/7/2019	15	397	647	647
8/7/2019	16	391	647	647
8/7/2019	17	376	647	647
8/7/2019	18	358	647	619
8/7/2019	19	368	647	647
8/7/2019	20	364	647	647
8/7/2019	21	357	647	550
8/7/2019	22	343	580	520
8/7/2019	23	326	550	500
8/7/2019	24	310	500	460
8/8/2019	1	292	586	500
8/8/2019	2	282	570	494
8/8/2019	3	273	520	460
8/8/2019	4	272	500	460
8/8/2019	5	278	552	470
8/8/2019	6	280	542	495
8/8/2019	7	301	575	550
8/8/2019	8	323	647	613
8/8/2019	9	359	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/8/2019	10	381	647	647
8/8/2019	11	394	647	647
8/8/2019	12	386	647	647
8/8/2019	13	384	647	647
8/8/2019	14	395	647	647
8/8/2019	15	391	647	647
8/8/2019	16	380	647	647
8/8/2019	17	365	647	580
8/8/2019	18	356	647	560
8/8/2019	19	363	647	647
8/8/2019	20	359	647	647
8/8/2019	21	349	600	550
8/8/2019	22	336	567	520
8/8/2019	23	319	534	500
8/8/2019	24	309	520	480
8/9/2019	1	284	589	571
8/9/2019	2	274	574	562
8/9/2019	3	267	541	520
8/9/2019	4	263	460	440
8/9/2019	5	270	488	470
8/9/2019	6	277	557	550
8/9/2019	7	282	575	550
8/9/2019	8	317	647	613
8/9/2019	9	347	647	620
8/9/2019	10	369	647	647
8/9/2019	11	375	647	647
8/9/2019	12	361	620	591
8/9/2019	13	360	600	575
8/9/2019	14	369	647	612
8/9/2019	15	362	600	588
8/9/2019	16	360	581	550
8/9/2019	17	351	580	550
8/9/2019	18	346	580	550
8/9/2019	19	353	580	550
8/9/2019	20	348	580	558
8/9/2019	21	340	580	550
8/9/2019	22	323	550	524
8/9/2019	23	304	520	513
8/9/2019	24	290	513	500
8/10/2019	1	286	647	580
8/10/2019	2	277	647	550
8/10/2019	3	269	647	520
8/10/2019	4	262	600	497
8/10/2019	5	259	580	500
8/10/2019	6	259	580	500
8/10/2019	7	267	550	526
8/10/2019	8	289	574	500
8/10/2019	9	303	553	510
8/10/2019	10	322	647	577
8/10/2019	11	333	647	580
8/10/2019	12	324	580	570
8/10/2019	13	322	621	550
8/10/2019	14	331	647	561
8/10/2019	15	323	580	550
8/10/2019	16	311	510	500
8/10/2019	17	300	480	460
8/10/2019	18	299	480	460
8/10/2019	19	312	624	584
8/10/2019	20	312	624	580
8/10/2019	21	308	584	556
8/10/2019	22	297	558	548
8/10/2019	23	281	510	480
8/10/2019	24	268	500	470
8/11/2019	1	282	580	547
8/11/2019	2	273	577	520

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/11/2019	3	266	566	520
8/11/2019	4	255	520	480
8/11/2019	5	253	500	500
8/11/2019	6	251	520	480
8/11/2019	7	255	530	500
8/11/2019	8	271	574	500
8/11/2019	9	283	553	510
8/11/2019	10	296	606	540
8/11/2019	11	307	647	598
8/11/2019	12	306	580	570
8/11/2019	13	308	621	550
8/11/2019	14	314	647	647
8/11/2019	15	313	647	647
8/11/2019	16	302	647	543
8/11/2019	17	294	647	520
8/11/2019	18	294	647	500
8/11/2019	19	316	647	647
8/11/2019	20	314	647	647
8/11/2019	21	312	647	647
8/11/2019	22	306	647	647
8/11/2019	23	300	647	515
8/11/2019	24	289	500	460
8/12/2019	1	241	547	460
8/12/2019	2	234	540	460
8/12/2019	3	229	540	460
8/12/2019	4	224	473	460
8/12/2019	5	229	460	420
8/12/2019	6	232	460	454
8/12/2019	7	234	460	429
8/12/2019	8	264	500	492
8/12/2019	9	294	500	476
8/12/2019	10	314	556	540
8/12/2019	11	323	600	582
8/12/2019	12	315	600	530
8/12/2019	13	310	520	497
8/12/2019	14	321	600	536
8/12/2019	15	317	600	566
8/12/2019	16	313	600	543
8/12/2019	17	305	597	520
8/12/2019	18	300	520	500
8/12/2019	19	307	600	514
8/12/2019	20	299	546	500
8/12/2019	21	291	513	500
8/12/2019	22	278	500	460
8/12/2019	23	262	460	454
8/12/2019	24	250	460	450
8/13/2019	1	282	580	540
8/13/2019	2	273	570	520
8/13/2019	3	266	550	520
8/13/2019	4	259	520	480
8/13/2019	5	257	500	470
8/13/2019	6	255	520	490
8/13/2019	7	263	530	500
8/13/2019	8	309	647	647
8/13/2019	9	353	647	647
8/13/2019	10	374	647	647
8/13/2019	11	382	647	647
8/13/2019	12	377	647	647
8/13/2019	13	377	647	647
8/13/2019	14	391	647	647
8/13/2019	15	388	647	647
8/13/2019	16	383	647	647
8/13/2019	17	369	647	635
8/13/2019	18	355	580	550
8/13/2019	19	362	647	580

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/13/2019	20	357	580	550
8/13/2019	21	346	570	550
8/13/2019	22	330	578	540
8/13/2019	23	312	530	500
8/13/2019	24	297	480	460
8/14/2019	1	302	635	574
8/14/2019	2	292	595	520
8/14/2019	3	284	550	500
8/14/2019	4	282	537	480
8/14/2019	5	288	618	500
8/14/2019	6	293	647	566
8/14/2019	7	298	647	647
8/14/2019	8	334	647	647
8/14/2019	9	366	647	647
8/14/2019	10	390	647	647
8/14/2019	11	401	647	647
8/14/2019	12	396	647	647
8/14/2019	13	396	647	647
8/14/2019	14	408	647	647
8/14/2019	15	404	647	647
8/14/2019	16	399	647	647
8/14/2019	17	384	647	647
8/14/2019	18	368	580	550
8/14/2019	19	377	647	647
8/14/2019	20	372	647	647
8/14/2019	21	362	647	550
8/14/2019	22	348	598	550
8/14/2019	23	330	550	500
8/14/2019	24	314	530	463
8/15/2019	1	315	647	590
8/15/2019	2	305	600	573
8/15/2019	3	295	550	500
8/15/2019	4	291	537	480
8/15/2019	5	295	618	500
8/15/2019	6	289	574	500
8/15/2019	7	297	580	550
8/15/2019	8	337	647	590
8/15/2019	9	377	647	647
8/15/2019	10	392	647	647
8/15/2019	11	408	647	647
8/15/2019	12	403	647	580
8/15/2019	13	405	647	590
8/15/2019	14	420	647	647
8/15/2019	15	417	647	647
8/15/2019	16	410	647	647
8/15/2019	17	386	647	647
8/15/2019	18	369	580	550
8/15/2019	19	380	647	647
8/15/2019	20	385	647	647
8/15/2019	21	383	647	647
8/15/2019	22	373	647	647
8/15/2019	23	349	647	578
8/15/2019	24	323	530	463
8/16/2019	1	304	580	565
8/16/2019	2	292	575	548
8/16/2019	3	285	540	500
8/16/2019	4	284	537	531
8/16/2019	5	294	618	524
8/16/2019	6	296	574	562
8/16/2019	7	301	580	554
8/16/2019	8	335	607	602
8/16/2019	9	374	617	612
8/16/2019	10	396	647	610
8/16/2019	11	407	647	612
8/16/2019	12	398	580	545

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/16/2019	13	397	580	500
8/16/2019	14	409	621	620
8/16/2019	15	408	620	618
8/16/2019	16	401	580	566
8/16/2019	17	384	561	518
8/16/2019	18	377	568	523
8/16/2019	19	388	600	580
8/16/2019	20	379	600	563
8/16/2019	21	373	580	563
8/16/2019	22	357	590	579
8/16/2019	23	338	590	578
8/16/2019	24	321	508	500
8/17/2019	1	298	580	560
8/17/2019	2	289	570	540
8/17/2019	3	281	550	500
8/17/2019	4	274	520	480
8/17/2019	5	271	550	500
8/17/2019	6	267	530	490
8/17/2019	7	271	564	520
8/17/2019	8	297	580	550
8/17/2019	9	339	600	560
8/17/2019	10	358	601	564
8/17/2019	11	369	602	570
8/17/2019	12	360	561	520
8/17/2019	13	358	520	500
8/17/2019	14	367	591	520
8/17/2019	15	360	560	500
8/17/2019	16	347	550	480
8/17/2019	17	336	500	470
8/17/2019	18	335	500	480
8/17/2019	19	348	550	500
8/17/2019	20	348	540	500
8/17/2019	21	344	530	500
8/17/2019	22	333	520	480
8/17/2019	23	317	500	470
8/17/2019	24	304	480	460
8/18/2019	1	290	570	550
8/18/2019	2	285	550	520
8/18/2019	3	274	520	500
8/18/2019	4	263	500	480
8/18/2019	5	261	500	462
8/18/2019	6	259	493	460
8/18/2019	7	263	520	460
8/18/2019	8	279	580	500
8/18/2019	9	299	600	550
8/18/2019	10	312	601	564
8/18/2019	11	323	602	570
8/18/2019	12	322	561	520
8/18/2019	13	324	573	500
8/18/2019	14	330	591	520
8/18/2019	15	329	580	500
8/18/2019	16	318	550	480
8/18/2019	17	310	500	470
8/18/2019	18	309	500	480
8/18/2019	19	332	647	550
8/18/2019	20	330	647	542
8/18/2019	21	328	647	580
8/18/2019	22	322	580	550
8/18/2019	23	315	500	470
8/18/2019	24	305	480	460
8/19/2019	1	308	570	550
8/19/2019	2	298	550	520
8/19/2019	3	290	520	500
8/19/2019	4	286	500	480
8/19/2019	5	292	520	497

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/19/2019	6	293	520	460
8/19/2019	7	296	520	470
8/19/2019	8	330	580	503
8/19/2019	9	366	600	560
8/19/2019	10	390	600	600
8/19/2019	11	403	600	600
8/19/2019	12	394	600	571
8/19/2019	13	393	575	561
8/19/2019	14	407	647	637
8/19/2019	15	404	615	600
8/19/2019	16	397	600	585
8/19/2019	17	379	484	480
8/19/2019	18	370	500	460
8/19/2019	19	383	600	584
8/19/2019	20	380	580	560
8/19/2019	21	372	580	550
8/19/2019	22	356	580	537
8/19/2019	23	338	480	460
8/19/2019	24	320	480	460
8/20/2019	1	290	570	550
8/20/2019	2	281	550	520
8/20/2019	3	273	520	480
8/20/2019	4	266	500	460
8/20/2019	5	263	500	460
8/20/2019	6	259	480	460
8/20/2019	7	272	520	460
8/20/2019	8	329	580	550
8/20/2019	9	377	590	560
8/20/2019	10	399	600	570
8/20/2019	11	407	647	580
8/20/2019	12	401	580	550
8/20/2019	13	398	570	540
8/20/2019	14	413	647	580
8/20/2019	15	408	590	550
8/20/2019	16	409	580	520
8/20/2019	17	387	550	500
8/20/2019	18	372	500	480
8/20/2019	19	385	580	540
8/20/2019	20	384	580	530
8/20/2019	21	381	580	550
8/20/2019	22	366	580	550
8/20/2019	23	351	500	470
8/20/2019	24	333	480	460
8/21/2019	1	336	550	531
8/21/2019	2	324	512	500
8/21/2019	3	310	510	500
8/21/2019	4	302	510	500
8/21/2019	5	293	487	480
8/21/2019	6	283	480	460
8/21/2019	7	283	520	460
8/21/2019	8	300	520	472
8/21/2019	9	326	520	492
8/21/2019	10	343	520	496
8/21/2019	11	360	550	550
8/21/2019	12	358	550	543
8/21/2019	13	361	550	550
8/21/2019	14	371	550	550
8/21/2019	15	367	550	550
8/21/2019	16	361	550	531
8/21/2019	17	346	550	500
8/21/2019	18	342	550	480
8/21/2019	19	364	562	550
8/21/2019	20	369	562	540
8/21/2019	21	373	559	550
8/21/2019	22	368	580	544

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/21/2019	23	356	575	500
8/21/2019	24	341	567	550
8/22/2019	1	294	591	550
8/22/2019	2	285	560	531
8/22/2019	3	277	530	480
8/22/2019	4	270	500	460
8/22/2019	5	267	480	460
8/22/2019	6	263	460	456
8/22/2019	7	276	536	460
8/22/2019	8	333	604	550
8/22/2019	9	387	647	573
8/22/2019	10	410	647	647
8/22/2019	11	422	647	647
8/22/2019	12	412	647	647
8/22/2019	13	415	647	647
8/22/2019	14	427	647	647
8/22/2019	15	425	647	647
8/22/2019	16	419	647	647
8/22/2019	17	402	647	647
8/22/2019	18	388	601	550
8/22/2019	19	401	647	620
8/22/2019	20	400	647	578
8/22/2019	21	399	647	647
8/22/2019	22	386	580	536
8/22/2019	23	362	520	470
8/22/2019	24	338	480	460
8/23/2019	1	302	581	541
8/23/2019	2	292	575	521
8/23/2019	3	283	509	464
8/23/2019	4	280	509	480
8/23/2019	5	284	530	497
8/23/2019	6	286	503	480
8/23/2019	7	286	517	460
8/23/2019	8	326	548	547
8/23/2019	9	359	555	530
8/23/2019	10	380	527	525
8/23/2019	11	392	595	550
8/23/2019	12	383	581	504
8/23/2019	13	380	540	508
8/23/2019	14	397	595	550
8/23/2019	15	394	534	500
8/23/2019	16	391	542	500
8/23/2019	17	371	500	460
8/23/2019	18	357	480	460
8/23/2019	19	371	524	500
8/23/2019	20	368	509	460
8/23/2019	21	364	519	460
8/23/2019	22	352	490	460
8/23/2019	23	337	496	495
8/23/2019	24	320	480	467
8/24/2019	1	295	590	540
8/24/2019	2	287	551	530
8/24/2019	3	279	510	480
8/24/2019	4	272	480	460
8/24/2019	5	269	470	460
8/24/2019	6	265	460	442
8/24/2019	7	269	536	460
8/24/2019	8	301	540	480
8/24/2019	9	335	550	498
8/24/2019	10	354	550	500
8/24/2019	11	365	580	500
8/24/2019	12	356	550	480
8/24/2019	13	354	540	480
8/24/2019	14	363	570	500
8/24/2019	15	355	550	500

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/24/2019	16	343	500	480
8/24/2019	17	332	500	460
8/24/2019	18	331	480	460
8/24/2019	19	344	550	500
8/24/2019	20	344	520	460
8/24/2019	21	340	520	460
8/24/2019	22	329	500	460
8/24/2019	23	313	500	460
8/24/2019	24	300	480	460
8/25/2019	1	290	580	530
8/25/2019	2	281	540	517
8/25/2019	3	273	510	462
8/25/2019	4	262	460	450
8/25/2019	5	261	460	436
8/25/2019	6	259	460	430
8/25/2019	7	263	520	460
8/25/2019	8	279	540	460
8/25/2019	9	308	550	470
8/25/2019	10	321	550	500
8/25/2019	11	332	580	500
8/25/2019	12	331	550	480
8/25/2019	13	333	570	505
8/25/2019	14	339	585	500
8/25/2019	15	338	584	500
8/25/2019	16	327	549	480
8/25/2019	17	319	500	460
8/25/2019	18	318	480	460
8/25/2019	19	341	647	550
8/25/2019	20	339	600	497
8/25/2019	21	337	520	460
8/25/2019	22	331	500	460
8/25/2019	23	324	500	460
8/25/2019	24	314	480	460
8/26/2019	1	275	547	438
8/26/2019	2	264	488	438
8/26/2019	3	259	450	438
8/26/2019	4	251	400	370
8/26/2019	5	251	400	359
8/26/2019	6	249	354	335
8/26/2019	7	253	400	394
8/26/2019	8	270	400	364
8/26/2019	9	292	518	441
8/26/2019	10	311	520	440
8/26/2019	11	322	532	516
8/26/2019	12	318	512	420
8/26/2019	13	317	505	420
8/26/2019	14	325	510	506
8/26/2019	15	323	500	496
8/26/2019	16	319	503	420
8/26/2019	17	312	518	420
8/26/2019	18	314	529	453
8/26/2019	19	335	560	521
8/26/2019	20	338	583	578
8/26/2019	21	337	540	530
8/26/2019	22	325	500	467
8/26/2019	23	311	490	460
8/26/2019	24	295	471	460
8/27/2019	1	288	580	530
8/27/2019	2	279	540	510
8/27/2019	3	271	510	460
8/27/2019	4	264	460	450
8/27/2019	5	261	460	420
8/27/2019	6	257	460	420
8/27/2019	7	278	492	460
8/27/2019	8	329	540	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/27/2019	9	375	647	550
8/27/2019	10	397	647	580
8/27/2019	11	405	647	647
8/27/2019	12	399	647	562
8/27/2019	13	396	647	550
8/27/2019	14	411	647	647
8/27/2019	15	406	647	647
8/27/2019	16	407	647	580
8/27/2019	17	385	550	500
8/27/2019	18	370	480	460
8/27/2019	19	383	580	500
8/27/2019	20	382	570	497
8/27/2019	21	379	520	460
8/27/2019	22	364	500	460
8/27/2019	23	349	500	460
8/27/2019	24	331	480	460
8/28/2019	1	293	580	517
8/28/2019	2	283	557	481
8/28/2019	3	274	490	460
8/28/2019	4	271	488	460
8/28/2019	5	277	500	460
8/28/2019	6	279	550	482
8/28/2019	7	285	580	502
8/28/2019	8	317	590	500
8/28/2019	9	351	647	564
8/28/2019	10	372	647	581
8/28/2019	11	382	647	588
8/28/2019	12	373	647	530
8/28/2019	13	373	647	538
8/28/2019	14	388	647	604
8/28/2019	15	385	647	560
8/28/2019	16	378	615	500
8/28/2019	17	360	550	460
8/28/2019	18	350	500	460
8/28/2019	19	364	580	534
8/28/2019	20	361	550	500
8/28/2019	21	356	547	480
8/28/2019	22	344	520	462
8/28/2019	23	327	500	460
8/28/2019	24	310	460	420
8/29/2019	1	299	580	533
8/29/2019	2	290	550	496
8/29/2019	3	282	490	460
8/29/2019	4	278	460	460
8/29/2019	5	282	500	460
8/29/2019	6	283	520	460
8/29/2019	7	290	580	472
8/29/2019	8	324	590	500
8/29/2019	9	358	647	520
8/29/2019	10	379	647	530
8/29/2019	11	390	647	569
8/29/2019	12	382	619	550
8/29/2019	13	381	588	550
8/29/2019	14	394	647	500
8/29/2019	15	389	600	500
8/29/2019	16	384	580	480
8/29/2019	17	367	550	480
8/29/2019	18	357	500	460
8/29/2019	19	368	592	500
8/29/2019	20	364	570	480
8/29/2019	21	357	540	460
8/29/2019	22	343	480	460
8/29/2019	23	328	470	460
8/29/2019	24	311	460	450
8/30/2019	1	302	570	520

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/30/2019	2	293	520	480
8/30/2019	3	285	480	460
8/30/2019	4	281	460	460
8/30/2019	5	287	500	460
8/30/2019	6	290	520	460
8/30/2019	7	300	580	472
8/30/2019	8	328	550	500
8/30/2019	9	359	580	520
8/30/2019	10	379	647	542
8/30/2019	11	388	647	553
8/30/2019	12	380	591	550
8/30/2019	13	376	570	520
8/30/2019	14	385	627	500
8/30/2019	15	378	585	500
8/30/2019	16	375	571	470
8/30/2019	17	363	545	469
8/30/2019	18	356	500	460
8/30/2019	19	367	590	528
8/30/2019	20	363	580	513
8/30/2019	21	356	520	460
8/30/2019	22	343	480	460
8/30/2019	23	327	481	460
8/30/2019	24	311	460	450
8/31/2019	1	290	540	500
8/31/2019	2	280	500	450
8/31/2019	3	272	450	430
8/31/2019	4	268	440	390
8/31/2019	5	266	440	406
8/31/2019	6	267	419	400
8/31/2019	7	281	530	480
8/31/2019	8	289	525	455
8/31/2019	9	314	550	491
8/31/2019	10	336	550	500
8/31/2019	11	346	541	520
8/31/2019	12	341	520	500
8/31/2019	13	340	525	505
8/31/2019	14	350	530	480
8/31/2019	15	345	520	517
8/31/2019	16	336	517	480
8/31/2019	17	328	490	420
8/31/2019	18	329	430	410
8/31/2019	19	341	525	446
8/31/2019	20	339	520	473
8/31/2019	21	329	425	403
8/31/2019	22	318	425	395
8/31/2019	23	307	425	395
8/31/2019	24	289	400	359
9/1/2019	1	288	570	480
9/1/2019	2	283	520	478
9/1/2019	3	272	460	450
9/1/2019	4	261	460	449
9/1/2019	5	259	500	460
9/1/2019	6	257	466	460
9/1/2019	7	261	515	472
9/1/2019	8	277	538	480
9/1/2019	9	297	580	520
9/1/2019	10	310	552	520
9/1/2019	11	321	574	500
9/1/2019	12	320	564	480
9/1/2019	13	322	550	488
9/1/2019	14	328	590	500
9/1/2019	15	327	570	480
9/1/2019	16	316	550	470
9/1/2019	17	308	466	460
9/1/2019	18	307	460	440

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/1/2019	19	330	550	471
9/1/2019	20	328	540	460
9/1/2019	21	326	480	460
9/1/2019	22	320	460	450
9/1/2019	23	313	460	430
9/1/2019	24	303	460	420
9/2/2019	1	286	550	460
9/2/2019	2	277	460	455
9/2/2019	3	270	460	450
9/2/2019	4	263	460	420
9/2/2019	5	261	460	460
9/2/2019	6	259	460	430
9/2/2019	7	267	515	466
9/2/2019	8	313	538	480
9/2/2019	9	359	540	500
9/2/2019	10	384	552	505
9/2/2019	11	397	560	500
9/2/2019	12	387	550	500
9/2/2019	13	386	480	460
9/2/2019	14	400	580	480
9/2/2019	15	396	570	480
9/2/2019	16	397	550	470
9/2/2019	17	376	460	450
9/2/2019	18	362	460	440
9/2/2019	19	374	550	460
9/2/2019	20	374	528	460
9/2/2019	21	371	480	460
9/2/2019	22	356	460	450
9/2/2019	23	342	460	450
9/2/2019	24	326	460	420
9/3/2019	1	287	520	460
9/3/2019	2	278	460	413
9/3/2019	3	270	460	400
9/3/2019	4	267	460	376
9/3/2019	5	275	460	420
9/3/2019	6	280	460	430
9/3/2019	7	284	580	460
9/3/2019	8	317	647	460
9/3/2019	9	351	647	460
9/3/2019	10	371	647	460
9/3/2019	11	385	647	460
9/3/2019	12	377	647	460
9/3/2019	13	376	647	460
9/3/2019	14	388	647	460
9/3/2019	15	383	647	460
9/3/2019	16	379	540	460
9/3/2019	17	365	480	460
9/3/2019	18	354	470	460
9/3/2019	19	363	520	460
9/3/2019	20	357	500	460
9/3/2019	21	347	460	420
9/3/2019	22	332	460	420
9/3/2019	23	314	460	420
9/3/2019	24	299	460	420
9/4/2019	1	287	560	460
9/4/2019	2	280	520	460
9/4/2019	3	275	470	460
9/4/2019	4	273	460	450
9/4/2019	5	279	492	460
9/4/2019	6	284	489	460
9/4/2019	7	300	589	480
9/4/2019	8	341	647	500
9/4/2019	9	366	647	500
9/4/2019	10	384	647	464
9/4/2019	11	395	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/4/2019	12	386	647	566
9/4/2019	13	382	647	490
9/4/2019	14	396	647	498
9/4/2019	15	392	647	460
9/4/2019	16	386	540	460
9/4/2019	17	373	480	460
9/4/2019	18	371	470	464
9/4/2019	19	379	565	500
9/4/2019	20	374	550	474
9/4/2019	21	364	538	460
9/4/2019	22	348	500	460
9/4/2019	23	330	480	460
9/4/2019	24	312	460	450
9/5/2019	1	303	590	550
9/5/2019	2	294	550	510
9/5/2019	3	287	510	480
9/5/2019	4	285	460	460
9/5/2019	5	291	500	470
9/5/2019	6	296	550	500
9/5/2019	7	292	550	500
9/5/2019	8	334	561	500
9/5/2019	9	374	620	533
9/5/2019	10	396	631	540
9/5/2019	11	402	647	536
9/5/2019	12	392	580	460
9/5/2019	13	386	541	460
9/5/2019	14	397	647	477
9/5/2019	15	394	647	460
9/5/2019	16	390	540	460
9/5/2019	17	375	480	460
9/5/2019	18	372	470	460
9/5/2019	19	380	551	460
9/5/2019	20	372	540	460
9/5/2019	21	362	500	460
9/5/2019	22	348	500	460
9/5/2019	23	330	480	460
9/5/2019	24	313	460	450
9/6/2019	1	290	550	506
9/6/2019	2	280	550	500
9/6/2019	3	273	480	460
9/6/2019	4	262	460	450
9/6/2019	5	260	460	440
9/6/2019	6	259	460	420
9/6/2019	7	263	460	440
9/6/2019	8	279	460	450
9/6/2019	9	303	580	460
9/6/2019	10	316	590	460
9/6/2019	11	327	600	460
9/6/2019	12	326	563	460
9/6/2019	13	328	550	460
9/6/2019	14	334	580	533
9/6/2019	15	333	570	531
9/6/2019	16	322	520	481
9/6/2019	17	314	480	460
9/6/2019	18	313	460	420
9/6/2019	19	336	515	460
9/6/2019	20	334	520	460
9/6/2019	21	332	520	460
9/6/2019	22	326	510	460
9/6/2019	23	319	470	460
9/6/2019	24	309	460	420
9/7/2019	1	307	400	400
9/7/2019	2	296	400	400
9/7/2019	3	291	400	400
9/7/2019	4	282	400	400

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/7/2019	5	281	521	447
9/7/2019	6	281	461	456
9/7/2019	7	290	486	421
9/7/2019	8	310	550	456
9/7/2019	9	341	550	400
9/7/2019	10	363	550	420
9/7/2019	11	376	556	420
9/7/2019	12	370	550	420
9/7/2019	13	368	550	420
9/7/2019	14	377	550	420
9/7/2019	15	372	550	420
9/7/2019	16	361	550	420
9/7/2019	17	350	550	420
9/7/2019	18	351	550	420
9/7/2019	19	364	550	420
9/7/2019	20	361	550	420
9/7/2019	21	352	550	420
9/7/2019	22	342	550	456
9/7/2019	23	330	516	456
9/7/2019	24	310	420	400
9/8/2019	1	290	550	506
9/8/2019	2	280	550	500
9/8/2019	3	273	480	460
9/8/2019	4	262	460	450
9/8/2019	5	260	460	440
9/8/2019	6	259	460	420
9/8/2019	7	263	460	440
9/8/2019	8	279	460	450
9/8/2019	9	303	580	460
9/8/2019	10	316	590	460
9/8/2019	11	327	600	460
9/8/2019	12	326	563	460
9/8/2019	13	328	550	460
9/8/2019	14	334	580	533
9/8/2019	15	333	570	531
9/8/2019	16	322	520	481
9/8/2019	17	314	480	460
9/8/2019	18	313	460	420
9/8/2019	19	336	515	460
9/8/2019	20	334	520	460
9/8/2019	21	332	520	460
9/8/2019	22	326	510	460
9/8/2019	23	319	470	460
9/8/2019	24	309	460	420
9/9/2019	1	286	550	500
9/9/2019	2	278	550	460
9/9/2019	3	270	480	460
9/9/2019	4	264	460	450
9/9/2019	5	261	460	440
9/9/2019	6	259	460	420
9/9/2019	7	267	460	440
9/9/2019	8	313	508	460
9/9/2019	9	362	580	460
9/9/2019	10	388	590	460
9/9/2019	11	400	580	460
9/9/2019	12	391	550	460
9/9/2019	13	389	540	460
9/9/2019	14	403	647	477
9/9/2019	15	399	576	480
9/9/2019	16	400	570	480
9/9/2019	17	380	500	460
9/9/2019	18	365	460	420
9/9/2019	19	378	515	460
9/9/2019	20	377	520	460
9/9/2019	21	374	520	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/9/2019	22	359	510	460
9/9/2019	23	345	470	460
9/9/2019	24	329	460	420
9/10/2019	1	301	580	500
9/10/2019	2	292	540	460
9/10/2019	3	285	500	460
9/10/2019	4	283	480	460
9/10/2019	5	286	460	460
9/10/2019	6	292	480	460
9/10/2019	7	294	500	460
9/10/2019	8	331	546	460
9/10/2019	9	364	580	460
9/10/2019	10	387	580	460
9/10/2019	11	397	580	460
9/10/2019	12	387	550	460
9/10/2019	13	386	540	460
9/10/2019	14	396	580	497
9/10/2019	15	392	572	480
9/10/2019	16	385	550	460
9/10/2019	17	372	480	460
9/10/2019	18	366	460	420
9/10/2019	19	374	572	460
9/10/2019	20	371	500	460
9/10/2019	21	363	460	440
9/10/2019	22	348	460	434
9/10/2019	23	330	460	420
9/10/2019	24	315	460	420
9/11/2019	1	287	560	460
9/11/2019	2	279	520	460
9/11/2019	3	273	500	460
9/11/2019	4	271	490	460
9/11/2019	5	279	500	460
9/11/2019	6	286	520	460
9/11/2019	7	295	544	460
9/11/2019	8	333	550	460
9/11/2019	9	364	560	460
9/11/2019	10	387	580	460
9/11/2019	11	397	530	460
9/11/2019	12	387	520	460
9/11/2019	13	385	540	460
9/11/2019	14	400	580	480
9/11/2019	15	396	572	466
9/11/2019	16	393	550	460
9/11/2019	17	376	480	460
9/11/2019	18	370	460	420
9/11/2019	19	381	580	460
9/11/2019	20	376	520	460
9/11/2019	21	366	480	460
9/11/2019	22	353	460	430
9/11/2019	23	335	460	430
9/11/2019	24	318	460	420
9/12/2019	1	300	550	456
9/12/2019	2	291	548	450
9/12/2019	3	284	498	437
9/12/2019	4	280	488	350
9/12/2019	5	286	498	401
9/12/2019	6	291	518	466
9/12/2019	7	292	542	479
9/12/2019	8	334	571	452
9/12/2019	9	365	558	450
9/12/2019	10	387	578	465
9/12/2019	11	395	528	460
9/12/2019	12	385	473	460
9/12/2019	13	381	460	459
9/12/2019	14	394	570	498

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/12/2019	15	391	550	491
9/12/2019	16	386	518	460
9/12/2019	17	370	460	420
9/12/2019	18	364	460	420
9/12/2019	19	373	498	460
9/12/2019	20	366	498	460
9/12/2019	21	357	498	460
9/12/2019	22	343	460	420
9/12/2019	23	326	460	444
9/12/2019	24	309	460	447
9/13/2019	1	283	530	460
9/13/2019	2	279	520	460
9/13/2019	3	272	498	460
9/13/2019	4	267	460	440
9/13/2019	5	274	460	450
9/13/2019	6	277	480	460
9/13/2019	7	280	490	460
9/13/2019	8	317	550	460
9/13/2019	9	351	553	460
9/13/2019	10	366	570	460
9/13/2019	11	374	528	460
9/13/2019	12	365	460	433
9/13/2019	13	364	460	453
9/13/2019	14	375	570	498
9/13/2019	15	370	550	473
9/13/2019	16	365	510	460
9/13/2019	17	350	460	420
9/13/2019	18	345	460	420
9/13/2019	19	354	497	460
9/13/2019	20	348	460	450
9/13/2019	21	343	460	444
9/13/2019	22	332	460	426
9/13/2019	23	310	460	420
9/13/2019	24	297	460	420
9/14/2019	1	295	530	460
9/14/2019	2	283	520	460
9/14/2019	3	278	498	460
9/14/2019	4	270	460	440
9/14/2019	5	269	460	450
9/14/2019	6	267	480	418
9/14/2019	7	263	451	351
9/14/2019	8	299	500	406
9/14/2019	9	328	563	451
9/14/2019	10	349	570	502
9/14/2019	11	356	580	521
9/14/2019	12	348	426	420
9/14/2019	13	350	485	420
9/14/2019	14	357	560	506
9/14/2019	15	351	550	500
9/14/2019	16	342	420	418
9/14/2019	17	330	420	390
9/14/2019	18	334	420	402
9/14/2019	19	344	450	432
9/14/2019	20	341	450	420
9/14/2019	21	340	461	420
9/14/2019	22	333	470	448
9/14/2019	23	320	470	460
9/14/2019	24	303	460	450
9/15/2019	1	284	550	468
9/15/2019	2	276	510	460
9/15/2019	3	268	468	460
9/15/2019	4	257	464	460
9/15/2019	5	255	460	440
9/15/2019	6	253	460	430
9/15/2019	7	257	460	450

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/15/2019	8	273	460	460
9/15/2019	9	291	480	460
9/15/2019	10	304	522	460
9/15/2019	11	315	528	460
9/15/2019	12	314	460	429
9/15/2019	13	316	470	460
9/15/2019	14	322	539	498
9/15/2019	15	321	530	490
9/15/2019	16	310	476	460
9/15/2019	17	302	460	420
9/15/2019	18	301	460	420
9/15/2019	19	324	545	460
9/15/2019	20	322	460	450
9/15/2019	21	320	460	450
9/15/2019	22	314	460	425
9/15/2019	23	307	460	450
9/15/2019	24	297	460	420
9/16/2019	1	282	550	468
9/16/2019	2	273	480	460
9/16/2019	3	266	460	450
9/16/2019	4	259	460	430
9/16/2019	5	257	460	440
9/16/2019	6	255	460	430
9/16/2019	7	263	460	444
9/16/2019	8	309	460	460
9/16/2019	9	353	480	460
9/16/2019	10	378	522	460
9/16/2019	11	391	528	460
9/16/2019	12	381	460	454
9/16/2019	13	380	460	420
9/16/2019	14	394	599	550
9/16/2019	15	390	579	520
9/16/2019	16	383	550	500
9/16/2019	17	370	460	420
9/16/2019	18	356	460	420
9/16/2019	19	368	550	460
9/16/2019	20	368	460	450
9/16/2019	21	365	460	450
9/16/2019	22	350	460	450
9/16/2019	23	336	460	450
9/16/2019	24	320	460	420
9/17/2019	1	284	550	460
9/17/2019	2	278	500	460
9/17/2019	3	271	460	450
9/17/2019	4	267	460	430
9/17/2019	5	274	460	440
9/17/2019	6	281	460	430
9/17/2019	7	285	460	444
9/17/2019	8	321	480	460
9/17/2019	9	355	480	460
9/17/2019	10	378	500	460
9/17/2019	11	386	526	460
9/17/2019	12	376	505	460
9/17/2019	13	373	460	450
9/17/2019	14	387	599	492
9/17/2019	15	383	580	481
9/17/2019	16	377	550	460
9/17/2019	17	365	460	420
9/17/2019	18	360	460	434
9/17/2019	19	370	560	460
9/17/2019	20	363	500	460
9/17/2019	21	355	460	455
9/17/2019	22	340	460	420
9/17/2019	23	323	460	426
9/17/2019	24	308	460	420

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/18/2019	1	291	480	460
9/18/2019	2	283	461	460
9/18/2019	3	276	460	440
9/18/2019	4	274	460	416
9/18/2019	5	281	460	425
9/18/2019	6	290	472	460
9/18/2019	7	292	480	460
9/18/2019	8	329	480	460
9/18/2019	9	359	480	460
9/18/2019	10	380	525	481
9/18/2019	11	391	501	460
9/18/2019	12	383	505	460
9/18/2019	13	381	460	450
9/18/2019	14	397	590	530
9/18/2019	15	394	580	490
9/18/2019	16	387	550	487
9/18/2019	17	374	460	420
9/18/2019	18	368	500	460
9/18/2019	19	369	560	463
9/18/2019	20	359	460	440
9/18/2019	21	352	460	440
9/18/2019	22	335	460	420
9/18/2019	23	320	460	420
9/18/2019	24	302	460	420
9/19/2019	1	300	550	471
9/19/2019	2	292	500	460
9/19/2019	3	284	475	460
9/19/2019	4	279	460	420
9/19/2019	5	283	460	460
9/19/2019	6	287	480	460
9/19/2019	7	292	500	460
9/19/2019	8	327	510	460
9/19/2019	9	358	520	460
9/19/2019	10	379	525	463
9/19/2019	11	389	546	480
9/19/2019	12	380	510	460
9/19/2019	13	377	460	450
9/19/2019	14	391	587	460
9/19/2019	15	388	553	460
9/19/2019	16	382	550	460
9/19/2019	17	366	460	450
9/19/2019	18	360	460	420
9/19/2019	19	367	550	460
9/19/2019	20	362	460	440
9/19/2019	21	356	460	440
9/19/2019	22	342	460	420
9/19/2019	23	328	460	440
9/19/2019	24	311	460	420
9/20/2019	1	287	530	480
9/20/2019	2	280	526	465
9/20/2019	3	273	460	460
9/20/2019	4	269	460	430
9/20/2019	5	276	470	460
9/20/2019	6	280	471	460
9/20/2019	7	293	520	460
9/20/2019	8	320	530	460
9/20/2019	9	353	570	460
9/20/2019	10	373	580	460
9/20/2019	11	383	590	460
9/20/2019	12	373	550	460
9/20/2019	13	371	500	460
9/20/2019	14	382	647	460
9/20/2019	15	375	580	460
9/20/2019	16	369	550	460
9/20/2019	17	356	460	450

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/20/2019	18	352	460	420
9/20/2019	19	361	550	460
9/20/2019	20	354	460	440
9/20/2019	21	349	460	440
9/20/2019	22	338	460	420
9/20/2019	23	318	460	431
9/20/2019	24	302	460	420
9/21/2019	1	289	530	480
9/21/2019	2	277	500	451
9/21/2019	3	272	480	440
9/21/2019	4	264	479	400
9/21/2019	5	264	470	405
9/21/2019	6	262	496	471
9/21/2019	7	267	520	494
9/21/2019	8	293	500	440
9/21/2019	9	321	570	460
9/21/2019	10	341	560	500
9/21/2019	11	348	570	500
9/21/2019	12	344	550	460
9/21/2019	13	340	500	464
9/21/2019	14	349	590	544
9/21/2019	15	341	580	506
9/21/2019	16	332	550	501
9/21/2019	17	322	450	430
9/21/2019	18	324	460	442
9/21/2019	19	332	550	463
9/21/2019	20	329	500	460
9/21/2019	21	325	468	460
9/21/2019	22	316	460	460
9/21/2019	23	302	460	435
9/21/2019	24	288	460	420
9/22/2019	1	282	530	480
9/22/2019	2	274	526	464
9/22/2019	3	266	460	460
9/22/2019	4	257	460	430
9/22/2019	5	255	470	460
9/22/2019	6	253	471	460
9/22/2019	7	257	460	450
9/22/2019	8	273	530	460
9/22/2019	9	287	550	460
9/22/2019	10	300	560	460
9/22/2019	11	311	570	460
9/22/2019	12	310	520	460
9/22/2019	13	312	480	460
9/22/2019	14	319	545	460
9/22/2019	15	318	530	460
9/22/2019	16	306	550	460
9/22/2019	17	298	460	450
9/22/2019	18	298	460	450
9/22/2019	19	320	550	460
9/22/2019	20	318	550	460
9/22/2019	21	316	530	460
9/22/2019	22	310	530	460
9/22/2019	23	304	460	431
9/22/2019	24	293	460	420
9/23/2019	1	282	550	500
9/23/2019	2	272	500	462
9/23/2019	3	264	467	460
9/23/2019	4	258	460	440
9/23/2019	5	257	470	460
9/23/2019	6	255	471	460
9/23/2019	7	263	460	450
9/23/2019	8	309	530	460
9/23/2019	9	355	580	512
9/23/2019	10	380	647	541

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/23/2019	11	393	647	567
9/23/2019	12	383	580	500
9/23/2019	13	382	647	480
9/23/2019	14	396	647	644
9/23/2019	15	392	647	600
9/23/2019	16	385	580	500
9/23/2019	17	372	550	460
9/23/2019	18	358	480	460
9/23/2019	19	370	580	470
9/23/2019	20	370	550	468
9/23/2019	21	367	520	462
9/23/2019	22	352	500	460
9/23/2019	23	338	500	460
9/23/2019	24	322	500	460
9/24/2019	1	310	647	580
9/24/2019	2	299	647	560
9/24/2019	3	291	580	550
9/24/2019	4	285	550	485
9/24/2019	5	289	580	541
9/24/2019	6	290	590	538
9/24/2019	7	295	600	550
9/24/2019	8	333	600	586
9/24/2019	9	367	647	580
9/24/2019	10	391	647	647
9/24/2019	11	402	647	647
9/24/2019	12	394	647	647
9/24/2019	13	394	647	647
9/24/2019	14	407	647	647
9/24/2019	15	401	647	647
9/24/2019	16	395	647	647
9/24/2019	17	376	580	463
9/24/2019	18	370	480	460
9/24/2019	19	377	647	542
9/24/2019	20	376	647	530
9/24/2019	21	372	570	460
9/24/2019	22	358	583	460
9/24/2019	23	340	490	460
9/24/2019	24	324	480	460
9/25/2019	1	310	647	600
9/25/2019	2	296	647	570
9/25/2019	3	287	590	560
9/25/2019	4	288	585	550
9/25/2019	5	293	590	541
9/25/2019	6	293	595	570
9/25/2019	7	297	647	580
9/25/2019	8	339	647	647
9/25/2019	9	376	647	647
9/25/2019	10	398	647	647
9/25/2019	11	407	647	647
9/25/2019	12	401	647	647
9/25/2019	13	402	647	647
9/25/2019	14	416	647	647
9/25/2019	15	408	647	647
9/25/2019	16	395	647	647
9/25/2019	17	383	647	590
9/25/2019	18	381	647	580
9/25/2019	19	381	647	588
9/25/2019	20	380	647	587
9/25/2019	21	371	647	612
9/25/2019	22	356	589	560
9/25/2019	23	333	550	510
9/25/2019	24	317	530	480
9/26/2019	1	308	647	460
9/26/2019	2	298	647	460
9/26/2019	3	291	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/26/2019	4	287	647	460
9/26/2019	5	293	647	460
9/26/2019	6	298	647	460
9/26/2019	7	303	647	473
9/26/2019	8	342	647	548
9/26/2019	9	375	647	578
9/26/2019	10	397	647	615
9/26/2019	11	405	647	615
9/26/2019	12	395	615	580
9/26/2019	13	391	615	520
9/26/2019	14	404	647	615
9/26/2019	15	401	647	615
9/26/2019	16	395	647	615
9/26/2019	17	380	615	547
9/26/2019	18	373	550	520
9/26/2019	19	382	615	551
9/26/2019	20	375	567	520
9/26/2019	21	366	566	500
9/26/2019	22	351	520	480
9/26/2019	23	334	560	460
9/26/2019	24	317	537	460
9/27/2019	1	300	597	480
9/27/2019	2	284	550	460
9/27/2019	3	274	510	460
9/27/2019	4	271	480	460
9/27/2019	5	273	510	460
9/27/2019	6	276	520	460
9/27/2019	7	281	571	460
9/27/2019	8	331	580	550
9/27/2019	9	374	615	580
9/27/2019	10	396	647	615
9/27/2019	11	407	647	615
9/27/2019	12	397	621	615
9/27/2019	13	399	647	615
9/27/2019	14	412	647	615
9/27/2019	15	409	647	615
9/27/2019	16	404	647	615
9/27/2019	17	383	580	547
9/27/2019	18	383	580	574
9/27/2019	19	387	647	615
9/27/2019	20	382	615	605
9/27/2019	21	376	548	500
9/27/2019	22	365	560	518
9/27/2019	23	340	480	460
9/27/2019	24	318	460	460
9/28/2019	1	308	600	585
9/28/2019	2	295	600	563
9/28/2019	3	290	521	510
9/28/2019	4	281	501	450
9/28/2019	5	281	540	459
9/28/2019	6	279	513	450
9/28/2019	7	285	571	486
9/28/2019	8	313	580	531
9/28/2019	9	343	582	580
9/28/2019	10	364	647	580
9/28/2019	11	374	622	611
9/28/2019	12	367	600	568
9/28/2019	13	363	580	515
9/28/2019	14	371	580	574
9/28/2019	15	365	594	580
9/28/2019	16	355	575	560
9/28/2019	17	344	500	463
9/28/2019	18	346	547	450
9/28/2019	19	355	580	550
9/28/2019	20	352	550	541

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/28/2019	21	347	526	500
9/28/2019	22	338	560	518
9/28/2019	23	322	480	420
9/28/2019	24	306	460	460
9/29/2019	1	290	550	460
9/29/2019	2	278	549	460
9/29/2019	3	271	510	460
9/29/2019	4	260	480	460
9/29/2019	5	258	510	460
9/29/2019	6	259	520	460
9/29/2019	7	263	500	460
9/29/2019	8	279	500	460
9/29/2019	9	310	540	460
9/29/2019	10	327	560	460
9/29/2019	11	338	580	460
9/29/2019	12	337	520	460
9/29/2019	13	339	500	460
9/29/2019	14	346	591	460
9/29/2019	15	345	590	460
9/29/2019	16	333	519	460
9/29/2019	17	325	460	450
9/29/2019	18	325	480	460
9/29/2019	19	347	580	480
9/29/2019	20	345	560	472
9/29/2019	21	339	550	460
9/29/2019	22	325	540	460
9/29/2019	23	312	463	460
9/29/2019	24	296	460	420
9/30/2019	1	288	560	460
9/30/2019	2	272	540	460
9/30/2019	3	262	480	460
9/30/2019	4	259	460	456
9/30/2019	5	261	489	460
9/30/2019	6	264	520	460
9/30/2019	7	269	460	450
9/30/2019	8	319	500	460
9/30/2019	9	375	647	615
9/30/2019	10	398	647	615
9/30/2019	11	409	647	615
9/30/2019	12	399	647	615
9/30/2019	13	400	647	615
9/30/2019	14	413	647	615
9/30/2019	15	411	647	615
9/30/2019	16	406	647	615
9/30/2019	17	384	647	615
9/30/2019	18	384	580	550
9/30/2019	19	389	580	480
9/30/2019	20	384	560	472
9/30/2019	21	378	550	460
9/30/2019	22	367	540	460
9/30/2019	23	341	463	460
9/30/2019	24	319	460	420
10/1/2019	1	316	580	520
10/1/2019	2	305	540	512
10/1/2019	3	297	500	460
10/1/2019	4	291	460	450
10/1/2019	5	296	500	460
10/1/2019	6	300	550	460
10/1/2019	7	302	460	450
10/1/2019	8	336	588	460
10/1/2019	9	373	630	490
10/1/2019	10	399	630	566
10/1/2019	11	411	630	601
10/1/2019	12	399	630	476
10/1/2019	13	399	567	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/1/2019	14	411	630	569
10/1/2019	15	409	630	560
10/1/2019	16	399	630	548
10/1/2019	17	387	615	483
10/1/2019	18	388	599	465
10/1/2019	19	391	595	480
10/1/2019	20	385	560	460
10/1/2019	21	377	550	460
10/1/2019	22	361	540	460
10/1/2019	23	339	463	460
10/1/2019	24	321	460	420
10/2/2019	1	314	608	520
10/2/2019	2	303	574	490
10/2/2019	3	295	536	460
10/2/2019	4	290	488	460
10/2/2019	5	296	531	460
10/2/2019	6	300	586	460
10/2/2019	7	297	471	460
10/2/2019	8	336	630	469
10/2/2019	9	370	630	527
10/2/2019	10	392	630	533
10/2/2019	11	406	630	602
10/2/2019	12	397	630	553
10/2/2019	13	401	630	563
10/2/2019	14	416	647	630
10/2/2019	15	413	647	630
10/2/2019	16	409	647	630
10/2/2019	17	394	583	577
10/2/2019	18	388	576	534
10/2/2019	19	394	630	553
10/2/2019	20	387	630	489
10/2/2019	21	382	630	483
10/2/2019	22	366	630	460
10/2/2019	23	346	583	460
10/2/2019	24	327	460	450
10/3/2019	1	320	612	556
10/3/2019	2	310	596	528
10/3/2019	3	301	500	460
10/3/2019	4	297	481	460
10/3/2019	5	303	600	549
10/3/2019	6	308	600	592
10/3/2019	7	315	486	481
10/3/2019	8	353	630	615
10/3/2019	9	389	647	630
10/3/2019	10	412	647	630
10/3/2019	11	421	647	630
10/3/2019	12	410	647	630
10/3/2019	13	409	631	630
10/3/2019	14	421	647	630
10/3/2019	15	418	647	630
10/3/2019	16	414	647	630
10/3/2019	17	397	630	625
10/3/2019	18	392	600	594
10/3/2019	19	400	647	630
10/3/2019	20	394	590	531
10/3/2019	21	386	590	522
10/3/2019	22	372	570	488
10/3/2019	23	352	575	480
10/3/2019	24	335	575	480
10/4/2019	1	308	570	550
10/4/2019	2	299	530	510
10/4/2019	3	290	500	470
10/4/2019	4	283	470	460
10/4/2019	5	282	490	460
10/4/2019	6	285	491	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/4/2019	7	278	460	430
10/4/2019	8	325	630	550
10/4/2019	9	359	647	630
10/4/2019	10	378	647	630
10/4/2019	11	390	647	630
10/4/2019	12	384	574	550
10/4/2019	13	385	630	536
10/4/2019	14	400	647	630
10/4/2019	15	395	630	614
10/4/2019	16	388	630	579
10/4/2019	17	372	580	550
10/4/2019	18	372	622	600
10/4/2019	19	375	584	550
10/4/2019	20	371	535	500
10/4/2019	21	367	530	500
10/4/2019	22	350	570	488
10/4/2019	23	335	550	480
10/4/2019	24	319	484	460
10/5/2019	1	313	599	545
10/5/2019	2	301	580	525
10/5/2019	3	292	550	505
10/5/2019	4	284	500	480
10/5/2019	5	282	500	480
10/5/2019	6	278	500	460
10/5/2019	7	281	460	426
10/5/2019	8	311	531	507
10/5/2019	9	342	562	550
10/5/2019	10	368	606	565
10/5/2019	11	381	645	600
10/5/2019	12	374	596	556
10/5/2019	13	373	579	550
10/5/2019	14	384	647	616
10/5/2019	15	380	625	580
10/5/2019	16	368	600	584
10/5/2019	17	352	590	584
10/5/2019	18	361	610	585
10/5/2019	19	370	640	600
10/5/2019	20	369	632	600
10/5/2019	21	368	572	555
10/5/2019	22	358	569	550
10/5/2019	23	341	555	520
10/5/2019	24	325	549	500
10/6/2019	1	288	570	520
10/6/2019	2	277	550	503
10/6/2019	3	270	516	460
10/6/2019	4	260	460	450
10/6/2019	5	258	470	460
10/6/2019	6	258	480	460
10/6/2019	7	263	492	460
10/6/2019	8	279	550	460
10/6/2019	9	310	630	527
10/6/2019	10	327	630	577
10/6/2019	11	338	630	535
10/6/2019	12	337	630	574
10/6/2019	13	339	630	570
10/6/2019	14	346	647	630
10/6/2019	15	345	647	630
10/6/2019	16	333	630	579
10/6/2019	17	325	580	550
10/6/2019	18	325	600	559
10/6/2019	19	346	647	630
10/6/2019	20	345	647	630
10/6/2019	21	339	630	580
10/6/2019	22	325	630	537
10/6/2019	23	312	547	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/6/2019	24	296	460	460
10/7/2019	1	288	590	550
10/7/2019	2	272	520	480
10/7/2019	3	262	470	460
10/7/2019	4	259	460	450
10/7/2019	5	261	470	460
10/7/2019	6	264	480	460
10/7/2019	7	269	492	460
10/7/2019	8	319	599	580
10/7/2019	9	378	647	630
10/7/2019	10	400	647	630
10/7/2019	11	411	647	630
10/7/2019	12	402	647	630
10/7/2019	13	403	647	630
10/7/2019	14	416	647	630
10/7/2019	15	413	647	630
10/7/2019	16	408	647	630
10/7/2019	17	387	647	630
10/7/2019	18	387	647	630
10/7/2019	19	392	647	630
10/7/2019	20	386	647	630
10/7/2019	21	380	647	630
10/7/2019	22	369	647	630
10/7/2019	23	344	550	460
10/7/2019	24	322	460	460
10/8/2019	1	314	647	460
10/8/2019	2	303	580	460
10/8/2019	3	294	520	460
10/8/2019	4	289	500	460
10/8/2019	5	296	550	480
10/8/2019	6	299	580	500
10/8/2019	7	299	550	460
10/8/2019	8	339	632	630
10/8/2019	9	376	647	630
10/8/2019	10	399	647	630
10/8/2019	11	410	647	630
10/8/2019	12	405	647	630
10/8/2019	13	405	647	630
10/8/2019	14	418	647	630
10/8/2019	15	412	647	630
10/8/2019	16	405	647	630
10/8/2019	17	391	647	630
10/8/2019	18	391	647	630
10/8/2019	19	395	647	630
10/8/2019	20	389	647	630
10/8/2019	21	384	647	630
10/8/2019	22	368	647	618
10/8/2019	23	347	585	460
10/8/2019	24	330	555	460
10/9/2019	1	308	600	460
10/9/2019	2	299	580	460
10/9/2019	3	290	520	460
10/9/2019	4	284	500	460
10/9/2019	5	290	550	460
10/9/2019	6	290	580	460
10/9/2019	7	291	540	460
10/9/2019	8	334	632	550
10/9/2019	9	369	647	580
10/9/2019	10	392	647	580
10/9/2019	11	402	647	630
10/9/2019	12	393	647	575
10/9/2019	13	396	647	630
10/9/2019	14	407	647	630
10/9/2019	15	406	647	630
10/9/2019	16	398	647	630

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/9/2019	17	381	647	576
10/9/2019	18	382	647	618
10/9/2019	19	384	647	561
10/9/2019	20	378	580	550
10/9/2019	21	372	570	500
10/9/2019	22	356	530	480
10/9/2019	23	338	500	460
10/9/2019	24	320	460	450
10/10/2019	1	314	600	550
10/10/2019	2	305	580	520
10/10/2019	3	296	550	491
10/10/2019	4	291	520	460
10/10/2019	5	295	540	500
10/10/2019	6	297	560	500
10/10/2019	7	301	560	481
10/10/2019	8	341	630	619
10/10/2019	9	379	647	630
10/10/2019	10	402	647	630
10/10/2019	11	415	647	630
10/10/2019	12	404	630	580
10/10/2019	13	408	630	581
10/10/2019	14	420	647	630
10/10/2019	15	418	647	630
10/10/2019	16	413	647	630
10/10/2019	17	396	580	550
10/10/2019	18	398	647	565
10/10/2019	19	397	647	550
10/10/2019	20	395	647	539
10/10/2019	21	389	626	500
10/10/2019	22	375	562	500
10/10/2019	23	354	500	460
10/10/2019	24	338	460	460
10/11/2019	1	312	600	499
10/11/2019	2	304	600	460
10/11/2019	3	297	545	460
10/11/2019	4	291	495	460
10/11/2019	5	296	460	419
10/11/2019	6	298	460	415
10/11/2019	7	304	460	415
10/11/2019	8	342	572	460
10/11/2019	9	379	590	550
10/11/2019	10	400	600	590
10/11/2019	11	410	610	600
10/11/2019	12	401	580	543
10/11/2019	13	400	581	565
10/11/2019	14	414	647	630
10/11/2019	15	409	600	598
10/11/2019	16	403	600	590
10/11/2019	17	384	600	550
10/11/2019	18	382	600	565
10/11/2019	19	385	600	550
10/11/2019	20	381	564	539
10/11/2019	21	375	595	540
10/11/2019	22	363	562	500
10/11/2019	23	342	500	460
10/11/2019	24	327	490	460
10/12/2019	1	328	647	460
10/12/2019	2	309	647	460
10/12/2019	3	300	647	460
10/12/2019	4	292	647	460
10/12/2019	5	291	647	460
10/12/2019	6	287	647	460
10/12/2019	7	295	647	460
10/12/2019	8	319	647	460
10/12/2019	9	348	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/12/2019	10	374	647	460
10/12/2019	11	386	647	460
10/12/2019	12	381	647	460
10/12/2019	13	379	647	460
10/12/2019	14	392	647	460
10/12/2019	15	386	647	460
10/12/2019	16	376	647	460
10/12/2019	17	362	647	460
10/12/2019	18	372	647	460
10/12/2019	19	378	647	460
10/12/2019	20	378	647	460
10/12/2019	21	374	647	460
10/12/2019	22	363	647	460
10/12/2019	23	346	647	460
10/12/2019	24	329	647	460
10/13/2019	1	292	647	460
10/13/2019	2	281	647	460
10/13/2019	3	274	647	460
10/13/2019	4	264	586	460
10/13/2019	5	263	550	460
10/13/2019	6	258	550	460
10/13/2019	7	267	647	460
10/13/2019	8	287	647	460
10/13/2019	9	316	647	460
10/13/2019	10	333	647	460
10/13/2019	11	344	647	460
10/13/2019	12	343	647	460
10/13/2019	13	345	647	460
10/13/2019	14	352	647	460
10/13/2019	15	351	626	460
10/13/2019	16	339	640	460
10/13/2019	17	331	647	460
10/13/2019	18	331	647	460
10/13/2019	19	352	647	460
10/13/2019	20	351	647	460
10/13/2019	21	345	647	460
10/13/2019	22	331	562	460
10/13/2019	23	318	500	460
10/13/2019	24	302	490	460
10/14/2019	1	288	580	500
10/14/2019	2	272	550	460
10/14/2019	3	262	500	460
10/14/2019	4	258	480	460
10/14/2019	5	261	520	460
10/14/2019	6	263	530	460
10/14/2019	7	269	550	480
10/14/2019	8	319	647	630
10/14/2019	9	379	647	630
10/14/2019	10	402	647	630
10/14/2019	11	413	647	630
10/14/2019	12	403	647	630
10/14/2019	13	405	647	630
10/14/2019	14	417	647	630
10/14/2019	15	415	630	626
10/14/2019	16	410	640	630
10/14/2019	17	388	647	630
10/14/2019	18	389	647	630
10/14/2019	19	393	647	630
10/14/2019	20	388	647	630
10/14/2019	21	382	647	630
10/14/2019	22	371	630	562
10/14/2019	23	346	630	500
10/14/2019	24	323	580	490
10/15/2019	1	310	647	460
10/15/2019	2	301	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/15/2019	3	291	570	460
10/15/2019	4	286	480	460
10/15/2019	5	292	520	460
10/15/2019	6	294	530	460
10/15/2019	7	303	610	460
10/15/2019	8	335	647	460
10/15/2019	9	371	647	460
10/15/2019	10	395	647	460
10/15/2019	11	405	647	460
10/15/2019	12	399	647	460
10/15/2019	13	398	647	460
10/15/2019	14	412	647	460
10/15/2019	15	409	626	460
10/15/2019	16	406	640	460
10/15/2019	17	388	647	460
10/15/2019	18	392	647	460
10/15/2019	19	392	647	460
10/15/2019	20	386	647	460
10/15/2019	21	383	647	460
10/15/2019	22	368	647	460
10/15/2019	23	349	647	460
10/15/2019	24	334	647	460
10/16/2019	1	301	647	460
10/16/2019	2	292	647	460
10/16/2019	3	284	565	460
10/16/2019	4	279	477	460
10/16/2019	5	286	578	460
10/16/2019	6	292	578	460
10/16/2019	7	296	608	460
10/16/2019	8	335	647	460
10/16/2019	9	368	647	460
10/16/2019	10	391	647	460
10/16/2019	11	404	647	460
10/16/2019	12	396	615	460
10/16/2019	13	395	583	460
10/16/2019	14	411	647	460
10/16/2019	15	406	624	460
10/16/2019	16	397	580	460
10/16/2019	17	380	500	460
10/16/2019	18	382	486	460
10/16/2019	19	378	550	460
10/16/2019	20	372	510	460
10/16/2019	21	362	500	460
10/16/2019	22	346	480	460
10/16/2019	23	330	460	460
10/16/2019	24	313	460	420
10/17/2019	1	311	590	460
10/17/2019	2	302	560	460
10/17/2019	3	292	520	460
10/17/2019	4	288	460	458
10/17/2019	5	294	550	460
10/17/2019	6	296	560	460
10/17/2019	7	296	570	460
10/17/2019	8	338	570	460
10/17/2019	9	369	580	460
10/17/2019	10	396	647	460
10/17/2019	11	408	647	460
10/17/2019	12	398	612	460
10/17/2019	13	401	647	460
10/17/2019	14	415	647	460
10/17/2019	15	411	647	460
10/17/2019	16	407	647	460
10/17/2019	17	389	647	460
10/17/2019	18	391	500	460
10/17/2019	19	393	580	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/17/2019	20	388	550	460
10/17/2019	21	384	529	460
10/17/2019	22	371	545	460
10/17/2019	23	348	460	450
10/17/2019	24	333	460	440
10/18/2019	1	325	590	460
10/18/2019	2	308	520	460
10/18/2019	3	293	490	460
10/18/2019	4	288	460	450
10/18/2019	5	291	480	460
10/18/2019	6	295	520	460
10/18/2019	7	309	510	460
10/18/2019	8	345	570	460
10/18/2019	9	375	647	460
10/18/2019	10	397	647	460
10/18/2019	11	407	647	460
10/18/2019	12	401	612	460
10/18/2019	13	402	647	460
10/18/2019	14	413	647	460
10/18/2019	15	405	647	460
10/18/2019	16	399	647	460
10/18/2019	17	383	647	460
10/18/2019	18	387	500	460
10/18/2019	19	388	580	460
10/18/2019	20	383	538	460
10/18/2019	21	377	528	460
10/18/2019	22	362	525	460
10/18/2019	23	352	519	460
10/18/2019	24	334	476	460
10/19/2019	1	323	590	455
10/19/2019	2	318	590	455
10/19/2019	3	308	539	455
10/19/2019	4	300	475	455
10/19/2019	5	301	517	455
10/19/2019	6	296	514	455
10/19/2019	7	295	554	455
10/19/2019	8	322	564	455
10/19/2019	9	354	580	455
10/19/2019	10	378	647	455
10/19/2019	11	389	647	460
10/19/2019	12	384	600	460
10/19/2019	13	382	600	460
10/19/2019	14	392	647	460
10/19/2019	15	386	600	460
10/19/2019	16	376	600	460
10/19/2019	17	362	550	460
10/19/2019	18	366	500	460
10/19/2019	19	370	573	460
10/19/2019	20	367	553	460
10/19/2019	21	364	550	460
10/19/2019	22	359	500	460
10/19/2019	23	343	460	455
10/19/2019	24	326	460	455
10/20/2019	1	288	554	460
10/20/2019	2	277	500	460
10/20/2019	3	270	480	460
10/20/2019	4	260	460	420
10/20/2019	5	258	460	450
10/20/2019	6	258	480	460
10/20/2019	7	263	490	460
10/20/2019	8	279	500	460
10/20/2019	9	297	525	460
10/20/2019	10	314	550	460
10/20/2019	11	325	608	460
10/20/2019	12	324	576	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/20/2019	13	326	629	460
10/20/2019	14	333	647	460
10/20/2019	15	332	647	460
10/20/2019	16	320	550	460
10/20/2019	17	312	504	460
10/20/2019	18	312	500	460
10/20/2019	19	333	647	550
10/20/2019	20	332	647	500
10/20/2019	21	326	592	500
10/20/2019	22	312	520	460
10/20/2019	23	299	460	420
10/20/2019	24	283	460	420
10/21/2019	1	288	567	460
10/21/2019	2	272	550	460
10/21/2019	3	262	500	460
10/21/2019	4	258	460	420
10/21/2019	5	261	466	460
10/21/2019	6	263	480	460
10/21/2019	7	269	460	460
10/21/2019	8	319	605	460
10/21/2019	9	376	647	460
10/21/2019	10	398	647	460
10/21/2019	11	409	647	460
10/21/2019	12	400	647	460
10/21/2019	13	401	647	460
10/21/2019	14	414	647	460
10/21/2019	15	411	647	460
10/21/2019	16	406	580	460
10/21/2019	17	385	520	460
10/21/2019	18	385	530	460
10/21/2019	19	390	647	460
10/21/2019	20	384	647	460
10/21/2019	21	378	580	460
10/21/2019	22	367	574	460
10/21/2019	23	342	550	460
10/21/2019	24	320	498	460
10/22/2019	1	318	617	460
10/22/2019	2	303	601	460
10/22/2019	3	281	500	460
10/22/2019	4	275	460	420
10/22/2019	5	281	466	460
10/22/2019	6	285	480	460
10/22/2019	7	285	460	460
10/22/2019	8	340	605	460
10/22/2019	9	384	647	460
10/22/2019	10	407	647	460
10/22/2019	11	417	647	460
10/22/2019	12	411	647	460
10/22/2019	13	413	647	460
10/22/2019	14	428	647	460
10/22/2019	15	422	647	460
10/22/2019	16	416	580	460
10/22/2019	17	399	460	449
10/22/2019	18	401	548	460
10/22/2019	19	402	558	460
10/22/2019	20	397	636	460
10/22/2019	21	392	550	460
10/22/2019	22	376	500	460
10/22/2019	23	350	464	460
10/22/2019	24	327	460	450
10/23/2019	1	318	647	460
10/23/2019	2	306	647	460
10/23/2019	3	299	647	460
10/23/2019	4	292	647	460
10/23/2019	5	296	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/23/2019	6	300	647	460
10/23/2019	7	306	647	460
10/23/2019	8	345	647	460
10/23/2019	9	380	647	460
10/23/2019	10	402	647	460
10/23/2019	11	416	647	460
10/23/2019	12	409	647	460
10/23/2019	13	411	647	460
10/23/2019	14	421	647	460
10/23/2019	15	411	647	460
10/23/2019	16	394	580	460
10/23/2019	17	378	533	460
10/23/2019	18	384	578	460
10/23/2019	19	378	647	460
10/23/2019	20	372	647	460
10/23/2019	21	366	550	460
10/23/2019	22	348	500	460
10/23/2019	23	331	480	460
10/23/2019	24	315	460	450
10/24/2019	1	317	590	460
10/24/2019	2	307	580	460
10/24/2019	3	298	550	460
10/24/2019	4	293	504	460
10/24/2019	5	296	505	460
10/24/2019	6	297	509	460
10/24/2019	7	305	539	460
10/24/2019	8	342	556	460
10/24/2019	9	379	647	460
10/24/2019	10	403	647	460
10/24/2019	11	416	647	460
10/24/2019	12	408	647	460
10/24/2019	13	408	647	460
10/24/2019	14	425	647	460
10/24/2019	15	418	647	460
10/24/2019	16	412	647	460
10/24/2019	17	394	524	460
10/24/2019	18	403	640	460
10/24/2019	19	396	647	460
10/24/2019	20	393	535	460
10/24/2019	21	385	525	460
10/24/2019	22	369	507	460
10/24/2019	23	352	465	460
10/24/2019	24	335	460	438
10/25/2019	1	325	647	460
10/25/2019	2	313	600	460
10/25/2019	3	304	580	460
10/25/2019	4	299	520	460
10/25/2019	5	303	540	460
10/25/2019	6	307	550	460
10/25/2019	7	311	580	460
10/25/2019	8	350	647	460
10/25/2019	9	386	647	460
10/25/2019	10	408	647	460
10/25/2019	11	420	647	460
10/25/2019	12	413	647	460
10/25/2019	13	415	647	460
10/25/2019	14	429	647	460
10/25/2019	15	425	647	460
10/25/2019	16	419	647	460
10/25/2019	17	400	647	460
10/25/2019	18	406	647	460
10/25/2019	19	401	647	460
10/25/2019	20	396	572	460
10/25/2019	21	389	543	460
10/25/2019	22	376	534	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/25/2019	23	359	520	460
10/25/2019	24	343	460	430
10/26/2019	1	323	600	460
10/26/2019	2	307	600	460
10/26/2019	3	299	580	460
10/26/2019	4	290	520	460
10/26/2019	5	289	540	460
10/26/2019	6	284	550	460
10/26/2019	7	286	602	460
10/26/2019	8	317	605	460
10/26/2019	9	351	647	460
10/26/2019	10	377	647	460
10/26/2019	11	388	647	460
10/26/2019	12	383	624	460
10/26/2019	13	381	600	460
10/26/2019	14	392	647	460
10/26/2019	15	388	647	460
10/26/2019	16	378	600	460
10/26/2019	17	363	600	460
10/26/2019	18	372	600	460
10/26/2019	19	377	647	460
10/26/2019	20	376	647	460
10/26/2019	21	373	647	460
10/26/2019	22	363	647	460
10/26/2019	23	343	540	460
10/26/2019	24	324	540	460
10/27/2019	1	294	570	460
10/27/2019	2	282	534	460
10/27/2019	3	276	520	460
10/27/2019	4	265	472	460
10/27/2019	5	264	470	460
10/27/2019	6	260	460	420
10/27/2019	7	268	460	435
10/27/2019	8	288	520	460
10/27/2019	9	314	530	460
10/27/2019	10	331	550	460
10/27/2019	11	342	576	460
10/27/2019	12	341	565	460
10/27/2019	13	343	570	460
10/27/2019	14	349	647	460
10/27/2019	15	349	647	460
10/27/2019	16	337	569	460
10/27/2019	17	329	550	460
10/27/2019	18	350	647	460
10/27/2019	19	350	647	460
10/27/2019	20	349	647	460
10/27/2019	21	343	607	460
10/27/2019	22	329	500	460
10/27/2019	23	316	460	450
10/27/2019	24	300	460	420
10/28/2019	1	288	560	460
10/28/2019	2	272	520	460
10/28/2019	3	262	500	460
10/28/2019	4	258	460	460
10/28/2019	5	261	470	460
10/28/2019	6	263	480	460
10/28/2019	7	269	490	460
10/28/2019	8	319	576	460
10/28/2019	9	365	629	460
10/28/2019	10	396	647	460
10/28/2019	11	406	647	460
10/28/2019	12	400	580	460
10/28/2019	13	402	563	460
10/28/2019	14	415	647	460
10/28/2019	15	409	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/28/2019	16	405	647	460
10/28/2019	17	386	550	460
10/28/2019	18	389	647	460
10/28/2019	19	390	647	460
10/28/2019	20	385	647	460
10/28/2019	21	379	647	460
10/28/2019	22	363	647	460
10/28/2019	23	344	460	460
10/28/2019	24	328	460	455
10/29/2019	1	308	590	460
10/29/2019	2	298	550	460
10/29/2019	3	289	510	460
10/29/2019	4	284	470	460
10/29/2019	5	289	480	460
10/29/2019	6	291	470	460
10/29/2019	7	295	549	460
10/29/2019	8	331	576	460
10/29/2019	9	368	580	460
10/29/2019	10	390	590	460
10/29/2019	11	398	600	460
10/29/2019	12	393	550	460
10/29/2019	13	394	520	460
10/29/2019	14	409	647	460
10/29/2019	15	406	647	460
10/29/2019	16	403	647	460
10/29/2019	17	385	647	460
10/29/2019	18	389	647	460
10/29/2019	19	388	647	460
10/29/2019	20	383	590	460
10/29/2019	21	379	580	460
10/29/2019	22	365	523	460
10/29/2019	23	347	520	460
10/29/2019	24	331	460	455
10/30/2019	1	309	590	460
10/30/2019	2	301	550	460
10/30/2019	3	291	510	460
10/30/2019	4	286	490	460
10/30/2019	5	292	480	460
10/30/2019	6	293	519	460
10/30/2019	7	298	558	460
10/30/2019	8	334	590	460
10/30/2019	9	371	600	460
10/30/2019	10	389	601	460
10/30/2019	11	400	610	460
10/30/2019	12	393	563	460
10/30/2019	13	396	560	460
10/30/2019	14	407	647	460
10/30/2019	15	403	647	460
10/30/2019	16	397	615	460
10/30/2019	17	380	580	460
10/30/2019	18	385	590	460
10/30/2019	19	382	580	460
10/30/2019	20	378	550	460
10/30/2019	21	369	550	460
10/30/2019	22	356	550	460
10/30/2019	23	341	550	460
10/30/2019	24	325	550	460
10/31/2019	1	300	580	460
10/31/2019	2	290	550	460
10/31/2019	3	281	547	460
10/31/2019	4	276	460	455
10/31/2019	5	281	480	460
10/31/2019	6	283	500	460
10/31/2019	7	287	520	460
10/31/2019	8	323	550	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/31/2019	9	354	570	460
10/31/2019	10	376	580	460
10/31/2019	11	384	590	460
10/31/2019	12	379	520	460
10/31/2019	13	379	500	460
10/31/2019	14	395	592	460
10/31/2019	15	391	580	460
10/31/2019	16	389	550	460
10/31/2019	17	371	500	460
10/31/2019	18	375	510	460
10/31/2019	19	374	530	460
10/31/2019	20	369	500	460
10/31/2019	21	365	480	460
10/31/2019	22	350	460	455
10/31/2019	23	333	460	455
10/31/2019	24	316	460	455
11/1/2019	1	284	570	460
11/1/2019	2	273	550	460
11/1/2019	3	266	530	460
11/1/2019	4	256	480	460
11/1/2019	5	254	480	460
11/1/2019	6	254	500	460
11/1/2019	7	259	500	460
11/1/2019	8	275	510	460
11/1/2019	9	286	540	460
11/1/2019	10	303	550	460
11/1/2019	11	314	550	460
11/1/2019	12	313	465	460
11/1/2019	13	315	460	455
11/1/2019	14	321	550	460
11/1/2019	15	320	500	460
11/1/2019	16	309	480	460
11/1/2019	17	300	460	455
11/1/2019	18	300	460	455
11/1/2019	19	322	500	460
11/1/2019	20	321	480	460
11/1/2019	21	314	470	460
11/1/2019	22	301	467	460
11/1/2019	23	287	460	460
11/1/2019	24	271	460	455
11/2/2019	1	288	570	455
11/2/2019	2	278	550	455
11/2/2019	3	268	530	455
11/2/2019	4	260	500	455
11/2/2019	5	258	509	455
11/2/2019	6	255	475	455
11/2/2019	7	244	455	450
11/2/2019	8	260	455	450
11/2/2019	9	286	500	455
11/2/2019	10	312	550	455
11/2/2019	11	322	550	455
11/2/2019	12	324	501	455
11/2/2019	13	326	501	455
11/2/2019	14	333	550	455
11/2/2019	15	329	517	455
11/2/2019	16	325	525	455
11/2/2019	17	317	500	455
11/2/2019	18	341	550	460
11/2/2019	19	342	550	460
11/2/2019	20	344	550	460
11/2/2019	21	340	500	460
11/2/2019	22	329	500	460
11/2/2019	23	314	500	455
11/2/2019	24	301	500	455
11/3/2019	1	288	590	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/3/2019	2	277	570	460
11/3/2019	3	270	550	460
11/3/2019	4	259	480	460
11/3/2019	5	258	460	455
11/3/2019	6	258	460	455
11/3/2019	7	262	472	460
11/3/2019	8	278	598	460
11/3/2019	9	297	626	460
11/3/2019	10	314	647	460
11/3/2019	11	324	647	460
11/3/2019	12	324	545	460
11/3/2019	13	325	592	460
11/3/2019	14	332	647	460
11/3/2019	15	331	647	460
11/3/2019	16	320	622	460
11/3/2019	17	311	550	460
11/3/2019	18	311	540	460
11/3/2019	19	332	647	460
11/3/2019	20	332	647	460
11/3/2019	21	325	585	460
11/3/2019	22	312	500	460
11/3/2019	23	298	460	455
11/3/2019	24	282	460	455
11/4/2019	1	285	580	460
11/4/2019	2	264	520	460
11/4/2019	3	255	480	460
11/4/2019	4	254	460	455
11/4/2019	5	254	460	455
11/4/2019	6	255	460	455
11/4/2019	7	271	472	460
11/4/2019	8	326	580	460
11/4/2019	9	364	647	460
11/4/2019	10	389	647	460
11/4/2019	11	400	647	460
11/4/2019	12	393	647	460
11/4/2019	13	396	647	460
11/4/2019	14	408	647	460
11/4/2019	15	403	647	460
11/4/2019	16	397	647	460
11/4/2019	17	380	647	460
11/4/2019	18	385	647	460
11/4/2019	19	382	647	460
11/4/2019	20	378	647	460
11/4/2019	21	369	647	460
11/4/2019	22	356	647	460
11/4/2019	23	341	555	460
11/4/2019	24	325	460	455
11/5/2019	1	302	460	455
11/5/2019	2	291	460	455
11/5/2019	3	283	460	455
11/5/2019	4	279	460	455
11/5/2019	5	284	460	455
11/5/2019	6	288	460	455
11/5/2019	7	293	469	460
11/5/2019	8	330	580	460
11/5/2019	9	367	647	460
11/5/2019	10	387	647	460
11/5/2019	11	401	647	460
11/5/2019	12	394	647	460
11/5/2019	13	394	647	460
11/5/2019	14	408	647	460
11/5/2019	15	402	647	460
11/5/2019	16	396	647	460
11/5/2019	17	380	647	460
11/5/2019	18	392	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/5/2019	19	384	647	460
11/5/2019	20	379	647	460
11/5/2019	21	369	580	460
11/5/2019	22	353	550	460
11/5/2019	23	333	500	460
11/5/2019	24	315	460	455
11/6/2019	1	317	647	460
11/6/2019	2	304	575	460
11/6/2019	3	295	500	460
11/6/2019	4	289	480	460
11/6/2019	5	294	500	460
11/6/2019	6	296	550	460
11/6/2019	7	296	570	460
11/6/2019	8	339	590	460
11/6/2019	9	375	647	460
11/6/2019	10	394	647	460
11/6/2019	11	406	647	460
11/6/2019	12	399	647	460
11/6/2019	13	399	647	460
11/6/2019	14	411	647	460
11/6/2019	15	408	647	460
11/6/2019	16	403	647	460
11/6/2019	17	385	647	460
11/6/2019	18	389	647	460
11/6/2019	19	386	647	460
11/6/2019	20	381	609	460
11/6/2019	21	375	573	460
11/6/2019	22	361	510	460
11/6/2019	23	343	506	460
11/6/2019	24	325	460	455
11/7/2019	1	308	647	460
11/7/2019	2	298	647	460
11/7/2019	3	290	575	460
11/7/2019	4	285	480	460
11/7/2019	5	289	520	460
11/7/2019	6	291	550	460
11/7/2019	7	305	590	460
11/7/2019	8	333	590	460
11/7/2019	9	365	647	460
11/7/2019	10	388	647	460
11/7/2019	11	402	647	460
11/7/2019	12	393	647	460
11/7/2019	13	394	647	460
11/7/2019	14	409	647	460
11/7/2019	15	402	647	460
11/7/2019	16	398	647	460
11/7/2019	17	381	617	460
11/7/2019	18	386	647	460
11/7/2019	19	383	647	460
11/7/2019	20	378	580	460
11/7/2019	21	374	526	460
11/7/2019	22	361	500	460
11/7/2019	23	341	480	460
11/7/2019	24	325	460	455
11/8/2019	1	309	647	460
11/8/2019	2	295	647	460
11/8/2019	3	290	500	460
11/8/2019	4	283	500	460
11/8/2019	5	281	496	460
11/8/2019	6	280	500	460
11/8/2019	7	286	500	460
11/8/2019	8	313	500	460
11/8/2019	9	343	600	460
11/8/2019	10	366	647	460
11/8/2019	11	378	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/8/2019	12	369	647	460
11/8/2019	13	367	647	460
11/8/2019	14	377	647	460
11/8/2019	15	372	647	460
11/8/2019	16	362	550	460
11/8/2019	17	348	500	460
11/8/2019	18	358	589	460
11/8/2019	19	361	647	460
11/8/2019	20	359	647	460
11/8/2019	21	357	637	460
11/8/2019	22	346	545	460
11/8/2019	23	330	536	460
11/8/2019	24	315	485	460
11/9/2019	1	309	647	460
11/9/2019	2	295	647	460
11/9/2019	3	290	500	460
11/9/2019	4	283	500	460
11/9/2019	5	281	496	460
11/9/2019	6	280	500	460
11/9/2019	7	286	500	460
11/9/2019	8	313	500	460
11/9/2019	9	343	600	460
11/9/2019	10	366	647	460
11/9/2019	11	378	647	460
11/9/2019	12	369	647	460
11/9/2019	13	367	647	460
11/9/2019	14	377	647	460
11/9/2019	15	372	647	460
11/9/2019	16	362	550	460
11/9/2019	17	348	500	460
11/9/2019	18	358	589	460
11/9/2019	19	361	647	460
11/9/2019	20	359	647	460
11/9/2019	21	357	637	460
11/9/2019	22	346	545	460
11/9/2019	23	330	536	460
11/9/2019	24	315	485	460
11/10/2019	1	292	647	460
11/10/2019	2	281	580	460
11/10/2019	3	274	550	460
11/10/2019	4	263	460	455
11/10/2019	5	262	460	455
11/10/2019	6	262	460	455
11/10/2019	7	266	460	455
11/10/2019	8	282	498	460
11/10/2019	9	306	570	460
11/10/2019	10	323	580	460
11/10/2019	11	333	590	460
11/10/2019	12	333	580	460
11/10/2019	13	330	550	460
11/10/2019	14	337	590	460
11/10/2019	15	336	580	460
11/10/2019	16	325	500	460
11/10/2019	17	316	480	460
11/10/2019	18	341	580	460
11/10/2019	19	341	647	460
11/10/2019	20	341	647	460
11/10/2019	21	334	580	460
11/10/2019	22	321	469	460
11/10/2019	23	307	460	457
11/10/2019	24	291	460	455
11/11/2019	1	288	550	460
11/11/2019	2	277	500	460
11/11/2019	3	270	460	460
11/11/2019	4	259	460	455

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/11/2019	5	258	460	455
11/11/2019	6	258	460	455
11/11/2019	7	262	460	455
11/11/2019	8	310	470	460
11/11/2019	9	353	538	460
11/11/2019	10	382	612	460
11/11/2019	11	397	647	460
11/11/2019	12	388	647	460
11/11/2019	13	388	647	460
11/11/2019	14	401	647	460
11/11/2019	15	395	647	460
11/11/2019	16	390	647	460
11/11/2019	17	374	575	460
11/11/2019	18	381	647	460
11/11/2019	19	375	647	460
11/11/2019	20	370	647	460
11/11/2019	21	364	616	460
11/11/2019	22	349	544	460
11/11/2019	23	334	500	460
11/11/2019	24	317	480	460
11/12/2019	1	300	580	460
11/12/2019	2	291	550	460
11/12/2019	3	281	460	456
11/12/2019	4	278	460	455
11/12/2019	5	283	460	455
11/12/2019	6	288	500	460
11/12/2019	7	293	570	460
11/12/2019	8	329	597	460
11/12/2019	9	365	647	460
11/12/2019	10	385	647	460
11/12/2019	11	398	647	460
11/12/2019	12	389	647	460
11/12/2019	13	387	647	460
11/12/2019	14	401	647	460
11/12/2019	15	395	647	460
11/12/2019	16	392	647	460
11/12/2019	17	377	596	460
11/12/2019	18	389	647	460
11/12/2019	19	380	647	460
11/12/2019	20	375	647	460
11/12/2019	21	365	580	460
11/12/2019	22	344	550	460
11/12/2019	23	327	460	455
11/12/2019	24	310	460	455
11/13/2019	1	301	647	460
11/13/2019	2	293	617	460
11/13/2019	3	282	550	460
11/13/2019	4	277	500	460
11/13/2019	5	280	550	460
11/13/2019	6	282	580	460
11/13/2019	7	289	647	460
11/13/2019	8	325	647	460
11/13/2019	9	361	647	460
11/13/2019	10	382	647	460
11/13/2019	11	392	647	460
11/13/2019	12	386	647	460
11/13/2019	13	390	647	460
11/13/2019	14	402	647	460
11/13/2019	15	398	647	460
11/13/2019	16	393	647	460
11/13/2019	17	377	550	460
11/13/2019	18	380	647	460
11/13/2019	19	376	647	460
11/13/2019	20	372	647	460
11/13/2019	21	365	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/13/2019	22	352	647	460
11/13/2019	23	337	578	460
11/13/2019	24	320	504	460
11/14/2019	1	289	647	460
11/14/2019	2	282	617	460
11/14/2019	3	271	569	460
11/14/2019	4	269	500	460
11/14/2019	5	273	550	460
11/14/2019	6	275	580	460
11/14/2019	7	280	647	460
11/14/2019	8	312	647	460
11/14/2019	9	344	647	460
11/14/2019	10	366	647	460
11/14/2019	11	378	647	460
11/14/2019	12	370	647	460
11/14/2019	13	370	647	460
11/14/2019	14	382	647	460
11/14/2019	15	376	647	460
11/14/2019	16	371	647	460
11/14/2019	17	355	550	460
11/14/2019	18	362	647	460
11/14/2019	19	358	647	460
11/14/2019	20	356	600	460
11/14/2019	21	350	600	460
11/14/2019	22	337	550	460
11/14/2019	23	319	550	460
11/14/2019	24	304	550	460
11/15/2019	1	293	580	460
11/15/2019	2	285	536	460
11/15/2019	3	274	500	460
11/15/2019	4	272	460	455
11/15/2019	5	280	476	460
11/15/2019	6	287	550	460
11/15/2019	7	291	580	460
11/15/2019	8	328	647	460
11/15/2019	9	365	647	460
11/15/2019	10	391	647	460
11/15/2019	11	401	647	460
11/15/2019	12	392	580	460
11/15/2019	13	389	580	460
11/15/2019	14	404	647	499
11/15/2019	15	394	647	460
11/15/2019	16	390	580	460
11/15/2019	17	379	520	460
11/15/2019	18	386	547	460
11/15/2019	19	374	520	460
11/15/2019	20	366	480	460
11/15/2019	21	358	464	460
11/15/2019	22	345	460	455
11/15/2019	23	327	460	455
11/15/2019	24	313	460	455
11/16/2019	1	294	580	460
11/16/2019	2	284	550	460
11/16/2019	3	277	525	460
11/16/2019	4	270	480	460
11/16/2019	5	269	500	460
11/16/2019	6	266	500	460
11/16/2019	7	270	500	460
11/16/2019	8	297	550	460
11/16/2019	9	326	612	460
11/16/2019	10	349	647	460
11/16/2019	11	360	647	460
11/16/2019	12	355	647	460
11/16/2019	13	355	633	460
11/16/2019	14	364	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/16/2019	15	359	647	460
11/16/2019	16	350	600	460
11/16/2019	17	336	550	460
11/16/2019	18	347	616	460
11/16/2019	19	346	615	460
11/16/2019	20	342	570	460
11/16/2019	21	340	570	460
11/16/2019	22	328	550	460
11/16/2019	23	315	550	460
11/16/2019	24	299	530	460
11/17/2019	1	288	580	460
11/17/2019	2	277	522	460
11/17/2019	3	270	480	460
11/17/2019	4	263	460	455
11/17/2019	5	262	467	460
11/17/2019	6	262	482	460
11/17/2019	7	266	520	460
11/17/2019	8	282	580	460
11/17/2019	9	294	600	460
11/17/2019	10	311	647	460
11/17/2019	11	322	647	460
11/17/2019	12	321	647	460
11/17/2019	13	319	561	460
11/17/2019	14	325	647	460
11/17/2019	15	324	647	460
11/17/2019	16	313	550	460
11/17/2019	17	305	540	460
11/17/2019	18	329	607	460
11/17/2019	19	330	647	460
11/17/2019	20	329	647	460
11/17/2019	21	323	579	460
11/17/2019	22	309	460	455
11/17/2019	23	296	460	455
11/17/2019	24	280	460	455
11/18/2019	1	281	560	460
11/18/2019	2	264	500	460
11/18/2019	3	255	460	455
11/18/2019	4	254	460	455
11/18/2019	5	254	460	455
11/18/2019	6	255	460	455
11/18/2019	7	271	460	455
11/18/2019	8	326	580	460
11/18/2019	9	353	600	460
11/18/2019	10	378	647	494
11/18/2019	11	389	647	498
11/18/2019	12	382	500	460
11/18/2019	13	385	500	460
11/18/2019	14	397	647	460
11/18/2019	15	392	647	460
11/18/2019	16	387	550	460
11/18/2019	17	369	500	460
11/18/2019	18	374	607	460
11/18/2019	19	371	647	460
11/18/2019	20	367	627	460
11/18/2019	21	358	579	460
11/18/2019	22	345	478	460
11/18/2019	23	331	460	455
11/18/2019	24	314	460	455
11/19/2019	1	308	588	460
11/19/2019	2	298	550	460
11/19/2019	3	290	500	460
11/19/2019	4	286	460	455
11/19/2019	5	291	480	460
11/19/2019	6	295	500	460
11/19/2019	7	301	490	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/19/2019	8	335	647	460
11/19/2019	9	370	647	460
11/19/2019	10	390	647	460
11/19/2019	11	404	647	460
11/19/2019	12	396	647	460
11/19/2019	13	395	647	460
11/19/2019	14	409	647	460
11/19/2019	15	402	647	460
11/19/2019	16	399	647	460
11/19/2019	17	384	647	460
11/19/2019	18	394	647	460
11/19/2019	19	385	647	460
11/19/2019	20	380	647	460
11/19/2019	21	372	647	460
11/19/2019	22	354	478	460
11/19/2019	23	336	460	455
11/19/2019	24	319	460	455
11/20/2019	1	315	560	460
11/20/2019	2	296	499	460
11/20/2019	3	288	460	455
11/20/2019	4	284	460	455
11/20/2019	5	287	460	455
11/20/2019	6	292	480	460
11/20/2019	7	293	490	460
11/20/2019	8	318	500	460
11/20/2019	9	353	552	460
11/20/2019	10	373	560	460
11/20/2019	11	385	580	460
11/20/2019	12	381	550	460
11/20/2019	13	379	520	460
11/20/2019	14	389	580	460
11/20/2019	15	384	557	460
11/20/2019	16	380	518	460
11/20/2019	17	367	500	460
11/20/2019	18	378	580	460
11/20/2019	19	369	550	460
11/20/2019	20	361	515	460
11/20/2019	21	353	511	460
11/20/2019	22	338	460	455
11/20/2019	23	323	460	455
11/20/2019	24	306	460	455
11/21/2019	1	306	570	540
11/21/2019	2	298	560	460
11/21/2019	3	289	480	460
11/21/2019	4	286	460	455
11/21/2019	5	292	500	470
11/21/2019	6	298	550	550
11/21/2019	7	300	491	490
11/21/2019	8	334	517	500
11/21/2019	9	368	578	550
11/21/2019	10	387	583	500
11/21/2019	11	399	647	647
11/21/2019	12	392	600	533
11/21/2019	13	391	570	500
11/21/2019	14	406	647	647
11/21/2019	15	399	630	624
11/21/2019	16	395	572	550
11/21/2019	17	384	500	460
11/21/2019	18	397	600	579
11/21/2019	19	387	600	503
11/21/2019	20	382	500	488
11/21/2019	21	375	480	460
11/21/2019	22	358	460	455
11/21/2019	23	341	460	458
11/21/2019	24	324	460	455

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/22/2019	1	306	570	540
11/22/2019	2	298	560	460
11/22/2019	3	289	480	460
11/22/2019	4	286	460	455
11/22/2019	5	292	500	470
11/22/2019	6	298	550	550
11/22/2019	7	300	491	490
11/22/2019	8	334	517	500
11/22/2019	9	368	578	550
11/22/2019	10	387	583	500
11/22/2019	11	399	647	647
11/22/2019	12	392	600	533
11/22/2019	13	391	570	500
11/22/2019	14	406	647	647
11/22/2019	15	399	630	624
11/22/2019	16	395	572	550
11/22/2019	17	384	500	460
11/22/2019	18	397	600	579
11/22/2019	19	387	600	503
11/22/2019	20	382	500	488
11/22/2019	21	375	480	460
11/22/2019	22	358	460	455
11/22/2019	23	341	460	458
11/22/2019	24	324	460	455
11/23/2019	1	308	578	460
11/23/2019	2	296	475	460
11/23/2019	3	290	460	458
11/23/2019	4	284	460	455
11/23/2019	5	283	460	455
11/23/2019	6	284	480	460
11/23/2019	7	281	460	455
11/23/2019	8	309	480	460
11/23/2019	9	337	550	460
11/23/2019	10	359	600	460
11/23/2019	11	370	647	460
11/23/2019	12	362	600	460
11/23/2019	13	363	600	460
11/23/2019	14	374	647	460
11/23/2019	15	373	647	460
11/23/2019	16	365	600	460
11/23/2019	17	353	600	460
11/23/2019	18	373	647	460
11/23/2019	19	369	647	460
11/23/2019	20	366	647	460
11/23/2019	21	363	647	460
11/23/2019	22	348	600	460
11/23/2019	23	331	550	460
11/23/2019	24	318	500	460
11/24/2019	1	292	550	460
11/24/2019	2	281	460	455
11/24/2019	3	274	460	455
11/24/2019	4	263	460	455
11/24/2019	5	262	460	455
11/24/2019	6	262	460	455
11/24/2019	7	266	460	455
11/24/2019	8	282	480	460
11/24/2019	9	315	550	460
11/24/2019	10	331	550	460
11/24/2019	11	342	565	460
11/24/2019	12	341	519	460
11/24/2019	13	339	485	460
11/24/2019	14	346	550	460
11/24/2019	15	345	550	460
11/24/2019	16	334	520	460
11/24/2019	17	325	566	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/24/2019	18	350	647	460
11/24/2019	19	349	647	460
11/24/2019	20	349	647	460
11/24/2019	21	343	625	460
11/24/2019	22	329	533	460
11/24/2019	23	316	463	460
11/24/2019	24	300	460	455
11/25/2019	1	283	552	460
11/25/2019	2	266	460	455
11/25/2019	3	257	460	455
11/25/2019	4	256	460	455
11/25/2019	5	256	460	455
11/25/2019	6	257	460	455
11/25/2019	7	273	460	455
11/25/2019	8	328	480	460
11/25/2019	9	363	607	460
11/25/2019	10	387	647	460
11/25/2019	11	398	647	460
11/25/2019	12	391	647	460
11/25/2019	13	394	647	460
11/25/2019	14	406	647	460
11/25/2019	15	401	647	460
11/25/2019	16	396	647	460
11/25/2019	17	378	550	460
11/25/2019	18	383	590	460
11/25/2019	19	380	570	460
11/25/2019	20	376	540	460
11/25/2019	21	367	510	460
11/25/2019	22	354	500	460
11/25/2019	23	340	480	460
11/25/2019	24	323	460	455
11/26/2019	1	313	647	455
11/26/2019	2	301	647	455
11/26/2019	3	292	647	455
11/26/2019	4	289	647	455
11/26/2019	5	293	647	455
11/26/2019	6	297	647	455
11/26/2019	7	290	600	455
11/26/2019	8	322	580	455
11/26/2019	9	361	647	455
11/26/2019	10	379	647	455
11/26/2019	11	395	647	455
11/26/2019	12	386	647	455
11/26/2019	13	386	647	455
11/26/2019	14	401	647	455
11/26/2019	15	398	647	455
11/26/2019	16	394	647	455
11/26/2019	17	381	647	455
11/26/2019	18	396	647	455
11/26/2019	19	387	647	455
11/26/2019	20	382	647	455
11/26/2019	21	377	647	455
11/26/2019	22	359	647	455
11/26/2019	23	342	647	455
11/26/2019	24	324	563	455
11/27/2019	1	296	580	415
11/27/2019	2	277	510	415
11/27/2019	3	280	500	415
11/27/2019	4	276	480	415
11/27/2019	5	281	500	415
11/27/2019	6	284	510	415
11/27/2019	7	286	647	415
11/27/2019	8	320	647	415
11/27/2019	9	355	647	415
11/27/2019	10	375	647	415

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/27/2019	11	388	647	415
11/27/2019	12	379	647	415
11/27/2019	13	377	647	460
11/27/2019	14	391	647	460
11/27/2019	15	387	647	460
11/27/2019	16	380	647	460
11/27/2019	17	370	551	460
11/27/2019	18	381	647	460
11/27/2019	19	373	647	460
11/27/2019	20	369	647	460
11/27/2019	21	362	616	460
11/27/2019	22	344	560	460
11/27/2019	23	324	480	460
11/27/2019	24	308	460	450
11/28/2019	1	302	647	415
11/28/2019	2	293	647	415
11/28/2019	3	279	580	415
11/28/2019	4	280	570	415
11/28/2019	5	282	617	415
11/28/2019	6	286	647	415
11/28/2019	7	290	647	415
11/28/2019	8	324	647	415
11/28/2019	9	360	647	415
11/28/2019	10	379	647	415
11/28/2019	11	394	647	415
11/28/2019	12	385	647	415
11/28/2019	13	384	647	415
11/28/2019	14	397	647	415
11/28/2019	15	391	647	415
11/28/2019	16	386	647	415
11/28/2019	17	370	647	415
11/28/2019	18	379	647	415
11/28/2019	19	372	647	415
11/28/2019	20	366	647	415
11/28/2019	21	360	647	415
11/28/2019	22	346	647	415
11/28/2019	23	330	500	415
11/28/2019	24	313	437	415
11/29/2019	1	302	647	415
11/29/2019	2	293	647	415
11/29/2019	3	279	600	415
11/29/2019	4	280	570	415
11/29/2019	5	282	590	415
11/29/2019	6	286	600	415
11/29/2019	7	290	647	415
11/29/2019	8	324	647	415
11/29/2019	9	360	647	415
11/29/2019	10	379	647	415
11/29/2019	11	394	647	415
11/29/2019	12	385	647	415
11/29/2019	13	384	647	415
11/29/2019	14	397	647	415
11/29/2019	15	391	647	415
11/29/2019	16	386	647	415
11/29/2019	17	370	647	415
11/29/2019	18	379	647	415
11/29/2019	19	372	647	415
11/29/2019	20	366	647	415
11/29/2019	21	360	647	415
11/29/2019	22	346	647	415
11/29/2019	23	330	517	415
11/29/2019	24	313	437	415
11/30/2019	1	289	590	460
11/30/2019	2	280	500	422
11/30/2019	3	274	500	415

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/30/2019	4	267	500	415
11/30/2019	5	265	500	415
11/30/2019	6	261	450	415
11/30/2019	7	267	450	415
11/30/2019	8	285	450	415
11/30/2019	9	313	529	460
11/30/2019	10	334	600	460
11/30/2019	11	344	647	460
11/30/2019	12	336	500	460
11/30/2019	13	336	500	460
11/30/2019	14	343	600	460
11/30/2019	15	338	600	460
11/30/2019	16	331	586	460
11/30/2019	17	322	547	460
11/30/2019	18	343	647	460
11/30/2019	19	340	647	460
11/30/2019	20	338	647	460
11/30/2019	21	333	647	460
11/30/2019	22	321	542	460
11/30/2019	23	305	500	460
11/30/2019	24	290	475	460
12/1/2019	1	280	480	460
12/1/2019	2	269	460	450
12/1/2019	3	262	460	420
12/1/2019	4	255	460	415
12/1/2019	5	254	460	415
12/1/2019	6	254	460	415
12/1/2019	7	258	460	415
12/1/2019	8	274	460	415
12/1/2019	9	278	460	420
12/1/2019	10	287	460	431
12/1/2019	11	294	480	460
12/1/2019	12	293	460	450
12/1/2019	13	291	460	450
12/1/2019	14	297	468	460
12/1/2019	15	296	460	450
12/1/2019	16	285	460	450
12/1/2019	17	277	460	450
12/1/2019	18	302	526	460
12/1/2019	19	299	520	460
12/1/2019	20	297	500	460
12/1/2019	21	291	460	450
12/1/2019	22	281	460	415
12/1/2019	23	268	460	415
12/1/2019	24	252	460	415
12/2/2019	1	277	480	415
12/2/2019	2	260	450	415
12/2/2019	3	251	418	415
12/2/2019	4	250	415	377
12/2/2019	5	250	415	352
12/2/2019	6	251	415	340
12/2/2019	7	267	415	400
12/2/2019	8	286	420	415
12/2/2019	9	307	550	415
12/2/2019	10	325	647	415
12/2/2019	11	337	647	415
12/2/2019	12	334	647	415
12/2/2019	13	336	647	415
12/2/2019	14	349	647	415
12/2/2019	15	346	647	415
12/2/2019	16	342	647	415
12/2/2019	17	327	550	415
12/2/2019	18	342	647	415
12/2/2019	19	334	647	415
12/2/2019	20	328	536	415

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/2/2019	21	312	515	415
12/2/2019	22	299	450	415
12/2/2019	23	282	415	400
12/2/2019	24	270	415	380
12/3/2019	1	282	647	460
12/3/2019	2	273	580	460
12/3/2019	3	266	550	460
12/3/2019	4	263	520	460
12/3/2019	5	268	500	460
12/3/2019	6	279	580	460
12/3/2019	7	277	647	460
12/3/2019	8	306	647	460
12/3/2019	9	335	647	460
12/3/2019	10	351	647	460
12/3/2019	11	365	647	460
12/3/2019	12	357	647	460
12/3/2019	13	356	647	460
12/3/2019	14	368	647	460
12/3/2019	15	362	647	460
12/3/2019	16	361	647	460
12/3/2019	17	350	647	460
12/3/2019	18	363	647	460
12/3/2019	19	354	647	460
12/3/2019	20	348	647	460
12/3/2019	21	342	647	460
12/3/2019	22	325	647	460
12/3/2019	23	309	647	460
12/3/2019	24	293	554	460
12/4/2019	1	245	580	352
12/4/2019	2	251	647	352
12/4/2019	3	244	557	352
12/4/2019	4	241	493	352
12/4/2019	5	246	481	352
12/4/2019	6	252	550	352
12/4/2019	7	258	647	352
12/4/2019	8	286	647	352
12/4/2019	9	317	647	455
12/4/2019	10	335	647	460
12/4/2019	11	348	647	460
12/4/2019	12	340	647	460
12/4/2019	13	338	647	460
12/4/2019	14	349	647	460
12/4/2019	15	345	647	460
12/4/2019	16	340	647	460
12/4/2019	17	329	647	460
12/4/2019	18	348	647	460
12/4/2019	19	332	647	460
12/4/2019	20	326	647	460
12/4/2019	21	318	647	460
12/4/2019	22	303	647	460
12/4/2019	23	288	647	460
12/4/2019	24	272	497	460
12/5/2019	1	270	578	460
12/5/2019	2	255	550	460
12/5/2019	3	247	500	460
12/5/2019	4	246	478	460
12/5/2019	5	242	460	455
12/5/2019	6	249	510	460
12/5/2019	7	259	550	460
12/5/2019	8	284	580	460
12/5/2019	9	325	647	460
12/5/2019	10	351	647	460
12/5/2019	11	363	647	460
12/5/2019	12	355	647	460
12/5/2019	13	354	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/5/2019	14	365	647	460
12/5/2019	15	361	647	460
12/5/2019	16	356	647	460
12/5/2019	17	345	647	460
12/5/2019	18	364	647	460
12/5/2019	19	347	647	460
12/5/2019	20	342	647	460
12/5/2019	21	334	647	460
12/5/2019	22	319	647	460
12/5/2019	23	304	647	460
12/5/2019	24	288	495	460
12/6/2019	1	287	580	460
12/6/2019	2	278	550	460
12/6/2019	3	269	480	460
12/6/2019	4	267	460	455
12/6/2019	5	273	460	455
12/6/2019	6	277	518	460
12/6/2019	7	281	550	460
12/6/2019	8	313	580	460
12/6/2019	9	348	580	460
12/6/2019	10	368	647	460
12/6/2019	11	380	647	460
12/6/2019	12	371	647	460
12/6/2019	13	370	647	460
12/6/2019	14	381	647	460
12/6/2019	15	374	647	460
12/6/2019	16	369	647	460
12/6/2019	17	356	550	460
12/6/2019	18	366	647	460
12/6/2019	19	356	647	460
12/6/2019	20	350	647	460
12/6/2019	21	344	615	460
12/6/2019	22	330	472	460
12/6/2019	23	314	460	455
12/6/2019	24	298	460	455
12/7/2019	1	284	566	460
12/7/2019	2	275	550	460
12/7/2019	3	268	550	460
12/7/2019	4	263	550	460
12/7/2019	5	262	550	460
12/7/2019	6	260	550	460
12/7/2019	7	261	550	460
12/7/2019	8	283	550	460
12/7/2019	9	310	550	460
12/7/2019	10	334	643	460
12/7/2019	11	344	647	460
12/7/2019	12	336	647	460
12/7/2019	13	336	647	460
12/7/2019	14	346	647	460
12/7/2019	15	338	647	460
12/7/2019	16	331	647	460
12/7/2019	17	321	550	460
12/7/2019	18	342	647	460
12/7/2019	19	338	647	460
12/7/2019	20	336	647	460
12/7/2019	21	330	647	460
12/7/2019	22	319	647	460
12/7/2019	23	305	608	460
12/7/2019	24	290	560	460
12/8/2019	1	284	647	460
12/8/2019	2	273	580	460
12/8/2019	3	266	540	460
12/8/2019	4	259	460	455
12/8/2019	5	258	460	455
12/8/2019	6	258	518	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/8/2019	7	262	550	460
12/8/2019	8	282	580	460
12/8/2019	9	293	590	460
12/8/2019	10	310	647	460
12/8/2019	11	321	647	460
12/8/2019	12	320	647	460
12/8/2019	13	318	647	460
12/8/2019	14	324	647	460
12/8/2019	15	323	647	460
12/8/2019	16	312	580	460
12/8/2019	17	304	550	460
12/8/2019	18	329	647	460
12/8/2019	19	324	647	460
12/8/2019	20	320	647	460
12/8/2019	21	318	647	460
12/8/2019	22	304	472	460
12/8/2019	23	291	460	455
12/8/2019	24	275	460	455
12/9/2019	1	281	580	460
12/9/2019	2	267	550	460
12/9/2019	3	256	500	460
12/9/2019	4	254	460	455
12/9/2019	5	256	460	455
12/9/2019	6	256	460	460
12/9/2019	7	272	580	460
12/9/2019	8	327	647	460
12/9/2019	9	360	647	460
12/9/2019	10	380	647	460
12/9/2019	11	392	647	460
12/9/2019	12	383	647	460
12/9/2019	13	382	647	460
12/9/2019	14	394	647	460
12/9/2019	15	389	647	460
12/9/2019	16	385	647	460
12/9/2019	17	375	555	460
12/9/2019	18	387	647	460
12/9/2019	19	376	619	460
12/9/2019	20	369	543	460
12/9/2019	21	362	540	460
12/9/2019	22	346	494	460
12/9/2019	23	329	470	460
12/9/2019	24	311	460	455
12/10/2019	1	280	615	460
12/10/2019	2	271	580	460
12/10/2019	3	263	550	460
12/10/2019	4	260	489	460
12/10/2019	5	265	530	460
12/10/2019	6	271	560	460
12/10/2019	7	274	570	460
12/10/2019	8	305	580	460
12/10/2019	9	336	590	460
12/10/2019	10	353	590	460
12/10/2019	11	368	647	460
12/10/2019	12	359	532	460
12/10/2019	13	357	520	460
12/10/2019	14	370	647	460
12/10/2019	15	365	647	460
12/10/2019	16	363	580	460
12/10/2019	17	351	520	460
12/10/2019	18	364	613	460
12/10/2019	19	353	550	460
12/10/2019	20	348	500	460
12/10/2019	21	341	500	460
12/10/2019	22	322	494	460
12/10/2019	23	307	470	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/10/2019	24	291	460	455
12/11/2019	1	278	611	460
12/11/2019	2	267	540	460
12/11/2019	3	261	511	460
12/11/2019	4	257	460	455
12/11/2019	5	261	470	460
12/11/2019	6	268	493	460
12/11/2019	7	269	490	460
12/11/2019	8	300	520	460
12/11/2019	9	333	550	460
12/11/2019	10	355	580	460
12/11/2019	11	369	647	460
12/11/2019	12	361	532	460
12/11/2019	13	360	520	460
12/11/2019	14	369	647	460
12/11/2019	15	370	647	460
12/11/2019	16	363	580	460
12/11/2019	17	346	480	460
12/11/2019	18	359	596	460
12/11/2019	19	352	550	460
12/11/2019	20	350	500	460
12/11/2019	21	344	500	460
12/11/2019	22	330	494	460
12/11/2019	23	308	469	460
12/11/2019	24	292	460	455
12/12/2019	1	291	647	460
12/12/2019	2	281	580	460
12/12/2019	3	272	540	460
12/12/2019	4	269	480	460
12/12/2019	5	274	490	460
12/12/2019	6	280	500	460
12/12/2019	7	290	550	460
12/12/2019	8	310	580	460
12/12/2019	9	342	647	460
12/12/2019	10	361	647	460
12/12/2019	11	374	647	460
12/12/2019	12	363	642	460
12/12/2019	13	362	585	460
12/12/2019	14	374	647	460
12/12/2019	15	369	647	460
12/12/2019	16	365	511	460
12/12/2019	17	356	525	460
12/12/2019	18	367	647	460
12/12/2019	19	357	647	460
12/12/2019	20	350	530	460
12/12/2019	21	343	500	460
12/12/2019	22	329	494	460
12/12/2019	23	313	480	460
12/12/2019	24	296	460	455
12/13/2019	1	283	637	460
12/13/2019	2	274	600	460
12/13/2019	3	265	582	460
12/13/2019	4	261	490	455
12/13/2019	5	267	490	455
12/13/2019	6	274	500	455
12/13/2019	7	284	550	455
12/13/2019	8	304	580	455
12/13/2019	9	339	647	460
12/13/2019	10	360	647	460
12/13/2019	11	373	647	460
12/13/2019	12	370	647	460
12/13/2019	13	371	647	460
12/13/2019	14	382	647	460
12/13/2019	15	378	647	460
12/13/2019	16	372	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/13/2019	17	354	590	460
12/13/2019	18	368	647	460
12/13/2019	19	359	647	460
12/13/2019	20	353	647	460
12/13/2019	21	348	647	460
12/13/2019	22	336	647	460
12/13/2019	23	317	528	460
12/13/2019	24	294	522	460
12/14/2019	1	284	580	460
12/14/2019	2	275	550	460
12/14/2019	3	268	500	460
12/14/2019	4	263	460	455
12/14/2019	5	262	460	455
12/14/2019	6	260	500	460
12/14/2019	7	261	500	460
12/14/2019	8	283	520	460
12/14/2019	9	312	550	460
12/14/2019	10	335	647	460
12/14/2019	11	346	647	460
12/14/2019	12	338	580	460
12/14/2019	13	338	560	460
12/14/2019	14	348	597	460
12/14/2019	15	340	580	460
12/14/2019	16	333	480	460
12/14/2019	17	322	460	455
12/14/2019	18	343	564	460
12/14/2019	19	339	647	460
12/14/2019	20	337	580	460
12/14/2019	21	332	560	460
12/14/2019	22	320	520	460
12/14/2019	23	306	516	460
12/14/2019	24	292	460	455
12/15/2019	1	278	590	460
12/15/2019	2	269	540	460
12/15/2019	3	262	490	460
12/15/2019	4	255	460	455
12/15/2019	5	254	460	455
12/15/2019	6	254	500	460
12/15/2019	7	258	500	460
12/15/2019	8	274	520	460
12/15/2019	9	300	550	460
12/15/2019	10	309	613	460
12/15/2019	11	315	647	460
12/15/2019	12	315	647	460
12/15/2019	13	312	583	460
12/15/2019	14	319	585	460
12/15/2019	15	318	580	460
12/15/2019	16	307	480	460
12/15/2019	17	298	460	455
12/15/2019	18	323	647	460
12/15/2019	19	321	647	460
12/15/2019	20	318	647	460
12/15/2019	21	312	560	460
12/15/2019	22	303	520	460
12/15/2019	23	289	460	455
12/15/2019	24	273	460	455
12/16/2019	1	277	629	460
12/16/2019	2	263	540	460
12/16/2019	3	252	480	460
12/16/2019	4	250	460	455
12/16/2019	5	252	460	455
12/16/2019	6	252	470	460
12/16/2019	7	268	500	460
12/16/2019	8	311	520	460
12/16/2019	9	332	550	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/16/2019	10	352	580	460
12/16/2019	11	365	647	460
12/16/2019	12	363	647	460
12/16/2019	13	364	647	460
12/16/2019	14	375	647	460
12/16/2019	15	370	647	460
12/16/2019	16	364	500	460
12/16/2019	17	347	460	455
12/16/2019	18	361	563	460
12/16/2019	19	352	550	460
12/16/2019	20	345	520	460
12/16/2019	21	340	500	460
12/16/2019	22	328	480	460
12/16/2019	23	310	460	455
12/16/2019	24	286	460	455
12/17/2019	1	285	460	455
12/17/2019	2	276	460	455
12/17/2019	3	268	460	455
12/17/2019	4	268	460	455
12/17/2019	5	275	460	455
12/17/2019	6	282	460	455
12/17/2019	7	271	460	455
12/17/2019	8	316	460	455
12/17/2019	9	348	460	455
12/17/2019	10	370	460	455
12/17/2019	11	379	460	455
12/17/2019	12	371	460	455
12/17/2019	13	369	460	455
12/17/2019	14	384	460	455
12/17/2019	15	379	460	455
12/17/2019	16	377	460	455
12/17/2019	17	363	460	455
12/17/2019	18	379	460	455
12/17/2019	19	369	460	455
12/17/2019	20	362	460	455
12/17/2019	21	353	460	455
12/17/2019	22	337	460	455
12/17/2019	23	318	460	455
12/17/2019	24	300	460	455
12/18/2019	1	299	600	460
12/18/2019	2	288	550	455
12/18/2019	3	279	550	455
12/18/2019	4	277	455	450
12/18/2019	5	282	500	455
12/18/2019	6	289	500	455
12/18/2019	7	279	455	450
12/18/2019	8	324	550	460
12/18/2019	9	356	600	460
12/18/2019	10	377	647	460
12/18/2019	11	392	647	460
12/18/2019	12	383	610	460
12/18/2019	13	381	600	460
12/18/2019	14	395	647	460
12/18/2019	15	390	647	460
12/18/2019	16	383	647	460
12/18/2019	17	372	647	460
12/18/2019	18	386	647	460
12/18/2019	19	376	647	460
12/18/2019	20	371	647	460
12/18/2019	21	364	600	460
12/18/2019	22	347	600	460
12/18/2019	23	328	600	460
12/18/2019	24	312	550	460
12/19/2019	1	290	543	460
12/19/2019	2	280	455	453

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/19/2019	3	272	455	450
12/19/2019	4	268	455	450
12/19/2019	5	271	500	455
12/19/2019	6	277	500	455
12/19/2019	7	282	500	455
12/19/2019	8	312	500	460
12/19/2019	9	348	647	460
12/19/2019	10	367	647	460
12/19/2019	11	383	647	460
12/19/2019	12	372	647	460
12/19/2019	13	371	647	460
12/19/2019	14	381	647	460
12/19/2019	15	378	647	460
12/19/2019	16	375	647	460
12/19/2019	17	362	647	460
12/19/2019	18	376	647	460
12/19/2019	19	369	647	460
12/19/2019	20	362	647	460
12/19/2019	21	356	647	460
12/19/2019	22	340	647	460
12/19/2019	23	321	550	460
12/19/2019	24	303	550	460
12/20/2019	1	283	570	460
12/20/2019	2	274	500	460
12/20/2019	3	266	460	455
12/20/2019	4	266	460	455
12/20/2019	5	272	460	457
12/20/2019	6	280	480	460
12/20/2019	7	271	460	460
12/20/2019	8	316	571	460
12/20/2019	9	341	573	460
12/20/2019	10	362	647	460
12/20/2019	11	372	647	460
12/20/2019	12	364	560	460
12/20/2019	13	362	570	460
12/20/2019	14	377	598	460
12/20/2019	15	372	559	460
12/20/2019	16	370	520	460
12/20/2019	17	356	480	460
12/20/2019	18	371	550	460
12/20/2019	19	362	520	460
12/20/2019	20	355	480	460
12/20/2019	21	346	460	460
12/20/2019	22	330	460	455
12/20/2019	23	310	460	455
12/20/2019	24	293	460	455
12/21/2019	1	282	602	460
12/21/2019	2	273	500	460
12/21/2019	3	266	460	455
12/21/2019	4	261	460	455
12/21/2019	5	260	460	457
12/21/2019	6	258	480	460
12/21/2019	7	259	460	460
12/21/2019	8	283	571	460
12/21/2019	9	310	554	460
12/21/2019	10	333	591	460
12/21/2019	11	344	647	460
12/21/2019	12	336	560	460
12/21/2019	13	336	570	460
12/21/2019	14	346	598	460
12/21/2019	15	338	530	460
12/21/2019	16	331	520	460
12/21/2019	17	320	480	460
12/21/2019	18	341	580	460
12/21/2019	19	338	550	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/21/2019	20	335	500	460
12/21/2019	21	330	480	460
12/21/2019	22	318	470	460
12/21/2019	23	304	469	460
12/21/2019	24	290	460	455
12/22/2019	1	278	580	460
12/22/2019	2	269	520	460
12/22/2019	3	262	460	455
12/22/2019	4	255	460	455
12/22/2019	5	254	460	455
12/22/2019	6	254	460	460
12/22/2019	7	258	460	460
12/22/2019	8	274	571	460
12/22/2019	9	300	575	460
12/22/2019	10	309	580	460
12/22/2019	11	315	599	460
12/22/2019	12	315	548	460
12/22/2019	13	312	506	460
12/22/2019	14	319	607	460
12/22/2019	15	318	580	460
12/22/2019	16	307	540	460
12/22/2019	17	298	480	460
12/22/2019	18	323	647	460
12/22/2019	19	321	647	460
12/22/2019	20	318	647	460
12/22/2019	21	312	580	460
12/22/2019	22	303	540	460
12/22/2019	23	289	460	455
12/22/2019	24	273	460	455
12/23/2019	1	278	550	460
12/23/2019	2	269	500	460
12/23/2019	3	262	460	455
12/23/2019	4	259	460	455
12/23/2019	5	264	460	455
12/23/2019	6	275	460	460
12/23/2019	7	273	460	460
12/23/2019	8	302	520	460
12/23/2019	9	322	550	460
12/23/2019	10	338	570	460
12/23/2019	11	351	597	460
12/23/2019	12	343	530	460
12/23/2019	13	343	480	460
12/23/2019	14	354	590	460
12/23/2019	15	349	540	460
12/23/2019	16	347	510	460
12/23/2019	17	336	480	460
12/23/2019	18	349	580	460
12/23/2019	19	341	570	460
12/23/2019	20	334	550	460
12/23/2019	21	328	530	460
12/23/2019	22	312	500	460
12/23/2019	23	296	460	455
12/23/2019	24	279	460	455
12/24/2019	1	226	350	350
12/24/2019	2	219	300	300
12/24/2019	3	212	300	300
12/24/2019	4	206	300	300
12/24/2019	5	205	300	275
12/24/2019	6	206	271	270
12/24/2019	7	223	320	320
12/24/2019	8	234	320	320
12/24/2019	9	252	330	330
12/24/2019	10	267	320	320
12/24/2019	11	274	300	300
12/24/2019	12	272	300	300

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/24/2019	13	268	300	300
12/24/2019	14	265	300	300
12/24/2019	15	263	300	300
12/24/2019	16	259	300	300
12/24/2019	17	260	300	300
12/24/2019	18	287	375	375
12/24/2019	19	285	300	300
12/24/2019	20	268	300	300
12/24/2019	21	258	350	350
12/24/2019	22	248	350	350
12/24/2019	23	241	350	350
12/24/2019	24	233	350	350
12/25/2019	1	232	350	350
12/25/2019	2	223	300	300
12/25/2019	3	216	300	300
12/25/2019	4	211	300	300
12/25/2019	5	212	300	275
12/25/2019	6	219	270	270
12/25/2019	7	201	270	270
12/25/2019	8	206	270	270
12/25/2019	9	218	250	250
12/25/2019	10	232	250	250
12/25/2019	11	243	280	280
12/25/2019	12	250	250	250
12/25/2019	13	251	250	250
12/25/2019	14	255	280	280
12/25/2019	15	256	265	265
12/25/2019	16	253	250	250
12/25/2019	17	251	350	350
12/25/2019	18	277	350	350
12/25/2019	19	284	350	350
12/25/2019	20	282	350	350
12/25/2019	21	279	350	350
12/25/2019	22	271	350	350
12/25/2019	23	257	350	350
12/25/2019	24	243	350	350
12/26/2019	1	266	480	460
12/26/2019	2	257	460	455
12/26/2019	3	250	460	455
12/26/2019	4	247	460	455
12/26/2019	5	252	460	455
12/26/2019	6	263	460	460
12/26/2019	7	261	460	455
12/26/2019	8	290	480	460
12/26/2019	9	310	460	460
12/26/2019	10	326	480	460
12/26/2019	11	339	490	460
12/26/2019	12	331	460	455
12/26/2019	13	331	460	455
12/26/2019	14	342	520	460
12/26/2019	15	337	480	460
12/26/2019	16	335	470	460
12/26/2019	17	324	460	455
12/26/2019	18	337	550	460
12/26/2019	19	329	493	460
12/26/2019	20	322	460	455
12/26/2019	21	316	460	455
12/26/2019	22	300	460	455
12/26/2019	23	284	460	455
12/26/2019	24	267	460	455
12/27/2019	1	274	580	460
12/27/2019	2	265	550	460
12/27/2019	3	258	510	460
12/27/2019	4	255	498	460
12/27/2019	5	260	520	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/27/2019	6	271	550	460
12/27/2019	7	269	500	460
12/27/2019	8	298	500	460
12/27/2019	9	321	500	460
12/27/2019	10	337	525	480
12/27/2019	11	351	568	550
12/27/2019	12	343	500	460
12/27/2019	13	342	500	460
12/27/2019	14	354	580	503
12/27/2019	15	348	550	480
12/27/2019	16	347	530	470
12/27/2019	17	335	480	460
12/27/2019	18	348	580	540
12/27/2019	19	340	570	470
12/27/2019	20	334	520	460
12/27/2019	21	328	500	460
12/27/2019	22	311	480	460
12/27/2019	23	295	460	460
12/27/2019	24	279	460	455
12/28/2019	1	273	511	460
12/28/2019	2	264	500	450
12/28/2019	3	256	510	400
12/28/2019	4	252	500	400
12/28/2019	5	250	520	420
12/28/2019	6	249	550	450
12/28/2019	7	264	550	460
12/28/2019	8	285	500	450
12/28/2019	9	309	500	474
12/28/2019	10	332	550	550
12/28/2019	11	344	568	550
12/28/2019	12	337	500	500
12/28/2019	13	332	517	500
12/28/2019	14	337	580	532
12/28/2019	15	330	550	480
12/28/2019	16	323	530	470
12/28/2019	17	317	477	460
12/28/2019	18	339	580	540
12/28/2019	19	337	580	580
12/28/2019	20	334	550	550
12/28/2019	21	328	558	532
12/28/2019	22	317	530	530
12/28/2019	23	302	465	460
12/28/2019	24	285	460	460
12/29/2019	1	231	455	250
12/29/2019	2	223	455	250
12/29/2019	3	216	455	225
12/29/2019	4	214	455	225
12/29/2019	5	219	455	260
12/29/2019	6	224	455	280
12/29/2019	7	224	455	250
12/29/2019	8	235	455	300
12/29/2019	9	249	455	300
12/29/2019	10	266	455	350
12/29/2019	11	274	455	350
12/29/2019	12	272	455	321
12/29/2019	13	268	455	312
12/29/2019	14	269	455	335
12/29/2019	15	265	455	300
12/29/2019	16	261	455	350
12/29/2019	17	259	455	341
12/29/2019	18	282	460	455
12/29/2019	19	283	460	455
12/29/2019	20	282	460	455
12/29/2019	21	278	460	455
12/29/2019	22	266	460	455

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/29/2019	23	254	460	455
12/29/2019	24	238	460	455
12/30/2019	1	230	455	250
12/30/2019	2	222	455	250
12/30/2019	3	215	455	225
12/30/2019	4	214	455	225
12/30/2019	5	218	455	225
12/30/2019	6	224	455	250
12/30/2019	7	224	455	257
12/30/2019	8	235	455	258
12/30/2019	9	248	455	231
12/30/2019	10	265	455	250
12/30/2019	11	272	455	290
12/30/2019	12	270	455	225
12/30/2019	13	267	455	225
12/30/2019	14	267	455	225
12/30/2019	15	264	455	235
12/30/2019	16	260	455	225
12/30/2019	17	257	455	250
12/30/2019	18	281	460	455
12/30/2019	19	282	460	455
12/30/2019	20	280	460	455
12/30/2019	21	277	460	455
12/30/2019	22	265	460	455
12/30/2019	23	253	460	455
12/30/2019	24	237	460	455
12/31/2019	1	220	300	300
12/31/2019	2	208	300	300
12/31/2019	3	198	275	275
12/31/2019	4	192	250	250
12/31/2019	5	188	225	225
12/31/2019	6	186	225	225
12/31/2019	7	208	275	275
12/31/2019	8	214	275	275
12/31/2019	9	232	300	300
12/31/2019	10	244	300	285
12/31/2019	11	250	280	275
12/31/2019	12	249	225	225
12/31/2019	13	244	225	225
12/31/2019	14	243	250	250
12/31/2019	15	240	250	225
12/31/2019	16	240	275	275
12/31/2019	17	241	300	272
12/31/2019	18	268	350	325
12/31/2019	19	267	313	310
12/31/2019	20	254	300	300
12/31/2019	21	245	250	225
12/31/2019	22	237	300	300
12/31/2019	23	230	300	300
12/31/2019	24	226	300	285
1/1/2020	1	211	386	300
1/1/2020	2	202	367	250
1/1/2020	3	197	300	253
1/1/2020	4	195	285	250
1/1/2020	5	197	327	280
1/1/2020	6	208	366	300
1/1/2020	7	181	225	225
1/1/2020	8	185	225	225
1/1/2020	9	201	253	225
1/1/2020	10	208	225	225
1/1/2020	11	218	250	250
1/1/2020	12	225	279	250
1/1/2020	13	225	300	271
1/1/2020	14	226	350	271
1/1/2020	15	226	450	360

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/1/2020	16	224	400	341
1/1/2020	17	225	451	350
1/1/2020	18	252	460	450
1/1/2020	19	259	460	450
1/1/2020	20	256	460	450
1/1/2020	21	252	460	450
1/1/2020	22	241	460	450
1/1/2020	23	228	460	450
1/1/2020	24	218	460	450
1/2/2020	1	242	478	455
1/2/2020	2	233	455	449
1/2/2020	3	226	455	380
1/2/2020	4	223	455	351
1/2/2020	5	228	455	410
1/2/2020	6	239	480	455
1/2/2020	7	237	455	452
1/2/2020	8	266	470	455
1/2/2020	9	286	490	455
1/2/2020	10	310	500	455
1/2/2020	11	320	510	455
1/2/2020	12	313	480	455
1/2/2020	13	313	460	455
1/2/2020	14	322	500	455
1/2/2020	15	314	455	450
1/2/2020	16	307	455	450
1/2/2020	17	297	455	451
1/2/2020	18	318	460	455
1/2/2020	19	314	460	455
1/2/2020	20	312	460	455
1/2/2020	21	306	460	455
1/2/2020	22	295	460	455
1/2/2020	23	281	460	455
1/2/2020	24	266	460	455
1/3/2020	1	279	580	455
1/3/2020	2	270	550	455
1/3/2020	3	262	465	455
1/3/2020	4	262	455	450
1/3/2020	5	268	500	455
1/3/2020	6	276	550	455
1/3/2020	7	271	455	452
1/3/2020	8	308	470	460
1/3/2020	9	330	490	460
1/3/2020	10	351	550	460
1/3/2020	11	361	580	460
1/3/2020	12	353	550	460
1/3/2020	13	351	470	460
1/3/2020	14	366	543	460
1/3/2020	15	361	540	460
1/3/2020	16	359	460	455
1/3/2020	17	345	460	455
1/3/2020	18	360	598	460
1/3/2020	19	351	460	455
1/3/2020	20	344	460	455
1/3/2020	21	335	460	455
1/3/2020	22	319	460	455
1/3/2020	23	299	460	455
1/3/2020	24	282	460	455
1/4/2020	1	275	489	455
1/4/2020	2	265	485	455
1/4/2020	3	256	463	455
1/4/2020	4	250	455	450
1/4/2020	5	248	482	455
1/4/2020	6	250	455	450
1/4/2020	7	267	455	452
1/4/2020	8	271	455	377

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/4/2020	9	295	490	455
1/4/2020	10	310	509	455
1/4/2020	11	332	514	455
1/4/2020	12	324	510	455
1/4/2020	13	321	455	429
1/4/2020	14	324	509	455
1/4/2020	15	323	500	455
1/4/2020	16	318	455	427
1/4/2020	17	295	455	450
1/4/2020	18	327	500	482
1/4/2020	19	327	483	455
1/4/2020	20	323	455	450
1/4/2020	21	320	455	450
1/4/2020	22	295	455	450
1/4/2020	23	295	455	420
1/4/2020	24	279	455	420
1/5/2020	1	274	570	455
1/5/2020	2	265	556	455
1/5/2020	3	258	455	450
1/5/2020	4	251	455	420
1/5/2020	5	250	455	450
1/5/2020	6	250	460	455
1/5/2020	7	254	470	455
1/5/2020	8	270	474	455
1/5/2020	9	288	490	460
1/5/2020	10	297	500	460
1/5/2020	11	304	550	460
1/5/2020	12	303	510	460
1/5/2020	13	301	460	455
1/5/2020	14	307	543	460
1/5/2020	15	306	540	460
1/5/2020	16	295	460	455
1/5/2020	17	286	460	455
1/5/2020	18	312	517	460
1/5/2020	19	309	483	460
1/5/2020	20	306	460	455
1/5/2020	21	300	460	455
1/5/2020	22	291	460	455
1/5/2020	23	277	460	455
1/5/2020	24	265	460	455
1/6/2020	1	265	560	455
1/6/2020	2	255	540	455
1/6/2020	3	244	455	440
1/6/2020	4	242	455	410
1/6/2020	5	244	455	450
1/6/2020	6	244	462	455
1/6/2020	7	260	468	455
1/6/2020	8	299	468	455
1/6/2020	9	319	489	460
1/6/2020	10	339	497	460
1/6/2020	11	352	550	460
1/6/2020	12	349	510	460
1/6/2020	13	351	460	455
1/6/2020	14	361	543	460
1/6/2020	15	357	540	460
1/6/2020	16	351	460	455
1/6/2020	17	334	460	455
1/6/2020	18	347	517	460
1/6/2020	19	338	483	460
1/6/2020	20	332	460	455
1/6/2020	21	327	460	455
1/6/2020	22	315	460	455
1/6/2020	23	296	460	455
1/6/2020	24	281	460	455
1/7/2020	1	275	570	455

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/7/2020	2	266	540	455
1/7/2020	3	261	510	455
1/7/2020	4	259	470	455
1/7/2020	5	266	490	455
1/7/2020	6	276	500	455
1/7/2020	7	281	504	455
1/7/2020	8	309	540	455
1/7/2020	9	341	545	460
1/7/2020	10	364	550	460
1/7/2020	11	377	580	460
1/7/2020	12	368	510	460
1/7/2020	13	367	460	455
1/7/2020	14	381	590	460
1/7/2020	15	377	580	460
1/7/2020	16	374	550	460
1/7/2020	17	358	460	455
1/7/2020	18	369	540	460
1/7/2020	19	363	500	460
1/7/2020	20	355	470	460
1/7/2020	21	344	460	455
1/7/2020	22	328	460	455
1/7/2020	23	310	460	455
1/7/2020	24	292	460	455
1/8/2020	1	288	570	455
1/8/2020	2	277	530	455
1/8/2020	3	271	507	455
1/8/2020	4	265	470	455
1/8/2020	5	267	490	455
1/8/2020	6	272	500	455
1/8/2020	7	279	530	455
1/8/2020	8	308	540	455
1/8/2020	9	343	545	455
1/8/2020	10	361	550	455
1/8/2020	11	379	580	455
1/8/2020	12	371	510	455
1/8/2020	13	370	455	450
1/8/2020	14	383	578	455
1/8/2020	15	379	550	455
1/8/2020	16	378	550	455
1/8/2020	17	358	455	452
1/8/2020	18	371	550	455
1/8/2020	19	360	500	455
1/8/2020	20	352	470	455
1/8/2020	21	348	455	450
1/8/2020	22	335	455	450
1/8/2020	23	314	455	420
1/8/2020	24	298	455	420
1/9/2020	1	277	568	455
1/9/2020	2	271	500	455
1/9/2020	3	264	480	455
1/9/2020	4	261	455	440
1/9/2020	5	266	500	455
1/9/2020	6	281	510	455
1/9/2020	7	288	510	455
1/9/2020	8	315	518	455
1/9/2020	9	347	545	460
1/9/2020	10	367	550	460
1/9/2020	11	381	580	460
1/9/2020	12	375	510	460
1/9/2020	13	369	460	455
1/9/2020	14	382	580	460
1/9/2020	15	379	544	460
1/9/2020	16	376	550	460
1/9/2020	17	363	500	460
1/9/2020	18	372	550	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/9/2020	19	366	500	460
1/9/2020	20	358	470	460
1/9/2020	21	351	470	460
1/9/2020	22	342	470	460
1/9/2020	23	324	460	455
1/9/2020	24	307	460	455
1/10/2020	1	279	565	455
1/10/2020	2	269	545	455
1/10/2020	3	262	505	455
1/10/2020	4	258	475	455
1/10/2020	5	262	495	455
1/10/2020	6	269	511	455
1/10/2020	7	274	500	455
1/10/2020	8	301	514	455
1/10/2020	9	335	545	460
1/10/2020	10	355	550	460
1/10/2020	11	369	580	460
1/10/2020	12	362	510	460
1/10/2020	13	361	460	455
1/10/2020	14	375	580	460
1/10/2020	15	370	544	460
1/10/2020	16	364	540	460
1/10/2020	17	328	460	455
1/10/2020	18	361	550	460
1/10/2020	19	354	540	460
1/10/2020	20	347	470	460
1/10/2020	21	341	470	460
1/10/2020	22	328	470	460
1/10/2020	23	313	460	455
1/10/2020	24	295	460	455
1/11/2020	1	279	512	460
1/11/2020	2	272	525	460
1/11/2020	3	266	509	460
1/11/2020	4	259	460	455
1/11/2020	5	260	480	460
1/11/2020	6	262	460	460
1/11/2020	7	265	493	455
1/11/2020	8	292	500	460
1/11/2020	9	316	500	460
1/11/2020	10	342	525	460
1/11/2020	11	353	525	460
1/11/2020	12	347	476	460
1/11/2020	13	344	460	455
1/11/2020	14	352	550	460
1/11/2020	15	347	475	460
1/11/2020	16	340	460	455
1/11/2020	17	327	475	460
1/11/2020	18	337	490	460
1/11/2020	19	339	500	460
1/11/2020	20	337	500	460
1/11/2020	21	328	480	460
1/11/2020	22	317	460	455
1/11/2020	23	302	520	460
1/11/2020	24	287	520	460
1/12/2020	1	269	560	455
1/12/2020	2	259	530	455
1/12/2020	3	248	470	455
1/12/2020	4	246	455	430
1/12/2020	5	248	455	450
1/12/2020	6	248	455	440
1/12/2020	7	264	480	455
1/12/2020	8	303	518	460
1/12/2020	9	340	545	460
1/12/2020	10	363	550	460
1/12/2020	11	378	580	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/12/2020	12	368	510	460
1/12/2020	13	366	460	455
1/12/2020	14	382	647	460
1/12/2020	15	378	573	460
1/12/2020	16	374	520	460
1/12/2020	17	360	500	460
1/12/2020	18	371	580	460
1/12/2020	19	367	560	460
1/12/2020	20	359	470	460
1/12/2020	21	351	470	460
1/12/2020	22	337	470	460
1/12/2020	23	316	460	455
1/12/2020	24	301	460	455
1/13/2020	1	269	560	455
1/13/2020	2	259	530	455
1/13/2020	3	248	470	455
1/13/2020	4	246	455	430
1/13/2020	5	248	455	450
1/13/2020	6	248	455	440
1/13/2020	7	264	480	455
1/13/2020	8	303	518	460
1/13/2020	9	340	545	460
1/13/2020	10	363	550	460
1/13/2020	11	378	580	460
1/13/2020	12	368	510	460
1/13/2020	13	366	460	455
1/13/2020	14	382	647	460
1/13/2020	15	378	573	460
1/13/2020	16	374	520	460
1/13/2020	17	360	500	460
1/13/2020	18	371	580	460
1/13/2020	19	367	560	460
1/13/2020	20	359	470	460
1/13/2020	21	351	470	460
1/13/2020	22	337	470	460
1/13/2020	23	316	460	455
1/13/2020	24	301	460	455
1/14/2020	1	265	600	518
1/14/2020	2	257	560	458
1/14/2020	3	251	519	420
1/14/2020	4	248	494	380
1/14/2020	5	255	580	480
1/14/2020	6	268	647	580
1/14/2020	7	270	647	620
1/14/2020	8	296	647	647
1/14/2020	9	329	647	647
1/14/2020	10	353	647	647
1/14/2020	11	365	647	647
1/14/2020	12	356	647	647
1/14/2020	13	354	647	647
1/14/2020	14	368	647	647
1/14/2020	15	365	647	647
1/14/2020	16	361	647	647
1/14/2020	17	348	647	647
1/14/2020	18	350	647	647
1/14/2020	19	348	647	647
1/14/2020	20	352	647	647
1/14/2020	21	328	647	647
1/14/2020	22	313	647	647
1/14/2020	23	296	647	647
1/14/2020	24	282	647	647
1/15/2020	1	267	647	597
1/15/2020	2	260	591	550
1/15/2020	3	253	525	440
1/15/2020	4	250	490	352

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/15/2020	5	258	570	500
1/15/2020	6	267	580	540
1/15/2020	7	267	580	540
1/15/2020	8	296	647	550
1/15/2020	9	327	647	550
1/15/2020	10	347	647	526
1/15/2020	11	357	647	527
1/15/2020	12	349	580	500
1/15/2020	13	346	560	500
1/15/2020	14	360	647	600
1/15/2020	15	358	647	580
1/15/2020	16	354	647	560
1/15/2020	17	338	647	550
1/15/2020	18	343	647	560
1/15/2020	19	342	647	560
1/15/2020	20	334	590	530
1/15/2020	21	323	590	520
1/15/2020	22	307	580	500
1/15/2020	23	290	550	480
1/15/2020	24	275	500	450
1/16/2020	1	270	647	344
1/16/2020	2	262	647	344
1/16/2020	3	253	647	344
1/16/2020	4	252	647	344
1/16/2020	5	259	647	344
1/16/2020	6	268	647	344
1/16/2020	7	273	647	344
1/16/2020	8	298	647	344
1/16/2020	9	328	647	344
1/16/2020	10	349	647	344
1/16/2020	11	365	647	344
1/16/2020	12	356	647	344
1/16/2020	13	355	647	344
1/16/2020	14	369	647	344
1/16/2020	15	364	647	344
1/16/2020	16	358	647	344
1/16/2020	17	345	647	344
1/16/2020	18	354	647	344
1/16/2020	19	348	647	344
1/16/2020	20	340	647	344
1/16/2020	21	331	647	344
1/16/2020	22	314	647	344
1/16/2020	23	296	647	344
1/16/2020	24	282	647	344
1/17/2020	1	271	647	344
1/17/2020	2	264	647	344
1/17/2020	3	254	550	344
1/17/2020	4	254	500	344
1/17/2020	5	261	553	344
1/17/2020	6	270	647	344
1/17/2020	7	274	647	344
1/17/2020	8	300	647	344
1/17/2020	9	333	647	344
1/17/2020	10	353	647	344
1/17/2020	11	369	647	344
1/17/2020	12	360	647	344
1/17/2020	13	360	647	344
1/17/2020	14	372	647	344
1/17/2020	15	368	647	344
1/17/2020	16	363	647	344
1/17/2020	17	349	647	344
1/17/2020	18	359	647	344
1/17/2020	19	353	647	344
1/17/2020	20	345	647	344
1/17/2020	21	335	647	344

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/17/2020	22	318	647	344
1/17/2020	23	301	647	344
1/17/2020	24	286	555	344
1/18/2020	1	277	550	455
1/18/2020	2	270	530	455
1/18/2020	3	265	520	455
1/18/2020	4	261	520	455
1/18/2020	5	261	520	455
1/18/2020	6	263	500	344
1/18/2020	7	271	550	344
1/18/2020	8	292	550	352
1/18/2020	9	321	600	430
1/18/2020	10	345	600	455
1/18/2020	11	359	647	455
1/18/2020	12	352	607	455
1/18/2020	13	347	550	455
1/18/2020	14	356	647	455
1/18/2020	15	353	532	455
1/18/2020	16	347	510	455
1/18/2020	17	337	500	455
1/18/2020	18	347	630	455
1/18/2020	19	353	647	455
1/18/2020	20	348	647	455
1/18/2020	21	341	600	455
1/18/2020	22	327	580	455
1/18/2020	23	310	560	455
1/18/2020	24	292	550	455
1/19/2020	1	275	580	455
1/19/2020	2	262	530	455
1/19/2020	3	256	500	455
1/19/2020	4	253	455	450
1/19/2020	5	251	455	430
1/19/2020	6	252	455	440
1/19/2020	7	256	480	455
1/19/2020	8	276	593	455
1/19/2020	9	305	647	455
1/19/2020	10	322	647	455
1/19/2020	11	328	647	455
1/19/2020	12	328	567	455
1/19/2020	13	325	552	455
1/19/2020	14	332	647	455
1/19/2020	15	331	647	455
1/19/2020	16	320	647	455
1/19/2020	17	311	580	455
1/19/2020	18	336	647	455
1/19/2020	19	334	647	455
1/19/2020	20	331	647	455
1/19/2020	21	325	647	455
1/19/2020	22	316	541	455
1/19/2020	23	302	465	455
1/19/2020	24	286	455	420
1/20/2020	1	271	580	455
1/20/2020	2	261	530	455
1/20/2020	3	252	500	455
1/20/2020	4	250	455	450
1/20/2020	5	255	455	430
1/20/2020	6	270	455	440
1/20/2020	7	274	480	455
1/20/2020	8	308	593	455
1/20/2020	9	345	647	455
1/20/2020	10	367	647	455
1/20/2020	11	381	647	455
1/20/2020	12	370	567	455
1/20/2020	13	368	552	455
1/20/2020	14	384	647	455

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/20/2020	15	381	647	455
1/20/2020	16	377	647	455
1/20/2020	17	362	580	455
1/20/2020	18	376	647	455
1/20/2020	19	370	647	455
1/20/2020	20	363	647	455
1/20/2020	21	358	647	455
1/20/2020	22	345	541	455
1/20/2020	23	329	480	455
1/20/2020	24	310	470	455
1/21/2020	1	293	647	360
1/21/2020	2	265	580	360
1/21/2020	3	261	523	360
1/21/2020	4	257	510	360
1/21/2020	5	264	520	360
1/21/2020	6	275	570	360
1/21/2020	7	286	580	360
1/21/2020	8	309	607	360
1/21/2020	9	340	647	360
1/21/2020	10	362	647	360
1/21/2020	11	375	647	420
1/21/2020	12	367	599	420
1/21/2020	13	365	520	420
1/21/2020	14	377	647	420
1/21/2020	15	374	647	420
1/21/2020	16	371	647	420
1/21/2020	17	359	647	420
1/21/2020	18	363	647	420
1/21/2020	19	362	647	420
1/21/2020	20	354	570	420
1/21/2020	21	346	550	420
1/21/2020	22	329	460	420
1/21/2020	23	311	450	420
1/21/2020	24	294	420	420
1/22/2020	1	276	568	370
1/22/2020	2	269	540	370
1/22/2020	3	262	500	370
1/22/2020	4	259	460	370
1/22/2020	5	266	470	370
1/22/2020	6	275	483	370
1/22/2020	7	291	520	370
1/22/2020	8	302	530	370
1/22/2020	9	338	550	370
1/22/2020	10	359	580	420
1/22/2020	11	365	590	420
1/22/2020	12	357	520	420
1/22/2020	13	354	500	420
1/22/2020	14	373	580	420
1/22/2020	15	368	550	420
1/22/2020	16	365	520	420
1/22/2020	17	351	500	420
1/22/2020	18	354	510	420
1/22/2020	19	356	520	420
1/22/2020	20	349	480	420
1/22/2020	21	341	470	420
1/22/2020	22	324	430	420
1/22/2020	23	309	420	400
1/22/2020	24	292	420	380
1/23/2020	1	276	580	450
1/23/2020	2	269	530	420
1/23/2020	3	262	480	400
1/23/2020	4	260	460	380
1/23/2020	5	265	470	420
1/23/2020	6	277	483	450
1/23/2020	7	277	450	420

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/23/2020	8	302	530	450
1/23/2020	9	334	550	470
1/23/2020	10	353	580	500
1/23/2020	11	367	590	580
1/23/2020	12	360	550	520
1/23/2020	13	358	540	500
1/23/2020	14	373	647	580
1/23/2020	15	368	605	550
1/23/2020	16	365	550	517
1/23/2020	17	350	500	482
1/23/2020	18	355	580	537
1/23/2020	19	353	540	491
1/23/2020	20	346	500	442
1/23/2020	21	339	480	420
1/23/2020	22	325	450	420
1/23/2020	23	308	420	420
1/23/2020	24	294	420	400
1/24/2020	1	284	600	545
1/24/2020	2	277	564	500
1/24/2020	3	271	480	455
1/24/2020	4	262	454	400
1/24/2020	5	268	470	434
1/24/2020	6	278	550	516
1/24/2020	7	279	450	420
1/24/2020	8	306	530	450
1/24/2020	9	338	550	470
1/24/2020	10	359	556	500
1/24/2020	11	368	570	520
1/24/2020	12	358	520	500
1/24/2020	13	359	540	500
1/24/2020	14	370	647	550
1/24/2020	15	364	580	520
1/24/2020	16	362	550	500
1/24/2020	17	350	500	480
1/24/2020	18	352	580	538
1/24/2020	19	353	580	540
1/24/2020	20	347	550	468
1/24/2020	21	339	500	450
1/24/2020	22	324	450	420
1/24/2020	23	307	420	420
1/24/2020	24	291	420	400
1/25/2020	1	285	647	647
1/25/2020	2	275	647	647
1/25/2020	3	268	647	647
1/25/2020	4	263	600	575
1/25/2020	5	262	580	550
1/25/2020	6	264	571	570
1/25/2020	7	260	500	500
1/25/2020	8	288	550	550
1/25/2020	9	316	600	600
1/25/2020	10	336	647	647
1/25/2020	11	348	647	647
1/25/2020	12	342	647	647
1/25/2020	13	339	623	600
1/25/2020	14	348	647	647
1/25/2020	15	345	647	647
1/25/2020	16	339	647	647
1/25/2020	17	329	600	549
1/25/2020	18	337	647	647
1/25/2020	19	342	647	647
1/25/2020	20	338	647	647
1/25/2020	21	332	647	647
1/25/2020	22	320	647	647
1/25/2020	23	305	647	647
1/25/2020	24	288	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/26/2020	1	275	605	550
1/26/2020	2	266	530	476
1/26/2020	3	259	500	474
1/26/2020	4	252	460	444
1/26/2020	5	251	451	450
1/26/2020	6	251	485	460
1/26/2020	7	252	438	420
1/26/2020	8	272	647	543
1/26/2020	9	303	647	647
1/26/2020	10	312	647	647
1/26/2020	11	319	647	647
1/26/2020	12	318	647	647
1/26/2020	13	316	647	647
1/26/2020	14	323	647	647
1/26/2020	15	322	647	647
1/26/2020	16	311	647	613
1/26/2020	17	302	580	550
1/26/2020	18	327	647	647
1/26/2020	19	325	647	647
1/26/2020	20	322	647	647
1/26/2020	21	316	647	647
1/26/2020	22	306	647	627
1/26/2020	23	293	647	571
1/26/2020	24	277	580	500
1/27/2020	1	274	580	532
1/27/2020	2	264	510	448
1/27/2020	3	257	500	430
1/27/2020	4	250	488	420
1/27/2020	5	248	470	425
1/27/2020	6	249	480	430
1/27/2020	7	254	438	420
1/27/2020	8	294	572	550
1/27/2020	9	343	647	550
1/27/2020	10	364	647	548
1/27/2020	11	373	647	548
1/27/2020	12	363	647	548
1/27/2020	13	364	647	548
1/27/2020	14	375	647	548
1/27/2020	15	369	647	548
1/27/2020	16	367	647	613
1/27/2020	17	355	580	520
1/27/2020	18	357	647	647
1/27/2020	19	358	647	647
1/27/2020	20	351	647	600
1/27/2020	21	344	580	550
1/27/2020	22	328	560	520
1/27/2020	23	312	550	500
1/27/2020	24	296	500	450
1/28/2020	1	288	647	580
1/28/2020	2	279	580	550
1/28/2020	3	271	550	500
1/28/2020	4	268	500	470
1/28/2020	5	276	550	500
1/28/2020	6	288	582	370
1/28/2020	7	288	550	400
1/28/2020	8	319	572	550
1/28/2020	9	351	580	550
1/28/2020	10	371	647	583
1/28/2020	11	385	647	647
1/28/2020	12	376	550	520
1/28/2020	13	375	500	496
1/28/2020	14	387	647	647
1/28/2020	15	386	647	647
1/28/2020	16	382	647	647
1/28/2020	17	366	647	604

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/28/2020	18	370	647	610
1/28/2020	19	370	647	562
1/28/2020	20	361	571	500
1/28/2020	21	353	550	480
1/28/2020	22	334	520	450
1/28/2020	23	315	500	420
1/28/2020	24	297	450	420
1/29/2020	1	295	647	590
1/29/2020	2	288	590	550
1/29/2020	3	279	550	490
1/29/2020	4	283	550	480
1/29/2020	5	287	580	480
1/29/2020	6	303	570	480
1/29/2020	7	297	580	420
1/29/2020	8	316	531	500
1/29/2020	9	347	580	536
1/29/2020	10	369	647	551
1/29/2020	11	381	647	647
1/29/2020	12	373	647	550
1/29/2020	13	374	647	550
1/29/2020	14	390	647	647
1/29/2020	15	386	647	647
1/29/2020	16	383	647	647
1/29/2020	17	366	647	578
1/29/2020	18	366	647	647
1/29/2020	19	369	647	647
1/29/2020	20	361	571	500
1/29/2020	21	352	550	473
1/29/2020	22	336	520	420
1/29/2020	23	323	500	420
1/29/2020	24	307	450	420
1/30/2020	1	283	476	450
1/30/2020	2	272	352	340
1/30/2020	3	267	344	334
1/30/2020	4	264	400	344
1/30/2020	5	273	475	427
1/30/2020	6	285	472	402
1/30/2020	7	287	467	438
1/30/2020	8	312	550	532
1/30/2020	9	345	575	536
1/30/2020	10	364	647	630
1/30/2020	11	377	647	647
1/30/2020	12	367	647	587
1/30/2020	13	366	647	575
1/30/2020	14	384	647	647
1/30/2020	15	378	647	647
1/30/2020	16	375	647	647
1/30/2020	17	360	580	580
1/30/2020	18	363	647	647
1/30/2020	19	363	647	647
1/30/2020	20	356	575	566
1/30/2020	21	347	575	561
1/30/2020	22	330	520	420
1/30/2020	23	314	500	420
1/30/2020	24	296	450	420
1/31/2020	1	281	580	502
1/31/2020	2	272	500	450
1/31/2020	3	263	420	380
1/31/2020	4	262	410	370
1/31/2020	5	271	452	420
1/31/2020	6	282	523	450
1/31/2020	7	285	508	450
1/31/2020	8	313	560	530
1/31/2020	9	343	570	536
1/31/2020	10	362	580	540

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/31/2020	11	372	598	550
1/31/2020	12	362	550	500
1/31/2020	13	358	540	480
1/31/2020	14	372	560	500
1/31/2020	15	367	543	480
1/31/2020	16	361	500	450
1/31/2020	17	345	475	440
1/31/2020	18	346	545	480
1/31/2020	19	348	535	470
1/31/2020	20	338	500	450
1/31/2020	21	337	575	561
1/31/2020	22	313	520	420
1/31/2020	23	298	500	420
1/31/2020	24	283	450	420
2/1/2020	1	273	500	450
2/1/2020	2	265	500	450
2/1/2020	3	258	420	380
2/1/2020	4	253	400	350
2/1/2020	5	252	480	427
2/1/2020	6	253	490	473
2/1/2020	7	256	520	450
2/1/2020	8	275	500	475
2/1/2020	9	303	500	480
2/1/2020	10	323	500	480
2/1/2020	11	335	578	550
2/1/2020	12	328	500	450
2/1/2020	13	327	500	450
2/1/2020	14	333	500	470
2/1/2020	15	331	500	450
2/1/2020	16	326	475	450
2/1/2020	17	316	467	440
2/1/2020	18	328	500	480
2/1/2020	19	330	500	462
2/1/2020	20	326	500	450
2/1/2020	21	321	500	450
2/1/2020	22	309	500	420
2/1/2020	23	296	500	420
2/1/2020	24	281	500	420
2/2/2020	1	272	566	500
2/2/2020	2	262	500	488
2/2/2020	3	256	480	420
2/2/2020	4	249	420	380
2/2/2020	5	247	410	370
2/2/2020	6	242	430	380
2/2/2020	7	250	530	400
2/2/2020	8	276	560	529
2/2/2020	9	290	570	530
2/2/2020	10	299	581	540
2/2/2020	11	306	598	550
2/2/2020	12	305	550	500
2/2/2020	13	303	540	480
2/2/2020	14	309	586	500
2/2/2020	15	308	580	489
2/2/2020	16	297	500	450
2/2/2020	17	288	470	420
2/2/2020	18	311	550	480
2/2/2020	19	314	580	500
2/2/2020	20	309	500	450
2/2/2020	21	302	480	440
2/2/2020	22	293	460	420
2/2/2020	23	279	500	420
2/2/2020	24	263	450	420
2/3/2020	1	270	548	450
2/3/2020	2	260	480	440
2/3/2020	3	254	450	400

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/3/2020	4	247	420	380
2/3/2020	5	246	410	370
2/3/2020	6	242	430	350
2/3/2020	7	254	530	360
2/3/2020	8	292	560	529
2/3/2020	9	337	570	530
2/3/2020	10	362	600	540
2/3/2020	11	373	618	550
2/3/2020	12	366	550	500
2/3/2020	13	365	540	480
2/3/2020	14	381	647	500
2/3/2020	15	378	580	489
2/3/2020	16	376	500	450
2/3/2020	17	360	470	420
2/3/2020	18	359	550	480
2/3/2020	19	364	583	500
2/3/2020	20	353	500	450
2/3/2020	21	343	480	440
2/3/2020	22	323	447	420
2/3/2020	23	305	500	420
2/3/2020	24	289	450	420
2/4/2020	1	262	580	474
2/4/2020	2	253	550	440
2/4/2020	3	248	452	400
2/4/2020	4	244	420	373
2/4/2020	5	249	500	420
2/4/2020	6	260	500	450
2/4/2020	7	265	500	400
2/4/2020	8	292	550	420
2/4/2020	9	319	560	430
2/4/2020	10	340	580	430
2/4/2020	11	353	590	430
2/4/2020	12	347	550	420
2/4/2020	13	346	500	420
2/4/2020	14	355	550	446
2/4/2020	15	354	520	435
2/4/2020	16	351	500	450
2/4/2020	17	339	470	431
2/4/2020	18	344	550	450
2/4/2020	19	344	560	459
2/4/2020	20	335	543	450
2/4/2020	21	328	480	436
2/4/2020	22	313	460	420
2/4/2020	23	297	440	420
2/4/2020	24	282	425	420
2/5/2020	1	257	560	450
2/5/2020	2	250	510	420
2/5/2020	3	241	430	380
2/5/2020	4	237	420	373
2/5/2020	5	245	500	425
2/5/2020	6	254	550	464
2/5/2020	7	252	500	400
2/5/2020	8	281	550	420
2/5/2020	9	312	560	420
2/5/2020	10	330	571	430
2/5/2020	11	340	590	430
2/5/2020	12	332	550	420
2/5/2020	13	330	548	420
2/5/2020	14	343	580	450
2/5/2020	15	341	539	435
2/5/2020	16	338	500	428
2/5/2020	17	323	470	428
2/5/2020	18	327	531	440
2/5/2020	19	326	515	420
2/5/2020	20	319	500	420

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/5/2020	21	312	460	422
2/5/2020	22	297	460	420
2/5/2020	23	280	440	420
2/5/2020	24	266	420	369
2/6/2020	1	267	580	454
2/6/2020	2	256	510	420
2/6/2020	3	251	430	380
2/6/2020	4	247	420	360
2/6/2020	5	259	503	420
2/6/2020	6	271	580	480
2/6/2020	7	273	500	400
2/6/2020	8	297	550	409
2/6/2020	9	328	580	450
2/6/2020	10	348	590	430
2/6/2020	11	357	647	430
2/6/2020	12	349	550	420
2/6/2020	13	349	548	420
2/6/2020	14	363	647	580
2/6/2020	15	360	582	520
2/6/2020	16	357	500	450
2/6/2020	17	344	470	420
2/6/2020	18	344	520	440
2/6/2020	19	345	550	449
2/6/2020	20	337	550	450
2/6/2020	21	329	460	420
2/6/2020	22	315	460	420
2/6/2020	23	301	450	420
2/6/2020	24	284	420	378
2/7/2020	1	274	584	450
2/7/2020	2	266	550	430
2/7/2020	3	258	500	400
2/7/2020	4	256	460	398
2/7/2020	5	265	500	430
2/7/2020	6	278	529	500
2/7/2020	7	281	500	442
2/7/2020	8	305	520	500
2/7/2020	9	337	540	450
2/7/2020	10	358	580	474
2/7/2020	11	370	647	547
2/7/2020	12	362	550	465
2/7/2020	13	361	550	439
2/7/2020	14	375	647	647
2/7/2020	15	374	647	610
2/7/2020	16	374	580	557
2/7/2020	17	359	500	402
2/7/2020	18	356	520	455
2/7/2020	19	362	600	586
2/7/2020	20	350	534	500
2/7/2020	21	338	460	420
2/7/2020	22	318	460	402
2/7/2020	23	303	450	400
2/7/2020	24	285	400	300
2/8/2020	1	283	500	450
2/8/2020	2	275	500	430
2/8/2020	3	267	480	430
2/8/2020	4	264	490	490
2/8/2020	5	263	490	480
2/8/2020	6	266	500	492
2/8/2020	7	270	500	420
2/8/2020	8	293	529	450
2/8/2020	9	321	530	450
2/8/2020	10	343	550	500
2/8/2020	11	354	646	500
2/8/2020	12	348	523	438
2/8/2020	13	345	529	420

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/8/2020	14	354	605	500
2/8/2020	15	351	580	500
2/8/2020	16	345	500	450
2/8/2020	17	334	500	450
2/8/2020	18	342	538	450
2/8/2020	19	347	647	541
2/8/2020	20	341	584	500
2/8/2020	21	334	508	452
2/8/2020	22	321	490	450
2/8/2020	23	305	450	415
2/8/2020	24	289	450	415
2/9/2020	1	273	580	494
2/9/2020	2	264	550	430
2/9/2020	3	257	494	400
2/9/2020	4	250	424	398
2/9/2020	5	249	500	380
2/9/2020	6	249	480	380
2/9/2020	7	250	470	350
2/9/2020	8	270	500	480
2/9/2020	9	302	551	500
2/9/2020	10	311	580	510
2/9/2020	11	318	590	550
2/9/2020	12	317	550	460
2/9/2020	13	315	540	430
2/9/2020	14	321	647	561
2/9/2020	15	320	647	525
2/9/2020	16	309	550	500
2/9/2020	17	300	500	420
2/9/2020	18	323	582	550
2/9/2020	19	326	600	557
2/9/2020	20	321	580	550
2/9/2020	21	314	500	460
2/9/2020	22	305	460	434
2/9/2020	23	292	450	420
2/9/2020	24	276	420	415
2/10/2020	1	267	550	480
2/10/2020	2	258	520	420
2/10/2020	3	254	480	400
2/10/2020	4	247	420	380
2/10/2020	5	246	500	270
2/10/2020	6	242	480	250
2/10/2020	7	255	500	315
2/10/2020	8	287	540	490
2/10/2020	9	317	551	500
2/10/2020	10	338	580	510
2/10/2020	11	351	590	520
2/10/2020	12	354	540	489
2/10/2020	13	353	565	450
2/10/2020	14	367	647	647
2/10/2020	15	364	647	531
2/10/2020	16	360	550	500
2/10/2020	17	343	537	450
2/10/2020	18	345	550	500
2/10/2020	19	347	600	557
2/10/2020	20	338	580	550
2/10/2020	21	332	500	460
2/10/2020	22	318	460	434
2/10/2020	23	301	450	420
2/10/2020	24	286	420	400
2/11/2020	1	269	580	488
2/11/2020	2	259	530	440
2/11/2020	3	252	450	350
2/11/2020	4	249	400	320
2/11/2020	5	257	450	350
2/11/2020	6	268	550	450

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/11/2020	7	270	580	480
2/11/2020	8	297	590	490
2/11/2020	9	329	595	500
2/11/2020	10	347	580	510
2/11/2020	11	360	631	520
2/11/2020	12	352	503	475
2/11/2020	13	351	510	428
2/11/2020	14	362	647	608
2/11/2020	15	361	647	600
2/11/2020	16	357	580	552
2/11/2020	17	342	555	487
2/11/2020	18	346	560	490
2/11/2020	19	346	580	500
2/11/2020	20	337	559	500
2/11/2020	21	330	500	491
2/11/2020	22	312	483	450
2/11/2020	23	294	450	420
2/11/2020	24	278	420	400
2/12/2020	1	264	570	450
2/12/2020	2	256	520	420
2/12/2020	3	250	458	360
2/12/2020	4	248	441	320
2/12/2020	5	258	470	388
2/12/2020	6	271	550	450
2/12/2020	7	279	580	480
2/12/2020	8	300	590	490
2/12/2020	9	331	620	500
2/12/2020	10	353	647	528
2/12/2020	11	363	647	615
2/12/2020	12	353	503	444
2/12/2020	13	351	460	420
2/12/2020	14	364	647	647
2/12/2020	15	362	647	643
2/12/2020	16	362	573	537
2/12/2020	17	349	528	480
2/12/2020	18	349	500	480
2/12/2020	19	355	647	563
2/12/2020	20	344	520	500
2/12/2020	21	334	480	450
2/12/2020	22	315	450	420
2/12/2020	23	297	420	420
2/12/2020	24	280	420	416
2/13/2020	1	271	560	440
2/13/2020	2	261	500	423
2/13/2020	3	255	460	423
2/13/2020	4	253	430	423
2/13/2020	5	262	490	423
2/13/2020	6	274	552	450
2/13/2020	7	275	560	460
2/13/2020	8	300	580	470
2/13/2020	9	332	590	470
2/13/2020	10	351	590	470
2/13/2020	11	363	590	480
2/13/2020	12	353	510	420
2/13/2020	13	353	460	420
2/13/2020	14	369	647	549
2/13/2020	15	364	573	520
2/13/2020	16	360	540	480
2/13/2020	17	346	500	450
2/13/2020	18	349	500	460
2/13/2020	19	349	550	476
2/13/2020	20	342	520	450
2/13/2020	21	333	470	420
2/13/2020	22	317	450	420
2/13/2020	23	301	420	420

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/13/2020	24	285	420	420
2/14/2020	1	272	580	464
2/14/2020	2	264	520	425
2/14/2020	3	257	460	423
2/14/2020	4	256	448	423
2/14/2020	5	265	520	423
2/14/2020	6	275	550	450
2/14/2020	7	276	500	423
2/14/2020	8	308	550	478
2/14/2020	9	339	555	480
2/14/2020	10	359	574	480
2/14/2020	11	368	585	490
2/14/2020	12	358	463	430
2/14/2020	13	355	437	420
2/14/2020	14	368	600	553
2/14/2020	15	362	560	500
2/14/2020	16	359	500	460
2/14/2020	17	344	450	435
2/14/2020	18	345	470	420
2/14/2020	19	347	550	450
2/14/2020	20	337	500	450
2/14/2020	21	334	500	450
2/14/2020	22	311	420	415
2/14/2020	23	295	420	415
2/14/2020	24	279	465	420
2/15/2020	1	278	450	415
2/15/2020	2	269	450	415
2/15/2020	3	263	430	415
2/15/2020	4	259	415	400
2/15/2020	5	259	415	400
2/15/2020	6	263	430	415
2/15/2020	7	258	420	415
2/15/2020	8	290	450	415
2/15/2020	9	316	455	415
2/15/2020	10	338	604	420
2/15/2020	11	353	647	420
2/15/2020	12	346	550	420
2/15/2020	13	343	550	420
2/15/2020	14	352	647	420
2/15/2020	15	348	647	420
2/15/2020	16	342	548	420
2/15/2020	17	332	500	420
2/15/2020	18	340	647	420
2/15/2020	19	347	647	420
2/15/2020	20	343	647	420
2/15/2020	21	337	630	420
2/15/2020	22	324	500	420
2/15/2020	23	308	450	420
2/15/2020	24	290	449	420
2/16/2020	1	269	600	415
2/16/2020	2	260	564	415
2/16/2020	3	253	519	352
2/16/2020	4	246	489	352
2/16/2020	5	245	449	352
2/16/2020	6	245	460	344
2/16/2020	7	246	450	344
2/16/2020	8	266	480	352
2/16/2020	9	293	480	352
2/16/2020	10	302	480	420
2/16/2020	11	309	510	420
2/16/2020	12	308	427	420
2/16/2020	13	306	420	415
2/16/2020	14	312	563	420
2/16/2020	15	311	530	420
2/16/2020	16	300	420	420

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/16/2020	17	291	420	415
2/16/2020	18	314	480	420
2/16/2020	19	317	636	420
2/16/2020	20	312	540	420
2/16/2020	21	305	447	420
2/16/2020	22	296	420	418
2/16/2020	23	283	420	410
2/16/2020	24	267	465	420
2/17/2020	1	267	560	415
2/17/2020	2	259	510	415
2/17/2020	3	256	480	350
2/17/2020	4	254	454	352
2/17/2020	5	258	483	352
2/17/2020	6	269	460	352
2/17/2020	7	272	450	352
2/17/2020	8	305	480	450
2/17/2020	9	335	500	480
2/17/2020	10	356	550	480
2/17/2020	11	365	580	510
2/17/2020	12	354	500	420
2/17/2020	13	351	500	420
2/17/2020	14	365	590	556
2/17/2020	15	361	550	498
2/17/2020	16	358	540	460
2/17/2020	17	348	480	420
2/17/2020	18	348	500	420
2/17/2020	19	355	550	458
2/17/2020	20	344	490	450
2/17/2020	21	333	483	447
2/17/2020	22	312	480	420
2/17/2020	23	294	450	420
2/17/2020	24	278	420	420
2/18/2020	1	281	560	450
2/18/2020	2	271	510	420
2/18/2020	3	262	480	400
2/18/2020	4	260	450	380
2/18/2020	5	268	505	400
2/18/2020	6	277	531	400
2/18/2020	7	278	450	410
2/18/2020	8	306	561	465
2/18/2020	9	343	647	647
2/18/2020	10	367	647	647
2/18/2020	11	380	647	647
2/18/2020	12	373	647	647
2/18/2020	13	373	647	647
2/18/2020	14	390	647	647
2/18/2020	15	387	647	647
2/18/2020	16	382	647	647
2/18/2020	17	366	580	529
2/18/2020	18	360	529	455
2/18/2020	19	368	647	647
2/18/2020	20	359	647	647
2/18/2020	21	349	580	550
2/18/2020	22	330	575	500
2/18/2020	23	311	455	450
2/18/2020	24	292	455	420
2/19/2020	1	274	550	440
2/19/2020	2	265	510	420
2/19/2020	3	259	500	410
2/19/2020	4	256	469	400
2/19/2020	5	268	568	440
2/19/2020	6	281	578	450
2/19/2020	7	284	521	410
2/19/2020	8	309	561	477
2/19/2020	9	343	647	540

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/19/2020	10	368	647	636
2/19/2020	11	379	647	647
2/19/2020	12	370	647	540
2/19/2020	13	370	647	516
2/19/2020	14	385	647	647
2/19/2020	15	384	647	647
2/19/2020	16	383	647	647
2/19/2020	17	368	579	540
2/19/2020	18	368	590	552
2/19/2020	19	374	647	647
2/19/2020	20	363	647	647
2/19/2020	21	350	580	550
2/19/2020	22	328	550	519
2/19/2020	23	310	500	455
2/19/2020	24	295	474	455
2/20/2020	1	276	560	440
2/20/2020	2	266	510	433
2/20/2020	3	260	500	418
2/20/2020	4	258	488	400
2/20/2020	5	268	505	440
2/20/2020	6	282	500	442
2/20/2020	7	288	489	400
2/20/2020	8	310	530	420
2/20/2020	9	343	550	450
2/20/2020	10	363	580	470
2/20/2020	11	374	647	485
2/20/2020	12	364	550	455
2/20/2020	13	361	515	460
2/20/2020	14	375	647	520
2/20/2020	15	373	647	517
2/20/2020	16	372	580	481
2/20/2020	17	357	520	460
2/20/2020	18	357	530	460
2/20/2020	19	363	580	550
2/20/2020	20	354	550	500
2/20/2020	21	342	520	460
2/20/2020	22	324	500	460
2/20/2020	23	308	480	460
2/20/2020	24	289	460	455
2/21/2020	1	261	522	430
2/21/2020	2	250	490	420
2/21/2020	3	247	480	438
2/21/2020	4	246	436	400
2/21/2020	5	256	480	440
2/21/2020	6	271	510	450
2/21/2020	7	274	490	400
2/21/2020	8	300	520	400
2/21/2020	9	330	540	460
2/21/2020	10	349	570	460
2/21/2020	11	363	580	460
2/21/2020	12	352	540	460
2/21/2020	13	353	510	460
2/21/2020	14	364	590	460
2/21/2020	15	361	570	460
2/21/2020	16	359	550	460
2/21/2020	17	345	480	460
2/21/2020	18	339	470	460
2/21/2020	19	347	580	460
2/21/2020	20	336	550	460
2/21/2020	21	324	520	460
2/21/2020	22	306	495	460
2/21/2020	23	288	460	455
2/21/2020	24	271	460	400
2/22/2020	1	267	475	415
2/22/2020	2	258	475	415

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/22/2020	3	252	450	350
2/22/2020	4	248	457	300
2/22/2020	5	248	480	350
2/22/2020	6	253	550	350
2/22/2020	7	258	550	350
2/22/2020	8	278	580	400
2/22/2020	9	303	580	460
2/22/2020	10	324	593	460
2/22/2020	11	340	647	460
2/22/2020	12	333	515	460
2/22/2020	13	330	500	460
2/22/2020	14	340	647	460
2/22/2020	15	335	570	460
2/22/2020	16	329	550	460
2/22/2020	17	316	550	460
2/22/2020	18	320	550	460
2/22/2020	19	333	580	460
2/22/2020	20	328	550	460
2/22/2020	21	320	540	460
2/22/2020	22	306	500	460
2/22/2020	23	289	475	455
2/22/2020	24	272	475	415
2/23/2020	1	270	580	460
2/23/2020	2	260	540	460
2/23/2020	3	254	524	352
2/23/2020	4	247	490	350
2/23/2020	5	245	554	352
2/23/2020	6	244	512	352
2/23/2020	7	253	550	352
2/23/2020	8	270	580	352
2/23/2020	9	287	591	460
2/23/2020	10	295	618	460
2/23/2020	11	302	647	460
2/23/2020	12	301	533	460
2/23/2020	13	299	460	455
2/23/2020	14	305	647	460
2/23/2020	15	304	632	460
2/23/2020	16	293	550	460
2/23/2020	17	285	480	460
2/23/2020	18	307	581	460
2/23/2020	19	310	647	460
2/23/2020	20	305	550	460
2/23/2020	21	299	480	460
2/23/2020	22	289	473	460
2/23/2020	23	276	460	455
2/23/2020	24	260	460	394
2/24/2020	1	268	549	460
2/24/2020	2	258	506	460
2/24/2020	3	252	421	350
2/24/2020	4	250	420	350
2/24/2020	5	256	471	352
2/24/2020	6	274	550	352
2/24/2020	7	280	550	352
2/24/2020	8	306	580	415
2/24/2020	9	340	647	460
2/24/2020	10	360	647	460
2/24/2020	11	371	647	460
2/24/2020	12	361	580	460
2/24/2020	13	358	550	460
2/24/2020	14	372	647	460
2/24/2020	15	370	647	460
2/24/2020	16	369	647	460
2/24/2020	17	354	550	460
2/24/2020	18	354	580	460
2/24/2020	19	360	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/24/2020	20	351	622	460
2/24/2020	21	339	581	460
2/24/2020	22	321	500	460
2/24/2020	23	305	460	455
2/24/2020	24	286	460	415
2/25/2020	1	270	415	393
2/25/2020	2	266	388	350
2/25/2020	3	259	388	350
2/25/2020	4	256	386	350
2/25/2020	5	257	378	344
2/25/2020	6	258	389	350
2/25/2020	7	254	351	323
2/25/2020	8	276	356	350
2/25/2020	9	298	449	430
2/25/2020	10	324	460	455
2/25/2020	11	332	463	455
2/25/2020	12	329	566	455
2/25/2020	13	329	603	455
2/25/2020	14	339	633	559
2/25/2020	15	334	582	505
2/25/2020	16	325	637	455
2/25/2020	17	316	633	455
2/25/2020	18	330	632	503
2/25/2020	19	349	647	647
2/25/2020	20	340	647	629
2/25/2020	21	330	628	600
2/25/2020	22	312	559	483
2/25/2020	23	293	506	455
2/25/2020	24	277	415	350
2/26/2020	1	276	500	460
2/26/2020	2	262	478	460
2/26/2020	3	252	414	350
2/26/2020	4	254	444	350
2/26/2020	5	260	500	399
2/26/2020	6	278	550	498
2/26/2020	7	284	500	420
2/26/2020	8	314	550	420
2/26/2020	9	342	550	460
2/26/2020	10	366	550	460
2/26/2020	11	379	600	460
2/26/2020	12	370	510	460
2/26/2020	13	370	500	460
2/26/2020	14	383	647	511
2/26/2020	15	381	647	499
2/26/2020	16	378	550	478
2/26/2020	17	363	463	460
2/26/2020	18	360	460	455
2/26/2020	19	366	647	460
2/26/2020	20	358	647	460
2/26/2020	21	349	538	460
2/26/2020	22	332	500	460
2/26/2020	23	313	460	455
2/26/2020	24	298	460	415
2/27/2020	1	275	455	415
2/27/2020	2	268	455	415
2/27/2020	3	258	455	415
2/27/2020	4	255	455	415
2/27/2020	5	265	455	415
2/27/2020	6	277	455	420
2/27/2020	7	286	455	420
2/27/2020	8	310	480	469
2/27/2020	9	341	530	525
2/27/2020	10	364	595	586
2/27/2020	11	376	620	604
2/27/2020	12	368	509	500

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/27/2020	13	369	550	540
2/27/2020	14	383	620	610
2/27/2020	15	384	647	634
2/27/2020	16	380	547	530
2/27/2020	17	363	591	560
2/27/2020	18	356	524	520
2/27/2020	19	368	543	535
2/27/2020	20	362	539	530
2/27/2020	21	352	492	489
2/27/2020	22	334	456	456
2/27/2020	23	313	460	455
2/27/2020	24	295	420	415
2/28/2020	1	281	561	520
2/28/2020	2	273	524	485
2/28/2020	3	268	480	455
2/28/2020	4	265	455	432
2/28/2020	5	275	460	455
2/28/2020	6	287	550	455
2/28/2020	7	292	493	455
2/28/2020	8	316	520	460
2/28/2020	9	352	530	479
2/28/2020	10	371	586	514
2/28/2020	11	383	620	532
2/28/2020	12	372	480	460
2/28/2020	13	371	550	460
2/28/2020	14	386	620	517
2/28/2020	15	382	600	480
2/28/2020	16	379	520	460
2/28/2020	17	367	560	552
2/28/2020	18	361	565	520
2/28/2020	19	372	586	543
2/28/2020	20	361	550	520
2/28/2020	21	349	500	496
2/28/2020	22	329	480	460
2/28/2020	23	308	460	455
2/28/2020	24	291	460	437
2/29/2020	1	281	561	520
2/29/2020	2	266	524	485
2/29/2020	3	260	480	455
2/29/2020	4	257	455	432
2/29/2020	5	257	460	455
2/29/2020	6	261	550	455
2/29/2020	7	276	493	455
2/29/2020	8	289	455	450
2/29/2020	9	311	470	455
2/29/2020	10	331	500	499
2/29/2020	11	344	580	500
2/29/2020	12	335	480	455
2/29/2020	13	336	550	455
2/29/2020	14	345	600	540
2/29/2020	15	342	574	500
2/29/2020	16	335	550	455
2/29/2020	17	322	455	428
2/29/2020	18	326	510	455
2/29/2020	19	338	587	520
2/29/2020	20	333	550	491
2/29/2020	21	325	549	492
2/29/2020	22	309	480	455
2/29/2020	23	293	455	431
2/29/2020	24	284	479	450
3/1/2020	1	273	580	500
3/1/2020	2	264	524	485
3/1/2020	3	257	480	455
3/1/2020	4	250	455	441
3/1/2020	5	249	455	400

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/1/2020	6	249	455	420
3/1/2020	7	250	455	447
3/1/2020	8	270	573	460
3/1/2020	9	304	594	480
3/1/2020	10	313	647	499
3/1/2020	11	320	647	583
3/1/2020	12	319	556	480
3/1/2020	13	317	550	477
3/1/2020	14	323	647	546
3/1/2020	15	322	647	531
3/1/2020	16	311	523	455
3/1/2020	17	302	464	455
3/1/2020	18	325	565	472
3/1/2020	19	328	647	478
3/1/2020	20	323	572	470
3/1/2020	21	316	544	470
3/1/2020	22	307	480	455
3/1/2020	23	294	455	420
3/1/2020	24	278	420	400
3/2/2020	1	268	550	480
3/2/2020	2	258	500	460
3/2/2020	3	252	475	455
3/2/2020	4	250	455	450
3/2/2020	5	256	480	455
3/2/2020	6	270	500	460
3/2/2020	7	272	480	455
3/2/2020	8	306	580	460
3/2/2020	9	356	590	480
3/2/2020	10	374	647	499
3/2/2020	11	387	647	599
3/2/2020	12	376	556	480
3/2/2020	13	375	550	477
3/2/2020	14	390	647	512
3/2/2020	15	386	587	500
3/2/2020	16	383	523	455
3/2/2020	17	370	460	455
3/2/2020	18	364	471	455
3/2/2020	19	376	647	494
3/2/2020	20	365	572	455
3/2/2020	21	353	544	455
3/2/2020	22	333	480	455
3/2/2020	23	312	455	420
3/2/2020	24	294	420	400
3/3/2020	1	287	580	505
3/3/2020	2	280	530	481
3/3/2020	3	272	480	455
3/3/2020	4	270	460	455
3/3/2020	5	274	480	455
3/3/2020	6	286	580	507
3/3/2020	7	285	480	455
3/3/2020	8	311	580	460
3/3/2020	9	343	590	474
3/3/2020	10	364	599	500
3/3/2020	11	380	647	557
3/3/2020	12	369	549	480
3/3/2020	13	368	550	474
3/3/2020	14	386	647	551
3/3/2020	15	384	647	529
3/3/2020	16	380	550	455
3/3/2020	17	362	460	455
3/3/2020	18	355	455	450
3/3/2020	19	368	607	460
3/3/2020	20	360	552	455
3/3/2020	21	352	492	455
3/3/2020	22	333	455	450

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/3/2020	23	313	455	420
3/3/2020	24	297	420	400
3/4/2020	1	278	560	470
3/4/2020	2	268	500	455
3/4/2020	3	261	480	455
3/4/2020	4	259	460	455
3/4/2020	5	271	494	455
3/4/2020	6	286	500	480
3/4/2020	7	288	500	455
3/4/2020	8	314	523	455
3/4/2020	9	347	523	460
3/4/2020	10	370	567	460
3/4/2020	11	384	570	480
3/4/2020	12	373	550	460
3/4/2020	13	374	560	460
3/4/2020	14	389	647	484
3/4/2020	15	386	647	460
3/4/2020	16	385	623	460
3/4/2020	17	370	616	460
3/4/2020	18	366	588	460
3/4/2020	19	374	647	466
3/4/2020	20	362	580	460
3/4/2020	21	349	550	460
3/4/2020	22	328	500	460
3/4/2020	23	308	460	455
3/4/2020	24	292	460	420
3/5/2020	1	296	580	500
3/5/2020	2	287	550	460
3/5/2020	3	279	480	455
3/5/2020	4	277	455	450
3/5/2020	5	287	494	455
3/5/2020	6	298	583	550
3/5/2020	7	290	500	455
3/5/2020	8	324	523	460
3/5/2020	9	358	523	460
3/5/2020	10	383	530	460
3/5/2020	11	396	629	480
3/5/2020	12	388	522	460
3/5/2020	13	387	540	460
3/5/2020	14	403	647	492
3/5/2020	15	401	647	485
3/5/2020	16	395	647	470
3/5/2020	17	378	550	460
3/5/2020	18	369	497	460
3/5/2020	19	381	580	460
3/5/2020	20	370	500	460
3/5/2020	21	362	480	460
3/5/2020	22	348	460	455
3/5/2020	23	329	460	455
3/5/2020	24	311	460	420
3/6/2020	1	287	550	455
3/6/2020	2	279	520	455
3/6/2020	3	272	480	455
3/6/2020	4	267	455	440
3/6/2020	5	275	480	455
3/6/2020	6	285	551	500
3/6/2020	7	280	493	400
3/6/2020	8	318	520	460
3/6/2020	9	351	530	460
3/6/2020	10	371	531	460
3/6/2020	11	385	580	480
3/6/2020	12	376	477	460
3/6/2020	13	376	500	460
3/6/2020	14	392	647	520
3/6/2020	15	389	647	520

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/6/2020	16	383	647	500
3/6/2020	17	366	580	460
3/6/2020	18	356	530	460
3/6/2020	19	361	550	460
3/6/2020	20	359	500	460
3/6/2020	21	354	460	455
3/6/2020	22	339	460	455
3/6/2020	23	322	460	455
3/6/2020	24	305	460	400
3/7/2020	1	304	460	456
3/7/2020	2	293	455	406
3/7/2020	3	284	455	332
3/7/2020	4	278	455	332
3/7/2020	5	278	455	332
3/7/2020	6	280	455	400
3/7/2020	7	285	455	400
3/7/2020	8	308	456	455
3/7/2020	9	338	506	506
3/7/2020	10	362	506	484
3/7/2020	11	378	506	480
3/7/2020	12	371	477	455
3/7/2020	13	371	500	455
3/7/2020	14	382	548	520
3/7/2020	15	378	531	500
3/7/2020	16	371	560	484
3/7/2020	17	354	550	455
3/7/2020	18	351	484	460
3/7/2020	19	370	503	460
3/7/2020	20	363	508	460
3/7/2020	21	358	500	460
3/7/2020	22	345	500	460
3/7/2020	23	327	460	455
3/7/2020	24	308	460	455
3/8/2020	1	274	461	455
3/8/2020	2	266	455	455
3/8/2020	3	259	455	409
3/8/2020	4	252	455	440
3/8/2020	5	251	480	455
3/8/2020	6	251	470	455
3/8/2020	7	252	455	445
3/8/2020	8	282	520	455
3/8/2020	9	318	530	455
3/8/2020	10	333	531	460
3/8/2020	11	339	580	480
3/8/2020	12	339	550	460
3/8/2020	13	336	529	460
3/8/2020	14	343	580	520
3/8/2020	15	342	570	520
3/8/2020	16	331	560	484
3/8/2020	17	322	550	460
3/8/2020	18	313	500	460
3/8/2020	19	347	580	500
3/8/2020	20	342	550	460
3/8/2020	21	336	460	455
3/8/2020	22	327	460	455
3/8/2020	23	313	460	455
3/8/2020	24	297	460	400
3/9/2020	1	276	500	455
3/9/2020	2	267	470	455
3/9/2020	3	259	455	429
3/9/2020	4	257	455	420
3/9/2020	5	267	480	455
3/9/2020	6	278	500	455
3/9/2020	7	274	455	445
3/9/2020	8	312	520	455

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/9/2020	9	363	530	455
3/9/2020	10	388	574	460
3/9/2020	11	401	647	482
3/9/2020	12	392	550	460
3/9/2020	13	391	529	460
3/9/2020	14	408	647	481
3/9/2020	15	406	633	520
3/9/2020	16	400	600	500
3/9/2020	17	382	550	460
3/9/2020	18	374	500	460
3/9/2020	19	386	600	532
3/9/2020	20	375	581	510
3/9/2020	21	367	550	478
3/9/2020	22	353	460	455
3/9/2020	23	334	460	455
3/9/2020	24	316	460	455
3/10/2020	1	310	550	455
3/10/2020	2	294	500	455
3/10/2020	3	286	455	450
3/10/2020	4	282	455	420
3/10/2020	5	288	480	455
3/10/2020	6	296	500	455
3/10/2020	7	296	470	455
3/10/2020	8	338	520	455
3/10/2020	9	376	530	455
3/10/2020	10	399	536	460
3/10/2020	11	413	580	564
3/10/2020	12	405	582	500
3/10/2020	13	405	560	500
3/10/2020	14	421	580	520
3/10/2020	15	416	580	520
3/10/2020	16	412	564	500
3/10/2020	17	393	570	520
3/10/2020	18	381	540	480
3/10/2020	19	393	580	524
3/10/2020	20	384	520	460
3/10/2020	21	376	500	460
3/10/2020	22	362	460	460
3/10/2020	23	344	460	455
3/10/2020	24	325	460	455
3/11/2020	1	322	555	460
3/11/2020	2	313	534	460
3/11/2020	3	304	460	455
3/11/2020	4	301	460	455
3/11/2020	5	311	480	460
3/11/2020	6	325	550	500
3/11/2020	7	325	513	460
3/11/2020	8	361	520	460
3/11/2020	9	392	530	470
3/11/2020	10	428	540	480
3/11/2020	11	441	647	481
3/11/2020	12	431	647	475
3/11/2020	13	430	584	500
3/11/2020	14	446	647	603
3/11/2020	15	441	647	556
3/11/2020	16	438	647	566
3/11/2020	17	422	570	542
3/11/2020	18	415	543	480
3/11/2020	19	425	647	582
3/11/2020	20	415	580	488
3/11/2020	21	404	533	460
3/11/2020	22	384	508	460
3/11/2020	23	362	477	460
3/11/2020	24	342	460	455
3/12/2020	1	318	580	461

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/12/2020	2	305	550	460
3/12/2020	3	297	460	455
3/12/2020	4	293	460	455
3/12/2020	5	301	480	460
3/12/2020	6	308	574	500
3/12/2020	7	310	561	460
3/12/2020	8	342	520	460
3/12/2020	9	381	530	470
3/12/2020	10	405	540	480
3/12/2020	11	421	602	500
3/12/2020	12	414	550	460
3/12/2020	13	416	559	460
3/12/2020	14	434	647	647
3/12/2020	15	432	647	647
3/12/2020	16	428	647	647
3/12/2020	17	407	570	520
3/12/2020	18	394	540	460
3/12/2020	19	410	647	647
3/12/2020	20	403	647	531
3/12/2020	21	395	530	460
3/12/2020	22	379	528	460
3/12/2020	23	360	526	460
3/12/2020	24	341	460	455
3/13/2020	1	325	647	565
3/13/2020	2	306	550	460
3/13/2020	3	296	460	455
3/13/2020	4	291	460	455
3/13/2020	5	298	480	460
3/13/2020	6	306	520	460
3/13/2020	7	302	500	460
3/13/2020	8	345	520	460
3/13/2020	9	380	530	463
3/13/2020	10	404	540	477
3/13/2020	11	418	546	480
3/13/2020	12	410	516	460
3/13/2020	13	412	560	460
3/13/2020	14	429	647	647
3/13/2020	15	425	647	647
3/13/2020	16	419	647	647
3/13/2020	17	400	580	532
3/13/2020	18	389	540	460
3/13/2020	19	395	580	546
3/13/2020	20	393	560	515
3/13/2020	21	388	500	460
3/13/2020	22	377	500	460
3/13/2020	23	361	480	460
3/13/2020	24	338	460	455
3/14/2020	1	314	455	450
3/14/2020	2	303	460	455
3/14/2020	3	295	460	455
3/14/2020	4	289	460	455
3/14/2020	5	289	460	455
3/14/2020	6	291	455	352
3/14/2020	7	292	455	350
3/14/2020	8	322	455	377
3/14/2020	9	347	455	450
3/14/2020	10	376	550	485
3/14/2020	11	390	575	513
3/14/2020	12	382	498	455
3/14/2020	13	384	527	512
3/14/2020	14	397	647	607
3/14/2020	15	396	647	625
3/14/2020	16	389	604	600
3/14/2020	17	374	570	489
3/14/2020	18	372	564	485

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/14/2020	19	389	647	633
3/14/2020	20	383	610	590
3/14/2020	21	376	550	455
3/14/2020	22	362	500	499
3/14/2020	23	344	495	455
3/14/2020	24	325	455	430
3/15/2020	1	278	500	455
3/15/2020	2	266	455	450
3/15/2020	3	259	455	420
3/15/2020	4	252	455	380
3/15/2020	5	251	455	420
3/15/2020	6	251	455	450
3/15/2020	7	260	455	440
3/15/2020	8	286	480	455
3/15/2020	9	318	500	460
3/15/2020	10	332	520	460
3/15/2020	11	339	550	487
3/15/2020	12	338	500	460
3/15/2020	13	336	489	460
3/15/2020	14	343	580	550
3/15/2020	15	342	560	538
3/15/2020	16	330	548	500
3/15/2020	17	322	500	460
3/15/2020	18	312	460	455
3/15/2020	19	347	647	527
3/15/2020	20	342	570	500
3/15/2020	21	336	550	460
3/15/2020	22	326	500	460
3/15/2020	23	313	495	460
3/15/2020	24	297	460	430
3/16/2020	1	275	480	455
3/16/2020	2	265	455	450
3/16/2020	3	257	455	420
3/16/2020	4	255	455	380
3/16/2020	5	265	455	420
3/16/2020	6	276	480	455
3/16/2020	7	280	455	440
3/16/2020	8	318	480	455
3/16/2020	9	361	517	460
3/16/2020	10	387	580	508
3/16/2020	11	400	647	550
3/16/2020	12	391	580	520
3/16/2020	13	390	489	460
3/16/2020	14	407	647	544
3/16/2020	15	404	647	508
3/16/2020	16	398	555	500
3/16/2020	17	381	544	460
3/16/2020	18	372	500	460
3/16/2020	19	385	595	527
3/16/2020	20	373	510	460
3/16/2020	21	365	505	460
3/16/2020	22	351	460	459
3/16/2020	23	333	460	455
3/16/2020	24	314	460	430
3/17/2020	1	295	480	455
3/17/2020	2	284	455	450
3/17/2020	3	276	455	420
3/17/2020	4	273	455	380
3/17/2020	5	278	455	420
3/17/2020	6	282	480	455
3/17/2020	7	272	455	440
3/17/2020	8	313	480	455
3/17/2020	9	347	540	460
3/17/2020	10	367	548	460
3/17/2020	11	379	550	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/17/2020	12	375	647	460
3/17/2020	13	376	617	460
3/17/2020	14	390	647	467
3/17/2020	15	388	647	460
3/17/2020	16	383	647	460
3/17/2020	17	364	520	460
3/17/2020	18	352	470	460
3/17/2020	19	369	595	508
3/17/2020	20	364	570	460
3/17/2020	21	359	538	460
3/17/2020	22	344	474	460
3/17/2020	23	325	460	455
3/17/2020	24	310	460	361
3/18/2020	1	288	520	400
3/18/2020	2	277	466	320
3/18/2020	3	265	420	250
3/18/2020	4	257	380	250
3/18/2020	5	250	380	250
3/18/2020	6	238	480	250
3/18/2020	7	232	303	225
3/18/2020	8	255	400	250
3/18/2020	9	281	400	250
3/18/2020	10	299	400	250
3/18/2020	11	312	410	250
3/18/2020	12	313	421	250
3/18/2020	13	318	420	296
3/18/2020	14	326	500	449
3/18/2020	15	323	489	350
3/18/2020	16	321	480	371
3/18/2020	17	313	400	316
3/18/2020	18	311	353	350
3/18/2020	19	338	520	455
3/18/2020	20	344	570	455
3/18/2020	21	349	565	455
3/18/2020	22	347	540	455
3/18/2020	23	337	533	455
3/18/2020	24	323	483	455
3/19/2020	1	258	500	400
3/19/2020	2	251	459	320
3/19/2020	3	244	426	250
3/19/2020	4	242	400	288
3/19/2020	5	246	450	300
3/19/2020	6	246	455	300
3/19/2020	7	246	400	250
3/19/2020	8	254	400	250
3/19/2020	9	275	450	250
3/19/2020	10	283	460	302
3/19/2020	11	293	480	364
3/19/2020	12	288	450	341
3/19/2020	13	285	420	340
3/19/2020	14	292	425	340
3/19/2020	15	292	420	330
3/19/2020	16	285	420	330
3/19/2020	17	269	420	300
3/19/2020	18	270	420	327
3/19/2020	19	287	480	437
3/19/2020	20	282	450	376
3/19/2020	21	282	400	341
3/19/2020	22	277	380	300
3/19/2020	23	266	362	300
3/19/2020	24	256	360	300
3/20/2020	1	245	530	427
3/20/2020	2	236	466	320
3/20/2020	3	228	410	250
3/20/2020	4	221	380	250

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/20/2020	5	220	410	280
3/20/2020	6	219	480	324
3/20/2020	7	218	475	320
3/20/2020	8	231	400	313
3/20/2020	9	252	400	253
3/20/2020	10	267	425	350
3/20/2020	11	279	449	350
3/20/2020	12	276	409	300
3/20/2020	13	277	420	313
3/20/2020	14	287	480	420
3/20/2020	15	287	460	400
3/20/2020	16	282	450	380
3/20/2020	17	268	420	320
3/20/2020	18	265	350	350
3/20/2020	19	281	480	420
3/20/2020	20	277	455	420
3/20/2020	21	275	455	435
3/20/2020	22	269	455	420
3/20/2020	23	258	455	420
3/20/2020	24	246	455	420
3/21/2020	1	244	450	400
3/21/2020	2	235	450	360
3/21/2020	3	226	450	271
3/21/2020	4	219	450	269
3/21/2020	5	216	450	250
3/21/2020	6	215	442	250
3/21/2020	7	216	424	226
3/21/2020	8	229	403	226
3/21/2020	9	249	424	240
3/21/2020	10	260	425	350
3/21/2020	11	273	470	445
3/21/2020	12	272	468	350
3/21/2020	13	275	447	350
3/21/2020	14	286	500	382
3/21/2020	15	286	519	350
3/21/2020	16	283	543	350
3/21/2020	17	267	470	350
3/21/2020	18	267	450	350
3/21/2020	19	292	555	455
3/21/2020	20	290	552	455
3/21/2020	21	293	556	455
3/21/2020	22	289	556	455
3/21/2020	23	277	519	455
3/21/2020	24	266	519	455
3/22/2020	1	244	540	465
3/22/2020	2	235	472	400
3/22/2020	3	225	432	300
3/22/2020	4	219	403	300
3/22/2020	5	218	400	280
3/22/2020	6	217	400	324
3/22/2020	7	216	420	330
3/22/2020	8	225	430	338
3/22/2020	9	232	450	323
3/22/2020	10	243	415	350
3/22/2020	11	255	480	402
3/22/2020	12	251	420	350
3/22/2020	13	254	465	370
3/22/2020	14	265	480	455
3/22/2020	15	266	460	455
3/22/2020	16	261	455	450
3/22/2020	17	247	455	420
3/22/2020	18	247	455	400
3/22/2020	19	272	550	455
3/22/2020	20	270	500	455
3/22/2020	21	269	480	455

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/22/2020	22	269	455	450
3/22/2020	23	257	455	450
3/22/2020	24	247	455	420
3/23/2020	1	242	512	450
3/23/2020	2	236	491	400
3/23/2020	3	228	430	362
3/23/2020	4	221	420	343
3/23/2020	5	220	400	330
3/23/2020	6	219	400	368
3/23/2020	7	218	420	250
3/23/2020	8	231	419	300
3/23/2020	9	259	450	305
3/23/2020	10	273	415	350
3/23/2020	11	286	480	402
3/23/2020	12	282	420	400
3/23/2020	13	284	465	400
3/23/2020	14	293	476	400
3/23/2020	15	293	460	455
3/23/2020	16	289	455	450
3/23/2020	17	274	455	420
3/23/2020	18	271	455	400
3/23/2020	19	288	455	450
3/23/2020	20	283	455	440
3/23/2020	21	282	455	450
3/23/2020	22	276	455	450
3/23/2020	23	264	455	450
3/23/2020	24	252	455	420
3/24/2020	1	271	550	455
3/24/2020	2	262	480	455
3/24/2020	3	253	455	450
3/24/2020	4	245	455	440
3/24/2020	5	241	455	400
3/24/2020	6	240	455	400
3/24/2020	7	230	420	350
3/24/2020	8	234	419	350
3/24/2020	9	252	455	446
3/24/2020	10	264	455	447
3/24/2020	11	277	487	455
3/24/2020	12	276	455	450
3/24/2020	13	279	460	455
3/24/2020	14	290	500	455
3/24/2020	15	291	455	449
3/24/2020	16	285	455	438
3/24/2020	17	270	455	380
3/24/2020	18	270	455	395
3/24/2020	19	293	550	455
3/24/2020	20	291	534	455
3/24/2020	21	294	550	455
3/24/2020	22	289	550	455
3/24/2020	23	285	540	455
3/24/2020	24	280	484	455
3/25/2020	1	251	580	455
3/25/2020	2	241	520	455
3/25/2020	3	233	455	450
3/25/2020	4	227	455	440
3/25/2020	5	225	455	400
3/25/2020	6	226	455	400
3/25/2020	7	225	455	420
3/25/2020	8	244	455	419
3/25/2020	9	263	455	420
3/25/2020	10	276	455	448
3/25/2020	11	289	455	450
3/25/2020	12	285	455	450
3/25/2020	13	286	457	455
3/25/2020	14	297	550	455

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/25/2020	15	298	480	455
3/25/2020	16	294	455	438
3/25/2020	17	278	455	420
3/25/2020	18	274	455	400
3/25/2020	19	292	580	455
3/25/2020	20	289	550	455
3/25/2020	21	287	550	480
3/25/2020	22	281	540	480
3/25/2020	23	268	510	455
3/25/2020	24	256	455	439
3/26/2020	1	249	580	455
3/26/2020	2	240	520	455
3/26/2020	3	231	455	450
3/26/2020	4	223	455	440
3/26/2020	5	219	455	400
3/26/2020	6	217	455	400
3/26/2020	7	216	455	420
3/26/2020	8	230	455	419
3/26/2020	9	245	455	420
3/26/2020	10	258	455	448
3/26/2020	11	269	455	450
3/26/2020	12	269	455	450
3/26/2020	13	272	457	455
3/26/2020	14	282	550	455
3/26/2020	15	283	480	455
3/26/2020	16	276	455	438
3/26/2020	17	262	455	420
3/26/2020	18	262	455	400
3/26/2020	19	282	580	455
3/26/2020	20	280	550	455
3/26/2020	21	284	550	480
3/26/2020	22	279	540	480
3/26/2020	23	269	510	455
3/26/2020	24	259	455	439
3/27/2020	1	249	520	455
3/27/2020	2	238	520	455
3/27/2020	3	229	459	455
3/27/2020	4	221	455	429
3/27/2020	5	216	455	409
3/27/2020	6	214	455	403
3/27/2020	7	207	350	350
3/27/2020	8	225	455	430
3/27/2020	9	239	455	440
3/27/2020	10	251	460	455
3/27/2020	11	262	467	455
3/27/2020	12	261	455	439
3/27/2020	13	265	455	448
3/27/2020	14	275	579	455
3/27/2020	15	277	556	455
3/27/2020	16	271	516	455
3/27/2020	17	258	455	444
3/27/2020	18	259	455	450
3/27/2020	19	281	570	455
3/27/2020	20	280	550	455
3/27/2020	21	283	550	455
3/27/2020	22	280	580	488
3/27/2020	23	270	510	455
3/27/2020	24	260	480	455
3/28/2020	1	264	486	455
3/28/2020	2	249	459	455
3/28/2020	3	240	455	403
3/28/2020	4	231	403	358
3/28/2020	5	225	400	316
3/28/2020	6	222	398	316
3/28/2020	7	215	374	280

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/28/2020	8	225	395	280
3/28/2020	9	239	385	330
3/28/2020	10	251	384	341
3/28/2020	11	263	439	339
3/28/2020	12	261	434	342
3/28/2020	13	266	438	346
3/28/2020	14	276	453	448
3/28/2020	15	278	450	444
3/28/2020	16	272	447	441
3/28/2020	17	261	434	349
3/28/2020	18	262	430	359
3/28/2020	19	286	506	455
3/28/2020	20	286	504	455
3/28/2020	21	290	511	458
3/28/2020	22	289	521	462
3/28/2020	23	279	477	455
3/28/2020	24	268	465	448
3/29/2020	1	249	520	455
3/29/2020	2	238	520	455
3/29/2020	3	229	459	455
3/29/2020	4	221	455	429
3/29/2020	5	216	455	409
3/29/2020	6	214	455	403
3/29/2020	7	207	350	350
3/29/2020	8	225	455	430
3/29/2020	9	239	455	440
3/29/2020	10	251	460	455
3/29/2020	11	262	467	455
3/29/2020	12	261	455	439
3/29/2020	13	265	455	448
3/29/2020	14	275	579	455
3/29/2020	15	277	556	455
3/29/2020	16	271	516	455
3/29/2020	17	258	455	444
3/29/2020	18	259	455	450
3/29/2020	19	281	570	455
3/29/2020	20	280	550	455
3/29/2020	21	283	550	455
3/29/2020	22	280	580	488
3/29/2020	23	270	510	455
3/29/2020	24	260	480	455
3/30/2020	1	248	570	480
3/30/2020	2	237	520	455
3/30/2020	3	228	460	455
3/30/2020	4	220	455	430
3/30/2020	5	216	455	410
3/30/2020	6	214	455	400
3/30/2020	7	207	380	254
3/30/2020	8	224	400	350
3/30/2020	9	250	455	453
3/30/2020	10	263	455	425
3/30/2020	11	276	511	455
3/30/2020	12	276	455	454
3/30/2020	13	278	501	455
3/30/2020	14	288	536	455
3/30/2020	15	290	568	455
3/30/2020	16	283	520	455
3/30/2020	17	264	455	450
3/30/2020	18	263	455	450
3/30/2020	19	284	570	455
3/30/2020	20	285	580	455
3/30/2020	21	289	590	455
3/30/2020	22	287	580	455
3/30/2020	23	278	555	455
3/30/2020	24	266	530	455

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/31/2020	1	255	580	475
3/31/2020	2	244	540	455
3/31/2020	3	234	460	455
3/31/2020	4	226	455	430
3/31/2020	5	221	455	410
3/31/2020	6	218	455	400
3/31/2020	7	218	455	392
3/31/2020	8	231	455	442
3/31/2020	9	246	455	445
3/31/2020	10	259	455	401
3/31/2020	11	272	459	455
3/31/2020	12	271	455	420
3/31/2020	13	274	455	450
3/31/2020	14	283	536	455
3/31/2020	15	285	568	455
3/31/2020	16	278	455	451
3/31/2020	17	265	455	403
3/31/2020	18	264	455	400
3/31/2020	19	286	560	455
3/31/2020	20	286	555	455
3/31/2020	21	290	580	455
3/31/2020	22	287	550	455
3/31/2020	23	277	500	455
3/31/2020	24	266	480	455
4/1/2020	1	228	550	455
4/1/2020	2	220	500	455
4/1/2020	3	212	455	440
4/1/2020	4	207	455	400
4/1/2020	5	208	455	384
4/1/2020	6	211	455	450
4/1/2020	7	214	455	400
4/1/2020	8	229	455	449
4/1/2020	9	245	455	450
4/1/2020	10	266	455	450
4/1/2020	11	276	459	455
4/1/2020	12	271	455	420
4/1/2020	13	272	455	450
4/1/2020	14	282	519	455
4/1/2020	15	280	518	455
4/1/2020	16	277	480	455
4/1/2020	17	263	455	366
4/1/2020	18	260	455	400
4/1/2020	19	274	497	455
4/1/2020	20	271	462	455
4/1/2020	21	269	455	450
4/1/2020	22	261	455	450
4/1/2020	23	248	455	446
4/1/2020	24	237	455	432
4/2/2020	1	253	556	455
4/2/2020	2	242	500	455
4/2/2020	3	232	455	450
4/2/2020	4	224	455	400
4/2/2020	5	220	455	384
4/2/2020	6	218	455	450
4/2/2020	7	224	455	450
4/2/2020	8	235	455	450
4/2/2020	9	250	455	450
4/2/2020	10	265	455	450
4/2/2020	11	278	459	455
4/2/2020	12	276	455	420
4/2/2020	13	279	502	455
4/2/2020	14	289	512	455
4/2/2020	15	289	559	455
4/2/2020	16	283	500	455
4/2/2020	17	268	455	420

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/2/2020	18	266	455	420
4/2/2020	19	290	540	455
4/2/2020	20	291	550	455
4/2/2020	21	296	570	455
4/2/2020	22	293	550	456
4/2/2020	23	283	500	455
4/2/2020	24	271	506	455
4/3/2020	1	262	580	500
4/3/2020	2	251	520	455
4/3/2020	3	240	470	455
4/3/2020	4	231	455	410
4/3/2020	5	226	455	400
4/3/2020	6	221	455	450
4/3/2020	7	223	455	450
4/3/2020	8	238	455	450
4/3/2020	9	257	470	455
4/3/2020	10	272	480	455
4/3/2020	11	286	500	470
4/3/2020	12	286	455	420
4/3/2020	13	292	539	455
4/3/2020	14	303	550	455
4/3/2020	15	304	550	455
4/3/2020	16	294	500	455
4/3/2020	17	274	455	420
4/3/2020	18	271	455	420
4/3/2020	19	297	540	455
4/3/2020	20	301	550	455
4/3/2020	21	307	570	455
4/3/2020	22	305	580	500
4/3/2020	23	295	550	482
4/3/2020	24	281	506	455
4/4/2020	1	255	451	441
4/4/2020	2	243	446	401
4/4/2020	3	233	447	415
4/4/2020	4	225	445	375
4/4/2020	5	219	449	386
4/4/2020	6	216	417	373
4/4/2020	7	216	362	356
4/4/2020	8	228	367	361
4/4/2020	9	243	428	371
4/4/2020	10	256	437	375
4/4/2020	11	268	437	375
4/4/2020	12	267	441	379
4/4/2020	13	270	444	378
4/4/2020	14	279	444	378
4/4/2020	15	280	444	399
4/4/2020	16	273	450	384
4/4/2020	17	260	420	380
4/4/2020	18	259	421	379
4/4/2020	19	283	450	440
4/4/2020	20	283	447	404
4/4/2020	21	288	470	446
4/4/2020	22	286	459	451
4/4/2020	23	276	457	453
4/4/2020	24	264	453	417
4/5/2020	1	252	570	496
4/5/2020	2	242	520	455
4/5/2020	3	232	469	455
4/5/2020	4	223	455	414
4/5/2020	5	219	455	400
4/5/2020	6	217	455	450
4/5/2020	7	223	480	455
4/5/2020	8	234	500	455
4/5/2020	9	250	522	455
4/5/2020	10	265	532	455

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/5/2020	11	278	577	455
4/5/2020	12	276	502	455
4/5/2020	13	279	550	455
4/5/2020	14	289	580	460
4/5/2020	15	289	570	491
4/5/2020	16	283	550	455
4/5/2020	17	266	520	455
4/5/2020	18	265	500	455
4/5/2020	19	289	580	537
4/5/2020	20	290	580	548
4/5/2020	21	294	570	481
4/5/2020	22	292	589	564
4/5/2020	23	281	559	455
4/5/2020	24	270	500	455
4/6/2020	1	253	580	490
4/6/2020	2	242	510	455
4/6/2020	3	232	460	455
4/6/2020	4	224	455	410
4/6/2020	5	220	455	400
4/6/2020	6	217	455	440
4/6/2020	7	223	470	455
4/6/2020	8	234	480	455
4/6/2020	9	251	500	455
4/6/2020	10	265	500	455
4/6/2020	11	278	570	457
4/6/2020	12	276	509	455
4/6/2020	13	279	550	455
4/6/2020	14	289	590	455
4/6/2020	15	290	574	491
4/6/2020	16	283	554	455
4/6/2020	17	267	524	455
4/6/2020	18	265	500	455
4/6/2020	19	289	580	500
4/6/2020	20	290	580	505
4/6/2020	21	294	570	481
4/6/2020	22	292	589	564
4/6/2020	23	282	559	455
4/6/2020	24	270	500	455
4/7/2020	1	255	460	444
4/7/2020	2	243	460	415
4/7/2020	3	234	460	417
4/7/2020	4	225	460	415
4/7/2020	5	220	442	395
4/7/2020	6	217	402	355
4/7/2020	7	217	358	348
4/7/2020	8	233	362	334
4/7/2020	9	251	414	358
4/7/2020	10	266	425	362
4/7/2020	11	278	460	412
4/7/2020	12	278	433	383
4/7/2020	13	282	459	408
4/7/2020	14	291	460	436
4/7/2020	15	291	460	456
4/7/2020	16	282	460	438
4/7/2020	17	266	460	426
4/7/2020	18	264	460	419
4/7/2020	19	287	507	460
4/7/2020	20	288	553	460
4/7/2020	21	294	549	460
4/7/2020	22	292	568	460
4/7/2020	23	282	460	452
4/7/2020	24	270	460	451
4/8/2020	1	249	580	490
4/8/2020	2	239	510	455
4/8/2020	3	229	460	455

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/8/2020	4	220	455	410
4/8/2020	5	219	455	400
4/8/2020	6	215	455	440
4/8/2020	7	220	470	455
4/8/2020	8	230	480	455
4/8/2020	9	245	500	455
4/8/2020	10	259	500	455
4/8/2020	11	270	526	455
4/8/2020	12	269	487	455
4/8/2020	13	274	506	455
4/8/2020	14	284	550	455
4/8/2020	15	285	574	474
4/8/2020	16	276	499	455
4/8/2020	17	253	455	430
4/8/2020	18	249	455	350
4/8/2020	19	273	550	455
4/8/2020	20	276	570	455
4/8/2020	21	281	590	479
4/8/2020	22	277	590	500
4/8/2020	23	267	560	460
4/8/2020	24	255	500	455
4/9/2020	1	249	570	480
4/9/2020	2	239	500	455
4/9/2020	3	229	455	450
4/9/2020	4	220	455	410
4/9/2020	5	219	455	400
4/9/2020	6	215	455	440
4/9/2020	7	220	470	455
4/9/2020	8	230	455	380
4/9/2020	9	245	455	450
4/9/2020	10	259	460	455
4/9/2020	11	270	480	455
4/9/2020	12	269	455	434
4/9/2020	13	274	480	455
4/9/2020	14	284	550	455
4/9/2020	15	285	580	474
4/9/2020	16	276	490	455
4/9/2020	17	253	455	350
4/9/2020	18	249	455	309
4/9/2020	19	273	520	455
4/9/2020	20	276	570	455
4/9/2020	21	281	590	467
4/9/2020	22	277	589	460
4/9/2020	23	267	560	460
4/9/2020	24	255	500	455
4/10/2020	1	228	395	342
4/10/2020	2	222	400	348
4/10/2020	3	214	401	348
4/10/2020	4	207	397	345
4/10/2020	5	200	366	272
4/10/2020	6	191	353	266
4/10/2020	7	187	343	265
4/10/2020	8	191	364	262
4/10/2020	9	196	371	259
4/10/2020	10	203	347	271
4/10/2020	11	211	371	315
4/10/2020	12	212	372	317
4/10/2020	13	216	368	315
4/10/2020	14	221	384	329
4/10/2020	15	221	377	374
4/10/2020	16	215	376	321
4/10/2020	17	208	375	320
4/10/2020	18	206	370	314
4/10/2020	19	229	398	375
4/10/2020	20	234	444	382

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/10/2020	21	243	438	381
4/10/2020	22	246	506	392
4/10/2020	23	241	473	397
4/10/2020	24	233	402	353
4/11/2020	1	241	487	455
4/11/2020	2	230	455	400
4/11/2020	3	220	455	380
4/11/2020	4	212	455	361
4/11/2020	5	212	455	380
4/11/2020	6	206	455	335
4/11/2020	7	212	455	358
4/11/2020	8	219	455	334
4/11/2020	9	226	455	350
4/11/2020	10	240	455	336
4/11/2020	11	253	455	337
4/11/2020	12	251	455	341
4/11/2020	13	255	455	340
4/11/2020	14	265	473	455
4/11/2020	15	265	470	455
4/11/2020	16	258	455	443
4/11/2020	17	243	455	350
4/11/2020	18	242	455	388
4/11/2020	19	266	507	455
4/11/2020	20	267	500	455
4/11/2020	21	271	550	455
4/11/2020	22	268	542	455
4/11/2020	23	258	480	455
4/11/2020	24	247	455	451
4/12/2020	1	245	549	460
4/12/2020	2	234	460	455
4/12/2020	3	224	455	420
4/12/2020	4	216	455	400
4/12/2020	5	216	455	400
4/12/2020	6	210	455	350
4/12/2020	7	216	455	453
4/12/2020	8	223	485	455
4/12/2020	9	236	579	455
4/12/2020	10	251	564	455
4/12/2020	11	263	570	455
4/12/2020	12	262	520	455
4/12/2020	13	265	500	455
4/12/2020	14	275	580	455
4/12/2020	15	275	520	455
4/12/2020	16	268	500	455
4/12/2020	17	254	480	455
4/12/2020	18	252	460	455
4/12/2020	19	276	580	455
4/12/2020	20	277	590	460
4/12/2020	21	281	600	470
4/12/2020	22	279	590	460
4/12/2020	23	268	500	455
4/12/2020	24	257	480	455
4/13/2020	1	268	590	480
4/13/2020	2	257	580	469
4/13/2020	3	247	510	460
4/13/2020	4	237	455	420
4/13/2020	5	231	455	410
4/13/2020	6	226	455	400
4/13/2020	7	219	455	397
4/13/2020	8	237	484	455
4/13/2020	9	254	500	455
4/13/2020	10	268	455	452
4/13/2020	11	279	570	455
4/13/2020	12	278	520	455
4/13/2020	13	283	500	455

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/13/2020	14	292	570	480
4/13/2020	15	292	504	459
4/13/2020	16	283	500	455
4/13/2020	17	266	480	455
4/13/2020	18	265	455	420
4/13/2020	19	288	580	455
4/13/2020	20	292	590	459
4/13/2020	21	303	600	503
4/13/2020	22	296	590	477
4/13/2020	23	286	580	480
4/13/2020	24	274	480	455
4/14/2020	1	268	590	480
4/14/2020	2	257	580	469
4/14/2020	3	247	510	460
4/14/2020	4	237	455	420
4/14/2020	5	231	455	410
4/14/2020	6	226	455	400
4/14/2020	7	219	455	397
4/14/2020	8	237	484	455
4/14/2020	9	254	500	455
4/14/2020	10	268	455	452
4/14/2020	11	279	570	455
4/14/2020	12	278	520	455
4/14/2020	13	283	500	455
4/14/2020	14	292	570	480
4/14/2020	15	292	504	459
4/14/2020	16	283	500	455
4/14/2020	17	266	480	455
4/14/2020	18	265	455	420
4/14/2020	19	288	580	455
4/14/2020	20	292	590	459
4/14/2020	21	303	600	503
4/14/2020	22	296	590	477
4/14/2020	23	286	580	480
4/14/2020	24	274	480	455
4/15/2020	1	268	590	490
4/15/2020	2	254	580	470
4/15/2020	3	243	510	455
4/15/2020	4	234	455	420
4/15/2020	5	228	455	410
4/15/2020	6	223	455	400
4/15/2020	7	220	455	397
4/15/2020	8	236	455	450
4/15/2020	9	254	485	455
4/15/2020	10	269	455	452
4/15/2020	11	282	591	482
4/15/2020	12	281	520	455
4/15/2020	13	286	500	455
4/15/2020	14	296	570	455
4/15/2020	15	296	504	455
4/15/2020	16	284	480	455
4/15/2020	17	265	480	455
4/15/2020	18	263	455	384
4/15/2020	19	287	580	455
4/15/2020	20	291	590	466
4/15/2020	21	298	600	470
4/15/2020	22	295	590	480
4/15/2020	23	285	580	480
4/15/2020	24	273	480	455
4/16/2020	1	265	580	470
4/16/2020	2	254	520	455
4/16/2020	3	244	455	450
4/16/2020	4	235	455	420
4/16/2020	5	230	455	410
4/16/2020	6	228	455	400

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/16/2020	7	229	455	397
4/16/2020	8	246	484	455
4/16/2020	9	265	500	455
4/16/2020	10	279	500	455
4/16/2020	11	292	570	455
4/16/2020	12	291	520	455
4/16/2020	13	294	500	455
4/16/2020	14	304	570	455
4/16/2020	15	304	504	455
4/16/2020	16	296	500	455
4/16/2020	17	279	480	455
4/16/2020	18	276	460	455
4/16/2020	19	300	580	468
4/16/2020	20	301	590	459
4/16/2020	21	307	600	503
4/16/2020	22	304	590	460
4/16/2020	23	293	580	480
4/16/2020	24	280	480	455
4/17/2020	1	263	600	455
4/17/2020	2	251	570	455
4/17/2020	3	240	520	455
4/17/2020	4	232	493	455
4/17/2020	5	226	455	408
4/17/2020	6	221	455	403
4/17/2020	7	223	455	423
4/17/2020	8	237	455	450
4/17/2020	9	255	455	450
4/17/2020	10	268	455	450
4/17/2020	11	279	579	455
4/17/2020	12	280	512	455
4/17/2020	13	285	534	455
4/17/2020	14	295	580	455
4/17/2020	15	296	534	455
4/17/2020	16	286	486	455
4/17/2020	17	269	455	408
4/17/2020	18	267	455	420
4/17/2020	19	291	548	455
4/17/2020	20	294	570	455
4/17/2020	21	300	590	455
4/17/2020	22	297	629	455
4/17/2020	23	286	600	455
4/17/2020	24	274	619	455
4/18/2020	1	265	550	460
4/18/2020	2	253	525	460
4/18/2020	3	243	460	450
4/18/2020	4	234	460	450
4/18/2020	5	228	450	420
4/18/2020	6	220	450	420
4/18/2020	7	219	450	414
4/18/2020	8	227	414	393
4/18/2020	9	240	414	382
4/18/2020	10	251	414	384
4/18/2020	11	261	429	414
4/18/2020	12	263	432	414
4/18/2020	13	267	430	414
4/18/2020	14	276	429	414
4/18/2020	15	275	429	414
4/18/2020	16	266	428	414
4/18/2020	17	254	421	414
4/18/2020	18	258	429	414
4/18/2020	19	283	450	431
4/18/2020	20	286	450	435
4/18/2020	21	292	534	434
4/18/2020	22	291	564	441
4/18/2020	23	282	535	439

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/18/2020	24	269	525	427
4/19/2020	1	265	580	460
4/19/2020	2	254	550	460
4/19/2020	3	244	500	460
4/19/2020	4	235	460	455
4/19/2020	5	230	489	460
4/19/2020	6	228	460	455
4/19/2020	7	229	460	455
4/19/2020	8	246	580	460
4/19/2020	9	252	550	460
4/19/2020	10	265	532	460
4/19/2020	11	277	579	460
4/19/2020	12	276	460	455
4/19/2020	13	277	473	460
4/19/2020	14	284	616	460
4/19/2020	15	286	625	460
4/19/2020	16	276	486	460
4/19/2020	17	258	460	455
4/19/2020	18	257	460	455
4/19/2020	19	281	647	460
4/19/2020	20	283	647	460
4/19/2020	21	288	647	460
4/19/2020	22	284	629	460
4/19/2020	23	274	600	455
4/19/2020	24	262	619	455
4/20/2020	1	261	590	460
4/20/2020	2	250	560	460
4/20/2020	3	240	520	460
4/20/2020	4	231	460	455
4/20/2020	5	226	489	455
4/20/2020	6	224	455	450
4/20/2020	7	225	455	450
4/20/2020	8	242	580	455
4/20/2020	9	260	550	455
4/20/2020	10	273	500	455
4/20/2020	11	285	563	455
4/20/2020	12	284	455	454
4/20/2020	13	285	473	455
4/20/2020	14	292	616	455
4/20/2020	15	294	625	455
4/20/2020	16	284	486	455
4/20/2020	17	266	455	408
4/20/2020	18	265	455	420
4/20/2020	19	289	568	460
4/20/2020	20	290	617	460
4/20/2020	21	296	647	460
4/20/2020	22	292	629	460
4/20/2020	23	282	600	455
4/20/2020	24	270	619	455
4/21/2020	1	281	580	460
4/21/2020	2	264	550	455
4/21/2020	3	254	520	455
4/21/2020	4	244	456	455
4/21/2020	5	238	455	436
4/21/2020	6	234	455	440
4/21/2020	7	234	455	352
4/21/2020	8	251	455	443
4/21/2020	9	269	463	455
4/21/2020	10	284	470	455
4/21/2020	11	296	514	455
4/21/2020	12	296	455	440
4/21/2020	13	303	557	455
4/21/2020	14	311	590	455
4/21/2020	15	311	580	455
4/21/2020	16	300	470	455

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/21/2020	17	283	455	420
4/21/2020	18	281	455	420
4/21/2020	19	306	596	470
4/21/2020	20	309	617	526
4/21/2020	21	318	647	550
4/21/2020	22	316	580	480
4/21/2020	23	305	600	460
4/21/2020	24	292	550	460
4/22/2020	1	282	647	559
4/22/2020	2	271	580	511
4/22/2020	3	259	520	460
4/22/2020	4	249	460	456
4/22/2020	5	242	460	455
4/22/2020	6	236	460	455
4/22/2020	7	244	460	455
4/22/2020	8	262	460	455
4/22/2020	9	281	463	460
4/22/2020	10	297	470	460
4/22/2020	11	309	550	480
4/22/2020	12	306	460	455
4/22/2020	13	311	520	460
4/22/2020	14	320	550	460
4/22/2020	15	319	549	460
4/22/2020	16	306	470	460
4/22/2020	17	287	460	455
4/22/2020	18	286	460	455
4/22/2020	19	310	551	500
4/22/2020	20	314	570	500
4/22/2020	21	321	647	647
4/22/2020	22	317	647	647
4/22/2020	23	307	647	647
4/22/2020	24	289	647	647
4/23/2020	1	291	647	598
4/23/2020	2	280	580	489
4/23/2020	3	267	550	474
4/23/2020	4	257	460	460
4/23/2020	5	251	460	455
4/23/2020	6	246	460	455
4/23/2020	7	247	460	455
4/23/2020	8	265	460	455
4/23/2020	9	283	508	460
4/23/2020	10	298	510	460
4/23/2020	11	311	596	500
4/23/2020	12	308	561	460
4/23/2020	13	312	580	460
4/23/2020	14	321	590	470
4/23/2020	15	321	585	470
4/23/2020	16	309	560	470
4/23/2020	17	291	462	460
4/23/2020	18	290	460	455
4/23/2020	19	315	580	520
4/23/2020	20	317	590	530
4/23/2020	21	324	647	541
4/23/2020	22	319	647	560
4/23/2020	23	308	600	580
4/23/2020	24	296	590	570
4/24/2020	1	279	590	504
4/24/2020	2	272	550	480
4/24/2020	3	262	546	460
4/24/2020	4	253	479	460
4/24/2020	5	245	460	455
4/24/2020	6	236	460	455
4/24/2020	7	245	460	455
4/24/2020	8	261	460	455
4/24/2020	9	274	550	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/24/2020	10	285	560	460
4/24/2020	11	296	580	460
4/24/2020	12	295	550	460
4/24/2020	13	301	570	460
4/24/2020	14	309	590	460
4/24/2020	15	307	570	460
4/24/2020	16	298	550	460
4/24/2020	17	284	500	460
4/24/2020	18	283	460	460
4/24/2020	19	310	580	474
4/24/2020	20	315	590	490
4/24/2020	21	324	647	647
4/24/2020	22	325	600	580
4/24/2020	23	315	600	565
4/24/2020	24	299	585	500
4/25/2020	1	278	647	647
4/25/2020	2	267	600	550
4/25/2020	3	257	546	477
4/25/2020	4	249	479	460
4/25/2020	5	243	460	455
4/25/2020	6	239	460	455
4/25/2020	7	245	460	455
4/25/2020	8	265	475	460
4/25/2020	9	275	498	460
4/25/2020	10	300	560	460
4/25/2020	11	314	647	647
4/25/2020	12	312	647	647
4/25/2020	13	318	647	647
4/25/2020	14	329	647	647
4/25/2020	15	327	647	647
4/25/2020	16	314	647	647
4/25/2020	17	293	647	647
4/25/2020	18	291	647	647
4/25/2020	19	317	647	647
4/25/2020	20	321	647	647
4/25/2020	21	328	647	647
4/25/2020	22	325	647	647
4/25/2020	23	315	647	647
4/25/2020	24	301	647	647
4/26/2020	1	275	647	647
4/26/2020	2	268	647	601
4/26/2020	3	259	546	460
4/26/2020	4	250	494	460
4/26/2020	5	242	460	455
4/26/2020	6	232	460	460
4/26/2020	7	241	480	460
4/26/2020	8	257	580	509
4/26/2020	9	269	647	647
4/26/2020	10	283	647	647
4/26/2020	11	296	647	560
4/26/2020	12	296	580	560
4/26/2020	13	302	594	550
4/26/2020	14	314	647	647
4/26/2020	15	313	647	647
4/26/2020	16	300	580	520
4/26/2020	17	278	570	480
4/26/2020	18	273	560	460
4/26/2020	19	298	580	470
4/26/2020	20	304	647	542
4/26/2020	21	313	647	647
4/26/2020	22	312	647	647
4/26/2020	23	302	647	605
4/26/2020	24	289	580	546
4/27/2020	1	274	647	526
4/27/2020	2	268	647	493

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/27/2020	3	259	546	455
4/27/2020	4	250	494	455
4/27/2020	5	242	460	450
4/27/2020	6	232	460	455
4/27/2020	7	241	480	455
4/27/2020	8	257	580	455
4/27/2020	9	286	647	497
4/27/2020	10	300	647	510
4/27/2020	11	313	647	500
4/27/2020	12	313	580	460
4/27/2020	13	319	594	460
4/27/2020	14	331	647	467
4/27/2020	15	330	647	460
4/27/2020	16	317	580	455
4/27/2020	17	295	570	455
4/27/2020	18	289	560	455
4/27/2020	19	315	580	466
4/27/2020	20	321	647	506
4/27/2020	21	330	647	510
4/27/2020	22	328	647	539
4/27/2020	23	319	647	519
4/27/2020	24	306	580	500
4/28/2020	1	287	647	562
4/28/2020	2	275	580	500
4/28/2020	3	263	530	460
4/28/2020	4	254	480	460
4/28/2020	5	248	460	455
4/28/2020	6	241	460	455
4/28/2020	7	237	465	455
4/28/2020	8	267	550	455
4/28/2020	9	285	560	495
4/28/2020	10	301	570	500
4/28/2020	11	313	580	510
4/28/2020	12	313	520	460
4/28/2020	13	319	580	468
4/28/2020	14	330	647	460
4/28/2020	15	329	560	460
4/28/2020	16	316	530	455
4/28/2020	17	294	500	455
4/28/2020	18	289	480	455
4/28/2020	19	315	580	506
4/28/2020	20	321	647	516
4/28/2020	21	331	647	520
4/28/2020	22	330	647	550
4/28/2020	23	319	647	530
4/28/2020	24	306	590	510
4/29/2020	1	298	647	647
4/29/2020	2	277	591	550
4/29/2020	3	266	550	480
4/29/2020	4	256	500	460
4/29/2020	5	248	480	460
4/29/2020	6	239	470	455
4/29/2020	7	243	500	455
4/29/2020	8	264	550	460
4/29/2020	9	283	558	480
4/29/2020	10	297	570	500
4/29/2020	11	310	590	550
4/29/2020	12	311	550	460
4/29/2020	13	320	580	520
4/29/2020	14	331	647	480
4/29/2020	15	330	580	460
4/29/2020	16	318	570	455
4/29/2020	17	296	512	455
4/29/2020	18	285	499	455
4/29/2020	19	312	580	506

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/29/2020	20	319	587	516
4/29/2020	21	328	590	508
4/29/2020	22	327	580	550
4/29/2020	23	317	596	550
4/29/2020	24	305	590	519
4/30/2020	1	287	588	500
4/30/2020	2	276	546	455
4/30/2020	3	265	512	455
4/30/2020	4	255	480	455
4/30/2020	5	249	455	450
4/30/2020	6	241	455	408
4/30/2020	7	247	455	450
4/30/2020	8	266	468	455
4/30/2020	9	285	487	455
4/30/2020	10	298	490	455
4/30/2020	11	310	500	455
4/30/2020	12	310	487	455
4/30/2020	13	317	497	468
4/30/2020	14	329	513	460
4/30/2020	15	328	473	460
4/30/2020	16	315	507	455
4/30/2020	17	294	455	450
4/30/2020	18	286	455	450
4/30/2020	19	311	535	500
4/30/2020	20	318	521	516
4/30/2020	21	327	590	520
4/30/2020	22	326	580	500
4/30/2020	23	317	570	500
4/30/2020	24	304	590	500
5/1/2020	1	279	580	460
5/1/2020	2	267	550	460
5/1/2020	3	255	550	460
5/1/2020	4	246	480	460
5/1/2020	5	240	460	455
5/1/2020	6	233	455	400
5/1/2020	7	233	455	423
5/1/2020	8	259	550	455
5/1/2020	9	266	558	460
5/1/2020	10	278	552	460
5/1/2020	11	290	571	460
5/1/2020	12	290	520	460
5/1/2020	13	295	568	460
5/1/2020	14	307	647	460
5/1/2020	15	306	647	460
5/1/2020	16	293	581	455
5/1/2020	17	271	470	455
5/1/2020	18	266	455	443
5/1/2020	19	292	580	460
5/1/2020	20	298	576	460
5/1/2020	21	308	614	460
5/1/2020	22	307	590	460
5/1/2020	23	296	580	460
5/1/2020	24	283	543	460
5/2/2020	1	283	580	460
5/2/2020	2	271	550	460
5/2/2020	3	259	550	460
5/2/2020	4	250	480	460
5/2/2020	5	244	460	455
5/2/2020	6	237	455	400
5/2/2020	7	237	455	423
5/2/2020	8	267	550	455
5/2/2020	9	282	558	460
5/2/2020	10	297	552	460
5/2/2020	11	309	571	460
5/2/2020	12	310	520	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/2/2020	13	315	568	460
5/2/2020	14	327	647	460
5/2/2020	15	326	647	460
5/2/2020	16	312	581	455
5/2/2020	17	291	470	455
5/2/2020	18	285	455	443
5/2/2020	19	312	580	460
5/2/2020	20	317	576	460
5/2/2020	21	327	614	460
5/2/2020	22	326	590	460
5/2/2020	23	316	580	460
5/2/2020	24	303	543	460
5/3/2020	1	279	647	460
5/3/2020	2	266	644	460
5/3/2020	3	255	610	460
5/3/2020	4	246	501	460
5/3/2020	5	240	456	455
5/3/2020	6	233	455	420
5/3/2020	7	237	472	455
5/3/2020	8	255	550	460
5/3/2020	9	265	558	460
5/3/2020	10	281	552	460
5/3/2020	11	293	571	460
5/3/2020	12	293	549	460
5/3/2020	13	299	647	460
5/3/2020	14	310	647	460
5/3/2020	15	309	647	460
5/3/2020	16	296	636	460
5/3/2020	17	274	550	460
5/3/2020	18	269	460	455
5/3/2020	19	295	580	460
5/3/2020	20	301	576	460
5/3/2020	21	311	614	460
5/3/2020	22	310	590	460
5/3/2020	23	299	580	460
5/3/2020	24	286	543	460
5/4/2020	1	288	647	460
5/4/2020	2	276	647	460
5/4/2020	3	265	570	460
5/4/2020	4	256	540	460
5/4/2020	5	251	500	460
5/4/2020	6	244	460	455
5/4/2020	7	250	460	455
5/4/2020	8	270	543	460
5/4/2020	9	289	558	460
5/4/2020	10	303	495	460
5/4/2020	11	316	516	460
5/4/2020	12	315	500	460
5/4/2020	13	320	600	460
5/4/2020	14	330	647	460
5/4/2020	15	328	647	460
5/4/2020	16	316	581	460
5/4/2020	17	296	470	460
5/4/2020	18	291	480	460
5/4/2020	19	317	647	460
5/4/2020	20	322	647	460
5/4/2020	21	330	647	460
5/4/2020	22	327	647	460
5/4/2020	23	317	647	460
5/4/2020	24	304	647	460
5/5/2020	1	303	647	554
5/5/2020	2	292	600	530
5/5/2020	3	280	580	500
5/5/2020	4	269	480	460
5/5/2020	5	263	470	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/5/2020	6	255	460	455
5/5/2020	7	260	480	460
5/5/2020	8	280	540	460
5/5/2020	9	298	647	460
5/5/2020	10	312	647	460
5/5/2020	11	324	647	483
5/5/2020	12	321	647	460
5/5/2020	13	327	647	480
5/5/2020	14	336	647	470
5/5/2020	15	334	647	460
5/5/2020	16	319	581	460
5/5/2020	17	299	500	460
5/5/2020	18	291	480	460
5/5/2020	19	316	600	484
5/5/2020	20	322	637	490
5/5/2020	21	331	647	583
5/5/2020	22	332	647	647
5/5/2020	23	324	647	647
5/5/2020	24	310	647	647
5/6/2020	1	306	590	556
5/6/2020	2	291	550	500
5/6/2020	3	280	530	480
5/6/2020	4	271	480	460
5/6/2020	5	264	470	460
5/6/2020	6	256	460	455
5/6/2020	7	260	480	460
5/6/2020	8	280	500	460
5/6/2020	9	299	550	460
5/6/2020	10	314	570	460
5/6/2020	11	327	580	483
5/6/2020	12	327	550	460
5/6/2020	13	335	540	460
5/6/2020	14	345	579	500
5/6/2020	15	344	596	500
5/6/2020	16	330	530	460
5/6/2020	17	308	500	460
5/6/2020	18	300	480	460
5/6/2020	19	327	580	460
5/6/2020	20	335	590	470
5/6/2020	21	344	590	476
5/6/2020	22	343	580	479
5/6/2020	23	332	550	460
5/6/2020	24	320	521	460
5/7/2020	1	325	647	556
5/7/2020	2	307	580	500
5/7/2020	3	295	560	480
5/7/2020	4	284	500	460
5/7/2020	5	277	480	460
5/7/2020	6	268	460	455
5/7/2020	7	273	460	455
5/7/2020	8	291	500	460
5/7/2020	9	311	550	460
5/7/2020	10	324	570	470
5/7/2020	11	337	580	483
5/7/2020	12	335	550	460
5/7/2020	13	342	580	561
5/7/2020	14	354	647	578
5/7/2020	15	352	647	560
5/7/2020	16	338	647	510
5/7/2020	17	316	500	460
5/7/2020	18	308	480	460
5/7/2020	19	334	580	460
5/7/2020	20	341	570	550
5/7/2020	21	350	647	609
5/7/2020	22	350	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/7/2020	23	342	647	647
5/7/2020	24	328	647	579
5/8/2020	1	317	590	544
5/8/2020	2	305	580	520
5/8/2020	3	294	560	480
5/8/2020	4	282	500	460
5/8/2020	5	275	480	460
5/8/2020	6	259	460	455
5/8/2020	7	265	460	455
5/8/2020	8	286	500	460
5/8/2020	9	305	570	460
5/8/2020	10	319	570	470
5/8/2020	11	332	580	480
5/8/2020	12	333	530	460
5/8/2020	13	344	647	482
5/8/2020	14	358	647	593
5/8/2020	15	358	647	647
5/8/2020	16	344	647	647
5/8/2020	17	318	550	500
5/8/2020	18	304	500	460
5/8/2020	19	331	580	460
5/8/2020	20	337	570	550
5/8/2020	21	354	647	611
5/8/2020	22	351	647	611
5/8/2020	23	337	647	607
5/8/2020	24	325	594	579
5/9/2020	1	312	520	493
5/9/2020	2	299	491	455
5/9/2020	3	287	487	455
5/9/2020	4	276	481	455
5/9/2020	5	269	455	447
5/9/2020	6	260	455	415
5/9/2020	7	262	455	415
5/9/2020	8	277	455	433
5/9/2020	9	294	510	490
5/9/2020	10	309	494	475
5/9/2020	11	320	490	489
5/9/2020	12	321	455	450
5/9/2020	13	328	486	463
5/9/2020	14	338	526	485
5/9/2020	15	338	530	526
5/9/2020	16	328	501	485
5/9/2020	17	308	460	455
5/9/2020	18	308	460	455
5/9/2020	19	336	515	500
5/9/2020	20	343	573	530
5/9/2020	21	352	647	589
5/9/2020	22	351	647	647
5/9/2020	23	338	576	528
5/9/2020	24	325	546	536
5/10/2020	1	288	580	480
5/10/2020	2	276	530	460
5/10/2020	3	265	480	460
5/10/2020	4	256	455	450
5/10/2020	5	250	455	440
5/10/2020	6	244	455	430
5/10/2020	7	250	460	455
5/10/2020	8	270	570	460
5/10/2020	9	281	570	460
5/10/2020	10	295	570	470
5/10/2020	11	308	580	480
5/10/2020	12	307	530	460
5/10/2020	13	312	580	460
5/10/2020	14	322	647	499
5/10/2020	15	320	647	500

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/10/2020	16	308	580	460
5/10/2020	17	288	550	460
5/10/2020	18	284	500	460
5/10/2020	19	309	647	550
5/10/2020	20	314	647	580
5/10/2020	21	322	647	580
5/10/2020	22	319	609	580
5/10/2020	23	309	580	550
5/10/2020	24	296	550	500
5/11/2020	1	297	570	470
5/11/2020	2	285	520	460
5/11/2020	3	274	470	460
5/11/2020	4	262	455	440
5/11/2020	5	255	455	438
5/11/2020	6	250	455	427
5/11/2020	7	257	460	455
5/11/2020	8	282	580	460
5/11/2020	9	306	580	460
5/11/2020	10	319	590	460
5/11/2020	11	333	580	480
5/11/2020	12	333	500	460
5/11/2020	13	345	580	460
5/11/2020	14	358	647	478
5/11/2020	15	358	647	535
5/11/2020	16	344	580	460
5/11/2020	17	318	550	460
5/11/2020	18	305	500	460
5/11/2020	19	331	580	460
5/11/2020	20	338	600	460
5/11/2020	21	355	647	647
5/11/2020	22	351	647	647
5/11/2020	23	338	647	555
5/11/2020	24	326	647	541
5/12/2020	1	315	590	510
5/12/2020	2	305	550	470
5/12/2020	3	296	500	460
5/12/2020	4	286	480	455
5/12/2020	5	278	459	455
5/12/2020	6	265	460	455
5/12/2020	7	270	466	455
5/12/2020	8	290	580	460
5/12/2020	9	309	580	460
5/12/2020	10	324	590	460
5/12/2020	11	335	580	480
5/12/2020	12	337	500	460
5/12/2020	13	348	580	460
5/12/2020	14	359	647	460
5/12/2020	15	361	647	537
5/12/2020	16	346	580	460
5/12/2020	17	317	510	460
5/12/2020	18	304	480	460
5/12/2020	19	332	550	460
5/12/2020	20	344	600	460
5/12/2020	21	357	647	647
5/12/2020	22	358	647	647
5/12/2020	23	348	647	580
5/12/2020	24	335	647	541
5/13/2020	1	321	647	602
5/13/2020	2	306	590	541
5/13/2020	3	295	560	492
5/13/2020	4	284	520	460
5/13/2020	5	276	480	460
5/13/2020	6	267	460	455
5/13/2020	7	269	460	455
5/13/2020	8	293	580	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/13/2020	9	313	647	460
5/13/2020	10	328	647	460
5/13/2020	11	341	647	480
5/13/2020	12	342	580	470
5/13/2020	13	349	619	460
5/13/2020	14	361	647	516
5/13/2020	15	361	647	559
5/13/2020	16	351	580	477
5/13/2020	17	324	510	460
5/13/2020	18	312	480	460
5/13/2020	19	341	539	460
5/13/2020	20	351	647	502
5/13/2020	21	362	647	630
5/13/2020	22	362	647	647
5/13/2020	23	351	647	647
5/13/2020	24	338	647	647
5/14/2020	1	328	647	647
5/14/2020	2	316	590	552
5/14/2020	3	306	560	491
5/14/2020	4	295	510	461
5/14/2020	5	287	490	460
5/14/2020	6	272	460	455
5/14/2020	7	264	460	455
5/14/2020	8	296	580	461
5/14/2020	9	317	647	497
5/14/2020	10	331	647	460
5/14/2020	11	343	647	463
5/14/2020	12	345	580	472
5/14/2020	13	356	647	496
5/14/2020	14	368	647	647
5/14/2020	15	368	647	647
5/14/2020	16	354	580	461
5/14/2020	17	326	510	460
5/14/2020	18	312	460	455
5/14/2020	19	340	539	460
5/14/2020	20	350	647	513
5/14/2020	21	364	647	647
5/14/2020	22	366	647	647
5/14/2020	23	356	647	647
5/14/2020	24	343	647	547
5/15/2020	1	318	647	647
5/15/2020	2	307	647	635
5/15/2020	3	295	647	637
5/15/2020	4	285	580	502
5/15/2020	5	276	520	489
5/15/2020	6	261	450	420
5/15/2020	7	242	460	420
5/15/2020	8	284	580	461
5/15/2020	9	304	647	521
5/15/2020	10	316	647	460
5/15/2020	11	329	647	509
5/15/2020	12	331	580	528
5/15/2020	13	341	647	647
5/15/2020	14	354	647	647
5/15/2020	15	352	647	647
5/15/2020	16	339	647	647
5/15/2020	17	314	510	420
5/15/2020	18	300	442	420
5/15/2020	19	326	500	420
5/15/2020	20	332	647	647
5/15/2020	21	348	647	647
5/15/2020	22	349	647	647
5/15/2020	23	340	647	647
5/15/2020	24	328	647	547
5/16/2020	1	303	450	438

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/16/2020	2	293	430	415
5/16/2020	3	283	430	415
5/16/2020	4	272	420	415
5/16/2020	5	268	412	410
5/16/2020	6	257	413	350
5/16/2020	7	224	372	300
5/16/2020	8	270	450	350
5/16/2020	9	283	480	365
5/16/2020	10	297	500	393
5/16/2020	11	308	507	455
5/16/2020	12	312	485	455
5/16/2020	13	322	530	455
5/16/2020	14	334	555	455
5/16/2020	15	334	590	455
5/16/2020	16	330	550	455
5/16/2020	17	310	470	420
5/16/2020	18	292	420	420
5/16/2020	19	313	458	455
5/16/2020	20	316	500	467
5/16/2020	21	328	580	468
5/16/2020	22	327	570	460
5/16/2020	23	322	560	460
5/16/2020	24	319	550	460
5/17/2020	1	279	580	480
5/17/2020	2	264	550	455
5/17/2020	3	255	540	455
5/17/2020	4	246	510	455
5/17/2020	5	238	480	455
5/17/2020	6	232	455	450
5/17/2020	7	241	455	420
5/17/2020	8	257	455	450
5/17/2020	9	270	480	455
5/17/2020	10	284	500	460
5/17/2020	11	297	520	460
5/17/2020	12	297	520	460
5/17/2020	13	303	530	460
5/17/2020	14	315	580	460
5/17/2020	15	314	590	460
5/17/2020	16	301	550	460
5/17/2020	17	279	470	460
5/17/2020	18	274	460	455
5/17/2020	19	299	500	460
5/17/2020	20	305	590	467
5/17/2020	21	314	647	520
5/17/2020	22	313	570	460
5/17/2020	23	303	560	460
5/17/2020	24	290	550	460
5/18/2020	1	293	601	500
5/18/2020	2	281	560	455
5/18/2020	3	270	550	455
5/18/2020	4	258	500	455
5/18/2020	5	251	490	455
5/18/2020	6	246	460	455
5/18/2020	7	253	485	455
5/18/2020	8	278	495	455
5/18/2020	9	303	500	455
5/18/2020	10	317	500	460
5/18/2020	11	330	577	460
5/18/2020	12	331	597	460
5/18/2020	13	342	647	510
5/18/2020	14	355	647	587
5/18/2020	15	356	647	580
5/18/2020	16	341	550	460
5/18/2020	17	316	470	460
5/18/2020	18	302	460	455

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/18/2020	19	329	500	460
5/18/2020	20	335	590	467
5/18/2020	21	352	647	520
5/18/2020	22	348	647	522
5/18/2020	23	335	647	520
5/18/2020	24	323	550	489
5/19/2020	1	330	647	647
5/19/2020	2	317	647	632
5/19/2020	3	305	550	460
5/19/2020	4	294	547	460
5/19/2020	5	288	490	460
5/19/2020	6	275	460	460
5/19/2020	7	267	460	455
5/19/2020	8	300	495	460
5/19/2020	9	325	500	460
5/19/2020	10	337	501	460
5/19/2020	11	350	647	569
5/19/2020	12	352	647	621
5/19/2020	13	364	647	647
5/19/2020	14	377	647	647
5/19/2020	15	375	647	647
5/19/2020	16	356	647	647
5/19/2020	17	332	550	460
5/19/2020	18	316	550	460
5/19/2020	19	344	647	647
5/19/2020	20	354	647	647
5/19/2020	21	366	647	647
5/19/2020	22	366	647	647
5/19/2020	23	356	647	647
5/19/2020	24	343	647	647
5/20/2020	1	324	647	543
5/20/2020	2	312	647	536
5/20/2020	3	302	550	460
5/20/2020	4	294	550	460
5/20/2020	5	288	490	460
5/20/2020	6	282	460	460
5/20/2020	7	290	460	450
5/20/2020	8	314	520	460
5/20/2020	9	338	550	460
5/20/2020	10	356	580	460
5/20/2020	11	372	647	551
5/20/2020	12	370	577	550
5/20/2020	13	377	647	647
5/20/2020	14	391	647	647
5/20/2020	15	388	647	647
5/20/2020	16	372	647	620
5/20/2020	17	349	580	505
5/20/2020	18	347	580	502
5/20/2020	19	377	647	647
5/20/2020	20	381	647	647
5/20/2020	21	388	647	647
5/20/2020	22	384	647	647
5/20/2020	23	371	647	647
5/20/2020	24	356	647	647
5/21/2020	1	321	647	540
5/21/2020	2	310	590	510
5/21/2020	3	298	540	460
5/21/2020	4	293	526	460
5/21/2020	5	283	490	460
5/21/2020	6	273	460	460
5/21/2020	7	284	460	450
5/21/2020	8	315	520	460
5/21/2020	9	340	570	488
5/21/2020	10	360	647	632
5/21/2020	11	370	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/21/2020	12	360	647	524
5/21/2020	13	358	647	589
5/21/2020	14	364	647	627
5/21/2020	15	361	647	601
5/21/2020	16	349	568	520
5/21/2020	17	324	540	460
5/21/2020	18	310	500	460
5/21/2020	19	331	510	460
5/21/2020	20	338	500	460
5/21/2020	21	348	569	460
5/21/2020	22	347	647	589
5/21/2020	23	337	647	593
5/21/2020	24	327	647	647
5/22/2020	1	320	647	257
5/22/2020	2	310	580	257
5/22/2020	3	297	540	257
5/22/2020	4	290	520	257
5/22/2020	5	283	500	257
5/22/2020	6	273	460	257
5/22/2020	7	284	460	257
5/22/2020	8	315	520	257
5/22/2020	9	340	647	437
5/22/2020	10	360	647	437
5/22/2020	11	370	647	437
5/22/2020	12	361	647	437
5/22/2020	13	358	647	437
5/22/2020	14	363	647	437
5/22/2020	15	361	647	437
5/22/2020	16	349	557	437
5/22/2020	17	324	532	437
5/22/2020	18	310	500	437
5/22/2020	19	331	516	437
5/22/2020	20	338	547	437
5/22/2020	21	347	647	437
5/22/2020	22	346	647	257
5/22/2020	23	337	647	257
5/22/2020	24	327	647	257
5/23/2020	1	327	647	647
5/23/2020	2	315	647	647
5/23/2020	3	304	634	613
5/23/2020	4	292	619	603
5/23/2020	5	285	614	537
5/23/2020	6	276	482	420
5/23/2020	7	277	420	364
5/23/2020	8	292	506	473
5/23/2020	9	310	605	588
5/23/2020	10	324	605	586
5/23/2020	11	337	601	592
5/23/2020	12	336	571	508
5/23/2020	13	344	595	594
5/23/2020	14	355	608	591
5/23/2020	15	353	647	596
5/23/2020	16	341	623	610
5/23/2020	17	321	539	530
5/23/2020	18	321	544	541
5/23/2020	19	350	647	646
5/23/2020	20	357	647	647
5/23/2020	21	367	647	647
5/23/2020	22	367	647	647
5/23/2020	23	355	647	647
5/23/2020	24	341	647	647
5/24/2020	1	292	620	550
5/24/2020	2	280	580	460
5/24/2020	3	270	540	460
5/24/2020	4	258	520	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/24/2020	5	250	500	460
5/24/2020	6	245	460	450
5/24/2020	7	252	460	450
5/24/2020	8	278	537	460
5/24/2020	9	290	500	460
5/24/2020	10	304	647	647
5/24/2020	11	318	647	647
5/24/2020	12	317	647	647
5/24/2020	13	329	647	647
5/24/2020	14	342	647	647
5/24/2020	15	342	647	647
5/24/2020	16	328	647	647
5/24/2020	17	303	647	635
5/24/2020	18	289	550	488
5/24/2020	19	316	647	595
5/24/2020	20	322	647	647
5/24/2020	21	339	647	647
5/24/2020	22	335	647	647
5/24/2020	23	322	647	647
5/24/2020	24	310	580	500
5/25/2020	1	293	620	550
5/25/2020	2	281	580	460
5/25/2020	3	270	540	460
5/25/2020	4	258	520	460
5/25/2020	5	251	500	460
5/25/2020	6	246	460	450
5/25/2020	7	253	460	450
5/25/2020	8	278	480	460
5/25/2020	9	297	500	460
5/25/2020	10	310	520	470
5/25/2020	11	324	550	480
5/25/2020	12	324	540	470
5/25/2020	13	336	560	460
5/25/2020	14	349	647	647
5/25/2020	15	349	647	647
5/25/2020	16	335	599	480
5/25/2020	17	309	532	460
5/25/2020	18	296	485	460
5/25/2020	19	322	647	460
5/25/2020	20	329	575	480
5/25/2020	21	346	647	647
5/25/2020	22	342	647	583
5/25/2020	23	329	647	647
5/25/2020	24	317	647	580
5/26/2020	1	308	601	591
5/26/2020	2	296	601	589
5/26/2020	3	287	604	596
5/26/2020	4	277	606	588
5/26/2020	5	270	602	522
5/26/2020	6	260	469	460
5/26/2020	7	270	460	420
5/26/2020	8	293	518	486
5/26/2020	9	313	618	602
5/26/2020	10	327	620	602
5/26/2020	11	342	618	609
5/26/2020	12	344	592	526
5/26/2020	13	356	622	620
5/26/2020	14	369	647	647
5/26/2020	15	369	647	647
5/26/2020	16	351	647	633
5/26/2020	17	325	550	544
5/26/2020	18	311	540	538
5/26/2020	19	339	647	640
5/26/2020	20	352	585	563
5/26/2020	21	365	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/26/2020	22	365	647	647
5/26/2020	23	356	647	647
5/26/2020	24	345	647	647
5/27/2020	1	330	647	647
5/27/2020	2	320	647	647
5/27/2020	3	308	647	647
5/27/2020	4	297	606	579
5/27/2020	5	289	580	521
5/27/2020	6	280	460	460
5/27/2020	7	288	460	420
5/27/2020	8	319	518	486
5/27/2020	9	344	647	581
5/27/2020	10	361	647	647
5/27/2020	11	374	647	647
5/27/2020	12	375	647	647
5/27/2020	13	383	647	647
5/27/2020	14	388	647	647
5/27/2020	15	382	647	647
5/27/2020	16	370	647	647
5/27/2020	17	339	550	460
5/27/2020	18	325	471	460
5/27/2020	19	348	647	640
5/27/2020	20	359	647	647
5/27/2020	21	370	647	647
5/27/2020	22	370	647	647
5/27/2020	23	360	647	647
5/27/2020	24	347	647	647
5/28/2020	1	334	647	647
5/28/2020	2	319	647	647
5/28/2020	3	309	647	631
5/28/2020	4	297	606	572
5/28/2020	5	290	580	546
5/28/2020	6	278	460	460
5/28/2020	7	285	460	420
5/28/2020	8	311	518	486
5/28/2020	9	333	647	490
5/28/2020	10	350	647	500
5/28/2020	11	362	647	460
5/28/2020	12	363	647	479
5/28/2020	13	373	647	460
5/28/2020	14	382	647	506
5/28/2020	15	379	647	526
5/28/2020	16	366	647	462
5/28/2020	17	335	550	460
5/28/2020	18	321	470	460
5/28/2020	19	347	647	640
5/28/2020	20	359	615	550
5/28/2020	21	371	647	632
5/28/2020	22	372	647	647
5/28/2020	23	362	647	647
5/28/2020	24	349	647	637
5/29/2020	1	324	647	618
5/29/2020	2	314	647	557
5/29/2020	3	303	540	500
5/29/2020	4	292	490	460
5/29/2020	5	284	500	470
5/29/2020	6	274	460	420
5/29/2020	7	283	460	420
5/29/2020	8	313	633	518
5/29/2020	9	338	647	633
5/29/2020	10	354	647	647
5/29/2020	11	367	647	647
5/29/2020	12	367	647	647
5/29/2020	13	375	647	647
5/29/2020	14	380	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/29/2020	15	374	647	647
5/29/2020	16	362	647	607
5/29/2020	17	332	550	460
5/29/2020	18	318	470	460
5/29/2020	19	341	647	640
5/29/2020	20	352	580	550
5/29/2020	21	362	647	551
5/29/2020	22	362	580	548
5/29/2020	23	353	537	502
5/29/2020	24	340	510	474
5/30/2020	1	306	593	587
5/30/2020	2	299	497	489
5/30/2020	3	287	476	433
5/30/2020	4	278	548	425
5/30/2020	5	276	553	383
5/30/2020	6	265	416	352
5/30/2020	7	268	420	352
5/30/2020	8	286	462	458
5/30/2020	9	312	588	574
5/30/2020	10	332	584	572
5/30/2020	11	345	597	595
5/30/2020	12	344	600	600
5/30/2020	13	349	585	580
5/30/2020	14	356	602	595
5/30/2020	15	345	606	602
5/30/2020	16	325	581	513
5/30/2020	17	310	527	512
5/30/2020	18	303	553	477
5/30/2020	19	312	609	596
5/30/2020	20	317	607	567
5/30/2020	21	319	592	562
5/30/2020	22	319	598	585
5/30/2020	23	310	573	562
5/30/2020	24	299	549	497
5/31/2020	1	287	570	500
5/31/2020	2	272	530	460
5/31/2020	3	263	500	460
5/31/2020	4	254	480	460
5/31/2020	5	246	500	460
5/31/2020	6	240	460	420
5/31/2020	7	249	460	420
5/31/2020	8	265	470	460
5/31/2020	9	284	500	460
5/31/2020	10	298	534	460
5/31/2020	11	311	550	470
5/31/2020	12	311	540	460
5/31/2020	13	317	647	529
5/31/2020	14	329	647	607
5/31/2020	15	327	580	550
5/31/2020	16	315	550	540
5/31/2020	17	293	550	468
5/31/2020	18	287	503	470
5/31/2020	19	312	647	640
5/31/2020	20	319	525	508
5/31/2020	21	328	603	551
5/31/2020	22	326	580	548
5/31/2020	23	317	537	502
5/31/2020	24	304	510	474
6/1/2020	1	299	570	500
6/1/2020	2	287	530	460
6/1/2020	3	275	500	460
6/1/2020	4	265	480	460
6/1/2020	5	259	500	460
6/1/2020	6	247	460	420
6/1/2020	7	259	460	420

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/1/2020	8	295	500	480
6/1/2020	9	340	580	550
6/1/2020	10	362	647	580
6/1/2020	11	374	647	580
6/1/2020	12	373	580	550
6/1/2020	13	377	601	550
6/1/2020	14	389	647	647
6/1/2020	15	381	647	547
6/1/2020	16	361	647	540
6/1/2020	17	333	550	468
6/1/2020	18	318	503	470
6/1/2020	19	336	550	490
6/1/2020	20	335	525	480
6/1/2020	21	343	550	470
6/1/2020	22	344	580	550
6/1/2020	23	337	647	557
6/1/2020	24	326	590	509
6/2/2020	1	333	647	647
6/2/2020	2	322	647	584
6/2/2020	3	310	606	500
6/2/2020	4	300	550	480
6/2/2020	5	296	530	460
6/2/2020	6	286	510	460
6/2/2020	7	294	520	460
6/2/2020	8	327	647	647
6/2/2020	9	353	647	647
6/2/2020	10	369	647	594
6/2/2020	11	382	647	608
6/2/2020	12	379	647	580
6/2/2020	13	386	647	582
6/2/2020	14	399	647	647
6/2/2020	15	399	647	647
6/2/2020	16	386	647	647
6/2/2020	17	363	647	550
6/2/2020	18	350	530	510
6/2/2020	19	371	647	595
6/2/2020	20	375	647	585
6/2/2020	21	380	647	647
6/2/2020	22	375	647	647
6/2/2020	23	361	647	647
6/2/2020	24	334	647	537
6/3/2020	1	320	647	634
6/3/2020	2	298	647	569
6/3/2020	3	291	580	480
6/3/2020	4	284	550	460
6/3/2020	5	282	530	460
6/3/2020	6	276	510	490
6/3/2020	7	293	552	520
6/3/2020	8	325	647	550
6/3/2020	9	354	647	567
6/3/2020	10	378	647	647
6/3/2020	11	391	647	647
6/3/2020	12	388	647	647
6/3/2020	13	392	647	647
6/3/2020	14	404	647	647
6/3/2020	15	398	647	647
6/3/2020	16	385	647	647
6/3/2020	17	360	647	519
6/3/2020	18	343	554	500
6/3/2020	19	362	647	520
6/3/2020	20	365	647	647
6/3/2020	21	369	647	647
6/3/2020	22	365	647	647
6/3/2020	23	353	647	647
6/3/2020	24	340	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/4/2020	1	323	647	608
6/4/2020	2	319	647	570
6/4/2020	3	313	580	540
6/4/2020	4	303	550	520
6/4/2020	5	298	530	490
6/4/2020	6	289	530	490
6/4/2020	7	301	552	540
6/4/2020	8	339	647	570
6/4/2020	9	367	647	647
6/4/2020	10	388	647	609
6/4/2020	11	400	647	624
6/4/2020	12	397	647	503
6/4/2020	13	403	647	647
6/4/2020	14	414	647	647
6/4/2020	15	403	647	647
6/4/2020	16	385	647	647
6/4/2020	17	354	550	486
6/4/2020	18	337	500	460
6/4/2020	19	352	647	528
6/4/2020	20	361	647	486
6/4/2020	21	371	647	508
6/4/2020	22	372	611	520
6/4/2020	23	360	568	500
6/4/2020	24	348	623	480
6/5/2020	1	340	647	637
6/5/2020	2	328	647	637
6/5/2020	3	319	647	637
6/5/2020	4	310	647	524
6/5/2020	5	302	530	490
6/5/2020	6	295	530	490
6/5/2020	7	314	552	540
6/5/2020	8	345	647	570
6/5/2020	9	373	647	637
6/5/2020	10	396	647	637
6/5/2020	11	410	647	637
6/5/2020	12	407	647	637
6/5/2020	13	415	647	637
6/5/2020	14	431	647	637
6/5/2020	15	426	647	637
6/5/2020	16	396	647	637
6/5/2020	17	366	550	486
6/5/2020	18	349	500	460
6/5/2020	19	361	647	637
6/5/2020	20	370	647	637
6/5/2020	21	382	647	637
6/5/2020	22	383	647	637
6/5/2020	23	372	647	637
6/5/2020	24	360	647	637
6/6/2020	1	343	643	630
6/6/2020	2	335	639	620
6/6/2020	3	322	637	623
6/6/2020	4	312	617	608
6/6/2020	5	305	625	603
6/6/2020	6	292	534	487
6/6/2020	7	301	520	460
6/6/2020	8	321	520	460
6/6/2020	9	343	598	590
6/6/2020	10	361	620	614
6/6/2020	11	373	631	614
6/6/2020	12	372	634	614
6/6/2020	13	378	647	647
6/6/2020	14	388	647	647
6/6/2020	15	382	647	647
6/6/2020	16	364	590	571
6/6/2020	17	345	604	590

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/6/2020	18	330	520	510
6/6/2020	19	349	630	611
6/6/2020	20	356	626	608
6/6/2020	21	363	647	647
6/6/2020	22	362	612	594
6/6/2020	23	354	618	580
6/6/2020	24	343	574	540
6/7/2020	1	303	580	499
6/7/2020	2	288	561	480
6/7/2020	3	279	520	460
6/7/2020	4	270	500	460
6/7/2020	5	262	480	460
6/7/2020	6	256	460	460
6/7/2020	7	265	480	460
6/7/2020	8	281	520	460
6/7/2020	9	306	550	460
6/7/2020	10	320	576	500
6/7/2020	11	333	647	550
6/7/2020	12	333	590	524
6/7/2020	13	339	647	550
6/7/2020	14	351	647	572
6/7/2020	15	349	647	550
6/7/2020	16	337	647	528
6/7/2020	17	315	550	486
6/7/2020	18	309	500	460
6/7/2020	19	334	647	647
6/7/2020	20	341	647	647
6/7/2020	21	350	647	647
6/7/2020	22	348	647	580
6/7/2020	23	338	580	550
6/7/2020	24	326	560	520
6/8/2020	1	311	600	522
6/8/2020	2	303	580	498
6/8/2020	3	297	520	460
6/8/2020	4	291	500	460
6/8/2020	5	286	500	460
6/8/2020	6	281	500	460
6/8/2020	7	293	480	460
6/8/2020	8	339	550	460
6/8/2020	9	367	580	480
6/8/2020	10	388	647	575
6/8/2020	11	400	647	631
6/8/2020	12	397	647	547
6/8/2020	13	403	647	647
6/8/2020	14	414	647	647
6/8/2020	15	403	647	550
6/8/2020	16	385	647	528
6/8/2020	17	354	550	460
6/8/2020	18	337	500	460
6/8/2020	19	352	647	547
6/8/2020	20	361	582	550
6/8/2020	21	371	647	632
6/8/2020	22	372	647	618
6/8/2020	23	360	580	563
6/8/2020	24	348	560	550
6/9/2020	1	343	620	530
6/9/2020	2	331	580	500
6/9/2020	3	318	520	460
6/9/2020	4	307	500	460
6/9/2020	5	301	500	460
6/9/2020	6	291	500	460
6/9/2020	7	289	460	455
6/9/2020	8	345	550	425
6/9/2020	9	373	580	341
6/9/2020	10	394	647	509

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/9/2020	11	407	647	521
6/9/2020	12	403	647	521
6/9/2020	13	411	647	521
6/9/2020	14	427	647	521
6/9/2020	15	420	647	521
6/9/2020	16	400	647	476
6/9/2020	17	363	550	460
6/9/2020	18	340	500	460
6/9/2020	19	357	580	505
6/9/2020	20	369	561	480
6/9/2020	21	382	647	341
6/9/2020	22	386	647	425
6/9/2020	23	374	647	530
6/9/2020	24	359	580	483
6/10/2020	1	342	647	550
6/10/2020	2	331	580	530
6/10/2020	3	320	540	460
6/10/2020	4	309	510	460
6/10/2020	5	303	500	460
6/10/2020	6	293	500	460
6/10/2020	7	285	460	455
6/10/2020	8	343	550	460
6/10/2020	9	372	580	476
6/10/2020	10	392	647	509
6/10/2020	11	402	647	557
6/10/2020	12	398	580	537
6/10/2020	13	407	647	558
6/10/2020	14	423	647	560
6/10/2020	15	418	647	550
6/10/2020	16	396	580	480
6/10/2020	17	368	550	460
6/10/2020	18	342	460	460
6/10/2020	19	364	580	506
6/10/2020	20	374	550	480
6/10/2020	21	386	585	500
6/10/2020	22	389	610	526
6/10/2020	23	382	647	580
6/10/2020	24	366	580	490
6/11/2020	1	345	647	580
6/11/2020	2	333	580	550
6/11/2020	3	321	540	460
6/11/2020	4	311	510	460
6/11/2020	5	305	500	460
6/11/2020	6	296	500	460
6/11/2020	7	283	460	455
6/11/2020	8	341	550	460
6/11/2020	9	366	580	468
6/11/2020	10	378	590	470
6/11/2020	11	391	647	520
6/11/2020	12	388	603	500
6/11/2020	13	396	636	500
6/11/2020	14	411	647	596
6/11/2020	15	410	647	580
6/11/2020	16	395	580	480
6/11/2020	17	365	550	460
6/11/2020	18	340	460	460
6/11/2020	19	355	580	483
6/11/2020	20	366	550	460
6/11/2020	21	378	580	474
6/11/2020	22	381	647	550
6/11/2020	23	373	647	580
6/11/2020	24	360	580	490
6/12/2020	1	312	481	473
6/12/2020	2	300	420	403
6/12/2020	3	288	420	392

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/12/2020	4	281	420	392
6/12/2020	5	273	420	394
6/12/2020	6	264	420	389
6/12/2020	7	262	420	389
6/12/2020	8	277	420	374
6/12/2020	9	301	454	450
6/12/2020	10	317	517	475
6/12/2020	11	332	542	533
6/12/2020	12	331	554	540
6/12/2020	13	333	556	552
6/12/2020	14	343	566	547
6/12/2020	15	339	520	491
6/12/2020	16	334	493	490
6/12/2020	17	319	506	505
6/12/2020	18	316	522	517
6/12/2020	19	337	531	529
6/12/2020	20	341	529	528
6/12/2020	21	345	536	518
6/12/2020	22	339	590	588
6/12/2020	23	328	510	510
6/12/2020	24	315	453	424
6/13/2020	1	315	486	477
6/13/2020	2	306	430	420
6/13/2020	3	295	420	401
6/13/2020	4	286	420	399
6/13/2020	5	279	420	402
6/13/2020	6	266	420	392
6/13/2020	7	273	420	406
6/13/2020	8	294	420	406
6/13/2020	9	313	472	467
6/13/2020	10	330	538	495
6/13/2020	11	341	557	547
6/13/2020	12	340	569	554
6/13/2020	13	345	577	572
6/13/2020	14	354	585	566
6/13/2020	15	348	533	504
6/13/2020	16	333	493	489
6/13/2020	17	315	499	498
6/13/2020	18	305	499	481
6/13/2020	19	319	501	488
6/13/2020	20	326	504	503
6/13/2020	21	332	499	499
6/13/2020	22	331	576	574
6/13/2020	23	324	502	502
6/13/2020	24	313	450	421
6/14/2020	1	299	580	500
6/14/2020	2	284	580	550
6/14/2020	3	275	540	470
6/14/2020	4	267	510	460
6/14/2020	5	258	460	455
6/14/2020	6	252	460	455
6/14/2020	7	261	460	455
6/14/2020	8	277	550	460
6/14/2020	9	288	571	460
6/14/2020	10	302	580	460
6/14/2020	11	315	580	550
6/14/2020	12	314	580	512
6/14/2020	13	321	626	500
6/14/2020	14	333	647	596
6/14/2020	15	331	647	592
6/14/2020	16	318	580	467
6/14/2020	17	297	500	460
6/14/2020	18	291	460	460
6/14/2020	19	316	580	500
6/14/2020	20	323	550	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/14/2020	21	331	647	552
6/14/2020	22	330	647	560
6/14/2020	23	320	580	500
6/14/2020	24	308	550	490
6/15/2020	1	309	590	541
6/15/2020	2	298	560	521
6/15/2020	3	286	540	470
6/15/2020	4	276	510	460
6/15/2020	5	276	460	455
6/15/2020	6	278	500	460
6/15/2020	7	286	460	455
6/15/2020	8	319	550	460
6/15/2020	9	344	571	460
6/15/2020	10	359	580	460
6/15/2020	11	373	647	532
6/15/2020	12	370	580	512
6/15/2020	13	377	626	500
6/15/2020	14	390	647	596
6/15/2020	15	389	647	592
6/15/2020	16	377	587	500
6/15/2020	17	354	500	460
6/15/2020	18	341	470	460
6/15/2020	19	361	580	500
6/15/2020	20	365	550	460
6/15/2020	21	370	580	552
6/15/2020	22	365	570	560
6/15/2020	23	352	580	550
6/15/2020	24	325	550	480
6/16/2020	1	334	600	560
6/16/2020	2	322	580	520
6/16/2020	3	309	550	470
6/16/2020	4	300	510	460
6/16/2020	5	293	460	455
6/16/2020	6	285	500	460
6/16/2020	7	292	460	455
6/16/2020	8	333	550	460
6/16/2020	9	360	607	460
6/16/2020	10	381	647	460
6/16/2020	11	393	647	571
6/16/2020	12	389	580	528
6/16/2020	13	397	626	593
6/16/2020	14	413	647	647
6/16/2020	15	407	647	550
6/16/2020	16	388	570	500
6/16/2020	17	351	500	460
6/16/2020	18	329	460	455
6/16/2020	19	346	580	500
6/16/2020	20	357	580	500
6/16/2020	21	370	600	516
6/16/2020	22	374	570	560
6/16/2020	23	362	647	595
6/16/2020	24	348	563	480
6/17/2020	1	330	647	570
6/17/2020	2	319	600	540
6/17/2020	3	308	550	480
6/17/2020	4	298	510	460
6/17/2020	5	292	460	455
6/17/2020	6	283	500	460
6/17/2020	7	296	460	455
6/17/2020	8	331	580	500
6/17/2020	9	359	595	500
6/17/2020	10	378	647	500
6/17/2020	11	388	647	595
6/17/2020	12	383	580	555
6/17/2020	13	392	647	598

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/17/2020	14	408	647	647
6/17/2020	15	404	647	606
6/17/2020	16	382	560	523
6/17/2020	17	355	520	516
6/17/2020	18	330	480	460
6/17/2020	19	350	580	530
6/17/2020	20	359	580	532
6/17/2020	21	371	600	580
6/17/2020	22	374	570	560
6/17/2020	23	368	647	647
6/17/2020	24	353	580	550
6/18/2020	1	348	647	580
6/18/2020	2	335	600	558
6/18/2020	3	323	560	500
6/18/2020	4	313	520	470
6/18/2020	5	307	477	460
6/18/2020	6	297	460	460
6/18/2020	7	312	460	455
6/18/2020	8	343	580	500
6/18/2020	9	369	595	541
6/18/2020	10	380	647	570
6/18/2020	11	394	647	572
6/18/2020	12	390	580	540
6/18/2020	13	401	647	647
6/18/2020	14	415	647	597
6/18/2020	15	413	647	647
6/18/2020	16	400	600	563
6/18/2020	17	368	520	504
6/18/2020	18	342	480	460
6/18/2020	19	357	580	530
6/18/2020	20	369	580	532
6/18/2020	21	381	647	647
6/18/2020	22	387	647	647
6/18/2020	23	375	647	581
6/18/2020	24	362	647	641
6/19/2020	1	352	647	563
6/19/2020	2	342	600	547
6/19/2020	3	331	560	535
6/19/2020	4	322	520	511
6/19/2020	5	315	480	460
6/19/2020	6	305	460	460
6/19/2020	7	318	496	460
6/19/2020	8	349	580	493
6/19/2020	9	371	595	541
6/19/2020	10	390	647	647
6/19/2020	11	404	647	602
6/19/2020	12	400	580	545
6/19/2020	13	410	647	647
6/19/2020	14	422	647	647
6/19/2020	15	419	647	647
6/19/2020	16	403	600	539
6/19/2020	17	373	520	460
6/19/2020	18	347	480	460
6/19/2020	19	367	580	518
6/19/2020	20	379	597	532
6/19/2020	21	391	647	575
6/19/2020	22	399	647	580
6/19/2020	23	387	647	550
6/19/2020	24	374	647	520
6/20/2020	1	340	558	512
6/20/2020	2	328	525	455
6/20/2020	3	318	500	455
6/20/2020	4	319	475	455
6/20/2020	5	299	455	400
6/20/2020	6	287	439	352

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/20/2020	7	297	439	352
6/20/2020	8	322	437	406
6/20/2020	9	342	566	498
6/20/2020	10	359	587	498
6/20/2020	11	372	599	498
6/20/2020	12	369	602	498
6/20/2020	13	378	596	498
6/20/2020	14	390	587	498
6/20/2020	15	388	593	512
6/20/2020	16	374	610	547
6/20/2020	17	346	527	514
6/20/2020	18	326	450	425
6/20/2020	19	345	566	512
6/20/2020	20	356	590	512
6/20/2020	21	368	600	477
6/20/2020	22	376	610	477
6/20/2020	23	366	580	477
6/20/2020	24	354	455	440
6/21/2020	1	307	580	520
6/21/2020	2	292	550	500
6/21/2020	3	283	520	480
6/21/2020	4	274	480	460
6/21/2020	5	266	460	455
6/21/2020	6	260	460	455
6/21/2020	7	269	460	460
6/21/2020	8	285	505	493
6/21/2020	9	308	510	500
6/21/2020	10	322	550	520
6/21/2020	11	335	580	530
6/21/2020	12	335	550	500
6/21/2020	13	341	580	520
6/21/2020	14	353	647	636
6/21/2020	15	352	647	633
6/21/2020	16	339	600	543
6/21/2020	17	317	520	460
6/21/2020	18	311	480	460
6/21/2020	19	337	647	647
6/21/2020	20	343	647	539
6/21/2020	21	352	647	647
6/21/2020	22	350	647	636
6/21/2020	23	341	589	521
6/21/2020	24	328	530	480
6/22/2020	1	346	623	580
6/22/2020	2	333	550	519
6/22/2020	3	320	520	500
6/22/2020	4	317	500	499
6/22/2020	5	305	521	460
6/22/2020	6	297	521	460
6/22/2020	7	314	551	520
6/22/2020	8	348	647	580
6/22/2020	9	378	647	591
6/22/2020	10	391	647	616
6/22/2020	11	402	647	647
6/22/2020	12	400	647	647
6/22/2020	13	405	647	647
6/22/2020	14	418	647	647
6/22/2020	15	414	647	647
6/22/2020	16	400	647	647
6/22/2020	17	374	647	627
6/22/2020	18	347	550	500
6/22/2020	19	363	647	580
6/22/2020	20	375	647	638
6/22/2020	21	387	647	647
6/22/2020	22	388	647	647
6/22/2020	23	378	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/22/2020	24	361	647	647
6/23/2020	1	346	623	580
6/23/2020	2	333	550	519
6/23/2020	3	320	520	500
6/23/2020	4	317	500	499
6/23/2020	5	305	521	460
6/23/2020	6	297	521	460
6/23/2020	7	314	551	520
6/23/2020	8	348	647	580
6/23/2020	9	378	647	591
6/23/2020	10	391	647	616
6/23/2020	11	402	647	647
6/23/2020	12	400	647	647
6/23/2020	13	405	647	647
6/23/2020	14	418	647	647
6/23/2020	15	414	647	647
6/23/2020	16	400	647	647
6/23/2020	17	374	647	627
6/23/2020	18	347	550	500
6/23/2020	19	363	647	580
6/23/2020	20	375	647	638
6/23/2020	21	387	647	647
6/23/2020	22	388	647	647
6/23/2020	23	378	647	647
6/23/2020	24	361	647	647
6/24/2020	1	340	601	438
6/24/2020	2	330	550	508
6/24/2020	3	317	542	500
6/24/2020	4	307	500	470
6/24/2020	5	303	521	460
6/24/2020	6	295	521	460
6/24/2020	7	312	610	473
6/24/2020	8	345	647	473
6/24/2020	9	376	647	438
6/24/2020	10	395	647	418
6/24/2020	11	407	647	418
6/24/2020	12	404	647	418
6/24/2020	13	410	647	418
6/24/2020	14	425	647	310
6/24/2020	15	420	647	310
6/24/2020	16	409	647	418
6/24/2020	17	380	647	418
6/24/2020	18	353	570	418
6/24/2020	19	361	600	438
6/24/2020	20	372	600	438
6/24/2020	21	384	647	310
6/24/2020	22	387	647	310
6/24/2020	23	377	647	438
6/24/2020	24	362	580	438
6/25/2020	1	346	647	591
6/25/2020	2	334	647	573
6/25/2020	3	321	588	520
6/25/2020	4	311	531	470
6/25/2020	5	305	520	460
6/25/2020	6	295	519	460
6/25/2020	7	302	550	480
6/25/2020	8	341	647	619
6/25/2020	9	367	647	647
6/25/2020	10	384	647	647
6/25/2020	11	396	647	647
6/25/2020	12	394	647	573
6/25/2020	13	404	647	647
6/25/2020	14	416	647	647
6/25/2020	15	412	647	647
6/25/2020	16	398	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/25/2020	17	368	550	520
6/25/2020	18	346	500	480
6/25/2020	19	360	550	518
6/25/2020	20	371	583	520
6/25/2020	21	383	647	647
6/25/2020	22	386	647	647
6/25/2020	23	374	647	615
6/25/2020	24	359	551	480
6/26/2020	1	362	647	647
6/26/2020	2	351	647	647
6/26/2020	3	347	647	647
6/26/2020	4	337	647	580
6/26/2020	5	330	580	550
6/26/2020	6	321	550	500
6/26/2020	7	321	540	500
6/26/2020	8	352	647	647
6/26/2020	9	374	647	647
6/26/2020	10	393	647	647
6/26/2020	11	407	647	647
6/26/2020	12	404	647	647
6/26/2020	13	413	647	647
6/26/2020	14	424	647	647
6/26/2020	15	422	647	647
6/26/2020	16	406	647	647
6/26/2020	17	376	592	550
6/26/2020	18	350	550	500
6/26/2020	19	368	647	611
6/26/2020	20	382	647	647
6/26/2020	21	395	647	647
6/26/2020	22	401	647	647
6/26/2020	23	390	647	647
6/26/2020	24	371	647	647
6/27/2020	1	328	548	460
6/27/2020	2	316	534	460
6/27/2020	3	306	496	460
6/27/2020	4	297	469	460
6/27/2020	5	291	460	455
6/27/2020	6	279	460	455
6/27/2020	7	285	460	455
6/27/2020	8	309	460	455
6/27/2020	9	333	583	460
6/27/2020	10	352	567	460
6/27/2020	11	363	599	460
6/27/2020	12	358	591	460
6/27/2020	13	359	468	460
6/27/2020	14	367	575	460
6/27/2020	15	364	542	460
6/27/2020	16	355	547	460
6/27/2020	17	339	546	460
6/27/2020	18	331	512	460
6/27/2020	19	350	636	460
6/27/2020	20	353	614	460
6/27/2020	21	354	647	460
6/27/2020	22	350	638	460
6/27/2020	23	341	538	460
6/27/2020	24	329	553	460
6/28/2020	1	308	460	455
6/28/2020	2	293	460	455
6/28/2020	3	284	460	455
6/28/2020	4	275	460	455
6/28/2020	5	267	460	455
6/28/2020	6	261	460	455
6/28/2020	7	270	460	455
6/28/2020	8	286	460	455
6/28/2020	9	301	460	455

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/28/2020	10	315	460	455
6/28/2020	11	328	460	455
6/28/2020	12	328	460	455
6/28/2020	13	334	460	455
6/28/2020	14	346	460	455
6/28/2020	15	345	460	455
6/28/2020	16	332	460	455
6/28/2020	17	310	460	455
6/28/2020	18	304	460	455
6/28/2020	19	330	544	460
6/28/2020	20	336	607	460
6/28/2020	21	345	647	460
6/28/2020	22	343	605	460
6/28/2020	23	334	550	460
6/28/2020	24	321	481	460
6/29/2020	1	326	574	460
6/29/2020	2	314	561	460
6/29/2020	3	301	500	460
6/29/2020	4	288	480	460
6/29/2020	5	285	460	460
6/29/2020	6	278	460	455
6/29/2020	7	296	500	460
6/29/2020	8	340	580	460
6/29/2020	9	370	647	527
6/29/2020	10	389	647	547
6/29/2020	11	401	647	460
6/29/2020	12	398	647	460
6/29/2020	13	403	647	460
6/29/2020	14	415	647	647
6/29/2020	15	410	647	556
6/29/2020	16	393	556	460
6/29/2020	17	363	520	460
6/29/2020	18	341	460	455
6/29/2020	19	355	544	460
6/29/2020	20	364	577	460
6/29/2020	21	373	647	460
6/29/2020	22	375	647	497
6/29/2020	23	365	585	460
6/29/2020	24	351	514	460
6/30/2020	1	318	570	460
6/30/2020	2	306	550	460
6/30/2020	3	296	500	460
6/30/2020	4	288	480	460
6/30/2020	5	284	460	460
6/30/2020	6	277	460	455
6/30/2020	7	283	480	460
6/30/2020	8	326	550	460
6/30/2020	9	353	570	460
6/30/2020	10	372	647	460
6/30/2020	11	384	647	497
6/30/2020	12	381	580	460
6/30/2020	13	387	608	560
6/30/2020	14	401	647	635
6/30/2020	15	397	647	561
6/30/2020	16	384	553	524
6/30/2020	17	352	520	460
6/30/2020	18	330	460	455
6/30/2020	19	343	536	460
6/30/2020	20	353	580	460
6/30/2020	21	362	647	462
6/30/2020	22	360	647	520
6/30/2020	23	348	585	473
6/30/2020	24	334	520	460
7/1/2020	1	327	580	460
7/1/2020	2	318	580	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/1/2020	3	305	460	455
7/1/2020	4	296	460	455
7/1/2020	5	291	460	455
7/1/2020	6	284	550	460
7/1/2020	7	297	600	460
7/1/2020	8	333	647	464
7/1/2020	9	363	647	480
7/1/2020	10	383	647	513
7/1/2020	11	395	647	594
7/1/2020	12	391	647	580
7/1/2020	13	398	647	608
7/1/2020	14	413	647	647
7/1/2020	15	408	647	626
7/1/2020	16	397	647	540
7/1/2020	17	366	550	530
7/1/2020	18	340	460	455
7/1/2020	19	356	536	460
7/1/2020	20	369	580	465
7/1/2020	21	380	647	647
7/1/2020	22	384	647	647
7/1/2020	23	373	585	558
7/1/2020	24	358	577	460
7/2/2020	1	329	647	472
7/2/2020	2	323	647	460
7/2/2020	3	311	550	460
7/2/2020	4	299	520	460
7/2/2020	5	292	479	460
7/2/2020	6	284	460	455
7/2/2020	7	294	600	460
7/2/2020	8	329	647	464
7/2/2020	9	362	647	480
7/2/2020	10	384	647	543
7/2/2020	11	394	647	520
7/2/2020	12	393	647	500
7/2/2020	13	402	647	540
7/2/2020	14	416	647	553
7/2/2020	15	411	647	510
7/2/2020	16	395	647	483
7/2/2020	17	364	606	460
7/2/2020	18	345	460	455
7/2/2020	19	358	580	466
7/2/2020	20	370	647	532
7/2/2020	21	380	647	647
7/2/2020	22	380	647	544
7/2/2020	23	369	580	460
7/2/2020	24	351	520	460
7/3/2020	1	317	580	510
7/3/2020	2	304	560	460
7/3/2020	3	292	510	460
7/3/2020	4	284	471	460
7/3/2020	5	279	460	460
7/3/2020	6	273	460	455
7/3/2020	7	287	600	460
7/3/2020	8	324	600	473
7/3/2020	9	357	621	500
7/3/2020	10	379	647	538
7/3/2020	11	393	647	573
7/3/2020	12	389	633	500
7/3/2020	13	394	629	620
7/3/2020	14	407	647	509
7/3/2020	15	405	647	500
7/3/2020	16	393	580	480
7/3/2020	17	364	606	460
7/3/2020	18	339	460	455
7/3/2020	19	354	580	466

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/3/2020	20	361	590	470
7/3/2020	21	372	647	647
7/3/2020	22	371	647	544
7/3/2020	23	362	580	460
7/3/2020	24	345	520	460
7/4/2020	1	336	622	610
7/4/2020	2	326	615	615
7/4/2020	3	314	600	577
7/4/2020	4	305	597	583
7/4/2020	5	298	524	524
7/4/2020	6	286	520	500
7/4/2020	7	281	480	455
7/4/2020	8	305	455	410
7/4/2020	9	326	484	455
7/4/2020	10	345	516	455
7/4/2020	11	360	552	455
7/4/2020	12	358	554	455
7/4/2020	13	362	549	455
7/4/2020	14	372	620	455
7/4/2020	15	365	559	461
7/4/2020	16	354	583	518
7/4/2020	17	334	557	455
7/4/2020	18	326	500	455
7/4/2020	19	344	550	515
7/4/2020	20	350	647	529
7/4/2020	21	358	647	550
7/4/2020	22	359	647	604
7/4/2020	23	349	575	455
7/4/2020	24	333	540	455
7/5/2020	1	303	580	510
7/5/2020	2	288	560	460
7/5/2020	3	279	510	460
7/5/2020	4	271	471	460
7/5/2020	5	262	460	460
7/5/2020	6	256	460	455
7/5/2020	7	261	500	460
7/5/2020	8	277	533	460
7/5/2020	9	287	540	460
7/5/2020	10	301	550	460
7/5/2020	11	314	580	460
7/5/2020	12	314	540	460
7/5/2020	13	320	590	460
7/5/2020	14	324	580	460
7/5/2020	15	323	550	460
7/5/2020	16	310	500	460
7/5/2020	17	288	474	460
7/5/2020	18	283	460	455
7/5/2020	19	308	550	460
7/5/2020	20	314	578	460
7/5/2020	21	323	647	460
7/5/2020	22	322	647	460
7/5/2020	23	312	550	460
7/5/2020	24	299	500	460
7/6/2020	1	310	590	550
7/6/2020	2	298	582	500
7/6/2020	3	288	540	460
7/6/2020	4	280	527	460
7/6/2020	5	276	460	460
7/6/2020	6	273	460	455
7/6/2020	7	283	500	460
7/6/2020	8	326	533	460
7/6/2020	9	354	540	460
7/6/2020	10	374	550	460
7/6/2020	11	385	564	460
7/6/2020	12	382	520	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/6/2020	13	388	580	510
7/6/2020	14	403	647	647
7/6/2020	15	398	647	647
7/6/2020	16	385	580	550
7/6/2020	17	353	480	460
7/6/2020	18	331	460	455
7/6/2020	19	345	550	460
7/6/2020	20	355	578	460
7/6/2020	21	363	647	460
7/6/2020	22	362	647	480
7/6/2020	23	350	550	460
7/6/2020	24	335	510	460
7/7/2020	1	330	580	540
7/7/2020	2	318	550	510
7/7/2020	3	308	540	460
7/7/2020	4	299	520	460
7/7/2020	5	291	460	460
7/7/2020	6	287	460	455
7/7/2020	7	318	500	460
7/7/2020	8	337	533	460
7/7/2020	9	365	540	500
7/7/2020	10	386	550	501
7/7/2020	11	398	621	520
7/7/2020	12	392	616	500
7/7/2020	13	397	613	520
7/7/2020	14	408	647	571
7/7/2020	15	401	647	515
7/7/2020	16	385	563	460
7/7/2020	17	358	480	460
7/7/2020	18	335	460	455
7/7/2020	19	355	550	460
7/7/2020	20	360	578	460
7/7/2020	21	369	647	580
7/7/2020	22	366	647	583
7/7/2020	23	355	621	550
7/7/2020	24	340	525	460
7/8/2020	1	327	590	550
7/8/2020	2	313	560	520
7/8/2020	3	302	530	460
7/8/2020	4	293	520	460
7/8/2020	5	288	480	460
7/8/2020	6	282	460	455
7/8/2020	7	310	520	460
7/8/2020	8	334	533	460
7/8/2020	9	368	647	593
7/8/2020	10	390	647	647
7/8/2020	11	403	647	647
7/8/2020	12	400	647	584
7/8/2020	13	404	580	508
7/8/2020	14	418	647	647
7/8/2020	15	416	647	647
7/8/2020	16	402	647	525
7/8/2020	17	374	580	473
7/8/2020	18	349	500	460
7/8/2020	19	364	550	473
7/8/2020	20	372	580	460
7/8/2020	21	382	647	550
7/8/2020	22	382	647	565
7/8/2020	23	373	647	642
7/8/2020	24	355	580	516
7/9/2020	1	333	580	520
7/9/2020	2	323	540	500
7/9/2020	3	310	540	460
7/9/2020	4	302	510	460
7/9/2020	5	300	500	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/9/2020	6	293	460	455
7/9/2020	7	303	460	460
7/9/2020	8	336	530	463
7/9/2020	9	364	589	502
7/9/2020	10	384	647	579
7/9/2020	11	396	647	579
7/9/2020	12	394	647	578
7/9/2020	13	399	580	532
7/9/2020	14	413	647	647
7/9/2020	15	409	647	554
7/9/2020	16	399	606	525
7/9/2020	17	372	580	480
7/9/2020	18	350	475	460
7/9/2020	19	363	569	470
7/9/2020	20	372	580	460
7/9/2020	21	383	592	550
7/9/2020	22	383	594	540
7/9/2020	23	370	647	578
7/9/2020	24	357	580	520
7/10/2020	1	339	613	540
7/10/2020	2	327	540	486
7/10/2020	3	315	540	479
7/10/2020	4	306	510	460
7/10/2020	5	298	500	460
7/10/2020	6	292	460	455
7/10/2020	7	293	460	455
7/10/2020	8	334	530	463
7/10/2020	9	364	550	480
7/10/2020	10	386	555	500
7/10/2020	11	397	647	522
7/10/2020	12	396	647	570
7/10/2020	13	401	605	534
7/10/2020	14	416	647	647
7/10/2020	15	409	647	591
7/10/2020	16	395	613	500
7/10/2020	17	365	580	475
7/10/2020	18	341	460	460
7/10/2020	19	354	569	460
7/10/2020	20	361	580	460
7/10/2020	21	371	592	550
7/10/2020	22	370	594	540
7/10/2020	23	362	647	576
7/10/2020	24	348	555	526
7/11/2020	1	338	533	500
7/11/2020	2	326	460	455
7/11/2020	3	313	460	455
7/11/2020	4	305	525	460
7/11/2020	5	298	460	455
7/11/2020	6	288	460	455
7/11/2020	7	285	455	324
7/11/2020	8	309	455	408
7/11/2020	9	330	460	455
7/11/2020	10	349	460	455
7/11/2020	11	363	518	504
7/11/2020	12	360	580	575
7/11/2020	13	364	541	541
7/11/2020	14	375	545	541
7/11/2020	15	367	541	541
7/11/2020	16	353	490	490
7/11/2020	17	334	520	503
7/11/2020	18	325	596	550
7/11/2020	19	340	580	572
7/11/2020	20	345	541	541
7/11/2020	21	352	590	586
7/11/2020	22	351	541	541

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/11/2020	23	342	520	520
7/11/2020	24	328	494	490
7/12/2020	1	312	618	540
7/12/2020	2	297	520	480
7/12/2020	3	288	540	479
7/12/2020	4	279	510	460
7/12/2020	5	271	500	460
7/12/2020	6	265	460	455
7/12/2020	7	274	460	455
7/12/2020	8	290	500	460
7/12/2020	9	303	520	460
7/12/2020	10	317	556	480
7/12/2020	11	330	562	500
7/12/2020	12	329	580	492
7/12/2020	13	336	647	544
7/12/2020	14	348	647	647
7/12/2020	15	346	647	647
7/12/2020	16	333	580	500
7/12/2020	17	312	540	460
7/12/2020	18	306	460	460
7/12/2020	19	331	580	472
7/12/2020	20	338	590	489
7/12/2020	21	346	647	550
7/12/2020	22	345	647	547
7/12/2020	23	335	580	500
7/12/2020	24	323	555	462
7/13/2020	1	317	630	577
7/13/2020	2	303	550	486
7/13/2020	3	290	520	460
7/13/2020	4	282	510	460
7/13/2020	5	280	500	460
7/13/2020	6	281	510	460
7/13/2020	7	291	510	460
7/13/2020	8	336	500	460
7/13/2020	9	364	520	460
7/13/2020	10	384	647	499
7/13/2020	11	396	647	557
7/13/2020	12	394	590	556
7/13/2020	13	399	647	545
7/13/2020	14	415	647	647
7/13/2020	15	409	647	647
7/13/2020	16	399	647	647
7/13/2020	17	372	540	460
7/13/2020	18	350	460	460
7/13/2020	19	363	580	470
7/13/2020	20	372	590	490
7/13/2020	21	383	647	552
7/13/2020	22	383	647	647
7/13/2020	23	370	647	582
7/13/2020	24	357	570	475
7/14/2020	1	299	550	470
7/14/2020	2	288	520	460
7/14/2020	3	279	500	460
7/14/2020	4	270	470	460
7/14/2020	5	267	460	455
7/14/2020	6	263	460	455
7/14/2020	7	275	480	460
7/14/2020	8	309	500	460
7/14/2020	9	334	520	460
7/14/2020	10	353	560	460
7/14/2020	11	364	647	485
7/14/2020	12	360	590	467
7/14/2020	13	363	647	462
7/14/2020	14	375	647	548
7/14/2020	15	371	647	558

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/14/2020	16	357	550	460
7/14/2020	17	333	480	460
7/14/2020	18	310	460	455
7/14/2020	19	328	460	455
7/14/2020	20	335	466	460
7/14/2020	21	344	525	460
7/14/2020	22	343	600	460
7/14/2020	23	333	600	460
7/14/2020	24	319	548	460
7/15/2020	1	322	647	592
7/15/2020	2	310	580	561
7/15/2020	3	298	550	480
7/15/2020	4	289	500	460
7/15/2020	5	284	480	460
7/15/2020	6	276	460	460
7/15/2020	7	280	480	460
7/15/2020	8	317	550	460
7/15/2020	9	347	580	500
7/15/2020	10	367	647	551
7/15/2020	11	376	647	560
7/15/2020	12	370	590	460
7/15/2020	13	365	560	460
7/15/2020	14	383	647	508
7/15/2020	15	377	647	494
7/15/2020	16	364	550	460
7/15/2020	17	337	480	460
7/15/2020	18	319	460	455
7/15/2020	19	333	460	455
7/15/2020	20	339	480	460
7/15/2020	21	347	525	460
7/15/2020	22	348	600	460
7/15/2020	23	338	600	460
7/15/2020	24	325	548	460
7/16/2020	1	330	620	562
7/16/2020	2	322	600	544
7/16/2020	3	311	550	521
7/16/2020	4	300	500	462
7/16/2020	5	298	500	455
7/16/2020	6	291	460	455
7/16/2020	7	303	480	455
7/16/2020	8	337	550	550
7/16/2020	9	365	647	560
7/16/2020	10	385	647	580
7/16/2020	11	396	647	613
7/16/2020	12	395	647	647
7/16/2020	13	401	647	647
7/16/2020	14	416	647	647
7/16/2020	15	412	647	647
7/16/2020	16	402	647	636
7/16/2020	17	369	580	550
7/16/2020	18	348	500	460
7/16/2020	19	359	536	460
7/16/2020	20	367	580	500
7/16/2020	21	379	647	597
7/16/2020	22	379	647	603
7/16/2020	23	366	647	625
7/16/2020	24	354	580	550
7/17/2020	1	325	630	572
7/17/2020	2	311	580	520
7/17/2020	3	301	563	520
7/17/2020	4	288	500	462
7/17/2020	5	285	500	455
7/17/2020	6	280	460	455
7/17/2020	7	293	480	455
7/17/2020	8	328	574	550

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/17/2020	9	359	647	560
7/17/2020	10	379	647	647
7/17/2020	11	392	647	647
7/17/2020	12	388	647	597
7/17/2020	13	397	647	627
7/17/2020	14	409	647	647
7/17/2020	15	404	647	601
7/17/2020	16	387	647	560
7/17/2020	17	353	580	550
7/17/2020	18	333	500	460
7/17/2020	19	343	517	460
7/17/2020	20	348	534	500
7/17/2020	21	362	647	647
7/17/2020	22	362	647	574
7/17/2020	23	350	647	600
7/17/2020	24	339	627	580
7/18/2020	1	333	647	640
7/18/2020	2	321	524	522
7/18/2020	3	310	564	460
7/18/2020	4	303	522	460
7/18/2020	5	298	481	460
7/18/2020	6	287	460	455
7/18/2020	7	288	455	420
7/18/2020	8	308	475	455
7/18/2020	9	329	455	420
7/18/2020	10	352	524	513
7/18/2020	11	361	564	555
7/18/2020	12	360	647	580
7/18/2020	13	364	561	551
7/18/2020	14	373	647	647
7/18/2020	15	365	647	647
7/18/2020	16	345	642	569
7/18/2020	17	328	526	525
7/18/2020	18	322	511	500
7/18/2020	19	338	645	561
7/18/2020	20	338	647	542
7/18/2020	21	345	647	580
7/18/2020	22	344	647	625
7/18/2020	23	335	647	631
7/18/2020	24	320	624	552
7/19/2020	1	312	601	540
7/19/2020	2	298	580	500
7/19/2020	3	288	563	460
7/19/2020	4	280	500	460
7/19/2020	5	271	500	460
7/19/2020	6	265	460	460
7/19/2020	7	270	480	460
7/19/2020	8	284	500	474
7/19/2020	9	294	536	480
7/19/2020	10	308	580	500
7/19/2020	11	321	590	510
7/19/2020	12	321	550	480
7/19/2020	13	327	560	490
7/19/2020	14	339	647	564
7/19/2020	15	338	647	554
7/19/2020	16	325	550	500
7/19/2020	17	303	500	463
7/19/2020	18	297	490	460
7/19/2020	19	323	508	460
7/19/2020	20	329	580	491
7/19/2020	21	338	647	503
7/19/2020	22	337	647	557
7/19/2020	23	327	590	510
7/19/2020	24	314	580	500
7/20/2020	1	313	647	580

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/20/2020	2	299	620	550
7/20/2020	3	286	560	480
7/20/2020	4	278	500	460
7/20/2020	5	276	500	460
7/20/2020	6	277	460	460
7/20/2020	7	285	550	460
7/20/2020	8	328	647	550
7/20/2020	9	355	647	580
7/20/2020	10	375	647	588
7/20/2020	11	387	647	647
7/20/2020	12	386	647	647
7/20/2020	13	391	647	624
7/20/2020	14	407	647	647
7/20/2020	15	401	647	647
7/20/2020	16	390	647	647
7/20/2020	17	364	580	550
7/20/2020	18	342	480	460
7/20/2020	19	354	520	460
7/20/2020	20	363	570	460
7/20/2020	21	374	647	647
7/20/2020	22	374	647	647
7/20/2020	23	362	647	647
7/20/2020	24	349	647	610
7/21/2020	1	322	647	590
7/21/2020	2	310	620	550
7/21/2020	3	301	570	500
7/21/2020	4	292	520	460
7/21/2020	5	289	500	460
7/21/2020	6	283	460	460
7/21/2020	7	297	500	460
7/21/2020	8	333	647	550
7/21/2020	9	362	647	647
7/21/2020	10	383	647	647
7/21/2020	11	394	647	647
7/21/2020	12	390	647	601
7/21/2020	13	396	647	647
7/21/2020	14	408	647	647
7/21/2020	15	402	647	647
7/21/2020	16	389	647	633
7/21/2020	17	358	647	604
7/21/2020	18	335	580	550
7/21/2020	19	352	647	647
7/21/2020	20	358	647	647
7/21/2020	21	366	647	630
7/21/2020	22	364	647	647
7/21/2020	23	352	647	647
7/21/2020	24	339	647	647
7/22/2020	1	324	647	647
7/22/2020	2	312	647	647
7/22/2020	3	301	647	647
7/22/2020	4	293	647	647
7/22/2020	5	289	647	538
7/22/2020	6	282	580	547
7/22/2020	7	307	647	647
7/22/2020	8	332	616	550
7/22/2020	9	364	647	638
7/22/2020	10	387	647	647
7/22/2020	11	398	647	647
7/22/2020	12	396	647	647
7/22/2020	13	400	647	647
7/22/2020	14	412	647	647
7/22/2020	15	406	647	647
7/22/2020	16	387	647	608
7/22/2020	17	356	647	550
7/22/2020	18	337	580	500

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/22/2020	19	351	647	647
7/22/2020	20	357	647	580
7/22/2020	21	364	647	583
7/22/2020	22	361	647	559
7/22/2020	23	348	647	527
7/22/2020	24	336	620	520
7/23/2020	1	309	588	513
7/23/2020	2	298	566	460
7/23/2020	3	288	540	460
7/23/2020	4	281	520	460
7/23/2020	5	277	500	460
7/23/2020	6	273	460	455
7/23/2020	7	285	500	460
7/23/2020	8	319	596	500
7/23/2020	9	347	647	548
7/23/2020	10	368	647	548
7/23/2020	11	381	647	548
7/23/2020	12	377	647	548
7/23/2020	13	384	647	548
7/23/2020	14	395	647	548
7/23/2020	15	391	647	647
7/23/2020	16	376	647	608
7/23/2020	17	343	619	550
7/23/2020	18	323	500	460
7/23/2020	19	332	510	460
7/23/2020	20	338	530	460
7/23/2020	21	351	530	460
7/23/2020	22	351	592	460
7/23/2020	23	340	580	460
7/23/2020	24	328	570	460
7/24/2020	1	336	647	647
7/24/2020	2	326	647	647
7/24/2020	3	314	647	627
7/24/2020	4	304	647	621
7/24/2020	5	298	580	535
7/24/2020	6	292	520	460
7/24/2020	7	304	550	462
7/24/2020	8	335	647	511
7/24/2020	9	364	647	647
7/24/2020	10	384	647	647
7/24/2020	11	397	647	647
7/24/2020	12	392	647	647
7/24/2020	13	395	647	647
7/24/2020	14	407	647	647
7/24/2020	15	399	647	647
7/24/2020	16	385	647	541
7/24/2020	17	357	574	550
7/24/2020	18	338	500	460
7/24/2020	19	351	580	460
7/24/2020	20	356	550	524
7/24/2020	21	365	647	460
7/24/2020	22	365	647	460
7/24/2020	23	355	647	460
7/24/2020	24	341	647	460
7/25/2020	1	328	647	460
7/25/2020	2	321	647	460
7/25/2020	3	308	647	460
7/25/2020	4	297	647	460
7/25/2020	5	291	647	460
7/25/2020	6	282	489	460
7/25/2020	7	282	460	440
7/25/2020	8	309	500	460
7/25/2020	9	331	500	460
7/25/2020	10	348	630	460
7/25/2020	11	360	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/25/2020	12	358	647	460
7/25/2020	13	363	647	460
7/25/2020	14	373	647	460
7/25/2020	15	371	647	460
7/25/2020	16	360	647	460
7/25/2020	17	339	556	460
7/25/2020	18	326	578	460
7/25/2020	19	340	647	460
7/25/2020	20	347	647	460
7/25/2020	21	355	647	460
7/25/2020	22	356	647	460
7/25/2020	23	349	647	460
7/25/2020	24	331	647	460
7/26/2020	1	316	647	460
7/26/2020	2	302	647	460
7/26/2020	3	292	647	460
7/26/2020	4	284	520	465
7/26/2020	5	275	500	460
7/26/2020	6	269	480	460
7/26/2020	7	274	500	460
7/26/2020	8	288	520	460
7/26/2020	9	298	550	460
7/26/2020	10	312	560	460
7/26/2020	11	325	580	500
7/26/2020	12	324	550	490
7/26/2020	13	331	580	502
7/26/2020	14	343	647	647
7/26/2020	15	341	647	647
7/26/2020	16	328	590	541
7/26/2020	17	307	500	460
7/26/2020	18	301	500	460
7/26/2020	19	326	647	484
7/26/2020	20	333	647	523
7/26/2020	21	341	647	647
7/26/2020	22	340	647	628
7/26/2020	23	330	580	578
7/26/2020	24	318	540	467
7/27/2020	1	310	580	550
7/27/2020	2	298	560	510
7/27/2020	3	288	500	480
7/27/2020	4	280	480	460
7/27/2020	5	276	470	460
7/27/2020	6	274	460	460
7/27/2020	7	283	480	460
7/27/2020	8	326	520	460
7/27/2020	9	354	647	462
7/27/2020	10	374	647	552
7/27/2020	11	385	647	619
7/27/2020	12	382	647	616
7/27/2020	13	388	647	600
7/27/2020	14	403	647	647
7/27/2020	15	398	647	647
7/27/2020	16	385	647	647
7/27/2020	17	353	590	573
7/27/2020	18	331	500	460
7/27/2020	19	345	550	460
7/27/2020	20	355	580	475
7/27/2020	21	363	647	584
7/27/2020	22	362	647	647
7/27/2020	23	350	647	647
7/27/2020	24	336	647	647
7/28/2020	1	322	647	580
7/28/2020	2	310	580	550
7/28/2020	3	301	550	500
7/28/2020	4	294	498	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/28/2020	5	293	470	460
7/28/2020	6	289	460	460
7/28/2020	7	297	480	460
7/28/2020	8	337	520	460
7/28/2020	9	367	647	580
7/28/2020	10	387	647	647
7/28/2020	11	398	647	647
7/28/2020	12	393	647	647
7/28/2020	13	398	647	647
7/28/2020	14	412	647	647
7/28/2020	15	407	647	647
7/28/2020	16	394	647	647
7/28/2020	17	368	590	542
7/28/2020	18	347	500	460
7/28/2020	19	361	550	479
7/28/2020	20	364	580	480
7/28/2020	21	368	647	639
7/28/2020	22	360	647	544
7/28/2020	23	346	647	500
7/28/2020	24	335	647	480
7/29/2020	1	313	647	575
7/29/2020	2	302	593	550
7/29/2020	3	291	550	500
7/29/2020	4	284	498	460
7/29/2020	5	278	470	460
7/29/2020	6	272	460	460
7/29/2020	7	284	550	460
7/29/2020	8	320	580	460
7/29/2020	9	349	590	482
7/29/2020	10	371	600	492
7/29/2020	11	384	647	604
7/29/2020	12	380	580	562
7/29/2020	13	386	647	600
7/29/2020	14	399	647	647
7/29/2020	15	396	647	647
7/29/2020	16	380	647	601
7/29/2020	17	352	550	500
7/29/2020	18	331	500	460
7/29/2020	19	342	618	479
7/29/2020	20	350	647	540
7/29/2020	21	359	647	604
7/29/2020	22	358	647	585
7/29/2020	23	349	647	647
7/29/2020	24	329	647	460
7/30/2020	1	299	580	550
7/30/2020	2	288	550	500
7/30/2020	3	277	520	480
7/30/2020	4	272	498	460
7/30/2020	5	269	470	460
7/30/2020	6	264	460	460
7/30/2020	7	275	550	460
7/30/2020	8	308	580	460
7/30/2020	9	336	590	482
7/30/2020	10	357	600	492
7/30/2020	11	369	647	625
7/30/2020	12	366	617	562
7/30/2020	13	373	647	579
7/30/2020	14	395	647	647
7/30/2020	15	390	647	647
7/30/2020	16	382	647	611
7/30/2020	17	335	500	460
7/30/2020	18	315	460	459
7/30/2020	19	324	500	460
7/30/2020	20	330	510	460
7/30/2020	21	342	520	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/30/2020	22	343	520	474
7/30/2020	23	331	530	460
7/30/2020	24	321	500	460
7/31/2020	1	308	498	490
7/31/2020	2	304	478	473
7/31/2020	3	295	440	432
7/31/2020	4	286	440	420
7/31/2020	5	279	440	420
7/31/2020	6	272	440	420
7/31/2020	7	274	440	420
7/31/2020	8	288	456	440
7/31/2020	9	301	529	451
7/31/2020	10	315	530	468
7/31/2020	11	317	557	490
7/31/2020	12	317	568	473
7/31/2020	13	316	540	462
7/31/2020	14	321	570	464
7/31/2020	15	316	550	457
7/31/2020	16	309	540	477
7/31/2020	17	300	535	460
7/31/2020	18	296	458	440
7/31/2020	19	310	578	541
7/31/2020	20	315	598	598
7/31/2020	21	319	611	611
7/31/2020	22	318	623	547
7/31/2020	23	311	581	483
7/31/2020	24	300	479	472
8/1/2020	1	308	512	483
8/1/2020	2	298	473	440
8/1/2020	3	287	440	420
8/1/2020	4	279	440	420
8/1/2020	5	274	440	420
8/1/2020	6	264	440	420
8/1/2020	7	266	440	420
8/1/2020	8	287	456	440
8/1/2020	9	296	573	528
8/1/2020	10	321	553	540
8/1/2020	11	321	647	647
8/1/2020	12	332	647	647
8/1/2020	13	337	647	647
8/1/2020	14	347	647	647
8/1/2020	15	343	647	647
8/1/2020	16	328	647	647
8/1/2020	17	310	541	541
8/1/2020	18	287	500	450
8/1/2020	19	314	600	530
8/1/2020	20	318	607	550
8/1/2020	21	323	647	647
8/1/2020	22	323	646	567
8/1/2020	23	315	601	500
8/1/2020	24	303	500	493
8/2/2020	1	299	586	550
8/2/2020	2	284	550	490
8/2/2020	3	275	520	460
8/2/2020	4	267	480	460
8/2/2020	5	258	470	460
8/2/2020	6	252	460	460
8/2/2020	7	257	480	460
8/2/2020	8	273	500	460
8/2/2020	9	291	550	460
8/2/2020	10	305	570	460
8/2/2020	11	318	580	480
8/2/2020	12	317	566	470
8/2/2020	13	324	580	540
8/2/2020	14	328	626	570

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/2/2020	15	326	580	550
8/2/2020	16	313	560	500
8/2/2020	17	292	500	460
8/2/2020	18	286	460	459
8/2/2020	19	311	500	460
8/2/2020	20	318	536	460
8/2/2020	21	326	580	460
8/2/2020	22	325	570	460
8/2/2020	23	315	530	460
8/2/2020	24	303	500	460
8/3/2020	1	299	580	526
8/3/2020	2	288	550	476
8/3/2020	3	277	520	460
8/3/2020	4	272	480	460
8/3/2020	5	269	470	460
8/3/2020	6	268	460	460
8/3/2020	7	279	480	460
8/3/2020	8	312	500	460
8/3/2020	9	348	550	500
8/3/2020	10	368	580	521
8/3/2020	11	381	647	647
8/3/2020	12	378	647	563
8/3/2020	13	384	584	550
8/3/2020	14	406	647	647
8/3/2020	15	402	647	647
8/3/2020	16	393	647	647
8/3/2020	17	346	550	500
8/3/2020	18	327	520	460
8/3/2020	19	336	530	460
8/3/2020	20	341	530	460
8/3/2020	21	354	580	550
8/3/2020	22	354	647	647
8/3/2020	23	343	647	550
8/3/2020	24	332	647	520
8/4/2020	1	305	590	500
8/4/2020	2	295	560	480
8/4/2020	3	286	540	460
8/4/2020	4	278	520	460
8/4/2020	5	275	500	460
8/4/2020	6	271	460	452
8/4/2020	7	285	500	460
8/4/2020	8	316	647	578
8/4/2020	9	342	647	580
8/4/2020	10	361	647	616
8/4/2020	11	375	647	647
8/4/2020	12	370	647	583
8/4/2020	13	373	647	585
8/4/2020	14	384	647	647
8/4/2020	15	379	647	587
8/4/2020	16	367	647	548
8/4/2020	17	343	619	520
8/4/2020	18	326	500	460
8/4/2020	19	335	647	466
8/4/2020	20	337	580	460
8/4/2020	21	339	590	460
8/4/2020	22	330	580	460
8/4/2020	23	317	580	460
8/4/2020	24	303	570	460
8/5/2020	1	307	590	500
8/5/2020	2	296	560	480
8/5/2020	3	286	540	460
8/5/2020	4	278	520	460
8/5/2020	5	275	500	460
8/5/2020	6	269	460	452
8/5/2020	7	281	500	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/5/2020	8	314	647	578
8/5/2020	9	343	647	580
8/5/2020	10	363	647	613
8/5/2020	11	376	647	621
8/5/2020	12	373	647	536
8/5/2020	13	378	647	566
8/5/2020	14	392	647	647
8/5/2020	15	388	647	647
8/5/2020	16	375	647	548
8/5/2020	17	349	580	505
8/5/2020	18	329	500	460
8/5/2020	19	342	580	460
8/5/2020	20	349	570	460
8/5/2020	21	355	647	460
8/5/2020	22	355	647	647
8/5/2020	23	344	647	647
8/5/2020	24	332	647	555
8/6/2020	1	309	600	530
8/6/2020	2	297	561	480
8/6/2020	3	291	550	460
8/6/2020	4	280	520	460
8/6/2020	5	278	500	460
8/6/2020	6	273	460	452
8/6/2020	7	284	500	460
8/6/2020	8	316	647	578
8/6/2020	9	345	647	585
8/6/2020	10	364	647	590
8/6/2020	11	376	647	590
8/6/2020	12	373	647	508
8/6/2020	13	372	580	514
8/6/2020	14	385	647	603
8/6/2020	15	383	647	603
8/6/2020	16	371	647	550
8/6/2020	17	345	580	500
8/6/2020	18	327	500	460
8/6/2020	19	343	580	460
8/6/2020	20	348	570	460
8/6/2020	21	354	647	555
8/6/2020	22	349	647	607
8/6/2020	23	332	647	607
8/6/2020	24	320	620	542
8/7/2020	1	310	647	647
8/7/2020	2	301	647	647
8/7/2020	3	290	647	647
8/7/2020	4	279	580	550
8/7/2020	5	287	647	647
8/7/2020	6	292	647	647
8/7/2020	7	302	647	647
8/7/2020	8	342	647	647
8/7/2020	9	369	647	647
8/7/2020	10	387	647	647
8/7/2020	11	394	647	647
8/7/2020	12	387	647	647
8/7/2020	13	382	647	616
8/7/2020	14	389	647	626
8/7/2020	15	385	647	565
8/7/2020	16	382	647	540
8/7/2020	17	371	647	647
8/7/2020	18	367	647	647
8/7/2020	19	378	647	647
8/7/2020	20	372	647	647
8/7/2020	21	363	647	647
8/7/2020	22	351	647	647
8/7/2020	23	328	595	580
8/7/2020	24	313	560	500

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/8/2020	1	298	460	440
8/8/2020	2	288	460	440
8/8/2020	3	277	440	420
8/8/2020	4	270	440	391
8/8/2020	5	267	440	352
8/8/2020	6	262	440	360
8/8/2020	7	278	440	352
8/8/2020	8	289	460	440
8/8/2020	9	310	460	440
8/8/2020	10	329	479	460
8/8/2020	11	340	555	517
8/8/2020	12	338	545	521
8/8/2020	13	335	494	481
8/8/2020	14	341	491	467
8/8/2020	15	337	460	440
8/8/2020	16	325	464	460
8/8/2020	17	311	460	440
8/8/2020	18	305	460	440
8/8/2020	19	313	467	440
8/8/2020	20	313	473	455
8/8/2020	21	316	566	481
8/8/2020	22	311	473	468
8/8/2020	23	302	460	440
8/8/2020	24	291	460	440
8/9/2020	1	291	580	530
8/9/2020	2	280	560	500
8/9/2020	3	267	550	490
8/9/2020	4	259	540	480
8/9/2020	5	250	550	460
8/9/2020	6	244	500	460
8/9/2020	7	249	510	460
8/9/2020	8	257	541	460
8/9/2020	9	264	542	460
8/9/2020	10	278	570	528
8/9/2020	11	291	647	561
8/9/2020	12	291	580	460
8/9/2020	13	297	568	460
8/9/2020	14	301	647	493
8/9/2020	15	300	647	546
8/9/2020	16	287	570	460
8/9/2020	17	265	513	460
8/9/2020	18	259	512	460
8/9/2020	19	285	580	460
8/9/2020	20	291	590	498
8/9/2020	21	300	590	480
8/9/2020	22	299	580	490
8/9/2020	23	289	560	480
8/9/2020	24	280	500	460
8/10/2020	1	291	580	530
8/10/2020	2	280	560	505
8/10/2020	3	269	550	472
8/10/2020	4	264	540	460
8/10/2020	5	261	550	460
8/10/2020	6	260	500	460
8/10/2020	7	271	510	460
8/10/2020	8	312	540	460
8/10/2020	9	334	550	500
8/10/2020	10	354	570	522
8/10/2020	11	366	647	536
8/10/2020	12	358	647	550
8/10/2020	13	363	647	647
8/10/2020	14	375	647	647
8/10/2020	15	369	647	647
8/10/2020	16	357	647	580
8/10/2020	17	334	580	550

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/10/2020	18	319	512	460
8/10/2020	19	335	580	460
8/10/2020	20	339	590	498
8/10/2020	21	346	647	573
8/10/2020	22	343	647	647
8/10/2020	23	329	647	570
8/10/2020	24	319	580	531
8/11/2020	1	297	602	550
8/11/2020	2	287	573	500
8/11/2020	3	278	562	490
8/11/2020	4	271	531	460
8/11/2020	5	268	513	460
8/11/2020	6	265	483	460
8/11/2020	7	274	550	460
8/11/2020	8	300	550	460
8/11/2020	9	324	560	500
8/11/2020	10	344	580	554
8/11/2020	11	357	647	510
8/11/2020	12	354	647	510
8/11/2020	13	356	610	542
8/11/2020	14	370	647	647
8/11/2020	15	368	647	647
8/11/2020	16	351	580	550
8/11/2020	17	327	560	520
8/11/2020	18	309	480	460
8/11/2020	19	321	500	460
8/11/2020	20	325	550	460
8/11/2020	21	329	580	462
8/11/2020	22	322	647	534
8/11/2020	23	309	580	500
8/11/2020	24	308	562	500
8/12/2020	1	308	647	580
8/12/2020	2	297	600	550
8/12/2020	3	287	580	520
8/12/2020	4	279	550	500
8/12/2020	5	276	540	480
8/12/2020	6	271	520	460
8/12/2020	7	282	570	460
8/12/2020	8	313	600	528
8/12/2020	9	343	647	545
8/12/2020	10	363	647	647
8/12/2020	11	373	647	647
8/12/2020	12	368	627	582
8/12/2020	13	375	647	647
8/12/2020	14	386	647	647
8/12/2020	15	380	647	647
8/12/2020	16	365	647	602
8/12/2020	17	338	560	520
8/12/2020	18	320	480	460
8/12/2020	19	334	500	460
8/12/2020	20	339	550	460
8/12/2020	21	346	631	462
8/12/2020	22	344	647	647
8/12/2020	23	331	627	500
8/12/2020	24	320	562	500
8/13/2020	1	303	647	580
8/13/2020	2	291	590	550
8/13/2020	3	282	580	510
8/13/2020	4	275	550	490
8/13/2020	5	271	540	470
8/13/2020	6	269	520	460
8/13/2020	7	269	470	460
8/13/2020	8	307	600	528
8/13/2020	9	333	633	530
8/13/2020	10	353	647	530

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/13/2020	11	364	647	539
8/13/2020	12	354	580	510
8/13/2020	13	355	590	547
8/13/2020	14	360	647	600
8/13/2020	15	351	587	550
8/13/2020	16	339	563	460
8/13/2020	17	323	550	460
8/13/2020	18	312	470	460
8/13/2020	19	323	500	460
8/13/2020	20	325	580	460
8/13/2020	21	329	630	460
8/13/2020	22	323	604	460
8/13/2020	23	313	573	460
8/13/2020	24	302	550	460
8/14/2020	1	303	627	580
8/14/2020	2	292	588	540
8/14/2020	3	286	580	510
8/14/2020	4	277	550	460
8/14/2020	5	276	540	460
8/14/2020	6	274	520	460
8/14/2020	7	271	460	450
8/14/2020	8	313	610	528
8/14/2020	9	341	647	569
8/14/2020	10	361	647	580
8/14/2020	11	363	647	539
8/14/2020	12	360	647	521
8/14/2020	13	357	647	550
8/14/2020	14	370	647	584
8/14/2020	15	360	647	550
8/14/2020	16	348	580	480
8/14/2020	17	329	570	460
8/14/2020	18	317	550	460
8/14/2020	19	338	580	460
8/14/2020	20	332	590	569
8/14/2020	21	335	647	570
8/14/2020	22	331	647	550
8/14/2020	23	320	590	500
8/14/2020	24	309	580	500
8/15/2020	1	305	627	580
8/15/2020	2	296	588	561
8/15/2020	3	285	531	510
8/15/2020	4	278	550	460
8/15/2020	5	274	540	478
8/15/2020	6	269	520	460
8/15/2020	7	273	450	420
8/15/2020	8	297	610	503
8/15/2020	9	319	600	503
8/15/2020	10	338	647	550
8/15/2020	11	350	647	606
8/15/2020	12	348	604	521
8/15/2020	13	344	550	506
8/15/2020	14	350	647	594
8/15/2020	15	346	569	525
8/15/2020	16	334	500	480
8/15/2020	17	320	570	449
8/15/2020	18	313	550	420
8/15/2020	19	321	580	475
8/15/2020	20	322	590	569
8/15/2020	21	324	647	570
8/15/2020	22	319	630	567
8/15/2020	23	310	600	534
8/15/2020	24	299	580	500
8/16/2020	1	291	590	520
8/16/2020	2	280	560	520
8/16/2020	3	275	550	500

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/16/2020	4	267	520	460
8/16/2020	5	258	540	460
8/16/2020	6	252	460	450
8/16/2020	7	257	460	450
8/16/2020	8	261	530	460
8/16/2020	9	263	550	460
8/16/2020	10	277	560	460
8/16/2020	11	286	584	500
8/16/2020	12	285	540	460
8/16/2020	13	292	550	495
8/16/2020	14	296	600	562
8/16/2020	15	294	570	550
8/16/2020	16	281	550	460
8/16/2020	17	260	460	450
8/16/2020	18	254	460	420
8/16/2020	19	279	550	460
8/16/2020	20	286	580	460
8/16/2020	21	294	580	550
8/16/2020	22	293	574	550
8/16/2020	23	287	521	500
8/16/2020	24	281	500	468
8/17/2020	1	279	570	520
8/17/2020	2	268	560	510
8/17/2020	3	261	550	460
8/17/2020	4	260	520	460
8/17/2020	5	257	540	460
8/17/2020	6	256	460	450
8/17/2020	7	267	460	450
8/17/2020	8	308	530	460
8/17/2020	9	326	550	460
8/17/2020	10	345	573	500
8/17/2020	11	348	647	550
8/17/2020	12	345	540	460
8/17/2020	13	342	550	495
8/17/2020	14	355	647	570
8/17/2020	15	345	570	550
8/17/2020	16	333	550	460
8/17/2020	17	314	460	450
8/17/2020	18	302	460	420
8/17/2020	19	323	550	460
8/17/2020	20	317	580	460
8/17/2020	21	320	580	550
8/17/2020	22	316	574	550
8/17/2020	23	305	521	500
8/17/2020	24	294	500	468
8/18/2020	1	307	647	580
8/18/2020	2	293	590	550
8/18/2020	3	285	570	500
8/18/2020	4	279	520	460
8/18/2020	5	279	510	460
8/18/2020	6	280	520	460
8/18/2020	7	291	540	460
8/18/2020	8	323	571	500
8/18/2020	9	349	600	590
8/18/2020	10	369	610	600
8/18/2020	11	379	647	647
8/18/2020	12	373	580	550
8/18/2020	13	373	550	502
8/18/2020	14	381	647	630
8/18/2020	15	376	629	550
8/18/2020	16	368	580	515
8/18/2020	17	350	539	460
8/18/2020	18	338	500	460
8/18/2020	19	349	550	460
8/18/2020	20	349	560	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/18/2020	21	349	550	460
8/18/2020	22	341	548	460
8/18/2020	23	325	550	460
8/18/2020	24	312	500	460
8/19/2020	1	303	620	575
8/19/2020	2	293	600	550
8/19/2020	3	284	570	500
8/19/2020	4	277	520	460
8/19/2020	5	275	510	460
8/19/2020	6	270	520	460
8/19/2020	7	292	540	460
8/19/2020	8	321	600	547
8/19/2020	9	350	647	590
8/19/2020	10	369	647	647
8/19/2020	11	378	647	647
8/19/2020	12	375	647	581
8/19/2020	13	378	647	647
8/19/2020	14	389	647	647
8/19/2020	15	383	647	647
8/19/2020	16	370	622	550
8/19/2020	17	341	550	460
8/19/2020	18	326	470	460
8/19/2020	19	342	481	460
8/19/2020	20	346	560	460
8/19/2020	21	353	647	647
8/19/2020	22	350	647	647
8/19/2020	23	337	647	550
8/19/2020	24	326	647	550
8/20/2020	1	300	590	571
8/20/2020	2	287	580	550
8/20/2020	3	279	570	500
8/20/2020	4	274	520	460
8/20/2020	5	273	509	460
8/20/2020	6	274	520	460
8/20/2020	7	286	540	460
8/20/2020	8	322	592	500
8/20/2020	9	341	600	520
8/20/2020	10	362	610	516
8/20/2020	11	374	647	544
8/20/2020	12	369	580	480
8/20/2020	13	372	580	514
8/20/2020	14	381	647	590
8/20/2020	15	376	647	577
8/20/2020	16	365	580	520
8/20/2020	17	344	539	460
8/20/2020	18	330	460	460
8/20/2020	19	342	522	460
8/20/2020	20	344	560	460
8/20/2020	21	345	550	460
8/20/2020	22	334	647	647
8/20/2020	23	321	647	647
8/20/2020	24	311	647	647
8/21/2020	1	294	647	578
8/21/2020	2	287	647	569
8/21/2020	3	279	570	529
8/21/2020	4	274	520	505
8/21/2020	5	271	509	460
8/21/2020	6	268	520	460
8/21/2020	7	273	460	445
8/21/2020	8	291	516	500
8/21/2020	9	314	528	520
8/21/2020	10	331	550	460
8/21/2020	11	344	647	578
8/21/2020	12	339	577	480
8/21/2020	13	339	530	486

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/21/2020	14	349	647	584
8/21/2020	15	346	647	567
8/21/2020	16	337	580	530
8/21/2020	17	320	460	420
8/21/2020	18	315	460	420
8/21/2020	19	326	500	460
8/21/2020	20	323	460	450
8/21/2020	21	325	550	460
8/21/2020	22	319	647	501
8/21/2020	23	310	647	509
8/21/2020	24	299	647	525
8/22/2020	1	296	527	520
8/22/2020	2	288	495	460
8/22/2020	3	278	495	460
8/22/2020	4	273	495	460
8/22/2020	5	267	460	455
8/22/2020	6	259	463	460
8/22/2020	7	271	489	460
8/22/2020	8	290	504	460
8/22/2020	9	306	506	463
8/22/2020	10	324	576	565
8/22/2020	11	330	562	562
8/22/2020	12	331	525	506
8/22/2020	13	329	523	503
8/22/2020	14	342	631	616
8/22/2020	15	335	571	543
8/22/2020	16	317	519	519
8/22/2020	17	304	480	468
8/22/2020	18	307	499	499
8/22/2020	19	327	616	616
8/22/2020	20	325	600	598
8/22/2020	21	326	642	642
8/22/2020	22	323	636	636
8/22/2020	23	307	561	547
8/22/2020	24	298	628	551
8/23/2020	1	295	590	571
8/23/2020	2	284	580	561
8/23/2020	3	271	520	500
8/23/2020	4	263	500	460
8/23/2020	5	254	509	460
8/23/2020	6	248	520	460
8/23/2020	7	253	540	460
8/23/2020	8	261	580	460
8/23/2020	9	274	590	500
8/23/2020	10	288	610	510
8/23/2020	11	301	647	550
8/23/2020	12	301	581	480
8/23/2020	13	307	580	520
8/23/2020	14	311	647	587
8/23/2020	15	310	647	579
8/23/2020	16	297	580	561
8/23/2020	17	275	539	460
8/23/2020	18	269	460	460
8/23/2020	19	295	580	460
8/23/2020	20	301	647	460
8/23/2020	21	310	647	647
8/23/2020	22	308	647	576
8/23/2020	23	299	647	539
8/23/2020	24	290	647	500
8/24/2020	1	283	590	530
8/24/2020	2	272	580	527
8/24/2020	3	265	520	500
8/24/2020	4	264	500	466
8/24/2020	5	261	509	460
8/24/2020	6	260	520	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/24/2020	7	271	540	460
8/24/2020	8	308	580	460
8/24/2020	9	334	590	500
8/24/2020	10	351	610	510
8/24/2020	11	363	647	550
8/24/2020	12	357	581	480
8/24/2020	13	367	580	520
8/24/2020	14	376	647	590
8/24/2020	15	368	647	579
8/24/2020	16	353	580	561
8/24/2020	17	333	539	460
8/24/2020	18	321	460	460
8/24/2020	19	328	552	460
8/24/2020	20	328	560	460
8/24/2020	21	330	580	550
8/24/2020	22	324	560	520
8/24/2020	23	311	540	500
8/24/2020	24	301	520	480
8/25/2020	1	321	647	647
8/25/2020	2	308	610	590
8/25/2020	3	298	580	550
8/25/2020	4	292	520	480
8/25/2020	5	292	510	490
8/25/2020	6	291	510	480
8/25/2020	7	298	540	460
8/25/2020	8	335	580	460
8/25/2020	9	364	647	647
8/25/2020	10	385	647	647
8/25/2020	11	395	647	647
8/25/2020	12	390	647	595
8/25/2020	13	390	647	600
8/25/2020	14	397	647	647
8/25/2020	15	389	647	622
8/25/2020	16	376	647	580
8/25/2020	17	356	647	576
8/25/2020	18	345	647	522
8/25/2020	19	358	647	617
8/25/2020	20	361	647	616
8/25/2020	21	364	647	592
8/25/2020	22	359	647	647
8/25/2020	23	346	647	647
8/25/2020	24	333	647	564
8/26/2020	1	322	647	460
8/26/2020	2	311	647	460
8/26/2020	3	305	647	460
8/26/2020	4	297	647	460
8/26/2020	5	298	647	460
8/26/2020	6	298	647	460
8/26/2020	7	304	647	460
8/26/2020	8	338	647	460
8/26/2020	9	364	647	460
8/26/2020	10	386	647	460
8/26/2020	11	398	647	460
8/26/2020	12	389	647	460
8/26/2020	13	392	647	460
8/26/2020	14	401	647	460
8/26/2020	15	398	647	460
8/26/2020	16	388	647	460
8/26/2020	17	360	647	460
8/26/2020	18	341	647	460
8/26/2020	19	356	647	460
8/26/2020	20	359	647	460
8/26/2020	21	364	647	460
8/26/2020	22	362	647	460
8/26/2020	23	344	601	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/26/2020	24	324	593	460
8/27/2020	1	327	647	460
8/27/2020	2	317	647	460
8/27/2020	3	309	647	460
8/27/2020	4	301	647	460
8/27/2020	5	299	647	460
8/27/2020	6	301	647	460
8/27/2020	7	315	647	460
8/27/2020	8	345	647	460
8/27/2020	9	371	647	460
8/27/2020	10	389	647	460
8/27/2020	11	405	647	460
8/27/2020	12	399	647	460
8/27/2020	13	398	647	460
8/27/2020	14	404	647	460
8/27/2020	15	398	647	460
8/27/2020	16	387	647	460
8/27/2020	17	368	647	460
8/27/2020	18	355	647	460
8/27/2020	19	365	647	460
8/27/2020	20	364	647	460
8/27/2020	21	366	647	460
8/27/2020	22	359	647	460
8/27/2020	23	345	601	460
8/27/2020	24	334	593	460
8/28/2020	1	321	647	460
8/28/2020	2	303	647	460
8/28/2020	3	296	647	460
8/28/2020	4	290	647	460
8/28/2020	5	294	647	460
8/28/2020	6	296	647	460
8/28/2020	7	312	647	460
8/28/2020	8	340	647	460
8/28/2020	9	365	647	460
8/28/2020	10	385	647	460
8/28/2020	11	395	647	460
8/28/2020	12	387	647	460
8/28/2020	13	386	647	460
8/28/2020	14	400	647	460
8/28/2020	15	396	647	460
8/28/2020	16	390	647	460
8/28/2020	17	373	647	460
8/28/2020	18	368	647	460
8/28/2020	19	378	647	460
8/28/2020	20	375	647	460
8/28/2020	21	374	647	460
8/28/2020	22	363	647	460
8/28/2020	23	347	647	460
8/28/2020	24	331	647	460
8/29/2020	1	328	647	460
8/29/2020	2	317	647	460
8/29/2020	3	307	647	460
8/29/2020	4	298	647	460
8/29/2020	5	307	647	460
8/29/2020	6	309	647	460
8/29/2020	7	302	647	460
8/29/2020	8	319	647	460
8/29/2020	9	343	647	460
8/29/2020	10	363	647	460
8/29/2020	11	376	647	460
8/29/2020	12	372	647	460
8/29/2020	13	371	647	460
8/29/2020	14	379	647	460
8/29/2020	15	374	647	460
8/29/2020	16	361	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/29/2020	17	347	647	460
8/29/2020	18	338	647	460
8/29/2020	19	351	647	460
8/29/2020	20	353	647	460
8/29/2020	21	357	647	460
8/29/2020	22	354	647	460
8/29/2020	23	345	647	460
8/29/2020	24	333	647	460
8/30/2020	1	307	647	460
8/30/2020	2	292	647	460
8/30/2020	3	283	647	460
8/30/2020	4	275	647	460
8/30/2020	5	266	647	460
8/30/2020	6	260	647	460
8/30/2020	7	265	647	460
8/30/2020	8	281	647	460
8/30/2020	9	303	647	460
8/30/2020	10	317	647	460
8/30/2020	11	330	647	460
8/30/2020	12	330	647	460
8/30/2020	13	336	647	460
8/30/2020	14	340	647	460
8/30/2020	15	338	647	460
8/30/2020	16	326	647	460
8/30/2020	17	304	647	460
8/30/2020	18	298	647	460
8/30/2020	19	323	647	460
8/30/2020	20	330	647	460
8/30/2020	21	337	647	460
8/30/2020	22	333	647	460
8/30/2020	23	328	647	460
8/30/2020	24	315	647	460
8/31/2020	1	304	539	420
8/31/2020	2	295	420	420
8/31/2020	3	288	420	420
8/31/2020	4	282	420	420
8/31/2020	5	280	420	420
8/31/2020	6	278	420	420
8/31/2020	7	281	420	420
8/31/2020	8	300	420	420
8/31/2020	9	325	433	426
8/31/2020	10	344	596	450
8/31/2020	11	355	621	492
8/31/2020	12	349	462	433
8/31/2020	13	340	420	420
8/31/2020	14	348	508	433
8/31/2020	15	344	499	433
8/31/2020	16	336	436	433
8/31/2020	17	332	520	433
8/31/2020	18	335	603	435
8/31/2020	19	340	605	485
8/31/2020	20	350	647	637
8/31/2020	21	349	647	647
8/31/2020	22	344	647	647
8/31/2020	23	335	647	647
8/31/2020	24	322	624	586
9/1/2020	1	300	600	550
9/1/2020	2	287	580	520
9/1/2020	3	279	560	500
9/1/2020	4	274	550	460
9/1/2020	5	274	540	460
9/1/2020	6	274	550	460
9/1/2020	7	284	560	460
9/1/2020	8	338	647	614
9/1/2020	9	367	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/1/2020	10	385	647	647
9/1/2020	11	398	647	647
9/1/2020	12	391	580	550
9/1/2020	13	398	590	570
9/1/2020	14	411	647	647
9/1/2020	15	407	647	647
9/1/2020	16	394	647	647
9/1/2020	17	363	647	572
9/1/2020	18	344	580	550
9/1/2020	19	361	590	570
9/1/2020	20	365	600	550
9/1/2020	21	375	647	605
9/1/2020	22	373	647	598
9/1/2020	23	362	647	565
9/1/2020	24	348	580	550
9/2/2020	1	321	590	540
9/2/2020	2	308	562	500
9/2/2020	3	299	532	460
9/2/2020	4	290	512	460
9/2/2020	5	286	512	460
9/2/2020	6	284	502	460
9/2/2020	7	285	540	460
9/2/2020	8	328	550	460
9/2/2020	9	356	591	550
9/2/2020	10	374	647	647
9/2/2020	11	387	647	647
9/2/2020	12	381	647	647
9/2/2020	13	388	647	647
9/2/2020	14	400	647	647
9/2/2020	15	396	647	647
9/2/2020	16	383	647	647
9/2/2020	17	354	647	570
9/2/2020	18	334	580	498
9/2/2020	19	353	647	532
9/2/2020	20	355	647	599
9/2/2020	21	364	647	625
9/2/2020	22	361	647	632
9/2/2020	23	349	647	580
9/2/2020	24	337	615	550
9/3/2020	1	330	647	580
9/3/2020	2	316	647	550
9/3/2020	3	307	647	521
9/3/2020	4	298	647	460
9/3/2020	5	294	647	460
9/3/2020	6	292	647	460
9/3/2020	7	297	580	460
9/3/2020	8	336	647	460
9/3/2020	9	364	647	550
9/3/2020	10	382	647	647
9/3/2020	11	394	647	647
9/3/2020	12	388	647	569
9/3/2020	13	392	647	647
9/3/2020	14	402	647	647
9/3/2020	15	395	647	599
9/3/2020	16	383	601	550
9/3/2020	17	358	647	520
9/3/2020	18	341	580	485
9/3/2020	19	356	604	532
9/3/2020	20	359	600	578
9/3/2020	21	365	647	481
9/3/2020	22	360	647	522
9/3/2020	23	348	647	592
9/3/2020	24	336	615	522
9/4/2020	1	324	647	590
9/4/2020	2	312	647	567

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/4/2020	3	305	624	521
9/4/2020	4	300	580	460
9/4/2020	5	300	580	460
9/4/2020	6	300	647	460
9/4/2020	7	311	580	460
9/4/2020	8	342	647	460
9/4/2020	9	369	647	550
9/4/2020	10	389	647	647
9/4/2020	11	399	647	647
9/4/2020	12	390	647	647
9/4/2020	13	390	647	584
9/4/2020	14	400	647	647
9/4/2020	15	390	647	550
9/4/2020	16	378	601	550
9/4/2020	17	362	580	520
9/4/2020	18	355	580	485
9/4/2020	19	366	604	564
9/4/2020	20	365	647	589
9/4/2020	21	364	647	602
9/4/2020	22	359	647	589
9/4/2020	23	345	647	590
9/4/2020	24	332	615	540
9/5/2020	1	319	647	596
9/5/2020	2	307	550	463
9/5/2020	3	298	520	460
9/5/2020	4	294	580	460
9/5/2020	5	293	588	460
9/5/2020	6	288	460	400
9/5/2020	7	300	460	420
9/5/2020	8	330	647	533
9/5/2020	9	356	647	647
9/5/2020	10	381	647	647
9/5/2020	11	393	647	647
9/5/2020	12	385	647	647
9/5/2020	13	381	647	647
9/5/2020	14	389	647	647
9/5/2020	15	383	647	647
9/5/2020	16	372	647	647
9/5/2020	17	361	647	647
9/5/2020	18	365	647	647
9/5/2020	19	371	647	647
9/5/2020	20	367	647	647
9/5/2020	21	364	647	647
9/5/2020	22	361	647	647
9/5/2020	23	344	632	550
9/5/2020	24	328	578	550
9/6/2020	1	307	600	570
9/6/2020	2	292	580	540
9/6/2020	3	282	550	520
9/6/2020	4	274	520	460
9/6/2020	5	266	500	460
9/6/2020	6	260	480	460
9/6/2020	7	264	500	460
9/6/2020	8	280	550	460
9/6/2020	9	301	580	520
9/6/2020	10	315	580	550
9/6/2020	11	328	648	550
9/6/2020	12	328	625	580
9/6/2020	13	335	647	585
9/6/2020	14	339	647	580
9/6/2020	15	337	647	580
9/6/2020	16	324	647	580
9/6/2020	17	302	580	520
9/6/2020	18	297	500	460
9/6/2020	19	322	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/6/2020	20	329	647	647
9/6/2020	21	335	647	647
9/6/2020	22	332	647	647
9/6/2020	23	326	647	647
9/6/2020	24	313	647	615
9/7/2020	1	300	600	570
9/7/2020	2	287	580	540
9/7/2020	3	279	550	520
9/7/2020	4	274	520	460
9/7/2020	5	274	500	460
9/7/2020	6	274	480	460
9/7/2020	7	284	500	460
9/7/2020	8	338	591	500
9/7/2020	9	367	647	647
9/7/2020	10	385	647	647
9/7/2020	11	398	647	647
9/7/2020	12	391	647	647
9/7/2020	13	398	647	647
9/7/2020	14	411	647	647
9/7/2020	15	407	647	647
9/7/2020	16	394	647	580
9/7/2020	17	363	580	520
9/7/2020	18	344	500	460
9/7/2020	19	361	647	580
9/7/2020	20	365	647	580
9/7/2020	21	375	647	580
9/7/2020	22	373	647	647
9/7/2020	23	362	647	647
9/7/2020	24	348	647	615
9/8/2020	1	337	647	647
9/8/2020	2	323	647	647
9/8/2020	3	313	647	647
9/8/2020	4	305	647	647
9/8/2020	5	301	647	647
9/8/2020	6	298	647	647
9/8/2020	7	317	647	647
9/8/2020	8	345	647	647
9/8/2020	9	377	647	647
9/8/2020	10	396	647	647
9/8/2020	11	409	647	647
9/8/2020	12	405	647	647
9/8/2020	13	411	647	647
9/8/2020	14	424	647	647
9/8/2020	15	419	647	647
9/8/2020	16	405	647	647
9/8/2020	17	377	647	647
9/8/2020	18	357	647	647
9/8/2020	19	375	647	647
9/8/2020	20	377	647	647
9/8/2020	21	385	647	647
9/8/2020	22	381	647	647
9/8/2020	23	369	647	647
9/8/2020	24	356	647	647
9/9/2020	1	337	647	647
9/9/2020	2	323	647	647
9/9/2020	3	313	647	647
9/9/2020	4	305	647	647
9/9/2020	5	301	647	647
9/9/2020	6	298	647	647
9/9/2020	7	317	647	647
9/9/2020	8	345	647	647
9/9/2020	9	377	647	647
9/9/2020	10	396	647	647
9/9/2020	11	409	647	647
9/9/2020	12	405	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/9/2020	13	411	647	647
9/9/2020	14	424	647	647
9/9/2020	15	419	647	647
9/9/2020	16	405	647	647
9/9/2020	17	377	647	647
9/9/2020	18	357	647	647
9/9/2020	19	375	647	647
9/9/2020	20	377	647	647
9/9/2020	21	385	647	647
9/9/2020	22	381	647	647
9/9/2020	23	369	647	647
9/9/2020	24	356	647	647
9/10/2020	1	337	647	647
9/10/2020	2	324	647	559
9/10/2020	3	314	647	573
9/10/2020	4	305	613	560
9/10/2020	5	302	647	549
9/10/2020	6	299	600	530
9/10/2020	7	309	568	520
9/10/2020	8	346	647	550
9/10/2020	9	374	647	647
9/10/2020	10	394	647	647
9/10/2020	11	406	647	647
9/10/2020	12	401	647	647
9/10/2020	13	406	647	647
9/10/2020	14	418	647	647
9/10/2020	15	412	647	647
9/10/2020	16	399	647	647
9/10/2020	17	370	647	590
9/10/2020	18	353	647	580
9/10/2020	19	368	647	647
9/10/2020	20	372	647	618
9/10/2020	21	379	647	563
9/10/2020	22	376	647	625
9/10/2020	23	364	647	604
9/10/2020	24	351	647	580
9/11/2020	1	327	647	647
9/11/2020	2	318	647	568
9/11/2020	3	310	580	520
9/11/2020	4	299	570	500
9/11/2020	5	297	570	500
9/11/2020	6	295	554	490
9/11/2020	7	302	559	500
9/11/2020	8	337	590	550
9/11/2020	9	367	647	580
9/11/2020	10	387	647	647
9/11/2020	11	401	647	647
9/11/2020	12	398	647	628
9/11/2020	13	403	647	647
9/11/2020	14	419	647	647
9/11/2020	15	416	647	647
9/11/2020	16	403	647	585
9/11/2020	17	373	580	520
9/11/2020	18	356	550	500
9/11/2020	19	374	626	550
9/11/2020	20	376	600	536
9/11/2020	21	380	606	540
9/11/2020	22	372	647	647
9/11/2020	23	363	647	647
9/11/2020	24	352	647	587
9/12/2020	1	342	647	647
9/12/2020	2	327	647	647
9/12/2020	3	315	647	647
9/12/2020	4	306	647	611
9/12/2020	5	302	612	550

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/12/2020	6	282	580	500
9/12/2020	7	288	550	460
9/12/2020	8	317	647	609
9/12/2020	9	337	647	624
9/12/2020	10	354	647	647
9/12/2020	11	368	647	647
9/12/2020	12	362	647	628
9/12/2020	13	368	647	647
9/12/2020	14	383	647	647
9/12/2020	15	377	647	647
9/12/2020	16	365	580	550
9/12/2020	17	347	560	460
9/12/2020	18	340	545	460
9/12/2020	19	360	609	550
9/12/2020	20	366	600	520
9/12/2020	21	373	632	540
9/12/2020	22	371	647	647
9/12/2020	23	360	647	619
9/12/2020	24	343	580	550
9/13/2020	1	311	604	580
9/13/2020	2	296	580	520
9/13/2020	3	286	560	500
9/13/2020	4	278	557	480
9/13/2020	5	270	530	470
9/13/2020	6	264	520	460
9/13/2020	7	268	550	460
9/13/2020	8	284	580	460
9/13/2020	9	307	600	530
9/13/2020	10	321	580	550
9/13/2020	11	335	647	647
9/13/2020	12	334	647	628
9/13/2020	13	341	647	647
9/13/2020	14	345	647	630
9/13/2020	15	343	647	600
9/13/2020	16	330	580	550
9/13/2020	17	309	560	460
9/13/2020	18	303	545	460
9/13/2020	19	328	609	550
9/13/2020	20	335	600	543
9/13/2020	21	341	600	540
9/13/2020	22	338	647	535
9/13/2020	23	332	580	500
9/13/2020	24	319	550	460
9/14/2020	1	305	500	500
9/14/2020	2	295	500	450
9/14/2020	3	285	500	450
9/14/2020	4	279	500	442
9/14/2020	5	277	500	435
9/14/2020	6	278	500	470
9/14/2020	7	294	611	546
9/14/2020	8	331	647	631
9/14/2020	9	358	647	624
9/14/2020	10	380	647	628
9/14/2020	11	397	647	647
9/14/2020	12	391	647	647
9/14/2020	13	396	647	647
9/14/2020	14	409	647	647
9/14/2020	15	400	600	568
9/14/2020	16	377	550	460
9/14/2020	17	349	580	435
9/14/2020	18	339	550	498
9/14/2020	19	342	575	550
9/14/2020	20	344	550	500
9/14/2020	21	346	647	647
9/14/2020	22	343	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/14/2020	23	331	600	576
9/14/2020	24	320	571	550
9/15/2020	1	317	647	570
9/15/2020	2	308	647	550
9/15/2020	3	299	647	465
9/15/2020	4	292	500	460
9/15/2020	5	289	500	460
9/15/2020	6	289	490	470
9/15/2020	7	283	480	460
9/15/2020	8	333	615	550
9/15/2020	9	366	647	624
9/15/2020	10	388	647	647
9/15/2020	11	405	647	647
9/15/2020	12	403	647	620
9/15/2020	13	407	647	644
9/15/2020	14	423	647	647
9/15/2020	15	419	647	647
9/15/2020	16	407	647	647
9/15/2020	17	377	580	435
9/15/2020	18	362	550	445
9/15/2020	19	371	647	555
9/15/2020	20	370	550	500
9/15/2020	21	375	647	647
9/15/2020	22	374	647	647
9/15/2020	23	364	647	647
9/15/2020	24	347	627	550
9/16/2020	1	311	647	460
9/16/2020	2	300	647	460
9/16/2020	3	290	647	460
9/16/2020	4	281	647	460
9/16/2020	5	278	647	460
9/16/2020	6	276	647	460
9/16/2020	7	291	647	460
9/16/2020	8	319	647	460
9/16/2020	9	347	647	460
9/16/2020	10	366	647	460
9/16/2020	11	377	647	460
9/16/2020	12	373	647	460
9/16/2020	13	377	647	460
9/16/2020	14	390	647	460
9/16/2020	15	386	647	460
9/16/2020	16	370	647	460
9/16/2020	17	342	647	460
9/16/2020	18	327	550	460
9/16/2020	19	339	647	460
9/16/2020	20	343	647	460
9/16/2020	21	350	647	460
9/16/2020	22	347	647	460
9/16/2020	23	336	647	460
9/16/2020	24	325	647	460
9/17/2020	1	311	647	460
9/17/2020	2	300	647	460
9/17/2020	3	290	647	460
9/17/2020	4	281	647	460
9/17/2020	5	278	647	460
9/17/2020	6	276	647	460
9/17/2020	7	291	647	460
9/17/2020	8	319	647	460
9/17/2020	9	347	647	460
9/17/2020	10	366	647	460
9/17/2020	11	377	647	460
9/17/2020	12	373	647	460
9/17/2020	13	377	647	460
9/17/2020	14	390	647	460
9/17/2020	15	386	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/17/2020	16	370	647	460
9/17/2020	17	342	647	460
9/17/2020	18	327	550	460
9/17/2020	19	339	647	460
9/17/2020	20	343	647	460
9/17/2020	21	350	647	460
9/17/2020	22	347	647	460
9/17/2020	23	336	647	460
9/17/2020	24	325	647	460
9/18/2020	1	303	598	460
9/18/2020	2	296	590	460
9/18/2020	3	285	560	460
9/18/2020	4	280	547	460
9/18/2020	5	279	543	460
9/18/2020	6	276	540	460
9/18/2020	7	288	550	460
9/18/2020	8	320	647	460
9/18/2020	9	349	647	460
9/18/2020	10	369	647	460
9/18/2020	11	379	647	460
9/18/2020	12	375	647	460
9/18/2020	13	378	647	460
9/18/2020	14	385	647	460
9/18/2020	15	377	647	460
9/18/2020	16	363	647	460
9/18/2020	17	340	647	460
9/18/2020	18	328	550	460
9/18/2020	19	343	647	460
9/18/2020	20	346	647	460
9/18/2020	21	352	647	460
9/18/2020	22	342	647	460
9/18/2020	23	333	647	460
9/18/2020	24	321	647	460
9/19/2020	1	306	646	455
9/19/2020	2	297	598	455
9/19/2020	3	288	573	455
9/19/2020	4	263	455	399
9/19/2020	5	268	455	313
9/19/2020	6	273	455	375
9/19/2020	7	275	455	430
9/19/2020	8	293	455	446
9/19/2020	9	314	540	455
9/19/2020	10	331	588	455
9/19/2020	11	340	585	455
9/19/2020	12	336	596	455
9/19/2020	13	338	606	455
9/19/2020	14	345	647	455
9/19/2020	15	337	589	455
9/19/2020	16	324	543	455
9/19/2020	17	312	521	455
9/19/2020	18	312	600	455
9/19/2020	19	325	631	455
9/19/2020	20	326	635	455
9/19/2020	21	332	646	455
9/19/2020	22	326	638	455
9/19/2020	23	316	641	455
9/19/2020	24	310	647	455
9/20/2020	1	303	647	460
9/20/2020	2	288	647	460
9/20/2020	3	278	560	460
9/20/2020	4	270	547	460
9/20/2020	5	262	460	455
9/20/2020	6	256	460	455
9/20/2020	7	260	460	455
9/20/2020	8	276	460	455

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/20/2020	9	286	460	455
9/20/2020	10	300	460	455
9/20/2020	11	313	550	460
9/20/2020	12	313	550	460
9/20/2020	13	319	571	460
9/20/2020	14	323	583	460
9/20/2020	15	321	560	460
9/20/2020	16	309	550	460
9/20/2020	17	287	540	460
9/20/2020	18	281	540	460
9/20/2020	19	306	550	460
9/20/2020	20	313	550	460
9/20/2020	21	320	625	460
9/20/2020	22	316	570	460
9/20/2020	23	311	550	460
9/20/2020	24	298	540	460
9/21/2020	1	299	647	460
9/21/2020	2	292	647	460
9/21/2020	3	281	550	460
9/21/2020	4	276	500	460
9/21/2020	5	275	551	460
9/21/2020	6	272	515	460
9/21/2020	7	284	500	460
9/21/2020	8	316	647	460
9/21/2020	9	351	647	460
9/21/2020	10	372	647	460
9/21/2020	11	381	647	460
9/21/2020	12	377	647	460
9/21/2020	13	381	647	460
9/21/2020	14	388	647	460
9/21/2020	15	380	647	460
9/21/2020	16	366	550	460
9/21/2020	17	343	540	460
9/21/2020	18	331	540	460
9/21/2020	19	346	550	460
9/21/2020	20	349	550	460
9/21/2020	21	354	625	460
9/21/2020	22	345	570	460
9/21/2020	23	336	592	460
9/21/2020	24	323	533	460
9/22/2020	1	323	647	460
9/22/2020	2	299	619	460
9/22/2020	3	290	550	460
9/22/2020	4	287	500	460
9/22/2020	5	285	512	460
9/22/2020	6	298	560	460
9/22/2020	7	302	570	460
9/22/2020	8	332	647	460
9/22/2020	9	362	647	460
9/22/2020	10	382	647	460
9/22/2020	11	397	647	460
9/22/2020	12	391	647	460
9/22/2020	13	394	647	460
9/22/2020	14	407	647	460
9/22/2020	15	404	647	460
9/22/2020	16	394	647	460
9/22/2020	17	368	647	460
9/22/2020	18	360	580	460
9/22/2020	19	367	580	460
9/22/2020	20	366	647	460
9/22/2020	21	370	647	460
9/22/2020	22	363	647	460
9/22/2020	23	349	647	460
9/22/2020	24	334	647	460
9/23/2020	1	322	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/23/2020	2	299	580	460
9/23/2020	3	291	545	460
9/23/2020	4	287	500	460
9/23/2020	5	292	501	460
9/23/2020	6	310	647	460
9/23/2020	7	314	647	460
9/23/2020	8	343	647	460
9/23/2020	9	369	647	460
9/23/2020	10	390	647	460
9/23/2020	11	402	647	460
9/23/2020	12	393	647	460
9/23/2020	13	392	647	460
9/23/2020	14	404	647	460
9/23/2020	15	397	647	460
9/23/2020	16	392	647	460
9/23/2020	17	378	647	460
9/23/2020	18	375	647	460
9/23/2020	19	377	647	460
9/23/2020	20	370	647	460
9/23/2020	21	363	647	460
9/23/2020	22	351	647	460
9/23/2020	23	335	647	460
9/23/2020	24	319	647	460
9/24/2020	1	327	647	460
9/24/2020	2	317	647	460
9/24/2020	3	302	647	460
9/24/2020	4	295	647	460
9/24/2020	5	291	647	435
9/24/2020	6	289	647	435
9/24/2020	7	296	647	460
9/24/2020	8	330	647	460
9/24/2020	9	364	647	460
9/24/2020	10	386	647	460
9/24/2020	11	400	647	460
9/24/2020	12	393	647	460
9/24/2020	13	393	647	460
9/24/2020	14	407	647	460
9/24/2020	15	404	647	460
9/24/2020	16	390	647	460
9/24/2020	17	365	580	460
9/24/2020	18	358	580	460
9/24/2020	19	364	647	460
9/24/2020	20	365	647	460
9/24/2020	21	363	647	460
9/24/2020	22	356	647	460
9/24/2020	23	344	647	460
9/24/2020	24	332	647	460
9/25/2020	1	309	647	460
9/25/2020	2	307	647	460
9/25/2020	3	298	647	460
9/25/2020	4	288	647	460
9/25/2020	5	284	647	435
9/25/2020	6	282	647	435
9/25/2020	7	291	647	460
9/25/2020	8	323	647	460
9/25/2020	9	353	647	460
9/25/2020	10	374	647	460
9/25/2020	11	387	647	460
9/25/2020	12	384	647	460
9/25/2020	13	389	647	460
9/25/2020	14	398	647	460
9/25/2020	15	391	647	460
9/25/2020	16	378	647	460
9/25/2020	17	352	602	460
9/25/2020	18	339	573	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/25/2020	19	354	647	460
9/25/2020	20	357	647	460
9/25/2020	21	361	647	460
9/25/2020	22	355	647	460
9/25/2020	23	346	647	460
9/25/2020	24	334	647	460
9/26/2020	1	311	601	435
9/26/2020	2	295	498	435
9/26/2020	3	286	435	420
9/26/2020	4	272	435	420
9/26/2020	5	258	420	335
9/26/2020	6	253	302	300
9/26/2020	7	266	337	300
9/26/2020	8	293	450	344
9/26/2020	9	315	604	344
9/26/2020	10	336	621	420
9/26/2020	11	349	647	420
9/26/2020	12	343	618	435
9/26/2020	13	347	625	427
9/26/2020	14	353	647	435
9/26/2020	15	340	636	435
9/26/2020	16	328	609	420
9/26/2020	17	315	600	420
9/26/2020	18	322	643	435
9/26/2020	19	331	647	435
9/26/2020	20	333	647	435
9/26/2020	21	337	647	435
9/26/2020	22	332	600	435
9/26/2020	23	322	527	435
9/26/2020	24	310	581	435
9/27/2020	1	304	570	460
9/27/2020	2	296	520	435
9/27/2020	3	286	520	435
9/27/2020	4	278	450	435
9/27/2020	5	270	440	435
9/27/2020	6	264	470	435
9/27/2020	7	268	490	435
9/27/2020	8	284	520	435
9/27/2020	9	307	580	460
9/27/2020	10	321	590	460
9/27/2020	11	335	647	460
9/27/2020	12	334	580	460
9/27/2020	13	341	570	460
9/27/2020	14	344	647	460
9/27/2020	15	343	633	460
9/27/2020	16	311	570	460
9/27/2020	17	309	550	460
9/27/2020	18	303	540	460
9/27/2020	19	328	570	460
9/27/2020	20	335	550	460
9/27/2020	21	341	629	460
9/27/2020	22	338	570	460
9/27/2020	23	332	545	460
9/27/2020	24	319	520	460
9/28/2020	1	297	580	460
9/28/2020	2	291	566	435
9/28/2020	3	284	547	435
9/28/2020	4	280	508	435
9/28/2020	5	276	473	435
9/28/2020	6	272	470	435
9/28/2020	7	283	490	435
9/28/2020	8	315	520	435
9/28/2020	9	355	580	460
9/28/2020	10	376	647	460
9/28/2020	11	389	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/28/2020	12	386	647	460
9/28/2020	13	391	647	460
9/28/2020	14	400	647	460
9/28/2020	15	393	647	460
9/28/2020	16	380	647	460
9/28/2020	17	354	550	460
9/28/2020	18	341	540	460
9/28/2020	19	356	570	460
9/28/2020	20	359	550	460
9/28/2020	21	363	629	460
9/28/2020	22	357	570	460
9/28/2020	23	348	630	460
9/28/2020	24	336	558	460
9/29/2020	1	326	647	460
9/29/2020	2	316	570	460
9/29/2020	3	304	540	460
9/29/2020	4	296	520	460
9/29/2020	5	292	510	460
9/29/2020	6	290	500	460
9/29/2020	7	298	520	460
9/29/2020	8	334	550	460
9/29/2020	9	365	647	460
9/29/2020	10	386	647	460
9/29/2020	11	401	647	460
9/29/2020	12	393	647	460
9/29/2020	13	398	647	460
9/29/2020	14	411	647	460
9/29/2020	15	408	647	460
9/29/2020	16	394	647	460
9/29/2020	17	366	580	460
9/29/2020	18	354	550	460
9/29/2020	19	364	647	460
9/29/2020	20	366	647	460
9/29/2020	21	368	590	460
9/29/2020	22	362	564	460
9/29/2020	23	350	550	460
9/29/2020	24	338	550	460
9/30/2020	1	312	590	460
9/30/2020	2	298	560	460
9/30/2020	3	289	540	460
9/30/2020	4	287	510	460
9/30/2020	5	288	550	460
9/30/2020	6	290	567	460
9/30/2020	7	303	580	460
9/30/2020	8	333	590	460
9/30/2020	9	362	647	460
9/30/2020	10	383	647	460
9/30/2020	11	396	647	460
9/30/2020	12	391	627	460
9/30/2020	13	394	628	460
9/30/2020	14	407	647	460
9/30/2020	15	406	647	460
9/30/2020	16	398	647	460
9/30/2020	17	377	580	460
9/30/2020	18	365	550	460
9/30/2020	19	376	647	460
9/30/2020	20	374	600	460
9/30/2020	21	375	599	460
9/30/2020	22	364	588	460
9/30/2020	23	347	542	460
9/30/2020	24	333	517	460
10/1/2020	1	320	647	438
10/1/2020	2	310	600	435
10/1/2020	3	299	590	435
10/1/2020	4	297	580	435

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/1/2020	5	295	647	435
10/1/2020	6	294	647	435
10/1/2020	7	304	647	460
10/1/2020	8	337	647	460
10/1/2020	9	365	647	460
10/1/2020	10	384	647	460
10/1/2020	11	395	647	460
10/1/2020	12	390	627	460
10/1/2020	13	394	628	460
10/1/2020	14	407	647	460
10/1/2020	15	400	647	460
10/1/2020	16	385	631	460
10/1/2020	17	358	580	460
10/1/2020	18	346	556	460
10/1/2020	19	357	570	460
10/1/2020	20	359	550	460
10/1/2020	21	364	570	460
10/1/2020	22	360	560	460
10/1/2020	23	349	608	460
10/1/2020	24	336	561	460
10/2/2020	1	326	647	460
10/2/2020	2	313	610	460
10/2/2020	3	304	590	460
10/2/2020	4	294	560	435
10/2/2020	5	290	550	435
10/2/2020	6	289	570	435
10/2/2020	7	302	615	460
10/2/2020	8	335	647	460
10/2/2020	9	367	647	460
10/2/2020	10	389	647	460
10/2/2020	11	401	647	460
10/2/2020	12	396	627	460
10/2/2020	13	397	607	460
10/2/2020	14	403	647	460
10/2/2020	15	394	647	460
10/2/2020	16	379	631	460
10/2/2020	17	357	580	460
10/2/2020	18	352	556	460
10/2/2020	19	360	570	460
10/2/2020	20	362	550	460
10/2/2020	21	365	589	460
10/2/2020	22	360	585	460
10/2/2020	23	349	608	460
10/2/2020	24	336	561	460
10/3/2020	1	310	647	435
10/3/2020	2	303	647	435
10/3/2020	3	293	612	435
10/3/2020	4	287	614	435
10/3/2020	5	284	540	435
10/3/2020	6	278	450	435
10/3/2020	7	276	435	400
10/3/2020	8	302	465	435
10/3/2020	9	326	475	435
10/3/2020	10	331	570	435
10/3/2020	11	357	647	435
10/3/2020	12	354	647	435
10/3/2020	13	358	647	435
10/3/2020	14	366	647	435
10/3/2020	15	361	647	435
10/3/2020	16	344	647	435
10/3/2020	17	331	647	435
10/3/2020	18	343	647	435
10/3/2020	19	344	642	435
10/3/2020	20	344	647	435
10/3/2020	21	347	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/3/2020	22	342	647	440
10/3/2020	23	334	647	435
10/3/2020	24	323	647	435
10/4/2020	1	306	590	460
10/4/2020	2	292	560	435
10/4/2020	3	282	550	435
10/4/2020	4	274	530	435
10/4/2020	5	266	510	435
10/4/2020	6	260	500	435
10/4/2020	7	264	513	435
10/4/2020	8	280	546	460
10/4/2020	9	300	580	460
10/4/2020	10	314	590	460
10/4/2020	11	327	647	460
10/4/2020	12	327	627	460
10/4/2020	13	333	607	460
10/4/2020	14	336	647	460
10/4/2020	15	336	647	460
10/4/2020	16	323	631	460
10/4/2020	17	301	570	460
10/4/2020	18	295	520	460
10/4/2020	19	321	570	460
10/4/2020	20	327	550	460
10/4/2020	21	334	589	460
10/4/2020	22	330	585	460
10/4/2020	23	325	608	460
10/4/2020	24	312	550	460
10/5/2020	1	306	620	435
10/5/2020	2	292	560	435
10/5/2020	3	283	550	435
10/5/2020	4	275	530	435
10/5/2020	5	266	510	435
10/5/2020	6	260	499	435
10/5/2020	7	280	550	435
10/5/2020	8	334	647	435
10/5/2020	9	370	647	435
10/5/2020	10	391	647	460
10/5/2020	11	406	647	460
10/5/2020	12	398	580	460
10/5/2020	13	404	647	460
10/5/2020	14	416	647	460
10/5/2020	15	414	647	460
10/5/2020	16	400	647	460
10/5/2020	17	372	647	460
10/5/2020	18	359	616	460
10/5/2020	19	369	550	460
10/5/2020	20	372	550	460
10/5/2020	21	373	647	460
10/5/2020	22	367	647	460
10/5/2020	23	355	647	460
10/5/2020	24	343	542	460
10/6/2020	1	312	599	435
10/6/2020	2	302	541	435
10/6/2020	3	296	519	435
10/6/2020	4	287	481	435
10/6/2020	5	283	470	435
10/6/2020	6	284	499	435
10/6/2020	7	295	520	435
10/6/2020	8	331	584	435
10/6/2020	9	359	647	435
10/6/2020	10	381	647	460
10/6/2020	11	395	647	460
10/6/2020	12	390	580	460
10/6/2020	13	393	647	460
10/6/2020	14	406	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/6/2020	15	399	647	460
10/6/2020	16	382	580	460
10/6/2020	17	359	550	460
10/6/2020	18	355	460	444
10/6/2020	19	355	520	460
10/6/2020	20	355	550	460
10/6/2020	21	356	647	460
10/6/2020	22	350	647	460
10/6/2020	23	338	583	460
10/6/2020	24	325	520	460
10/7/2020	1	322	647	460
10/7/2020	2	311	532	460
10/7/2020	3	301	515	435
10/7/2020	4	295	479	435
10/7/2020	5	292	463	435
10/7/2020	6	291	489	435
10/7/2020	7	301	512	435
10/7/2020	8	334	573	435
10/7/2020	9	364	647	435
10/7/2020	10	384	647	460
10/7/2020	11	399	647	460
10/7/2020	12	395	624	460
10/7/2020	13	397	647	460
10/7/2020	14	406	647	460
10/7/2020	15	397	647	460
10/7/2020	16	387	647	460
10/7/2020	17	364	550	460
10/7/2020	18	359	460	444
10/7/2020	19	363	520	460
10/7/2020	20	360	593	460
10/7/2020	21	359	647	460
10/7/2020	22	359	647	460
10/7/2020	23	349	647	460
10/7/2020	24	334	647	460
10/8/2020	1	301	591	435
10/8/2020	2	291	521	435
10/8/2020	3	282	505	435
10/8/2020	4	275	450	435
10/8/2020	5	275	451	435
10/8/2020	6	275	463	435
10/8/2020	7	282	460	435
10/8/2020	8	316	530	435
10/8/2020	9	344	626	435
10/8/2020	10	365	647	460
10/8/2020	11	377	647	460
10/8/2020	12	372	624	460
10/8/2020	13	375	647	460
10/8/2020	14	388	647	460
10/8/2020	15	382	647	460
10/8/2020	16	368	580	460
10/8/2020	17	345	530	460
10/8/2020	18	340	460	440
10/8/2020	19	345	500	460
10/8/2020	20	346	530	460
10/8/2020	21	346	550	460
10/8/2020	22	340	530	460
10/8/2020	23	327	510	460
10/8/2020	24	315	500	460
10/9/2020	1	298	580	435
10/9/2020	2	290	522	435
10/9/2020	3	282	510	435
10/9/2020	4	276	450	435
10/9/2020	5	276	451	435
10/9/2020	6	277	463	435
10/9/2020	7	285	460	435

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/9/2020	8	318	530	435
10/9/2020	9	344	535	435
10/9/2020	10	367	543	460
10/9/2020	11	376	647	460
10/9/2020	12	371	580	460
10/9/2020	13	372	500	460
10/9/2020	14	383	647	460
10/9/2020	15	376	647	460
10/9/2020	16	366	580	460
10/9/2020	17	347	530	460
10/9/2020	18	346	480	460
10/9/2020	19	347	500	460
10/9/2020	20	345	530	460
10/9/2020	21	344	557	460
10/9/2020	22	343	550	460
10/9/2020	23	330	540	460
10/9/2020	24	317	500	460
10/10/2020	1	295	600	435
10/10/2020	2	288	570	435
10/10/2020	3	279	540	435
10/10/2020	4	271	512	435
10/10/2020	5	268	451	435
10/10/2020	6	262	435	420
10/10/2020	7	264	460	435
10/10/2020	8	284	530	435
10/10/2020	9	305	535	435
10/10/2020	10	326	543	435
10/10/2020	11	339	603	435
10/10/2020	12	333	570	435
10/10/2020	13	336	500	435
10/10/2020	14	343	566	435
10/10/2020	15	331	520	435
10/10/2020	16	319	569	435
10/10/2020	17	306	480	435
10/10/2020	18	313	480	435
10/10/2020	19	322	500	435
10/10/2020	20	324	500	435
10/10/2020	21	327	512	435
10/10/2020	22	322	509	435
10/10/2020	23	313	500	435
10/10/2020	24	301	450	435
10/11/2020	1	295	600	435
10/11/2020	2	280	570	435
10/11/2020	3	270	540	435
10/11/2020	4	262	512	435
10/11/2020	5	262	451	435
10/11/2020	6	256	435	426
10/11/2020	7	268	489	435
10/11/2020	8	276	530	435
10/11/2020	9	288	535	435
10/11/2020	10	298	543	435
10/11/2020	11	311	647	435
10/11/2020	12	310	573	435
10/11/2020	13	317	580	435
10/11/2020	14	321	647	435
10/11/2020	15	319	647	435
10/11/2020	16	306	570	435
10/11/2020	17	285	480	435
10/11/2020	18	279	480	435
10/11/2020	19	304	500	435
10/11/2020	20	311	565	435
10/11/2020	21	317	647	435
10/11/2020	22	314	580	435
10/11/2020	23	308	520	435
10/11/2020	24	296	450	435

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/12/2020	1	294	647	435
10/12/2020	2	286	590	435
10/12/2020	3	278	540	435
10/12/2020	4	272	493	435
10/12/2020	5	272	488	435
10/12/2020	6	273	455	435
10/12/2020	7	281	450	435
10/12/2020	8	314	491	460
10/12/2020	9	347	535	460
10/12/2020	10	369	543	460
10/12/2020	11	379	647	460
10/12/2020	12	373	579	460
10/12/2020	13	374	580	460
10/12/2020	14	385	647	460
10/12/2020	15	378	647	460
10/12/2020	16	368	570	460
10/12/2020	17	350	477	460
10/12/2020	18	348	480	460
10/12/2020	19	350	500	460
10/12/2020	20	348	565	460
10/12/2020	21	347	560	460
10/12/2020	22	345	580	460
10/12/2020	23	332	528	460
10/12/2020	24	320	500	460
10/13/2020	1	304	620	435
10/13/2020	2	294	579	435
10/13/2020	3	281	550	435
10/13/2020	4	275	500	435
10/13/2020	5	271	501	435
10/13/2020	6	269	450	435
10/13/2020	7	275	440	435
10/13/2020	8	307	490	460
10/13/2020	9	338	570	460
10/13/2020	10	358	611	460
10/13/2020	11	372	647	460
10/13/2020	12	365	571	460
10/13/2020	13	369	647	460
10/13/2020	14	381	647	460
10/13/2020	15	376	647	460
10/13/2020	16	363	611	460
10/13/2020	17	345	477	460
10/13/2020	18	349	511	460
10/13/2020	19	350	562	460
10/13/2020	20	350	570	460
10/13/2020	21	349	590	460
10/13/2020	22	343	580	460
10/13/2020	23	331	594	460
10/13/2020	24	319	504	460
10/14/2020	1	303	601	435
10/14/2020	2	294	570	435
10/14/2020	3	284	550	435
10/14/2020	4	279	500	435
10/14/2020	5	278	501	435
10/14/2020	6	277	445	435
10/14/2020	7	285	440	435
10/14/2020	8	318	550	435
10/14/2020	9	347	560	435
10/14/2020	10	367	580	435
10/14/2020	11	380	593	435
10/14/2020	12	375	550	435
10/14/2020	13	378	560	435
10/14/2020	14	388	647	435
10/14/2020	15	381	647	435
10/14/2020	16	370	611	435
10/14/2020	17	349	520	435

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/14/2020	18	347	435	423
10/14/2020	19	348	460	435
10/14/2020	20	346	450	435
10/14/2020	21	344	440	435
10/14/2020	22	340	450	435
10/14/2020	23	333	574	435
10/14/2020	24	315	500	435
10/15/2020	1	285	590	435
10/15/2020	2	278	546	435
10/15/2020	3	270	510	435
10/15/2020	4	265	435	430
10/15/2020	5	266	447	435
10/15/2020	6	269	452	435
10/15/2020	7	281	440	435
10/15/2020	8	304	550	435
10/15/2020	9	331	560	435
10/15/2020	10	351	578	435
10/15/2020	11	364	593	435
10/15/2020	12	358	518	435
10/15/2020	13	361	580	435
10/15/2020	14	372	600	435
10/15/2020	15	363	577	435
10/15/2020	16	352	570	435
10/15/2020	17	334	550	435
10/15/2020	18	336	550	435
10/15/2020	19	333	460	435
10/15/2020	20	331	450	435
10/15/2020	21	328	440	435
10/15/2020	22	320	450	435
10/15/2020	23	305	574	435
10/15/2020	24	292	480	435
10/16/2020	1	282	580	435
10/16/2020	2	274	530	435
10/16/2020	3	267	511	435
10/16/2020	4	260	439	435
10/16/2020	5	258	447	435
10/16/2020	6	258	435	431
10/16/2020	7	266	435	410
10/16/2020	8	297	550	435
10/16/2020	9	323	560	435
10/16/2020	10	341	570	435
10/16/2020	11	352	593	435
10/16/2020	12	347	518	435
10/16/2020	13	346	580	435
10/16/2020	14	356	590	435
10/16/2020	15	352	578	435
10/16/2020	16	339	540	435
10/16/2020	17	320	501	435
10/16/2020	18	320	530	435
10/16/2020	19	322	502	435
10/16/2020	20	321	505	435
10/16/2020	21	323	451	435
10/16/2020	22	317	510	435
10/16/2020	23	307	580	435
10/16/2020	24	295	500	435
10/17/2020	1	300	449	435
10/17/2020	2	290	449	435
10/17/2020	3	281	449	435
10/17/2020	4	274	449	435
10/17/2020	5	272	449	435
10/17/2020	6	270	449	435
10/17/2020	7	284	550	435
10/17/2020	8	295	550	435
10/17/2020	9	315	560	435
10/17/2020	10	339	590	435

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/17/2020	11	353	593	435
10/17/2020	12	345	518	435
10/17/2020	13	346	580	435
10/17/2020	14	351	590	435
10/17/2020	15	342	578	435
10/17/2020	16	327	540	435
10/17/2020	17	321	501	435
10/17/2020	18	334	550	435
10/17/2020	19	332	520	435
10/17/2020	20	329	540	435
10/17/2020	21	330	540	435
10/17/2020	22	323	520	435
10/17/2020	23	312	577	435
10/17/2020	24	301	490	435
10/18/2020	1	281	560	435
10/18/2020	2	274	520	435
10/18/2020	3	266	500	435
10/18/2020	4	261	450	435
10/18/2020	5	262	440	435
10/18/2020	6	265	435	432
10/18/2020	7	277	457	435
10/18/2020	8	300	500	435
10/18/2020	9	335	580	460
10/18/2020	10	355	647	460
10/18/2020	11	368	647	460
10/18/2020	12	362	518	460
10/18/2020	13	364	612	460
10/18/2020	14	375	647	460
10/18/2020	15	367	647	460
10/18/2020	16	355	540	460
10/18/2020	17	338	501	460
10/18/2020	18	340	550	460
10/18/2020	19	337	580	460
10/18/2020	20	335	590	460
10/18/2020	21	332	580	460
10/18/2020	22	323	560	460
10/18/2020	23	309	510	460
10/18/2020	24	295	490	460
10/19/2020	1	281	560	435
10/19/2020	2	274	520	435
10/19/2020	3	266	500	435
10/19/2020	4	261	450	435
10/19/2020	5	262	440	435
10/19/2020	6	265	435	432
10/19/2020	7	277	457	435
10/19/2020	8	300	500	435
10/19/2020	9	335	580	460
10/19/2020	10	355	647	460
10/19/2020	11	368	647	460
10/19/2020	12	362	518	460
10/19/2020	13	364	612	460
10/19/2020	14	375	647	460
10/19/2020	15	367	647	460
10/19/2020	16	355	540	460
10/19/2020	17	338	501	460
10/19/2020	18	340	550	460
10/19/2020	19	337	580	460
10/19/2020	20	335	590	460
10/19/2020	21	332	580	460
10/19/2020	22	323	560	460
10/19/2020	23	309	510	460
10/19/2020	24	295	490	460
10/20/2020	1	275	580	435
10/20/2020	2	266	520	435
10/20/2020	3	257	480	435

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/20/2020	4	254	440	435
10/20/2020	5	254	435	420
10/20/2020	6	258	435	420
10/20/2020	7	284	440	435
10/20/2020	8	314	500	435
10/20/2020	9	346	590	435
10/20/2020	10	367	647	460
10/20/2020	11	380	647	460
10/20/2020	12	373	520	460
10/20/2020	13	375	589	460
10/20/2020	14	387	647	460
10/20/2020	15	383	647	460
10/20/2020	16	375	647	460
10/20/2020	17	355	520	460
10/20/2020	18	362	573	460
10/20/2020	19	356	580	460
10/20/2020	20	353	590	460
10/20/2020	21	348	568	460
10/20/2020	22	337	540	460
10/20/2020	23	322	540	460
10/20/2020	24	307	460	450
10/21/2020	1	290	570	435
10/21/2020	2	283	530	435
10/21/2020	3	282	520	435
10/21/2020	4	269	460	435
10/21/2020	5	266	435	420
10/21/2020	6	269	457	435
10/21/2020	7	274	440	435
10/21/2020	8	302	500	435
10/21/2020	9	326	550	435
10/21/2020	10	342	580	435
10/21/2020	11	355	590	435
10/21/2020	12	346	510	435
10/21/2020	13	345	550	435
10/21/2020	14	360	590	435
10/21/2020	15	352	570	435
10/21/2020	16	342	550	435
10/21/2020	17	328	500	435
10/21/2020	18	329	480	435
10/21/2020	19	327	550	435
10/21/2020	20	324	570	435
10/21/2020	21	324	550	435
10/21/2020	22	319	540	435
10/21/2020	23	306	475	435
10/21/2020	24	293	435	420
10/22/2020	1	292	569	435
10/22/2020	2	279	530	435
10/22/2020	3	270	520	435
10/22/2020	4	266	460	435
10/22/2020	5	267	435	420
10/22/2020	6	272	457	435
10/22/2020	7	280	440	435
10/22/2020	8	313	560	435
10/22/2020	9	342	572	435
10/22/2020	10	363	577	435
10/22/2020	11	370	580	435
10/22/2020	12	361	510	435
10/22/2020	13	358	550	435
10/22/2020	14	364	570	435
10/22/2020	15	358	535	435
10/22/2020	16	351	537	435
10/22/2020	17	337	499	435
10/22/2020	18	343	550	435
10/22/2020	19	338	550	435
10/22/2020	20	335	570	435

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/22/2020	21	333	550	435
10/22/2020	22	327	512	435
10/22/2020	23	310	475	435
10/22/2020	24	300	435	420
10/23/2020	1	304	647	435
10/23/2020	2	293	624	435
10/23/2020	3	282	525	435
10/23/2020	4	279	460	435
10/23/2020	5	278	435	420
10/23/2020	6	283	457	435
10/23/2020	7	295	440	435
10/23/2020	8	328	560	435
10/23/2020	9	338	572	435
10/23/2020	10	359	577	435
10/23/2020	11	376	590	435
10/23/2020	12	372	557	435
10/23/2020	13	374	608	435
10/23/2020	14	383	647	460
10/23/2020	15	379	647	460
10/23/2020	16	368	647	460
10/23/2020	17	350	550	435
10/23/2020	18	357	580	435
10/23/2020	19	348	625	435
10/23/2020	20	344	570	435
10/23/2020	21	345	550	435
10/23/2020	22	336	505	435
10/23/2020	23	326	558	435
10/23/2020	24	314	508	435
10/24/2020	1	289	647	435
10/24/2020	2	274	624	435
10/24/2020	3	264	525	435
10/24/2020	4	256	460	435
10/24/2020	5	256	435	420
10/24/2020	6	252	457	435
10/24/2020	7	264	440	435
10/24/2020	8	272	560	435
10/24/2020	9	292	572	435
10/24/2020	10	301	577	435
10/24/2020	11	315	590	435
10/24/2020	12	314	557	435
10/24/2020	13	321	608	435
10/24/2020	14	325	647	460
10/24/2020	15	323	647	460
10/24/2020	16	310	647	460
10/24/2020	17	289	550	435
10/24/2020	18	287	580	435
10/24/2020	19	308	625	435
10/24/2020	20	315	570	435
10/24/2020	21	321	550	435
10/24/2020	22	318	505	435
10/24/2020	23	312	558	435
10/24/2020	24	300	508	435
10/25/2020	1	279	580	435
10/25/2020	2	264	550	435
10/25/2020	3	254	484	435
10/25/2020	4	246	450	435
10/25/2020	5	246	452	435
10/25/2020	6	240	435	427
10/25/2020	7	244	460	440
10/25/2020	8	248	482	460
10/25/2020	9	256	540	460
10/25/2020	10	262	550	460
10/25/2020	11	276	570	460
10/25/2020	12	275	496	460
10/25/2020	13	282	547	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/25/2020	14	286	590	460
10/25/2020	15	284	583	460
10/25/2020	16	271	550	460
10/25/2020	17	250	460	435
10/25/2020	18	248	460	435
10/25/2020	19	269	539	460
10/25/2020	20	276	546	435
10/25/2020	21	282	550	435
10/25/2020	22	279	560	435
10/25/2020	23	273	580	435
10/25/2020	24	260	482	435
10/26/2020	1	257	450	435
10/26/2020	2	245	440	435
10/26/2020	3	236	435	334
10/26/2020	4	229	435	250
10/26/2020	5	224	435	250
10/26/2020	6	224	435	275
10/26/2020	7	224	460	435
10/26/2020	8	228	460	435
10/26/2020	9	237	460	435
10/26/2020	10	244	460	435
10/26/2020	11	257	460	435
10/26/2020	12	257	460	435
10/26/2020	13	263	460	435
10/26/2020	14	267	460	435
10/26/2020	15	266	460	435
10/26/2020	16	253	460	435
10/26/2020	17	231	460	274
10/26/2020	18	229	460	266
10/26/2020	19	251	460	446
10/26/2020	20	257	435	420
10/26/2020	21	264	435	428
10/26/2020	22	261	540	435
10/26/2020	23	255	520	435
10/26/2020	24	242	438	435
10/27/2020	1	264	502	435
10/27/2020	2	256	480	435
10/27/2020	3	254	470	435
10/27/2020	4	249	435	420
10/27/2020	5	254	500	435
10/27/2020	6	257	500	435
10/27/2020	7	260	460	457
10/27/2020	8	291	500	460
10/27/2020	9	314	580	460
10/27/2020	10	327	647	460
10/27/2020	11	334	647	460
10/27/2020	12	321	569	460
10/27/2020	13	314	500	460
10/27/2020	14	319	570	460
10/27/2020	15	315	550	460
10/27/2020	16	311	540	460
10/27/2020	17	304	520	460
10/27/2020	18	309	535	460
10/27/2020	19	298	460	450
10/27/2020	20	290	460	440
10/27/2020	21	285	460	450
10/27/2020	22	277	460	435
10/27/2020	23	269	469	460
10/27/2020	24	262	460	450
10/28/2020	1	275	647	435
10/28/2020	2	265	647	435
10/28/2020	3	257	607	435
10/28/2020	4	254	524	435
10/28/2020	5	253	497	435
10/28/2020	6	256	600	435

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/28/2020	7	261	520	460
10/28/2020	8	282	550	460
10/28/2020	9	299	598	460
10/28/2020	10	317	647	460
10/28/2020	11	326	647	460
10/28/2020	12	316	600	460
10/28/2020	13	312	560	460
10/28/2020	14	318	590	460
10/28/2020	15	314	570	460
10/28/2020	16	311	550	460
10/28/2020	17	306	520	460
10/28/2020	18	306	518	460
10/28/2020	19	299	503	460
10/28/2020	20	293	460	460
10/28/2020	21	286	480	460
10/28/2020	22	281	460	460
10/28/2020	23	268	482	460
10/28/2020	24	257	460	440
10/29/2020	1	304	647	435
10/29/2020	2	283	647	435
10/29/2020	3	275	607	435
10/29/2020	4	272	524	435
10/29/2020	5	273	497	435
10/29/2020	6	277	600	435
10/29/2020	7	294	520	460
10/29/2020	8	323	550	460
10/29/2020	9	351	598	460
10/29/2020	10	371	647	460
10/29/2020	11	379	647	460
10/29/2020	12	373	600	460
10/29/2020	13	370	560	460
10/29/2020	14	378	590	460
10/29/2020	15	373	570	460
10/29/2020	16	366	550	460
10/29/2020	17	352	520	460
10/29/2020	18	361	518	460
10/29/2020	19	355	503	460
10/29/2020	20	350	460	460
10/29/2020	21	347	480	460
10/29/2020	22	337	460	460
10/29/2020	23	321	482	460
10/29/2020	24	309	460	440
10/30/2020	1	302	647	460
10/30/2020	2	283	580	435
10/30/2020	3	274	520	435
10/30/2020	4	271	500	435
10/30/2020	5	272	460	435
10/30/2020	6	277	460	440
10/30/2020	7	294	521	460
10/30/2020	8	323	647	460
10/30/2020	9	353	647	460
10/30/2020	10	373	647	460
10/30/2020	11	381	647	460
10/30/2020	12	375	647	460
10/30/2020	13	372	647	460
10/30/2020	14	380	647	460
10/30/2020	15	375	647	460
10/30/2020	16	368	647	460
10/30/2020	17	354	647	460
10/30/2020	18	363	647	460
10/30/2020	19	357	647	460
10/30/2020	20	352	647	460
10/30/2020	21	349	647	460
10/30/2020	22	339	647	460
10/30/2020	23	324	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/30/2020	24	311	647	460
10/31/2020	1	291	590	460
10/31/2020	2	284	570	435
10/31/2020	3	275	550	435
10/31/2020	4	267	540	435
10/31/2020	5	264	461	435
10/31/2020	6	258	440	435
10/31/2020	7	260	444	435
10/31/2020	8	280	486	435
10/31/2020	9	297	536	435
10/31/2020	10	318	570	435
10/31/2020	11	330	580	435
10/31/2020	12	325	560	435
10/31/2020	13	328	580	435
10/31/2020	14	334	590	435
10/31/2020	15	323	570	435
10/31/2020	16	311	510	435
10/31/2020	17	298	500	420
10/31/2020	18	305	510	420
10/31/2020	19	314	562	435
10/31/2020	20	315	580	435
10/31/2020	21	319	590	435
10/31/2020	22	314	592	435
10/31/2020	23	305	590	435
10/31/2020	24	293	580	435
11/1/2020	1	278	580	435
11/1/2020	2	264	524	435
11/1/2020	3	254	510	435
11/1/2020	4	246	500	435
11/1/2020	5	245	461	435
11/1/2020	6	240	440	435
11/1/2020	7	244	440	435
11/1/2020	8	248	486	435
11/1/2020	9	252	490	435
11/1/2020	10	259	500	435
11/1/2020	11	272	560	435
11/1/2020	12	272	550	435
11/1/2020	13	278	580	435
11/1/2020	14	282	599	435
11/1/2020	15	281	570	435
11/1/2020	16	268	510	435
11/1/2020	17	246	462	420
11/1/2020	18	244	458	420
11/1/2020	19	266	562	435
11/1/2020	20	272	580	435
11/1/2020	21	279	590	435
11/1/2020	22	276	592	435
11/1/2020	23	270	590	435
11/1/2020	24	257	529	435
11/2/2020	1	276	590	435
11/2/2020	2	263	558	435
11/2/2020	3	253	510	435
11/2/2020	4	245	490	435
11/2/2020	5	244	466	435
11/2/2020	6	240	435	414
11/2/2020	7	244	435	410
11/2/2020	8	249	435	420
11/2/2020	9	249	466	435
11/2/2020	10	256	480	435
11/2/2020	11	269	500	435
11/2/2020	12	269	480	435
11/2/2020	13	275	516	435
11/2/2020	14	279	520	435
11/2/2020	15	278	529	435
11/2/2020	16	265	500	435

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/2/2020	17	243	413	250
11/2/2020	18	242	403	250
11/2/2020	19	263	550	435
11/2/2020	20	269	580	435
11/2/2020	21	276	551	435
11/2/2020	22	273	573	435
11/2/2020	23	267	580	435
11/2/2020	24	254	496	435
11/3/2020	1	284	590	435
11/3/2020	2	271	558	435
11/3/2020	3	262	510	435
11/3/2020	4	258	490	435
11/3/2020	5	259	466	435
11/3/2020	6	264	435	414
11/3/2020	7	272	435	410
11/3/2020	8	305	435	420
11/3/2020	9	333	466	435
11/3/2020	10	354	480	435
11/3/2020	11	360	500	435
11/3/2020	12	352	480	435
11/3/2020	13	348	516	435
11/3/2020	14	355	520	435
11/3/2020	15	348	529	435
11/3/2020	16	342	500	435
11/3/2020	17	327	413	250
11/3/2020	18	333	403	250
11/3/2020	19	328	550	435
11/3/2020	20	325	580	435
11/3/2020	21	323	551	435
11/3/2020	22	317	573	435
11/3/2020	23	300	580	435
11/3/2020	24	290	496	435
11/4/2020	1	297	647	435
11/4/2020	2	277	580	435
11/4/2020	3	269	550	435
11/4/2020	4	266	500	435
11/4/2020	5	265	490	435
11/4/2020	6	269	520	435
11/4/2020	7	277	547	435
11/4/2020	8	312	540	435
11/4/2020	9	342	547	435
11/4/2020	10	365	618	435
11/4/2020	11	375	647	435
11/4/2020	12	370	618	435
11/4/2020	13	369	557	460
11/4/2020	14	379	647	460
11/4/2020	15	374	647	460
11/4/2020	16	364	607	435
11/4/2020	17	348	562	435
11/4/2020	18	356	590	435
11/4/2020	19	347	520	435
11/4/2020	20	343	500	435
11/4/2020	21	341	552	435
11/4/2020	22	334	533	435
11/4/2020	23	329	530	435
11/4/2020	24	319	500	435
11/5/2020	1	297	647	435
11/5/2020	2	277	580	435
11/5/2020	3	269	550	435
11/5/2020	4	266	500	435
11/5/2020	5	265	490	435
11/5/2020	6	269	520	435
11/5/2020	7	277	547	435
11/5/2020	8	312	540	435
11/5/2020	9	342	547	435

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/5/2020	10	365	618	435
11/5/2020	11	375	647	435
11/5/2020	12	370	618	435
11/5/2020	13	369	557	460
11/5/2020	14	379	647	460
11/5/2020	15	374	647	460
11/5/2020	16	364	607	435
11/5/2020	17	348	562	435
11/5/2020	18	356	590	435
11/5/2020	19	347	520	435
11/5/2020	20	343	500	435
11/5/2020	21	341	552	435
11/5/2020	22	334	533	435
11/5/2020	23	329	530	435
11/5/2020	24	319	500	435
11/6/2020	1	283	581	435
11/6/2020	2	268	560	435
11/6/2020	3	258	520	435
11/6/2020	4	250	490	435
11/6/2020	5	250	481	435
11/6/2020	6	244	501	435
11/6/2020	7	248	470	435
11/6/2020	8	252	490	435
11/6/2020	9	267	500	435
11/6/2020	10	274	520	435
11/6/2020	11	287	585	435
11/6/2020	12	286	534	435
11/6/2020	13	293	520	435
11/6/2020	14	297	582	435
11/6/2020	15	295	544	435
11/6/2020	16	282	520	435
11/6/2020	17	261	490	435
11/6/2020	18	259	500	435
11/6/2020	19	280	516	435
11/6/2020	20	287	500	435
11/6/2020	21	293	552	435
11/6/2020	22	290	528	435
11/6/2020	23	284	510	435
11/6/2020	24	272	480	435
11/7/2020	1	293	647	435
11/7/2020	2	285	600	435
11/7/2020	3	275	583	435
11/7/2020	4	269	550	435
11/7/2020	5	264	580	435
11/7/2020	6	262	530	435
11/7/2020	7	264	538	435
11/7/2020	8	285	531	435
11/7/2020	9	302	531	435
11/7/2020	10	322	633	435
11/7/2020	11	332	647	435
11/7/2020	12	328	531	435
11/7/2020	13	326	529	435
11/7/2020	14	331	575	435
11/7/2020	15	329	572	435
11/7/2020	16	318	528	435
11/7/2020	17	308	529	435
11/7/2020	18	329	647	435
11/7/2020	19	323	647	435
11/7/2020	20	318	610	435
11/7/2020	21	317	647	435
11/7/2020	22	309	578	435
11/7/2020	23	299	480	435
11/7/2020	24	287	439	435
11/8/2020	1	283	581	435
11/8/2020	2	268	560	435

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/8/2020	3	258	520	435
11/8/2020	4	250	490	435
11/8/2020	5	250	481	435
11/8/2020	6	244	501	435
11/8/2020	7	248	470	435
11/8/2020	8	252	490	435
11/8/2020	9	267	500	435
11/8/2020	10	274	520	435
11/8/2020	11	287	585	435
11/8/2020	12	286	534	435
11/8/2020	13	293	520	435
11/8/2020	14	297	582	435
11/8/2020	15	295	544	435
11/8/2020	16	282	520	435
11/8/2020	17	261	490	435
11/8/2020	18	259	500	435
11/8/2020	19	280	516	435
11/8/2020	20	287	500	435
11/8/2020	21	293	552	435
11/8/2020	22	290	528	435
11/8/2020	23	284	510	435
11/8/2020	24	272	480	435
11/9/2020	1	285	570	435
11/9/2020	2	265	540	435
11/9/2020	3	257	510	435
11/9/2020	4	254	480	435
11/9/2020	5	253	470	435
11/9/2020	6	257	500	435
11/9/2020	7	265	440	435
11/9/2020	8	300	490	435
11/9/2020	9	332	500	435
11/9/2020	10	354	520	435
11/9/2020	11	365	570	435
11/9/2020	12	359	520	435
11/9/2020	13	359	510	435
11/9/2020	14	368	580	435
11/9/2020	15	364	540	435
11/9/2020	16	353	520	435
11/9/2020	17	337	490	435
11/9/2020	18	345	500	435
11/9/2020	19	337	516	435
11/9/2020	20	333	500	435
11/9/2020	21	330	552	435
11/9/2020	22	323	528	435
11/9/2020	23	319	510	435
11/9/2020	24	308	480	435
11/10/2020	1	286	576	435
11/10/2020	2	277	530	435
11/10/2020	3	268	490	435
11/10/2020	4	263	480	435
11/10/2020	5	263	470	435
11/10/2020	6	280	500	435
11/10/2020	7	292	440	435
11/10/2020	8	317	580	435
11/10/2020	9	341	602	435
11/10/2020	10	356	647	435
11/10/2020	11	363	647	435
11/10/2020	12	349	507	435
11/10/2020	13	342	500	435
11/10/2020	14	347	556	435
11/10/2020	15	343	550	435
11/10/2020	16	338	492	435
11/10/2020	17	331	500	435
11/10/2020	18	336	508	435
11/10/2020	19	324	500	435

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/10/2020	20	316	490	435
11/10/2020	21	311	474	435
11/10/2020	22	301	470	435
11/10/2020	23	293	460	435
11/10/2020	24	285	436	435
11/11/2020	1	293	600	435
11/11/2020	2	282	540	435
11/11/2020	3	275	510	435
11/11/2020	4	271	500	435
11/11/2020	5	271	490	435
11/11/2020	6	274	520	435
11/11/2020	7	287	543	435
11/11/2020	8	318	550	435
11/11/2020	9	346	602	435
11/11/2020	10	366	647	435
11/11/2020	11	380	647	460
11/11/2020	12	373	580	460
11/11/2020	13	374	591	460
11/11/2020	14	383	647	460
11/11/2020	15	377	647	460
11/11/2020	16	366	647	460
11/11/2020	17	349	581	435
11/11/2020	18	354	590	435
11/11/2020	19	343	570	435
11/11/2020	20	339	510	435
11/11/2020	21	336	580	435
11/11/2020	22	326	550	435
11/11/2020	23	315	530	435
11/11/2020	24	301	500	435
11/12/2020	1	157	256	240
11/12/2020	2	153	240	240
11/12/2020	3	148	240	240
11/12/2020	4	145	240	240
11/12/2020	5	144	240	240
11/12/2020	6	147	240	240
11/12/2020	7	155	250	240
11/12/2020	8	168	250	240
11/12/2020	9	185	320	263
11/12/2020	10	195	320	300
11/12/2020	11	202	320	300
11/12/2020	12	201	320	308
11/12/2020	13	201	335	320
11/12/2020	14	207	352	320
11/12/2020	15	205	352	320
11/12/2020	16	200	352	320
11/12/2020	17	188	320	300
11/12/2020	18	194	320	316
11/12/2020	19	190	320	316
11/12/2020	20	187	320	316
11/12/2020	21	186	320	300
11/12/2020	22	181	320	300
11/12/2020	23	176	320	300
11/12/2020	24	167	320	240
11/13/2020	1	157	256	240
11/13/2020	2	153	240	240
11/13/2020	3	148	240	240
11/13/2020	4	145	240	240
11/13/2020	5	144	240	240
11/13/2020	6	147	240	240
11/13/2020	7	155	250	240
11/13/2020	8	168	250	240
11/13/2020	9	185	320	263
11/13/2020	10	195	320	300
11/13/2020	11	202	320	300
11/13/2020	12	201	320	308

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/13/2020	13	201	335	320
11/13/2020	14	207	352	320
11/13/2020	15	205	352	320
11/13/2020	16	200	352	320
11/13/2020	17	188	320	300
11/13/2020	18	194	320	316
11/13/2020	19	190	320	316
11/13/2020	20	187	320	316
11/13/2020	21	186	320	300
11/13/2020	22	181	320	300
11/13/2020	23	176	320	300
11/13/2020	24	167	320	240
11/14/2020	1	250	435	320
11/14/2020	2	243	435	320
11/14/2020	3	235	435	320
11/14/2020	4	230	435	240
11/14/2020	5	226	313	240
11/14/2020	6	225	313	240
11/14/2020	7	227	413	240
11/14/2020	8	243	413	240
11/14/2020	9	259	435	250
11/14/2020	10	277	435	280
11/14/2020	11	286	435	320
11/14/2020	12	281	435	320
11/14/2020	13	278	435	320
11/14/2020	14	283	435	320
11/14/2020	15	279	435	320
11/14/2020	16	270	435	320
11/14/2020	17	261	435	320
11/14/2020	18	278	435	320
11/14/2020	19	273	435	320
11/14/2020	20	270	435	320
11/14/2020	21	268	435	320
11/14/2020	22	264	435	320
11/14/2020	23	251	435	320
11/14/2020	24	241	435	320
11/15/2020	1	276	435	305
11/15/2020	2	264	435	250
11/15/2020	3	254	435	242
11/15/2020	4	246	435	253
11/15/2020	5	245	435	240
11/15/2020	6	240	435	231
11/15/2020	7	244	435	250
11/15/2020	8	248	435	250
11/15/2020	9	256	435	320
11/15/2020	10	263	435	320
11/15/2020	11	276	435	320
11/15/2020	12	276	435	320
11/15/2020	13	282	435	320
11/15/2020	14	286	435	320
11/15/2020	15	285	435	320
11/15/2020	16	272	435	320
11/15/2020	17	250	435	320
11/15/2020	18	249	435	320
11/15/2020	19	270	435	320
11/15/2020	20	276	435	320
11/15/2020	21	283	435	320
11/15/2020	22	280	435	320
11/15/2020	23	274	435	320
11/15/2020	24	261	435	320
11/16/2020	1	276	435	352
11/16/2020	2	256	435	320
11/16/2020	3	247	435	320
11/16/2020	4	245	435	320
11/16/2020	5	244	435	320

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/16/2020	6	249	435	320
11/16/2020	7	261	435	320
11/16/2020	8	284	435	352
11/16/2020	9	306	435	352
11/16/2020	10	328	435	420
11/16/2020	11	342	435	420
11/16/2020	12	335	435	420
11/16/2020	13	334	435	420
11/16/2020	14	344	435	420
11/16/2020	15	340	435	420
11/16/2020	16	333	435	420
11/16/2020	17	315	435	420
11/16/2020	18	323	435	420
11/16/2020	19	316	435	420
11/16/2020	20	312	435	420
11/16/2020	21	311	435	420
11/16/2020	22	301	435	420
11/16/2020	23	290	435	420
11/16/2020	24	277	435	420
11/17/2020	1	300	588	435
11/17/2020	2	289	564	435
11/17/2020	3	280	510	435
11/17/2020	4	276	500	435
11/17/2020	5	276	490	435
11/17/2020	6	279	500	435
11/17/2020	7	269	449	435
11/17/2020	8	325	550	435
11/17/2020	9	355	570	435
11/17/2020	10	376	584	435
11/17/2020	11	386	647	435
11/17/2020	12	375	550	435
11/17/2020	13	376	570	435
11/17/2020	14	385	647	435
11/17/2020	15	384	647	435
11/17/2020	16	375	540	435
11/17/2020	17	356	500	435
11/17/2020	18	370	600	435
11/17/2020	19	356	579	435
11/17/2020	20	350	531	435
11/17/2020	21	345	570	435
11/17/2020	22	336	480	435
11/17/2020	23	323	470	435
11/17/2020	24	309	450	435
11/18/2020	1	295	571	435
11/18/2020	2	285	491	435
11/18/2020	3	278	480	435
11/18/2020	4	274	477	435
11/18/2020	5	271	481	435
11/18/2020	6	275	521	435
11/18/2020	7	286	520	435
11/18/2020	8	314	550	435
11/18/2020	9	340	565	435
11/18/2020	10	360	580	435
11/18/2020	11	376	602	435
11/18/2020	12	370	550	435
11/18/2020	13	365	530	435
11/18/2020	14	379	647	435
11/18/2020	15	377	590	435
11/18/2020	16	374	570	435
11/18/2020	17	351	500	435
11/18/2020	18	360	536	435
11/18/2020	19	350	563	435
11/18/2020	20	346	475	435
11/18/2020	21	344	515	435
11/18/2020	22	335	480	435

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/18/2020	23	323	470	435
11/18/2020	24	308	450	435
11/19/2020	1	299	590	435
11/19/2020	2	288	550	435
11/19/2020	3	281	500	435
11/19/2020	4	278	480	435
11/19/2020	5	282	506	435
11/19/2020	6	279	487	435
11/19/2020	7	289	550	435
11/19/2020	8	318	560	435
11/19/2020	9	351	565	435
11/19/2020	10	369	618	435
11/19/2020	11	388	647	435
11/19/2020	12	372	608	435
11/19/2020	13	370	547	435
11/19/2020	14	381	598	435
11/19/2020	15	377	570	435
11/19/2020	16	375	562	435
11/19/2020	17	369	530	435
11/19/2020	18	380	640	435
11/19/2020	19	368	522	435
11/19/2020	20	359	520	435
11/19/2020	21	354	510	435
11/19/2020	22	338	500	435
11/19/2020	23	321	470	435
11/19/2020	24	303	450	435
11/20/2020	1	304	600	435
11/20/2020	2	294	560	435
11/20/2020	3	285	520	435
11/20/2020	4	279	500	435
11/20/2020	5	276	485	435
11/20/2020	6	272	479	435
11/20/2020	7	289	560	435
11/20/2020	8	324	570	435
11/20/2020	9	355	647	435
11/20/2020	10	376	647	435
11/20/2020	11	389	647	435
11/20/2020	12	383	547	435
11/20/2020	13	385	548	435
11/20/2020	14	397	647	435
11/20/2020	15	393	647	435
11/20/2020	16	383	647	435
11/20/2020	17	361	530	435
11/20/2020	18	371	647	435
11/20/2020	19	361	544	435
11/20/2020	20	355	569	435
11/20/2020	21	353	570	435
11/20/2020	22	345	543	435
11/20/2020	23	334	525	435
11/20/2020	24	320	462	435
11/21/2020	1	303	450	435
11/21/2020	2	294	435	389
11/21/2020	3	285	435	387
11/21/2020	4	279	435	320
11/21/2020	5	274	435	320
11/21/2020	6	279	435	352
11/21/2020	7	289	450	435
11/21/2020	8	294	456	435
11/21/2020	9	313	556	435
11/21/2020	10	335	647	435
11/21/2020	11	346	647	435
11/21/2020	12	340	647	435
11/21/2020	13	337	556	435
11/21/2020	14	341	647	435
11/21/2020	15	337	647	435

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/21/2020	16	327	596	435
11/21/2020	17	316	557	435
11/21/2020	18	336	554	435
11/21/2020	19	330	456	435
11/21/2020	20	327	556	435
11/21/2020	21	324	556	435
11/21/2020	22	320	600	435
11/21/2020	23	305	490	435
11/21/2020	24	292	462	435
11/22/2020	1	285	570	435
11/22/2020	2	277	520	435
11/22/2020	3	267	500	435
11/22/2020	4	261	480	435
11/22/2020	5	256	470	435
11/22/2020	6	254	450	435
11/22/2020	7	252	435	420
11/22/2020	8	273	462	435
11/22/2020	9	288	520	435
11/22/2020	10	307	540	435
11/22/2020	11	318	560	435
11/22/2020	12	313	530	435
11/22/2020	13	312	520	435
11/22/2020	14	317	590	435
11/22/2020	15	315	580	435
11/22/2020	16	304	540	435
11/22/2020	17	293	520	435
11/22/2020	18	314	580	435
11/22/2020	19	309	520	435
11/22/2020	20	304	500	435
11/22/2020	21	303	510	435
11/22/2020	22	295	500	435
11/22/2020	23	285	480	435
11/22/2020	24	273	435	433
11/23/2020	1	287	580	435
11/23/2020	2	277	524	435
11/23/2020	3	270	500	435
11/23/2020	4	266	470	435
11/23/2020	5	263	460	435
11/23/2020	6	267	450	435
11/23/2020	7	278	435	420
11/23/2020	8	306	500	435
11/23/2020	9	340	530	435
11/23/2020	10	359	540	435
11/23/2020	11	375	560	435
11/23/2020	12	369	530	435
11/23/2020	13	364	520	435
11/23/2020	14	378	590	435
11/23/2020	15	377	580	435
11/23/2020	16	373	540	435
11/23/2020	17	350	520	435
11/23/2020	18	359	580	435
11/23/2020	19	349	520	435
11/23/2020	20	345	497	435
11/23/2020	21	343	550	435
11/23/2020	22	334	500	435
11/23/2020	23	322	480	435
11/23/2020	24	307	435	433
11/24/2020	1	292	590	435
11/24/2020	2	282	520	435
11/24/2020	3	274	500	435
11/24/2020	4	266	480	435
11/24/2020	5	266	490	435
11/24/2020	6	273	500	435
11/24/2020	7	290	510	435
11/24/2020	8	312	550	435

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/24/2020	9	339	560	435
11/24/2020	10	363	580	435
11/24/2020	11	375	560	435
11/24/2020	12	367	530	435
11/24/2020	13	367	520	435
11/24/2020	14	382	647	435
11/24/2020	15	376	591	435
11/24/2020	16	369	550	435
11/24/2020	17	347	520	435
11/24/2020	18	357	560	435
11/24/2020	19	348	530	435
11/24/2020	20	345	463	435
11/24/2020	21	340	503	435
11/24/2020	22	334	500	435
11/24/2020	23	320	470	435
11/24/2020	24	306	435	420
11/25/2020	1	290	580	435
11/25/2020	2	281	545	435
11/25/2020	3	270	492	435
11/25/2020	4	265	476	435
11/25/2020	5	264	459	435
11/25/2020	6	273	538	435
11/25/2020	7	290	550	435
11/25/2020	8	310	550	435
11/25/2020	9	340	570	435
11/25/2020	10	365	580	435
11/25/2020	11	376	590	435
11/25/2020	12	372	530	435
11/25/2020	13	371	520	435
11/25/2020	14	385	647	435
11/25/2020	15	379	647	435
11/25/2020	16	371	542	435
11/25/2020	17	349	520	435
11/25/2020	18	358	560	435
11/25/2020	19	350	520	435
11/25/2020	20	348	460	435
11/25/2020	21	344	588	435
11/25/2020	22	335	510	435
11/25/2020	23	321	480	435
11/25/2020	24	310	450	435
11/26/2020	1	288	580	435
11/26/2020	2	278	545	435
11/26/2020	3	271	492	435
11/26/2020	4	264	476	435
11/26/2020	5	265	459	435
11/26/2020	6	273	541	435
11/26/2020	7	289	545	435
11/26/2020	8	307	530	435
11/26/2020	9	335	630	435
11/26/2020	10	356	638	460
11/26/2020	11	371	647	460
11/26/2020	12	362	530	460
11/26/2020	13	362	535	460
11/26/2020	14	372	647	460
11/26/2020	15	370	632	460
11/26/2020	16	363	572	460
11/26/2020	17	342	540	435
11/26/2020	18	351	647	435
11/26/2020	19	342	600	435
11/26/2020	20	338	476	435
11/26/2020	21	335	550	435
11/26/2020	22	325	510	435
11/26/2020	23	315	480	435
11/26/2020	24	302	450	435
11/27/2020	1	286	596	435

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/27/2020	2	278	545	435
11/27/2020	3	269	492	435
11/27/2020	4	263	470	435
11/27/2020	5	261	450	435
11/27/2020	6	265	520	435
11/27/2020	7	273	530	435
11/27/2020	8	305	530	435
11/27/2020	9	334	647	435
11/27/2020	10	354	647	435
11/27/2020	11	365	647	435
11/27/2020	12	361	552	435
11/27/2020	13	362	595	435
11/27/2020	14	373	647	460
11/27/2020	15	369	647	435
11/27/2020	16	360	574	435
11/27/2020	17	339	540	435
11/27/2020	18	349	637	435
11/27/2020	19	339	550	435
11/27/2020	20	334	476	435
11/27/2020	21	332	487	435
11/27/2020	22	324	532	435
11/27/2020	23	314	476	435
11/27/2020	24	302	450	435
11/28/2020	1	293	435	420
11/28/2020	2	282	435	391
11/28/2020	3	269	496	435
11/28/2020	4	263	556	435
11/28/2020	5	262	563	435
11/28/2020	6	255	506	435
11/28/2020	7	260	435	424
11/28/2020	8	278	435	426
11/28/2020	9	299	435	344
11/28/2020	10	321	435	426
11/28/2020	11	330	456	435
11/28/2020	12	326	456	435
11/28/2020	13	324	456	435
11/28/2020	14	332	456	435
11/28/2020	15	329	456	435
11/28/2020	16	318	456	435
11/28/2020	17	303	435	350
11/28/2020	18	321	456	435
11/28/2020	19	317	456	435
11/28/2020	20	315	435	421
11/28/2020	21	315	456	435
11/28/2020	22	307	516	435
11/28/2020	23	297	449	435
11/28/2020	24	286	435	396
11/29/2020	1	282	570	435
11/29/2020	2	268	520	435
11/29/2020	3	258	490	435
11/29/2020	4	250	470	435
11/29/2020	5	250	450	435
11/29/2020	6	244	470	435
11/29/2020	7	248	470	435
11/29/2020	8	252	500	435
11/29/2020	9	268	510	435
11/29/2020	10	275	550	435
11/29/2020	11	288	542	435
11/29/2020	12	287	529	435
11/29/2020	13	294	539	435
11/29/2020	14	298	590	435
11/29/2020	15	296	560	435
11/29/2020	16	283	540	435
11/29/2020	17	262	470	435
11/29/2020	18	285	517	435

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/29/2020	19	281	500	435
11/29/2020	20	288	536	435
11/29/2020	21	288	583	435
11/29/2020	22	287	515	435
11/29/2020	23	285	462	435
11/29/2020	24	273	443	435
11/30/2020	1	252	450	435
11/30/2020	2	245	444	435
11/30/2020	3	236	435	419
11/30/2020	4	232	435	412
11/30/2020	5	229	421	345
11/30/2020	6	225	358	345
11/30/2020	7	225	345	343
11/30/2020	8	239	435	316
11/30/2020	9	259	435	414
11/30/2020	10	280	442	435
11/30/2020	11	289	456	435
11/30/2020	12	284	456	435
11/30/2020	13	285	456	435
11/30/2020	14	289	456	435
11/30/2020	15	287	456	435
11/30/2020	16	279	450	435
11/30/2020	17	274	450	435
11/30/2020	18	297	545	435
11/30/2020	19	297	528	435
11/30/2020	20	292	435	421
11/30/2020	21	287	500	435
11/30/2020	22	278	467	435
11/30/2020	23	263	449	435
11/30/2020	24	250	435	396
12/1/2020	1	282	585	435
12/1/2020	2	274	536	435
12/1/2020	3	265	490	435
12/1/2020	4	259	470	435
12/1/2020	5	257	450	435
12/1/2020	6	261	470	435
12/1/2020	7	273	470	435
12/1/2020	8	305	505	435
12/1/2020	9	332	510	435
12/1/2020	10	352	581	460
12/1/2020	11	364	629	460
12/1/2020	12	359	634	460
12/1/2020	13	361	623	460
12/1/2020	14	371	647	460
12/1/2020	15	368	647	460
12/1/2020	16	358	647	460
12/1/2020	17	337	550	435
12/1/2020	18	347	577	435
12/1/2020	19	338	500	435
12/1/2020	20	332	536	435
12/1/2020	21	330	607	435
12/1/2020	22	322	515	435
12/1/2020	23	313	462	435
12/1/2020	24	300	450	435
12/2/2020	1	277	560	435
12/2/2020	2	266	510	435
12/2/2020	3	257	470	435
12/2/2020	4	254	437	435
12/2/2020	5	255	435	430
12/2/2020	6	260	450	435
12/2/2020	7	263	460	435
12/2/2020	8	294	490	435
12/2/2020	9	319	510	435
12/2/2020	10	341	540	435
12/2/2020	11	353	550	435

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/2/2020	12	346	540	435
12/2/2020	13	345	510	435
12/2/2020	14	355	573	435
12/2/2020	15	351	550	435
12/2/2020	16	343	557	435
12/2/2020	17	327	509	435
12/2/2020	18	337	566	435
12/2/2020	19	329	551	435
12/2/2020	20	325	521	435
12/2/2020	21	319	544	435
12/2/2020	22	310	527	435
12/2/2020	23	296	445	435
12/2/2020	24	281	440	435
12/3/2020	1	274	560	435
12/3/2020	2	266	510	435
12/3/2020	3	258	470	435
12/3/2020	4	253	435	424
12/3/2020	5	253	435	424
12/3/2020	6	256	450	435
12/3/2020	7	272	460	435
12/3/2020	8	295	490	435
12/3/2020	9	324	510	435
12/3/2020	10	343	540	435
12/3/2020	11	358	609	435
12/3/2020	12	349	550	435
12/3/2020	13	349	510	435
12/3/2020	14	359	572	435
12/3/2020	15	356	570	435
12/3/2020	16	348	557	435
12/3/2020	17	334	500	435
12/3/2020	18	342	595	435
12/3/2020	19	335	550	435
12/3/2020	20	332	534	435
12/3/2020	21	329	530	435
12/3/2020	22	321	527	435
12/3/2020	23	309	506	435
12/3/2020	24	298	440	435
12/4/2020	1	304	647	435
12/4/2020	2	293	586	435
12/4/2020	3	283	540	435
12/4/2020	4	277	500	435
12/4/2020	5	276	480	435
12/4/2020	6	280	490	435
12/4/2020	7	291	520	435
12/4/2020	8	316	580	435
12/4/2020	9	346	647	435
12/4/2020	10	362	647	435
12/4/2020	11	372	647	435
12/4/2020	12	363	580	435
12/4/2020	13	366	590	460
12/4/2020	14	378	647	460
12/4/2020	15	371	647	460
12/4/2020	16	361	647	435
12/4/2020	17	349	647	435
12/4/2020	18	360	647	435
12/4/2020	19	350	580	435
12/4/2020	20	344	550	435
12/4/2020	21	340	558	435
12/4/2020	22	328	558	435
12/4/2020	23	316	510	435
12/4/2020	24	305	477	435
12/5/2020	1	287	557	435
12/5/2020	2	279	523	435
12/5/2020	3	274	552	435
12/5/2020	4	267	550	435

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/5/2020	5	267	500	435
12/5/2020	6	267	435	409
12/5/2020	7	282	435	400
12/5/2020	8	287	436	435
12/5/2020	9	308	555	435
12/5/2020	10	327	563	435
12/5/2020	11	338	567	435
12/5/2020	12	330	547	435
12/5/2020	13	329	552	435
12/5/2020	14	337	553	435
12/5/2020	15	333	549	435
12/5/2020	16	328	550	435
12/5/2020	17	317	435	433
12/5/2020	18	340	647	435
12/5/2020	19	334	639	435
12/5/2020	20	333	614	435
12/5/2020	21	330	647	460
12/5/2020	22	318	601	435
12/5/2020	23	307	567	435
12/5/2020	24	297	554	435
12/6/2020	1	282	592	420
12/6/2020	2	268	540	420
12/6/2020	3	258	510	420
12/6/2020	4	250	490	420
12/6/2020	5	250	450	420
12/6/2020	6	244	420	420
12/6/2020	7	248	470	420
12/6/2020	8	252	494	420
12/6/2020	9	274	538	420
12/6/2020	10	289	560	435
12/6/2020	11	302	568	435
12/6/2020	12	302	560	435
12/6/2020	13	308	550	435
12/6/2020	14	312	590	435
12/6/2020	15	311	570	435
12/6/2020	16	298	550	435
12/6/2020	17	284	500	435
12/6/2020	18	304	570	435
12/6/2020	19	300	560	435
12/6/2020	20	306	590	435
12/6/2020	21	302	577	435
12/6/2020	22	301	560	435
12/6/2020	23	296	540	435
12/6/2020	24	287	490	435
12/7/2020	1	274	580	435
12/7/2020	2	266	530	435
12/7/2020	3	258	500	435
12/7/2020	4	253	479	435
12/7/2020	5	253	440	435
12/7/2020	6	257	435	420
12/7/2020	7	272	450	435
12/7/2020	8	295	494	435
12/7/2020	9	329	510	435
12/7/2020	10	349	558	460
12/7/2020	11	363	647	460
12/7/2020	12	354	647	460
12/7/2020	13	354	647	460
12/7/2020	14	364	647	460
12/7/2020	15	361	647	460
12/7/2020	16	353	647	460
12/7/2020	17	339	550	460
12/7/2020	18	347	647	460
12/7/2020	19	340	590	460
12/7/2020	20	337	550	460
12/7/2020	21	334	615	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/7/2020	22	326	580	460
12/7/2020	23	314	549	460
12/7/2020	24	303	500	460
12/8/2020	1	289	590	435
12/8/2020	2	280	550	435
12/8/2020	3	273	530	435
12/8/2020	4	266	500	435
12/8/2020	5	258	470	435
12/8/2020	6	256	450	435
12/8/2020	7	253	435	421
12/8/2020	8	264	470	435
12/8/2020	9	278	563	435
12/8/2020	10	296	581	435
12/8/2020	11	309	590	435
12/8/2020	12	307	553	435
12/8/2020	13	308	507	435
12/8/2020	14	312	590	435
12/8/2020	15	308	580	435
12/8/2020	16	304	570	435
12/8/2020	17	301	530	435
12/8/2020	18	331	580	435
12/8/2020	19	332	590	435
12/8/2020	20	332	600	435
12/8/2020	21	328	570	435
12/8/2020	22	320	550	435
12/8/2020	23	306	520	435
12/8/2020	24	293	480	435
12/9/2020	1	274	580	435
12/9/2020	2	266	540	435
12/9/2020	3	258	520	435
12/9/2020	4	254	490	435
12/9/2020	5	253	480	435
12/9/2020	6	257	440	435
12/9/2020	7	272	435	420
12/9/2020	8	295	470	435
12/9/2020	9	330	563	435
12/9/2020	10	349	647	435
12/9/2020	11	359	647	435
12/9/2020	12	353	580	435
12/9/2020	13	351	560	435
12/9/2020	14	361	647	435
12/9/2020	15	358	647	435
12/9/2020	16	351	590	435
12/9/2020	17	338	530	435
12/9/2020	18	348	647	435
12/9/2020	19	343	570	435
12/9/2020	20	339	600	435
12/9/2020	21	336	579	435
12/9/2020	22	326	531	435
12/9/2020	23	314	512	435
12/9/2020	24	301	480	435
12/10/2020	1	302	620	435
12/10/2020	2	284	550	435
12/10/2020	3	276	544	435
12/10/2020	4	271	490	435
12/10/2020	5	272	503	435
12/10/2020	6	276	520	435
12/10/2020	7	281	560	435
12/10/2020	8	306	570	435
12/10/2020	9	335	580	435
12/10/2020	10	355	647	435
12/10/2020	11	369	647	435
12/10/2020	12	360	545	435
12/10/2020	13	370	632	460
12/10/2020	14	383	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/10/2020	15	380	647	460
12/10/2020	16	375	647	460
12/10/2020	17	347	550	435
12/10/2020	18	357	647	460
12/10/2020	19	351	647	460
12/10/2020	20	348	647	460
12/10/2020	21	344	637	460
12/10/2020	22	334	577	460
12/10/2020	23	321	538	435
12/10/2020	24	314	480	435
12/11/2020	1	276	583	435
12/11/2020	2	267	543	435
12/11/2020	3	258	530	435
12/11/2020	4	255	480	435
12/11/2020	5	255	490	435
12/11/2020	6	259	510	435
12/11/2020	7	267	550	435
12/11/2020	8	297	617	435
12/11/2020	9	327	647	460
12/11/2020	10	346	647	460
12/11/2020	11	358	647	460
12/11/2020	12	354	624	460
12/11/2020	13	354	547	460
12/11/2020	14	365	647	460
12/11/2020	15	362	647	460
12/11/2020	16	355	624	460
12/11/2020	17	336	550	460
12/11/2020	18	346	647	460
12/11/2020	19	338	590	460
12/11/2020	20	335	570	460
12/11/2020	21	333	635	460
12/11/2020	22	323	578	460
12/11/2020	23	311	602	460
12/11/2020	24	296	470	460
12/12/2020	1	301	602	460
12/12/2020	2	291	570	460
12/12/2020	3	283	550	460
12/12/2020	4	277	500	460
12/12/2020	5	275	480	460
12/12/2020	6	273	510	435
12/12/2020	7	271	563	435
12/12/2020	8	291	570	435
12/12/2020	9	312	605	460
12/12/2020	10	335	647	460
12/12/2020	11	346	647	460
12/12/2020	12	341	624	460
12/12/2020	13	344	647	460
12/12/2020	14	343	647	460
12/12/2020	15	338	625	460
12/12/2020	16	328	580	460
12/12/2020	17	319	550	460
12/12/2020	18	332	647	460
12/12/2020	19	326	590	460
12/12/2020	20	324	543	460
12/12/2020	21	322	647	460
12/12/2020	22	321	618	460
12/12/2020	23	304	511	460
12/12/2020	24	292	463	460
12/13/2020	1	278	590	460
12/13/2020	2	264	543	460
12/13/2020	3	254	520	435
12/13/2020	4	250	490	435
12/13/2020	5	250	470	435
12/13/2020	6	244	460	435
12/13/2020	7	248	490	435

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/13/2020	8	252	548	435
12/13/2020	9	285	605	460
12/13/2020	10	300	647	460
12/13/2020	11	313	647	460
12/13/2020	12	313	624	460
12/13/2020	13	319	647	460
12/13/2020	14	323	647	460
12/13/2020	15	321	625	460
12/13/2020	16	309	580	460
12/13/2020	17	299	550	460
12/13/2020	18	319	647	460
12/13/2020	19	314	560	460
12/13/2020	20	317	623	460
12/13/2020	21	309	634	460
12/13/2020	22	300	641	460
12/13/2020	23	292	537	460
12/13/2020	24	282	460	450
12/14/2020	1	290	583	435
12/14/2020	2	280	560	435
12/14/2020	3	272	530	435
12/14/2020	4	268	475	435
12/14/2020	5	268	500	435
12/14/2020	6	272	510	435
12/14/2020	7	281	550	435
12/14/2020	8	306	617	435
12/14/2020	9	332	647	435
12/14/2020	10	349	647	460
12/14/2020	11	360	647	460
12/14/2020	12	355	647	460
12/14/2020	13	353	647	460
12/14/2020	14	361	647	460
12/14/2020	15	357	647	460
12/14/2020	16	352	647	460
12/14/2020	17	338	647	460
12/14/2020	18	354	647	460
12/14/2020	19	348	647	460
12/14/2020	20	343	647	460
12/14/2020	21	339	647	460
12/14/2020	22	328	647	460
12/14/2020	23	315	605	460
12/14/2020	24	303	526	460
12/15/2020	1	295	600	460
12/15/2020	2	284	552	460
12/15/2020	3	275	519	435
12/15/2020	4	267	490	435
12/15/2020	5	267	500	435
12/15/2020	6	271	514	435
12/15/2020	7	282	550	435
12/15/2020	8	311	617	435
12/15/2020	9	338	647	460
12/15/2020	10	358	647	460
12/15/2020	11	371	647	460
12/15/2020	12	365	647	460
12/15/2020	13	364	580	460
12/15/2020	14	374	647	460
12/15/2020	15	368	647	460
12/15/2020	16	358	590	460
12/15/2020	17	340	647	460
12/15/2020	18	349	647	460
12/15/2020	19	339	587	460
12/15/2020	20	335	569	460
12/15/2020	21	329	577	460
12/15/2020	22	318	534	460
12/15/2020	23	309	522	460
12/15/2020	24	294	480	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/16/2020	1	290	587	460
12/16/2020	2	278	540	460
12/16/2020	3	271	520	435
12/16/2020	4	269	490	435
12/16/2020	5	276	500	435
12/16/2020	6	285	540	435
12/16/2020	7	285	550	435
12/16/2020	8	299	560	435
12/16/2020	9	336	580	435
12/16/2020	10	357	590	460
12/16/2020	11	364	595	460
12/16/2020	12	355	560	460
12/16/2020	13	352	550	460
12/16/2020	14	371	647	460
12/16/2020	15	366	647	460
12/16/2020	16	363	550	460
12/16/2020	17	350	601	460
12/16/2020	18	352	647	460
12/16/2020	19	354	580	460
12/16/2020	20	348	569	460
12/16/2020	21	339	572	460
12/16/2020	22	316	647	460
12/16/2020	23	301	558	460
12/16/2020	24	290	480	460
12/17/2020	1	293	590	460
12/17/2020	2	283	550	460
12/17/2020	3	275	530	435
12/17/2020	4	269	490	435
12/17/2020	5	271	500	435
12/17/2020	6	274	540	435
12/17/2020	7	286	550	435
12/17/2020	8	308	560	435
12/17/2020	9	333	580	435
12/17/2020	10	347	590	460
12/17/2020	11	355	600	460
12/17/2020	12	347	550	460
12/17/2020	13	342	560	460
12/17/2020	14	350	590	460
12/17/2020	15	347	579	460
12/17/2020	16	344	530	460
12/17/2020	17	336	560	460
12/17/2020	18	350	647	460
12/17/2020	19	341	580	460
12/17/2020	20	334	569	460
12/17/2020	21	328	591	460
12/17/2020	22	314	647	460
12/17/2020	23	302	596	460
12/17/2020	24	290	480	460
12/18/2020	1	283	460	435
12/18/2020	2	272	460	435
12/18/2020	3	264	460	435
12/18/2020	4	260	460	435
12/18/2020	5	258	435	400
12/18/2020	6	254	435	352
12/18/2020	7	260	435	352
12/18/2020	8	284	460	435
12/18/2020	9	308	460	435
12/18/2020	10	328	460	435
12/18/2020	11	344	460	435
12/18/2020	12	342	460	435
12/18/2020	13	341	460	435
12/18/2020	14	351	460	435
12/18/2020	15	347	460	435
12/18/2020	16	338	460	435
12/18/2020	17	326	460	435

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/18/2020	18	351	460	435
12/18/2020	19	349	460	435
12/18/2020	20	348	460	435
12/18/2020	21	344	460	435
12/18/2020	22	336	460	435
12/18/2020	23	328	460	435
12/18/2020	24	311	460	435
12/19/2020	1	283	460	435
12/19/2020	2	272	460	435
12/19/2020	3	264	460	435
12/19/2020	4	260	460	435
12/19/2020	5	258	435	400
12/19/2020	6	254	435	352
12/19/2020	7	260	435	352
12/19/2020	8	284	460	435
12/19/2020	9	308	460	435
12/19/2020	10	328	460	435
12/19/2020	11	344	460	435
12/19/2020	12	342	460	435
12/19/2020	13	341	460	435
12/19/2020	14	351	460	435
12/19/2020	15	347	460	435
12/19/2020	16	338	460	435
12/19/2020	17	326	460	435
12/19/2020	18	351	460	435
12/19/2020	19	349	460	435
12/19/2020	20	348	460	435
12/19/2020	21	344	460	435
12/19/2020	22	336	460	435
12/19/2020	23	328	460	435
12/19/2020	24	311	460	435
12/20/2020	1	282	460	435
12/20/2020	2	268	460	435
12/20/2020	3	258	460	435
12/20/2020	4	250	460	435
12/20/2020	5	249	460	400
12/20/2020	6	244	460	352
12/20/2020	7	248	460	352
12/20/2020	8	252	460	435
12/20/2020	9	267	460	435
12/20/2020	10	282	460	435
12/20/2020	11	295	460	435
12/20/2020	12	294	460	435
12/20/2020	13	301	460	435
12/20/2020	14	305	460	435
12/20/2020	15	303	460	435
12/20/2020	16	290	460	435
12/20/2020	17	277	460	435
12/20/2020	18	305	460	435
12/20/2020	19	303	460	435
12/20/2020	20	302	460	435
12/20/2020	21	293	460	435
12/20/2020	22	289	460	435
12/20/2020	23	285	460	435
12/20/2020	24	281	460	435
12/21/2020	1	269	557	435
12/21/2020	2	261	575	435
12/21/2020	3	253	435	425
12/21/2020	4	248	435	424
12/21/2020	5	249	435	424
12/21/2020	6	253	435	424
12/21/2020	7	263	461	435
12/21/2020	8	290	584	435
12/21/2020	9	315	550	435
12/21/2020	10	333	647	435

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/21/2020	11	345	647	435
12/21/2020	12	339	647	435
12/21/2020	13	339	647	435
12/21/2020	14	349	647	435
12/21/2020	15	345	647	435
12/21/2020	16	339	647	435
12/21/2020	17	324	647	435
12/21/2020	18	334	647	435
12/21/2020	19	328	647	435
12/21/2020	20	323	647	435
12/21/2020	21	318	647	435
12/21/2020	22	308	647	435
12/21/2020	23	296	647	435
12/21/2020	24	283	647	435
12/22/2020	1	267	460	435
12/22/2020	2	258	460	435
12/22/2020	3	250	460	435
12/22/2020	4	244	460	435
12/22/2020	5	244	460	435
12/22/2020	6	248	460	435
12/22/2020	7	251	460	435
12/22/2020	8	282	460	435
12/22/2020	9	309	460	435
12/22/2020	10	328	460	435
12/22/2020	11	340	460	435
12/22/2020	12	334	460	435
12/22/2020	13	334	460	435
12/22/2020	14	344	460	435
12/22/2020	15	338	460	435
12/22/2020	16	329	460	435
12/22/2020	17	311	460	435
12/22/2020	18	321	460	435
12/22/2020	19	316	460	435
12/22/2020	20	309	460	435
12/22/2020	21	304	460	435
12/22/2020	22	296	460	435
12/22/2020	23	286	460	435
12/22/2020	24	273	460	435
12/23/2020	1	271	460	435
12/23/2020	2	262	460	435
12/23/2020	3	254	460	435
12/23/2020	4	248	460	435
12/23/2020	5	248	460	435
12/23/2020	6	248	460	435
12/23/2020	7	255	460	435
12/23/2020	8	282	460	435
12/23/2020	9	308	460	435
12/23/2020	10	325	460	435
12/23/2020	11	338	460	435
12/23/2020	12	332	460	435
12/23/2020	13	329	460	435
12/23/2020	14	339	460	435
12/23/2020	15	334	460	435
12/23/2020	16	326	460	435
12/23/2020	17	310	460	435
12/23/2020	18	320	460	435
12/23/2020	19	314	460	435
12/23/2020	20	310	460	435
12/23/2020	21	306	460	435
12/23/2020	22	296	460	435
12/23/2020	23	285	460	435
12/23/2020	24	276	460	435
12/24/2020	1	274	460	435
12/24/2020	2	260	460	435
12/24/2020	3	250	435	352

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/24/2020	4	242	435	350
12/24/2020	5	241	435	350
12/24/2020	6	236	435	350
12/24/2020	7	240	435	350
12/24/2020	8	244	435	350
12/24/2020	9	255	435	350
12/24/2020	10	269	460	435
12/24/2020	11	283	460	435
12/24/2020	12	282	460	435
12/24/2020	13	289	460	435
12/24/2020	14	293	460	435
12/24/2020	15	291	460	435
12/24/2020	16	278	460	435
12/24/2020	17	265	460	435
12/24/2020	18	293	460	435
12/24/2020	19	291	460	435
12/24/2020	20	290	460	435
12/24/2020	21	281	460	435
12/24/2020	22	276	460	435
12/24/2020	23	272	460	435
12/24/2020	24	269	460	435
12/25/2020	1	232	435	352
12/25/2020	2	227	435	352
12/25/2020	3	223	435	352
12/25/2020	4	218	385	346
12/25/2020	5	211	337	300
12/25/2020	6	209	329	300
12/25/2020	7	208	240	229
12/25/2020	8	204	240	185
12/25/2020	9	208	184	176
12/25/2020	10	211	180	176
12/25/2020	11	220	180	176
12/25/2020	12	229	200	180
12/25/2020	13	231	200	180
12/25/2020	14	229	200	180
12/25/2020	15	227	200	180
12/25/2020	16	228	200	180
12/25/2020	17	229	221	200
12/25/2020	18	235	250	236
12/25/2020	19	258	434	353
12/25/2020	20	260	435	332
12/25/2020	21	257	435	353
12/25/2020	22	252	435	352
12/25/2020	23	244	435	372
12/25/2020	24	232	414	352
12/26/2020	1	250	460	435
12/26/2020	2	244	435	352
12/26/2020	3	234	435	352
12/26/2020	4	226	435	346
12/26/2020	5	225	435	337
12/26/2020	6	220	435	268
12/26/2020	7	224	435	272
12/26/2020	8	228	435	250
12/26/2020	9	250	435	350
12/26/2020	10	265	460	435
12/26/2020	11	278	460	435
12/26/2020	12	278	460	435
12/26/2020	13	284	460	435
12/26/2020	14	288	460	435
12/26/2020	15	287	460	435
12/26/2020	16	274	460	435
12/26/2020	17	260	460	435
12/26/2020	18	288	460	435
12/26/2020	19	287	460	435
12/26/2020	20	285	460	435

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/26/2020	21	276	460	435
12/26/2020	22	272	460	435
12/26/2020	23	260	460	435
12/26/2020	24	253	460	435
12/27/2020	1	248	460	435
12/27/2020	2	242	435	352
12/27/2020	3	232	435	352
12/27/2020	4	226	435	352
12/27/2020	5	224	435	352
12/27/2020	6	218	435	352
12/27/2020	7	222	435	352
12/27/2020	8	228	435	352
12/27/2020	9	259	460	435
12/27/2020	10	273	460	435
12/27/2020	11	287	460	435
12/27/2020	12	286	460	435
12/27/2020	13	293	460	435
12/27/2020	14	297	460	435
12/27/2020	15	295	460	435
12/27/2020	16	282	460	435
12/27/2020	17	269	460	435
12/27/2020	18	296	460	435
12/27/2020	19	295	460	435
12/27/2020	20	294	460	435
12/27/2020	21	285	460	435
12/27/2020	22	280	460	435
12/27/2020	23	268	460	435
12/27/2020	24	261	460	435
12/28/2020	1	258	460	435
12/28/2020	2	250	435	350
12/28/2020	3	243	435	352
12/28/2020	4	235	435	350
12/28/2020	5	244	435	352
12/28/2020	6	243	435	352
12/28/2020	7	247	435	352
12/28/2020	8	271	435	352
12/28/2020	9	297	435	352
12/28/2020	10	316	460	435
12/28/2020	11	331	460	435
12/28/2020	12	327	460	435
12/28/2020	13	317	460	435
12/28/2020	14	319	460	435
12/28/2020	15	330	460	435
12/28/2020	16	326	460	435
12/28/2020	17	320	460	435
12/28/2020	18	307	460	435
12/28/2020	19	316	460	435
12/28/2020	20	308	460	435
12/28/2020	21	303	460	435
12/28/2020	22	299	460	435
12/28/2020	23	287	460	435
12/28/2020	24	277	460	435
12/29/2020	1	266	460	435
12/29/2020	2	256	460	435
12/29/2020	3	246	435	352
12/29/2020	4	242	435	352
12/29/2020	5	242	435	352
12/29/2020	6	236	435	352
12/29/2020	7	240	435	352
12/29/2020	8	252	435	352
12/29/2020	9	282	460	435
12/29/2020	10	301	460	435
12/29/2020	11	314	460	435
12/29/2020	12	314	460	435
12/29/2020	13	320	460	435

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/29/2020	14	324	460	435
12/29/2020	15	323	460	435
12/29/2020	16	310	460	435
12/29/2020	17	300	460	435
12/29/2020	18	320	460	435
12/29/2020	19	316	460	435
12/29/2020	20	318	460	435
12/29/2020	21	310	460	435
12/29/2020	22	302	460	435
12/29/2020	23	294	460	435
12/29/2020	24	283	460	435
12/30/2020	1	279	435	352
12/30/2020	2	268	435	352
12/30/2020	3	259	435	352
12/30/2020	4	250	435	334
12/30/2020	5	245	435	334
12/30/2020	6	241	435	334
12/30/2020	7	236	435	280
12/30/2020	8	243	435	333
12/30/2020	9	262	435	349
12/30/2020	10	278	435	352
12/30/2020	11	291	435	352
12/30/2020	12	290	435	344
12/30/2020	13	292	435	344
12/30/2020	14	297	435	352
12/30/2020	15	295	435	352
12/30/2020	16	290	435	344
12/30/2020	17	282	435	344
12/30/2020	18	305	435	352
12/30/2020	19	303	435	352
12/30/2020	20	293	435	352
12/30/2020	21	285	435	352
12/30/2020	22	281	435	352
12/30/2020	23	272	435	352
12/30/2020	24	264	435	352
12/31/2020	1	273	460	435
12/31/2020	2	263	460	435
12/31/2020	3	254	435	352
12/31/2020	4	245	435	352
12/31/2020	5	240	435	352
12/31/2020	6	236	435	352
12/31/2020	7	231	435	250
12/31/2020	8	238	435	249
12/31/2020	9	257	435	316
12/31/2020	10	272	435	316
12/31/2020	11	285	435	344
12/31/2020	12	284	435	344
12/31/2020	13	286	435	344
12/31/2020	14	291	435	344
12/31/2020	15	289	435	344
12/31/2020	16	284	435	344
12/31/2020	17	277	435	316
12/31/2020	18	299	435	382
12/31/2020	19	296	435	352
12/31/2020	20	287	435	328
12/31/2020	21	279	435	344
12/31/2020	22	275	435	352
12/31/2020	23	267	435	344
12/31/2020	24	258	435	316
1/1/2021	1	230	435	300
1/1/2021	2	223	435	280
1/1/2021	3	214	435	250
1/1/2021	4	208	435	240
1/1/2021	5	202	435	240
1/1/2021	6	199	435	200

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/1/2021	7	195	250	185
1/1/2021	8	196	185	165
1/1/2021	9	204	185	165
1/1/2021	10	217	218	185
1/1/2021	11	228	435	185
1/1/2021	12	235	435	185
1/1/2021	13	237	435	185
1/1/2021	14	240	435	185
1/1/2021	15	240	435	185
1/1/2021	16	235	364	185
1/1/2021	17	232	339	185
1/1/2021	18	254	354	266
1/1/2021	19	259	435	266
1/1/2021	20	257	435	265
1/1/2021	21	256	435	265
1/1/2021	22	250	435	299
1/1/2021	23	241	435	266
1/1/2021	24	233	435	266
1/2/2021	1	215	435	276
1/2/2021	2	207	435	256
1/2/2021	3	201	435	185
1/2/2021	4	197	435	240
1/2/2021	5	196	435	185
1/2/2021	6	199	402	240
1/2/2021	7	202	250	185
1/2/2021	8	216	185	185
1/2/2021	9	232	225	202
1/2/2021	10	252	300	300
1/2/2021	11	262	435	315
1/2/2021	12	262	435	315
1/2/2021	13	262	435	315
1/2/2021	14	265	435	334
1/2/2021	15	260	435	315
1/2/2021	16	253	435	280
1/2/2021	17	253	435	250
1/2/2021	18	275	435	382
1/2/2021	19	274	435	352
1/2/2021	20	271	435	352
1/2/2021	21	263	435	352
1/2/2021	22	251	435	316
1/2/2021	23	243	435	335
1/2/2021	24	235	435	334
1/3/2021	1	263	460	435
1/3/2021	2	254	435	352
1/3/2021	3	244	435	352
1/3/2021	4	238	435	352
1/3/2021	5	235	435	352
1/3/2021	6	239	435	352
1/3/2021	7	241	435	352
1/3/2021	8	248	435	352
1/3/2021	9	259	435	352
1/3/2021	10	272	435	352
1/3/2021	11	279	460	435
1/3/2021	12	272	460	435
1/3/2021	13	267	460	435
1/3/2021	14	268	460	435
1/3/2021	15	266	460	435
1/3/2021	16	266	460	435
1/3/2021	17	271	460	435
1/3/2021	18	297	460	435
1/3/2021	19	297	460	435
1/3/2021	20	289	460	435
1/3/2021	21	282	460	435
1/3/2021	22	271	460	435
1/3/2021	23	258	460	435

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/3/2021	24	248	460	435
1/4/2021	1	271	460	435
1/4/2021	2	261	435	352
1/4/2021	3	253	435	352
1/4/2021	4	247	435	352
1/4/2021	5	242	435	352
1/4/2021	6	243	435	352
1/4/2021	7	246	435	352
1/4/2021	8	256	435	352
1/4/2021	9	280	435	352
1/4/2021	10	304	435	372
1/4/2021	11	329	460	435
1/4/2021	12	324	460	435
1/4/2021	13	322	460	435
1/4/2021	14	327	460	435
1/4/2021	15	325	460	435
1/4/2021	16	323	460	435
1/4/2021	17	317	460	435
1/4/2021	18	310	460	435
1/4/2021	19	319	460	435
1/4/2021	20	314	460	435
1/4/2021	21	312	460	435
1/4/2021	22	309	460	435
1/4/2021	23	299	460	435
1/4/2021	24	288	460	435
1/5/2021	1	270	460	435
1/5/2021	2	262	460	435
1/5/2021	3	255	460	435
1/5/2021	4	250	460	435
1/5/2021	5	249	460	435
1/5/2021	6	252	460	435
1/5/2021	7	259	460	435
1/5/2021	8	280	460	435
1/5/2021	9	304	460	435
1/5/2021	10	326	460	435
1/5/2021	11	339	460	435
1/5/2021	12	337	460	435
1/5/2021	13	336	460	435
1/5/2021	14	345	460	435
1/5/2021	15	342	460	435
1/5/2021	16	335	460	435
1/5/2021	17	320	460	435
1/5/2021	18	336	460	435
1/5/2021	19	333	460	435
1/5/2021	20	326	460	435
1/5/2021	21	322	460	435
1/5/2021	22	312	460	435
1/5/2021	23	300	460	435
1/5/2021	24	286	460	435
1/6/2021	1	286	460	435
1/6/2021	2	275	460	435
1/6/2021	3	269	460	435
1/6/2021	4	262	460	435
1/6/2021	5	261	460	435
1/6/2021	6	266	460	435
1/6/2021	7	280	460	435
1/6/2021	8	295	460	435
1/6/2021	9	320	460	435
1/6/2021	10	341	460	435
1/6/2021	11	354	460	435
1/6/2021	12	350	460	435
1/6/2021	13	351	460	435
1/6/2021	14	360	460	435
1/6/2021	15	355	460	435
1/6/2021	16	348	460	435

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/6/2021	17	334	460	435
1/6/2021	18	348	460	435
1/6/2021	19	344	460	435
1/6/2021	20	340	460	435
1/6/2021	21	334	460	435
1/6/2021	22	322	460	435
1/6/2021	23	310	460	435
1/6/2021	24	298	460	435
1/7/2021	1	292	460	435
1/7/2021	2	283	460	435
1/7/2021	3	277	460	435
1/7/2021	4	272	460	435
1/7/2021	5	273	460	435
1/7/2021	6	277	460	435
1/7/2021	7	285	460	435
1/7/2021	8	306	460	435
1/7/2021	9	334	460	435
1/7/2021	10	353	460	435
1/7/2021	11	364	460	435
1/7/2021	12	357	460	435
1/7/2021	13	354	460	435
1/7/2021	14	362	460	435
1/7/2021	15	361	460	435
1/7/2021	16	354	460	435
1/7/2021	17	340	460	435
1/7/2021	18	351	460	435
1/7/2021	19	346	460	435
1/7/2021	20	342	460	435
1/7/2021	21	339	460	435
1/7/2021	22	329	460	435
1/7/2021	23	317	460	435
1/7/2021	24	303	460	435
1/8/2021	1	265	460	435
1/8/2021	2	264	460	435
1/8/2021	3	257	460	435
1/8/2021	4	253	460	435
1/8/2021	5	260	460	435
1/8/2021	6	272	460	435
1/8/2021	7	276	460	435
1/8/2021	8	303	460	435
1/8/2021	9	335	460	435
1/8/2021	10	353	460	435
1/8/2021	11	361	460	435
1/8/2021	12	353	460	435
1/8/2021	13	348	460	435
1/8/2021	14	359	460	435
1/8/2021	15	354	460	435
1/8/2021	16	353	460	435
1/8/2021	17	340	460	435
1/8/2021	18	340	460	435
1/8/2021	19	344	460	435
1/8/2021	20	332	460	435
1/8/2021	21	318	460	435
1/8/2021	22	294	460	435
1/8/2021	23	273	460	435
1/8/2021	24	252	460	435
1/9/2021	1	268	460	435
1/9/2021	2	259	460	435
1/9/2021	3	252	460	435
1/9/2021	4	247	460	435
1/9/2021	5	245	460	435
1/9/2021	6	245	460	435
1/9/2021	7	248	460	435
1/9/2021	8	265	460	435
1/9/2021	9	292	460	435

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/9/2021	10	309	460	435
1/9/2021	11	320	460	435
1/9/2021	12	316	460	435
1/9/2021	13	316	460	435
1/9/2021	14	325	460	435
1/9/2021	15	322	460	435
1/9/2021	16	311	460	435
1/9/2021	17	307	460	435
1/9/2021	18	323	460	435
1/9/2021	19	320	460	435
1/9/2021	20	318	460	435
1/9/2021	21	314	460	435
1/9/2021	22	307	460	435
1/9/2021	23	295	460	435
1/9/2021	24	285	460	435
1/10/2021	1	261	460	435
1/10/2021	2	252	460	435
1/10/2021	3	244	460	435
1/10/2021	4	237	460	435
1/10/2021	5	236	460	435
1/10/2021	6	239	460	435
1/10/2021	7	241	460	435
1/10/2021	8	248	460	435
1/10/2021	9	251	460	435
1/10/2021	10	264	460	435
1/10/2021	11	271	460	435
1/10/2021	12	263	460	435
1/10/2021	13	259	460	435
1/10/2021	14	259	460	435
1/10/2021	15	258	460	435
1/10/2021	16	257	460	435
1/10/2021	17	263	460	435
1/10/2021	18	288	460	435
1/10/2021	19	289	460	435
1/10/2021	20	281	460	435
1/10/2021	21	274	460	435
1/10/2021	22	263	460	435
1/10/2021	23	250	460	435
1/10/2021	24	240	460	435
1/11/2021	1	266	460	435
1/11/2021	2	258	460	435
1/11/2021	3	251	460	435
1/11/2021	4	246	460	435
1/11/2021	5	245	460	435
1/11/2021	6	248	460	435
1/11/2021	7	254	460	435
1/11/2021	8	280	460	435
1/11/2021	9	306	460	435
1/11/2021	10	328	460	435
1/11/2021	11	341	460	435
1/11/2021	12	339	460	435
1/11/2021	13	338	460	435
1/11/2021	14	347	460	435
1/11/2021	15	344	460	435
1/11/2021	16	337	460	435
1/11/2021	17	323	460	435
1/11/2021	18	338	460	435
1/11/2021	19	335	460	435
1/11/2021	20	328	460	435
1/11/2021	21	324	460	435
1/11/2021	22	315	460	435
1/11/2021	23	302	460	435
1/11/2021	24	288	460	435
1/12/2021	1	256	460	435
1/12/2021	2	248	460	435

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/12/2021	3	240	460	435
1/12/2021	4	237	460	435
1/12/2021	5	238	460	435
1/12/2021	6	243	460	435
1/12/2021	7	248	460	435
1/12/2021	8	276	460	435
1/12/2021	9	303	460	435
1/12/2021	10	319	460	435
1/12/2021	11	332	460	435
1/12/2021	12	329	460	435
1/12/2021	13	324	460	435
1/12/2021	14	333	460	435
1/12/2021	15	329	460	435
1/12/2021	16	325	460	435
1/12/2021	17	310	460	435
1/12/2021	18	322	460	435
1/12/2021	19	318	460	435
1/12/2021	20	311	460	435
1/12/2021	21	306	460	435
1/12/2021	22	294	460	435
1/12/2021	23	281	460	435
1/12/2021	24	271	460	435
1/13/2021	1	270	460	365
1/13/2021	2	262	460	365
1/13/2021	3	255	460	365
1/13/2021	4	251	460	365
1/13/2021	5	251	460	365
1/13/2021	6	257	460	365
1/13/2021	7	265	460	365
1/13/2021	8	280	460	365
1/13/2021	9	307	460	365
1/13/2021	10	326	460	382
1/13/2021	11	341	460	382
1/13/2021	12	335	460	382
1/13/2021	13	334	460	382
1/13/2021	14	344	460	382
1/13/2021	15	343	460	382
1/13/2021	16	336	460	382
1/13/2021	17	317	460	365
1/13/2021	18	324	460	382
1/13/2021	19	322	460	382
1/13/2021	20	314	460	382
1/13/2021	21	309	460	365
1/13/2021	22	306	460	365
1/13/2021	23	293	460	365
1/13/2021	24	282	460	365
1/14/2021	1	275	460	365
1/14/2021	2	265	460	365
1/14/2021	3	258	460	365
1/14/2021	4	256	460	365
1/14/2021	5	256	460	365
1/14/2021	6	259	460	365
1/14/2021	7	270	460	365
1/14/2021	8	288	460	365
1/14/2021	9	312	460	382
1/14/2021	10	330	460	382
1/14/2021	11	337	460	382
1/14/2021	12	329	460	382
1/14/2021	13	328	460	382
1/14/2021	14	338	460	382
1/14/2021	15	334	460	382
1/14/2021	16	329	460	382
1/14/2021	17	314	460	382
1/14/2021	18	320	460	382
1/14/2021	19	320	460	382

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/14/2021	20	312	460	382
1/14/2021	21	305	460	382
1/14/2021	22	302	460	365
1/14/2021	23	291	460	365
1/14/2021	24	273	460	365
1/15/2021	1	275	460	365
1/15/2021	2	265	460	365
1/15/2021	3	258	460	365
1/15/2021	4	256	460	365
1/15/2021	5	256	460	365
1/15/2021	6	259	460	365
1/15/2021	7	270	460	365
1/15/2021	8	288	460	365
1/15/2021	9	312	460	382
1/15/2021	10	330	460	382
1/15/2021	11	337	460	382
1/15/2021	12	329	460	382
1/15/2021	13	328	460	382
1/15/2021	14	338	460	382
1/15/2021	15	334	460	382
1/15/2021	16	329	460	382
1/15/2021	17	314	460	382
1/15/2021	18	320	460	382
1/15/2021	19	320	460	382
1/15/2021	20	312	460	382
1/15/2021	21	305	460	382
1/15/2021	22	302	460	365
1/15/2021	23	291	460	365
1/15/2021	24	273	460	365
1/16/2021	1	269	435	352
1/16/2021	2	251	435	352
1/16/2021	3	242	435	352
1/16/2021	4	237	435	346
1/16/2021	5	236	435	344
1/16/2021	6	240	435	352
1/16/2021	7	243	435	344
1/16/2021	8	257	435	352
1/16/2021	9	274	435	344
1/16/2021	10	293	435	352
1/16/2021	11	304	435	420
1/16/2021	12	302	435	420
1/16/2021	13	300	435	420
1/16/2021	14	304	435	420
1/16/2021	15	299	435	420
1/16/2021	16	293	435	420
1/16/2021	17	288	435	420
1/16/2021	18	306	435	420
1/16/2021	19	307	435	420
1/16/2021	20	301	435	420
1/16/2021	21	291	435	420
1/16/2021	22	284	435	420
1/16/2021	23	274	435	420
1/16/2021	24	261	435	420
1/17/2021	1	275	460	435
1/17/2021	2	264	460	435
1/17/2021	3	255	460	435
1/17/2021	4	246	435	420
1/17/2021	5	241	435	420
1/17/2021	6	237	435	420
1/17/2021	7	232	435	350
1/17/2021	8	239	435	352
1/17/2021	9	248	435	352
1/17/2021	10	263	460	435
1/17/2021	11	276	460	435
1/17/2021	12	276	460	435

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/17/2021	13	278	460	435
1/17/2021	14	283	460	435
1/17/2021	15	281	460	435
1/17/2021	16	276	460	435
1/17/2021	17	268	460	435
1/17/2021	18	291	460	435
1/17/2021	19	288	460	435
1/17/2021	20	279	460	435
1/17/2021	21	271	460	435
1/17/2021	22	267	460	435
1/17/2021	23	258	460	435
1/17/2021	24	250	460	435
1/18/2021	1	255	435	420
1/18/2021	2	248	435	420
1/18/2021	3	240	435	420
1/18/2021	4	237	435	420
1/18/2021	5	238	435	420
1/18/2021	6	242	435	420
1/18/2021	7	248	435	350
1/18/2021	8	276	435	352
1/18/2021	9	299	435	352
1/18/2021	10	315	460	435
1/18/2021	11	328	460	435
1/18/2021	12	325	460	435
1/18/2021	13	320	460	435
1/18/2021	14	329	460	435
1/18/2021	15	325	460	435
1/18/2021	16	321	460	435
1/18/2021	17	306	460	435
1/18/2021	18	318	460	435
1/18/2021	19	314	460	435
1/18/2021	20	307	460	435
1/18/2021	21	302	460	435
1/18/2021	22	290	460	435
1/18/2021	23	277	460	435
1/18/2021	24	267	460	435
1/19/2021	1	262	435	420
1/19/2021	2	249	435	420
1/19/2021	3	241	435	420
1/19/2021	4	240	435	420
1/19/2021	5	241	435	420
1/19/2021	6	249	435	420
1/19/2021	7	260	435	352
1/19/2021	8	287	435	352
1/19/2021	9	310	435	352
1/19/2021	10	324	460	435
1/19/2021	11	337	460	435
1/19/2021	12	330	460	435
1/19/2021	13	326	460	435
1/19/2021	14	335	460	435
1/19/2021	15	332	460	435
1/19/2021	16	327	435	420
1/19/2021	17	313	435	420
1/19/2021	18	321	435	420
1/19/2021	19	318	435	420
1/19/2021	20	309	435	420
1/19/2021	21	301	435	420
1/19/2021	22	291	435	420
1/19/2021	23	275	435	420
1/19/2021	24	260	435	420
1/20/2021	1	261	435	420
1/20/2021	2	252	435	420
1/20/2021	3	246	435	420
1/20/2021	4	240	435	420
1/20/2021	5	245	435	420

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/20/2021	6	252	435	420
1/20/2021	7	256	435	352
1/20/2021	8	282	435	352
1/20/2021	9	307	435	352
1/20/2021	10	326	460	435
1/20/2021	11	338	460	435
1/20/2021	12	332	460	435
1/20/2021	13	332	460	435
1/20/2021	14	340	460	435
1/20/2021	15	339	460	435
1/20/2021	16	332	435	420
1/20/2021	17	318	435	420
1/20/2021	18	325	435	420
1/20/2021	19	323	435	420
1/20/2021	20	317	435	420
1/20/2021	21	311	435	420
1/20/2021	22	298	435	420
1/20/2021	23	286	435	420
1/20/2021	24	273	435	420
1/21/2021	1	271	420	420
1/21/2021	2	263	420	420
1/21/2021	3	257	420	380
1/21/2021	4	254	420	350
1/21/2021	5	256	420	352
1/21/2021	6	264	420	420
1/21/2021	7	283	420	352
1/21/2021	8	302	435	352
1/21/2021	9	328	435	382
1/21/2021	10	347	435	382
1/21/2021	11	359	435	420
1/21/2021	12	350	435	420
1/21/2021	13	349	435	420
1/21/2021	14	360	435	420
1/21/2021	15	358	435	420
1/21/2021	16	358	435	420
1/21/2021	17	339	435	420
1/21/2021	18	345	435	420
1/21/2021	19	345	435	420
1/21/2021	20	336	435	420
1/21/2021	21	327	435	420
1/21/2021	22	316	435	420
1/21/2021	23	308	435	420
1/21/2021	24	294	435	420
1/22/2021	1	273	435	420
1/22/2021	2	267	435	420
1/22/2021	3	260	435	420
1/22/2021	4	257	435	420
1/22/2021	5	259	435	420
1/22/2021	6	264	435	420
1/22/2021	7	271	435	420
1/22/2021	8	300	435	420
1/22/2021	9	324	435	420
1/22/2021	10	342	435	420
1/22/2021	11	351	435	420
1/22/2021	12	341	435	420
1/22/2021	13	341	435	420
1/22/2021	14	351	435	420
1/22/2021	15	347	435	420
1/22/2021	16	342	435	420
1/22/2021	17	326	435	420
1/22/2021	18	332	435	420
1/22/2021	19	331	435	420
1/22/2021	20	324	435	420
1/22/2021	21	316	435	420
1/22/2021	22	306	435	420

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/22/2021	23	295	435	420
1/22/2021	24	283	435	420
1/23/2021	1	279	435	420
1/23/2021	2	270	435	420
1/23/2021	3	262	435	420
1/23/2021	4	258	435	420
1/23/2021	5	257	435	420
1/23/2021	6	260	435	420
1/23/2021	7	260	435	420
1/23/2021	8	284	435	420
1/23/2021	9	303	435	420
1/23/2021	10	318	435	420
1/23/2021	11	329	435	420
1/23/2021	12	319	435	420
1/23/2021	13	317	435	420
1/23/2021	14	323	435	420
1/23/2021	15	319	435	420
1/23/2021	16	313	435	420
1/23/2021	17	303	435	420
1/23/2021	18	319	435	420
1/23/2021	19	319	435	420
1/23/2021	20	313	435	420
1/23/2021	21	307	435	420
1/23/2021	22	300	435	420
1/23/2021	23	289	435	420
1/23/2021	24	280	435	420
1/24/2021	1	262	435	420
1/24/2021	2	254	435	420
1/24/2021	3	244	435	420
1/24/2021	4	238	435	420
1/24/2021	5	236	435	420
1/24/2021	6	239	435	420
1/24/2021	7	241	435	420
1/24/2021	8	248	435	420
1/24/2021	9	267	435	420
1/24/2021	10	284	435	420
1/24/2021	11	291	435	420
1/24/2021	12	288	435	420
1/24/2021	13	284	435	420
1/24/2021	14	292	435	420
1/24/2021	15	287	435	420
1/24/2021	16	274	435	420
1/24/2021	17	280	435	420
1/24/2021	18	305	435	420
1/24/2021	19	306	435	420
1/24/2021	20	298	435	420
1/24/2021	21	291	435	420
1/24/2021	22	280	435	420
1/24/2021	23	267	435	420
1/24/2021	24	256	435	420
1/25/2021	1	259	435	420
1/25/2021	2	251	435	420
1/25/2021	3	245	435	420
1/25/2021	4	242	435	420
1/25/2021	5	244	435	420
1/25/2021	6	252	435	420
1/25/2021	7	271	435	420
1/25/2021	8	290	435	420
1/25/2021	9	335	435	420
1/25/2021	10	354	435	420
1/25/2021	11	366	435	420
1/25/2021	12	357	435	420
1/25/2021	13	356	435	420
1/25/2021	14	367	435	420
1/25/2021	15	366	435	420

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/25/2021	16	365	435	420
1/25/2021	17	346	435	420
1/25/2021	18	352	435	420
1/25/2021	19	352	435	420
1/25/2021	20	343	435	420
1/25/2021	21	334	435	420
1/25/2021	22	323	435	420
1/25/2021	23	315	435	420
1/25/2021	24	301	435	420
1/26/2021	1	283	435	420
1/26/2021	2	274	435	420
1/26/2021	3	268	435	420
1/26/2021	4	264	435	420
1/26/2021	5	268	435	420
1/26/2021	6	276	435	420
1/26/2021	7	276	435	420
1/26/2021	8	315	435	420
1/26/2021	9	337	435	420
1/26/2021	10	354	435	420
1/26/2021	11	361	435	420
1/26/2021	12	352	435	420
1/26/2021	13	350	435	420
1/26/2021	14	361	435	420
1/26/2021	15	359	435	420
1/26/2021	16	356	435	420
1/26/2021	17	342	435	420
1/26/2021	18	347	435	420
1/26/2021	19	347	435	420
1/26/2021	20	335	435	420
1/26/2021	21	331	435	420
1/26/2021	22	319	435	420
1/26/2021	23	306	435	420
1/26/2021	24	294	435	420
1/27/2021	1	281	435	420
1/27/2021	2	274	435	420
1/27/2021	3	267	435	420
1/27/2021	4	264	435	420
1/27/2021	5	266	435	420
1/27/2021	6	275	435	420
1/27/2021	7	285	435	420
1/27/2021	8	313	435	420
1/27/2021	9	337	435	420
1/27/2021	10	357	435	420
1/27/2021	11	371	435	420
1/27/2021	12	363	435	420
1/27/2021	13	361	435	420
1/27/2021	14	372	435	420
1/27/2021	15	371	435	420
1/27/2021	16	368	435	420
1/27/2021	17	352	435	420
1/27/2021	18	358	450	435
1/27/2021	19	357	450	435
1/27/2021	20	349	546	435
1/27/2021	21	342	590	435
1/27/2021	22	331	647	435
1/27/2021	23	320	544	435
1/27/2021	24	307	504	435
1/28/2021	1	281	435	420
1/28/2021	2	274	435	420
1/28/2021	3	267	435	420
1/28/2021	4	264	435	420
1/28/2021	5	266	435	420
1/28/2021	6	275	435	420
1/28/2021	7	285	435	420
1/28/2021	8	313	435	420

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/28/2021	9	337	435	420
1/28/2021	10	357	435	420
1/28/2021	11	371	435	420
1/28/2021	12	363	435	420
1/28/2021	13	361	435	420
1/28/2021	14	372	435	420
1/28/2021	15	371	435	420
1/28/2021	16	368	435	420
1/28/2021	17	352	435	420
1/28/2021	18	358	450	435
1/28/2021	19	357	450	435
1/28/2021	20	349	546	435
1/28/2021	21	342	590	435
1/28/2021	22	331	647	435
1/28/2021	23	320	544	435
1/28/2021	24	307	504	435
1/29/2021	1	278	550	435
1/29/2021	2	270	450	435
1/29/2021	3	258	440	435
1/29/2021	4	253	435	420
1/29/2021	5	254	435	430
1/29/2021	6	260	450	435
1/29/2021	7	276	450	435
1/29/2021	8	304	452	435
1/29/2021	9	331	505	435
1/29/2021	10	345	647	435
1/29/2021	11	356	647	435
1/29/2021	12	348	622	435
1/29/2021	13	347	647	435
1/29/2021	14	359	647	435
1/29/2021	15	360	647	435
1/29/2021	16	357	647	435
1/29/2021	17	340	590	435
1/29/2021	18	341	540	435
1/29/2021	19	346	540	435
1/29/2021	20	342	614	435
1/29/2021	21	331	626	435
1/29/2021	22	322	611	435
1/29/2021	23	310	493	435
1/29/2021	24	299	480	435
1/30/2021	1	265	450	435
1/30/2021	2	258	441	435
1/30/2021	3	250	440	435
1/30/2021	4	246	435	420
1/30/2021	5	245	435	428
1/30/2021	6	247	453	435
1/30/2021	7	252	450	435
1/30/2021	8	269	452	435
1/30/2021	9	286	550	435
1/30/2021	10	302	595	435
1/30/2021	11	311	647	435
1/30/2021	12	304	647	435
1/30/2021	13	302	528	435
1/30/2021	14	307	528	435
1/30/2021	15	302	477	435
1/30/2021	16	297	450	435
1/30/2021	17	287	435	420
1/30/2021	18	301	520	435
1/30/2021	19	302	550	435
1/30/2021	20	295	510	435
1/30/2021	21	288	504	435
1/30/2021	22	281	500	435
1/30/2021	23	270	476	435
1/30/2021	24	260	455	435
1/31/2021	1	262	550	435

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/31/2021	2	254	450	435
1/31/2021	3	244	440	435
1/31/2021	4	238	435	420
1/31/2021	5	235	435	420
1/31/2021	6	239	450	435
1/31/2021	7	241	450	435
1/31/2021	8	248	452	435
1/31/2021	9	266	460	435
1/31/2021	10	283	520	435
1/31/2021	11	290	550	435
1/31/2021	12	286	530	435
1/31/2021	13	282	480	435
1/31/2021	14	290	550	435
1/31/2021	15	285	520	435
1/31/2021	16	272	500	435
1/31/2021	17	278	480	435
1/31/2021	18	303	569	435
1/31/2021	19	304	557	435
1/31/2021	20	296	528	435
1/31/2021	21	289	500	435
1/31/2021	22	278	500	435
1/31/2021	23	265	500	435
1/31/2021	24	255	457	435
2/1/2021	1	259	520	435
2/1/2021	2	251	450	435
2/1/2021	3	245	440	435
2/1/2021	4	242	435	420
2/1/2021	5	244	435	400
2/1/2021	6	252	450	435
2/1/2021	7	271	450	435
2/1/2021	8	290	460	452
2/1/2021	9	323	460	460
2/1/2021	10	341	551	460
2/1/2021	11	349	550	460
2/1/2021	12	340	530	460
2/1/2021	13	340	480	460
2/1/2021	14	350	550	460
2/1/2021	15	346	520	460
2/1/2021	16	341	500	460
2/1/2021	17	325	480	460
2/1/2021	18	331	569	460
2/1/2021	19	330	557	460
2/1/2021	20	323	528	460
2/1/2021	21	314	500	460
2/1/2021	22	305	500	460
2/1/2021	23	294	500	460
2/1/2021	24	282	460	457
2/2/2021	1	285	568	435
2/2/2021	2	272	530	435
2/2/2021	3	263	480	435
2/2/2021	4	259	435	400
2/2/2021	5	260	435	431
2/2/2021	6	266	439	435
2/2/2021	7	269	450	435
2/2/2021	8	293	500	435
2/2/2021	9	318	520	435
2/2/2021	10	339	580	460
2/2/2021	11	351	647	460
2/2/2021	12	342	617	460
2/2/2021	13	338	500	460
2/2/2021	14	352	647	460
2/2/2021	15	348	647	460
2/2/2021	16	343	580	460
2/2/2021	17	329	550	460
2/2/2021	18	329	540	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/2/2021	19	332	601	460
2/2/2021	20	324	580	460
2/2/2021	21	318	550	460
2/2/2021	22	306	540	460
2/2/2021	23	294	500	460
2/2/2021	24	292	470	460
2/3/2021	1	265	560	435
2/3/2021	2	254	520	435
2/3/2021	3	246	435	400
2/3/2021	4	242	435	380
2/3/2021	5	242	435	374
2/3/2021	6	248	435	420
2/3/2021	7	260	440	435
2/3/2021	8	292	500	435
2/3/2021	9	320	520	460
2/3/2021	10	342	568	460
2/3/2021	11	356	647	460
2/3/2021	12	349	610	460
2/3/2021	13	348	647	460
2/3/2021	14	359	647	460
2/3/2021	15	358	647	460
2/3/2021	16	351	647	460
2/3/2021	17	331	480	460
2/3/2021	18	338	561	460
2/3/2021	19	336	553	460
2/3/2021	20	328	531	460
2/3/2021	21	322	550	460
2/3/2021	22	313	540	460
2/3/2021	23	294	500	460
2/3/2021	24	283	460	450
2/4/2021	1	268	550	435
2/4/2021	2	260	450	435
2/4/2021	3	255	435	380
2/4/2021	4	252	435	351
2/4/2021	5	257	435	350
2/4/2021	6	267	435	431
2/4/2021	7	279	435	431
2/4/2021	8	302	500	435
2/4/2021	9	328	561	460
2/4/2021	10	346	647	460
2/4/2021	11	359	647	460
2/4/2021	12	350	647	460
2/4/2021	13	348	603	460
2/4/2021	14	360	647	460
2/4/2021	15	358	647	460
2/4/2021	16	357	647	460
2/4/2021	17	341	480	460
2/4/2021	18	344	561	460
2/4/2021	19	346	535	460
2/4/2021	20	337	531	460
2/4/2021	21	329	550	460
2/4/2021	22	316	540	460
2/4/2021	23	304	500	460
2/4/2021	24	290	460	450
2/5/2021	1	282	550	435
2/5/2021	2	268	450	435
2/5/2021	3	261	440	435
2/5/2021	4	256	435	420
2/5/2021	5	257	435	430
2/5/2021	6	265	450	435
2/5/2021	7	273	450	435
2/5/2021	8	292	452	435
2/5/2021	9	316	535	460
2/5/2021	10	332	647	460
2/5/2021	11	342	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/5/2021	12	333	647	460
2/5/2021	13	330	647	460
2/5/2021	14	340	647	460
2/5/2021	15	338	647	460
2/5/2021	16	334	647	460
2/5/2021	17	317	550	460
2/5/2021	18	320	540	460
2/5/2021	19	322	530	460
2/5/2021	20	316	520	460
2/5/2021	21	307	520	460
2/5/2021	22	296	510	460
2/5/2021	23	290	480	460
2/5/2021	24	286	470	460
2/6/2021	1	272	568	435
2/6/2021	2	265	472	435
2/6/2021	3	256	436	435
2/6/2021	4	252	438	420
2/6/2021	5	251	420	420
2/6/2021	6	254	420	420
2/6/2021	7	258	490	435
2/6/2021	8	276	483	435
2/6/2021	9	293	575	460
2/6/2021	10	309	647	460
2/6/2021	11	319	647	460
2/6/2021	12	312	601	460
2/6/2021	13	309	631	460
2/6/2021	14	315	602	460
2/6/2021	15	310	564	460
2/6/2021	16	305	500	460
2/6/2021	17	295	477	460
2/6/2021	18	309	575	460
2/6/2021	19	310	647	460
2/6/2021	20	302	525	460
2/6/2021	21	295	524	460
2/6/2021	22	288	500	460
2/6/2021	23	277	480	460
2/6/2021	24	267	520	460
2/7/2021	1	261	560	435
2/7/2021	2	254	510	435
2/7/2021	3	244	480	435
2/7/2021	4	238	450	435
2/7/2021	5	236	440	435
2/7/2021	6	239	473	435
2/7/2021	7	241	450	435
2/7/2021	8	248	452	435
2/7/2021	9	266	446	435
2/7/2021	10	283	550	460
2/7/2021	11	290	580	460
2/7/2021	12	287	540	460
2/7/2021	13	283	550	460
2/7/2021	14	291	590	460
2/7/2021	15	286	580	460
2/7/2021	16	273	520	460
2/7/2021	17	279	526	460
2/7/2021	18	304	647	460
2/7/2021	19	305	647	460
2/7/2021	20	296	550	460
2/7/2021	21	290	520	460
2/7/2021	22	278	510	460
2/7/2021	23	265	460	460
2/7/2021	24	255	460	440
2/8/2021	1	257	552	435
2/8/2021	2	250	510	435
2/8/2021	3	244	480	435
2/8/2021	4	240	450	435

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/8/2021	5	244	440	435
2/8/2021	6	252	435	428
2/8/2021	7	271	450	435
2/8/2021	8	290	452	435
2/8/2021	9	317	446	435
2/8/2021	10	335	550	460
2/8/2021	11	343	580	460
2/8/2021	12	334	540	460
2/8/2021	13	334	550	460
2/8/2021	14	344	590	460
2/8/2021	15	339	580	460
2/8/2021	16	335	520	460
2/8/2021	17	319	526	460
2/8/2021	18	325	550	460
2/8/2021	19	324	647	460
2/8/2021	20	317	550	460
2/8/2021	21	308	520	460
2/8/2021	22	299	510	460
2/8/2021	23	288	460	460
2/8/2021	24	276	460	440
2/9/2021	1	281	550	435
2/9/2021	2	263	500	435
2/9/2021	3	256	480	435
2/9/2021	4	253	440	435
2/9/2021	5	255	450	435
2/9/2021	6	263	480	435
2/9/2021	7	277	530	435
2/9/2021	8	302	540	435
2/9/2021	9	326	554	435
2/9/2021	10	345	647	460
2/9/2021	11	358	647	460
2/9/2021	12	349	569	460
2/9/2021	13	346	550	460
2/9/2021	14	358	647	460
2/9/2021	15	355	647	460
2/9/2021	16	351	603	460
2/9/2021	17	336	550	460
2/9/2021	18	337	580	460
2/9/2021	19	340	591	460
2/9/2021	20	329	550	460
2/9/2021	21	323	520	460
2/9/2021	22	310	510	460
2/9/2021	23	298	460	460
2/9/2021	24	283	460	450
2/10/2021	1	281	550	435
2/10/2021	2	263	500	435
2/10/2021	3	256	480	435
2/10/2021	4	253	440	435
2/10/2021	5	255	450	435
2/10/2021	6	263	480	435
2/10/2021	7	277	530	435
2/10/2021	8	302	540	435
2/10/2021	9	326	554	435
2/10/2021	10	345	647	460
2/10/2021	11	358	647	460
2/10/2021	12	349	569	460
2/10/2021	13	346	550	460
2/10/2021	14	358	647	460
2/10/2021	15	355	647	460
2/10/2021	16	351	603	460
2/10/2021	17	336	550	460
2/10/2021	18	337	580	460
2/10/2021	19	340	591	460
2/10/2021	20	329	550	460
2/10/2021	21	323	520	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/10/2021	22	310	510	460
2/10/2021	23	298	460	460
2/10/2021	24	283	460	450
2/11/2021	1	273	580	435
2/11/2021	2	264	520	435
2/11/2021	3	258	470	435
2/11/2021	4	254	435	420
2/11/2021	5	254	470	435
2/11/2021	6	261	480	435
2/11/2021	7	273	510	435
2/11/2021	8	297	537	435
2/11/2021	9	322	556	435
2/11/2021	10	340	570	460
2/11/2021	11	353	647	460
2/11/2021	12	344	529	460
2/11/2021	13	343	550	460
2/11/2021	14	355	647	460
2/11/2021	15	351	647	460
2/11/2021	16	345	647	460
2/11/2021	17	328	550	460
2/11/2021	18	330	580	460
2/11/2021	19	332	621	460
2/11/2021	20	324	550	460
2/11/2021	21	317	520	460
2/11/2021	22	306	532	460
2/11/2021	23	295	500	460
2/11/2021	24	284	460	450
2/12/2021	1	296	647	460
2/12/2021	2	285	590	460
2/12/2021	3	274	542	460
2/12/2021	4	269	524	435
2/12/2021	5	256	480	435
2/12/2021	6	251	450	435
2/12/2021	7	257	500	435
2/12/2021	8	274	530	435
2/12/2021	9	294	540	460
2/12/2021	10	319	560	460
2/12/2021	11	331	590	460
2/12/2021	12	325	529	460
2/12/2021	13	324	550	460
2/12/2021	14	332	647	460
2/12/2021	15	326	647	460
2/12/2021	16	323	647	460
2/12/2021	17	322	550	460
2/12/2021	18	336	645	460
2/12/2021	19	344	647	460
2/12/2021	20	337	647	460
2/12/2021	21	325	590	460
2/12/2021	22	315	570	460
2/12/2021	23	309	550	460
2/12/2021	24	299	500	460
2/13/2021	1	277	521	435
2/13/2021	2	271	435	420
2/13/2021	3	265	435	420
2/13/2021	4	260	435	420
2/13/2021	5	260	435	420
2/13/2021	6	264	435	420
2/13/2021	7	267	456	435
2/13/2021	8	282	521	435
2/13/2021	9	302	580	435
2/13/2021	10	318	637	460
2/13/2021	11	328	647	460
2/13/2021	12	319	647	435
2/13/2021	13	320	647	435
2/13/2021	14	327	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/13/2021	15	326	647	460
2/13/2021	16	319	647	435
2/13/2021	17	307	546	435
2/13/2021	18	318	580	435
2/13/2021	19	329	647	460
2/13/2021	20	324	647	460
2/13/2021	21	319	647	460
2/13/2021	22	309	580	460
2/13/2021	23	297	556	435
2/13/2021	24	289	520	435
2/14/2021	1	264	456	435
2/14/2021	2	255	435	420
2/14/2021	3	248	435	420
2/14/2021	4	241	435	420
2/14/2021	5	240	435	420
2/14/2021	6	239	435	420
2/14/2021	7	236	435	420
2/14/2021	8	242	435	328
2/14/2021	9	255	435	410
2/14/2021	10	275	517	435
2/14/2021	11	287	647	435
2/14/2021	12	283	517	435
2/14/2021	13	285	586	435
2/14/2021	14	288	647	435
2/14/2021	15	283	647	435
2/14/2021	16	283	542	435
2/14/2021	17	277	456	435
2/14/2021	18	286	516	455
2/14/2021	19	306	647	460
2/14/2021	20	301	647	438
2/14/2021	21	296	647	460
2/14/2021	22	290	647	460
2/14/2021	23	280	516	435
2/14/2021	24	266	456	435
2/15/2021	1	263	579	435
2/15/2021	2	252	550	435
2/15/2021	3	246	520	435
2/15/2021	4	244	500	435
2/15/2021	5	246	480	435
2/15/2021	6	254	450	435
2/15/2021	7	271	480	435
2/15/2021	8	290	530	460
2/15/2021	9	320	540	460
2/15/2021	10	338	565	460
2/15/2021	11	346	647	460
2/15/2021	12	337	529	460
2/15/2021	13	336	550	460
2/15/2021	14	347	647	460
2/15/2021	15	342	647	460
2/15/2021	16	337	588	460
2/15/2021	17	321	550	460
2/15/2021	18	327	645	460
2/15/2021	19	327	647	460
2/15/2021	20	319	647	460
2/15/2021	21	311	590	460
2/15/2021	22	301	560	460
2/15/2021	23	290	540	460
2/15/2021	24	279	480	460
2/16/2021	1	273	565	435
2/16/2021	2	267	540	435
2/16/2021	3	261	520	435
2/16/2021	4	256	435	420
2/16/2021	5	261	476	435
2/16/2021	6	266	470	435
2/16/2021	7	271	480	435

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/16/2021	8	298	549	435
2/16/2021	9	321	560	460
2/16/2021	10	338	580	460
2/16/2021	11	352	590	460
2/16/2021	12	343	529	460
2/16/2021	13	343	550	460
2/16/2021	14	352	590	460
2/16/2021	15	349	632	460
2/16/2021	16	343	568	460
2/16/2021	17	329	541	460
2/16/2021	18	329	540	460
2/16/2021	19	332	550	460
2/16/2021	20	323	520	460
2/16/2021	21	316	523	460
2/16/2021	22	306	510	460
2/16/2021	23	293	517	460
2/16/2021	24	280	460	450
2/17/2021	1	273	565	435
2/17/2021	2	267	540	435
2/17/2021	3	261	520	435
2/17/2021	4	256	435	420
2/17/2021	5	261	476	435
2/17/2021	6	266	470	435
2/17/2021	7	271	480	435
2/17/2021	8	298	549	435
2/17/2021	9	321	560	460
2/17/2021	10	338	580	460
2/17/2021	11	352	590	460
2/17/2021	12	343	529	460
2/17/2021	13	343	550	460
2/17/2021	14	352	590	460
2/17/2021	15	349	632	460
2/17/2021	16	343	568	460
2/17/2021	17	329	541	460
2/17/2021	18	329	540	460
2/17/2021	19	332	550	460
2/17/2021	20	323	520	460
2/17/2021	21	316	523	460
2/17/2021	22	306	510	460
2/17/2021	23	293	517	460
2/17/2021	24	280	460	450
2/18/2021	1	274	580	435
2/18/2021	2	268	550	435
2/18/2021	3	262	518	435
2/18/2021	4	256	440	435
2/18/2021	5	259	480	435
2/18/2021	6	265	510	435
2/18/2021	7	270	512	435
2/18/2021	8	301	550	435
2/18/2021	9	324	560	460
2/18/2021	10	344	580	460
2/18/2021	11	358	584	460
2/18/2021	12	353	547	460
2/18/2021	13	353	550	460
2/18/2021	14	363	595	460
2/18/2021	15	361	582	460
2/18/2021	16	357	563	460
2/18/2021	17	337	520	460
2/18/2021	18	330	511	460
2/18/2021	19	340	550	460
2/18/2021	20	329	537	460
2/18/2021	21	325	532	460
2/18/2021	22	313	500	460
2/18/2021	23	298	480	460
2/18/2021	24	288	460	450

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/19/2021	1	276	590	435
2/19/2021	2	268	560	435
2/19/2021	3	262	520	435
2/19/2021	4	259	460	435
2/19/2021	5	261	480	435
2/19/2021	6	269	500	435
2/19/2021	7	282	524	435
2/19/2021	8	306	550	435
2/19/2021	9	328	560	460
2/19/2021	10	347	566	460
2/19/2021	11	355	580	460
2/19/2021	12	346	550	460
2/19/2021	13	346	540	460
2/19/2021	14	357	590	460
2/19/2021	15	353	570	460
2/19/2021	16	348	563	460
2/19/2021	17	331	520	460
2/19/2021	18	332	511	460
2/19/2021	19	335	550	460
2/19/2021	20	326	520	460
2/19/2021	21	319	510	460
2/19/2021	22	310	501	460
2/19/2021	23	299	470	460
2/19/2021	24	288	460	440
2/20/2021	1	278	456	435
2/20/2021	2	263	456	435
2/20/2021	3	255	435	420
2/20/2021	4	250	435	420
2/20/2021	5	256	435	420
2/20/2021	6	263	435	420
2/20/2021	7	265	435	420
2/20/2021	8	274	456	435
2/20/2021	9	292	456	435
2/20/2021	10	310	456	435
2/20/2021	11	319	456	435
2/20/2021	12	312	456	435
2/20/2021	13	311	456	435
2/20/2021	14	315	456	435
2/20/2021	15	313	456	435
2/20/2021	16	307	456	435
2/20/2021	17	298	456	435
2/20/2021	18	310	456	435
2/20/2021	19	319	458	435
2/20/2021	20	313	535	435
2/20/2021	21	309	456	435
2/20/2021	22	299	503	435
2/20/2021	23	293	477	435
2/20/2021	24	284	456	435
2/21/2021	1	262	570	435
2/21/2021	2	254	550	435
2/21/2021	3	244	520	435
2/21/2021	4	238	450	435
2/21/2021	5	235	446	435
2/21/2021	6	238	470	435
2/21/2021	7	241	490	435
2/21/2021	8	248	500	435
2/21/2021	9	264	533	435
2/21/2021	10	281	543	435
2/21/2021	11	288	562	435
2/21/2021	12	285	540	435
2/21/2021	13	280	530	435
2/21/2021	14	288	590	435
2/21/2021	15	283	539	435
2/21/2021	16	270	468	435
2/21/2021	17	276	520	435

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/21/2021	18	301	550	460
2/21/2021	19	302	570	460
2/21/2021	20	294	540	460
2/21/2021	21	287	510	460
2/21/2021	22	276	500	460
2/21/2021	23	263	460	450
2/21/2021	24	253	460	435
2/22/2021	1	268	570	435
2/22/2021	2	260	550	435
2/22/2021	3	254	520	435
2/22/2021	4	251	435	420
2/22/2021	5	253	446	435
2/22/2021	6	261	470	435
2/22/2021	7	274	490	435
2/22/2021	8	306	514	435
2/22/2021	9	334	533	460
2/22/2021	10	353	603	460
2/22/2021	11	361	647	460
2/22/2021	12	352	540	460
2/22/2021	13	352	530	460
2/22/2021	14	362	642	460
2/22/2021	15	359	596	460
2/22/2021	16	354	570	460
2/22/2021	17	337	520	460
2/22/2021	18	338	565	460
2/22/2021	19	341	619	460
2/22/2021	20	332	540	460
2/22/2021	21	325	510	460
2/22/2021	22	316	500	460
2/22/2021	23	305	460	450
2/22/2021	24	294	460	435
2/23/2021	1	270	550	435
2/23/2021	2	263	530	435
2/23/2021	3	256	499	435
2/23/2021	4	253	435	420
2/23/2021	5	255	472	435
2/23/2021	6	262	503	435
2/23/2021	7	274	484	435
2/23/2021	8	297	514	435
2/23/2021	9	321	520	460
2/23/2021	10	339	536	460
2/23/2021	11	350	635	460
2/23/2021	12	341	465	460
2/23/2021	13	340	460	450
2/23/2021	14	350	647	460
2/23/2021	15	348	647	460
2/23/2021	16	345	606	460
2/23/2021	17	330	565	460
2/23/2021	18	328	502	460
2/23/2021	19	332	591	460
2/23/2021	20	322	473	460
2/23/2021	21	315	472	460
2/23/2021	22	303	470	460
2/23/2021	23	292	460	450
2/23/2021	24	281	460	435
2/24/2021	1	273	520	435
2/24/2021	2	265	470	435
2/24/2021	3	258	450	435
2/24/2021	4	253	435	420
2/24/2021	5	254	440	435
2/24/2021	6	260	460	435
2/24/2021	7	274	440	435
2/24/2021	8	297	490	435
2/24/2021	9	324	500	460
2/24/2021	10	343	550	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/24/2021	11	360	580	460
2/24/2021	12	354	540	460
2/24/2021	13	353	530	460
2/24/2021	14	363	565	460
2/24/2021	15	359	507	460
2/24/2021	16	354	470	460
2/24/2021	17	337	460	440
2/24/2021	18	328	460	435
2/24/2021	19	339	470	460
2/24/2021	20	328	460	450
2/24/2021	21	323	460	440
2/24/2021	22	312	460	435
2/24/2021	23	300	460	435
2/24/2021	24	288	460	435
2/25/2021	1	286	587	435
2/25/2021	2	277	556	435
2/25/2021	3	270	520	435
2/25/2021	4	266	500	435
2/25/2021	5	267	510	435
2/25/2021	6	270	520	435
2/25/2021	7	277	530	435
2/25/2021	8	296	522	435
2/25/2021	9	306	550	435
2/25/2021	10	324	560	460
2/25/2021	11	338	580	460
2/25/2021	12	334	540	460
2/25/2021	13	333	530	460
2/25/2021	14	338	590	460
2/25/2021	15	337	563	460
2/25/2021	16	336	530	460
2/25/2021	17	332	500	460
2/25/2021	18	345	535	460
2/25/2021	19	346	520	460
2/25/2021	20	344	530	460
2/25/2021	21	338	540	460
2/25/2021	22	331	530	460
2/25/2021	23	314	500	460
2/25/2021	24	300	480	460
2/26/2021	1	269	587	435
2/26/2021	2	261	556	435
2/26/2021	3	254	520	435
2/26/2021	4	249	500	435
2/26/2021	5	250	510	435
2/26/2021	6	256	520	435
2/26/2021	7	270	530	435
2/26/2021	8	297	522	435
2/26/2021	9	322	550	460
2/26/2021	10	342	560	460
2/26/2021	11	359	629	460
2/26/2021	12	353	540	460
2/26/2021	13	351	530	460
2/26/2021	14	362	647	460
2/26/2021	15	358	600	460
2/26/2021	16	353	530	460
2/26/2021	17	335	520	460
2/26/2021	18	326	535	460
2/26/2021	19	337	540	460
2/26/2021	20	327	530	460
2/26/2021	21	321	540	460
2/26/2021	22	311	520	460
2/26/2021	23	298	490	460
2/26/2021	24	287	470	460
2/27/2021	1	279	570	435
2/27/2021	2	271	540	435
2/27/2021	3	264	520	435

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/27/2021	4	258	500	435
2/27/2021	5	258	510	435
2/27/2021	6	259	520	435
2/27/2021	7	264	530	435
2/27/2021	8	280	522	435
2/27/2021	9	298	520	460
2/27/2021	10	316	560	460
2/27/2021	11	325	590	460
2/27/2021	12	318	540	460
2/27/2021	13	317	520	460
2/27/2021	14	322	615	460
2/27/2021	15	319	598	460
2/27/2021	16	313	510	460
2/27/2021	17	304	517	460
2/27/2021	18	316	535	460
2/27/2021	19	325	540	460
2/27/2021	20	319	530	460
2/27/2021	21	314	540	460
2/27/2021	22	305	520	460
2/27/2021	23	293	490	460
2/27/2021	24	284	470	460
2/28/2021	1	251	422	420
2/28/2021	2	244	420	402
2/28/2021	3	237	420	419
2/28/2021	4	234	420	331
2/28/2021	5	235	420	330
2/28/2021	6	234	420	249
2/28/2021	7	237	420	293
2/28/2021	8	248	401	290
2/28/2021	9	259	427	290
2/28/2021	10	275	468	290
2/28/2021	11	287	480	420
2/28/2021	12	283	428	428
2/28/2021	13	282	432	429
2/28/2021	14	285	420	393
2/28/2021	15	284	445	420
2/28/2021	16	284	420	412
2/28/2021	17	283	445	420
2/28/2021	18	298	480	431
2/28/2021	19	317	524	435
2/28/2021	20	307	451	431
2/28/2021	21	299	458	432
2/28/2021	22	289	502	434
2/28/2021	23	277	433	420
2/28/2021	24	264	420	414
3/1/2021	1	270	570	420
3/1/2021	2	262	540	420
3/1/2021	3	255	520	420
3/1/2021	4	250	500	420
3/1/2021	5	250	510	420
3/1/2021	6	256	520	420
3/1/2021	7	271	530	420
3/1/2021	8	297	522	420
3/1/2021	9	322	520	460
3/1/2021	10	341	560	460
3/1/2021	11	358	647	460
3/1/2021	12	352	643	460
3/1/2021	13	351	557	460
3/1/2021	14	361	647	460
3/1/2021	15	358	647	460
3/1/2021	16	352	510	460
3/1/2021	17	335	517	460
3/1/2021	18	326	535	460
3/1/2021	19	337	540	460
3/1/2021	20	326	530	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/1/2021	21	321	540	460
3/1/2021	22	311	520	460
3/1/2021	23	298	490	460
3/1/2021	24	286	470	460
3/2/2021	1	292	590	460
3/2/2021	2	284	550	460
3/2/2021	3	276	530	460
3/2/2021	4	272	500	460
3/2/2021	5	276	510	460
3/2/2021	6	283	520	460
3/2/2021	7	293	530	460
3/2/2021	8	321	570	460
3/2/2021	9	349	647	460
3/2/2021	10	368	647	460
3/2/2021	11	381	647	460
3/2/2021	12	373	647	460
3/2/2021	13	372	647	460
3/2/2021	14	384	647	460
3/2/2021	15	381	647	460
3/2/2021	16	377	647	460
3/2/2021	17	360	647	460
3/2/2021	18	356	647	460
3/2/2021	19	363	647	460
3/2/2021	20	352	647	460
3/2/2021	21	345	647	460
3/2/2021	22	330	647	460
3/2/2021	23	317	550	460
3/2/2021	24	305	480	460
3/3/2021	1	298	590	460
3/3/2021	2	280	550	460
3/3/2021	3	272	530	460
3/3/2021	4	267	500	460
3/3/2021	5	269	510	460
3/3/2021	6	276	520	460
3/3/2021	7	290	530	460
3/3/2021	8	321	570	460
3/3/2021	9	351	647	460
3/3/2021	10	372	647	460
3/3/2021	11	387	647	460
3/3/2021	12	381	647	460
3/3/2021	13	382	647	460
3/3/2021	14	394	647	460
3/3/2021	15	390	647	460
3/3/2021	16	384	647	460
3/3/2021	17	364	647	460
3/3/2021	18	354	647	460
3/3/2021	19	365	647	460
3/3/2021	20	356	647	460
3/3/2021	21	351	647	460
3/3/2021	22	341	647	460
3/3/2021	23	328	647	460
3/3/2021	24	315	647	460
3/4/2021	1	314	647	460
3/4/2021	2	294	580	460
3/4/2021	3	287	550	460
3/4/2021	4	281	510	460
3/4/2021	5	284	530	460
3/4/2021	6	287	550	460
3/4/2021	7	297	560	460
3/4/2021	8	328	590	460
3/4/2021	9	353	647	460
3/4/2021	10	373	647	460
3/4/2021	11	387	647	460
3/4/2021	12	380	647	460
3/4/2021	13	379	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/4/2021	14	393	647	460
3/4/2021	15	392	647	460
3/4/2021	16	386	647	460
3/4/2021	17	363	647	460
3/4/2021	18	358	647	460
3/4/2021	19	369	647	460
3/4/2021	20	358	647	460
3/4/2021	21	351	647	460
3/4/2021	22	340	647	460
3/4/2021	23	327	647	460
3/4/2021	24	312	647	460
3/5/2021	1	296	460	420
3/5/2021	2	287	460	420
3/5/2021	3	279	460	420
3/5/2021	4	272	460	420
3/5/2021	5	271	460	420
3/5/2021	6	278	460	420
3/5/2021	7	284	460	420
3/5/2021	8	321	460	420
3/5/2021	9	350	460	420
3/5/2021	10	368	460	420
3/5/2021	11	381	460	420
3/5/2021	12	375	460	420
3/5/2021	13	374	460	420
3/5/2021	14	386	460	420
3/5/2021	15	379	460	420
3/5/2021	16	371	460	420
3/5/2021	17	350	460	420
3/5/2021	18	337	460	420
3/5/2021	19	354	460	420
3/5/2021	20	347	460	420
3/5/2021	21	343	460	420
3/5/2021	22	338	460	420
3/5/2021	23	325	460	420
3/5/2021	24	311	460	420
3/6/2021	1	312	590	460
3/6/2021	2	303	550	460
3/6/2021	3	294	520	460
3/6/2021	4	287	490	460
3/6/2021	5	284	460	460
3/6/2021	6	283	460	450
3/6/2021	7	286	460	460
3/6/2021	8	296	500	460
3/6/2021	9	319	510	460
3/6/2021	10	337	550	460
3/6/2021	11	352	570	460
3/6/2021	12	349	530	460
3/6/2021	13	352	540	460
3/6/2021	14	366	647	460
3/6/2021	15	363	590	460
3/6/2021	16	358	580	460
3/6/2021	17	342	520	460
3/6/2021	18	341	500	460
3/6/2021	19	359	647	460
3/6/2021	20	352	599	460
3/6/2021	21	349	531	460
3/6/2021	22	342	547	460
3/6/2021	23	331	550	460
3/6/2021	24	319	500	460
3/7/2021	1	299	556	460
3/7/2021	2	289	523	460
3/7/2021	3	282	537	460
3/7/2021	4	273	494	460
3/7/2021	5	270	460	431
3/7/2021	6	267	460	420

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/7/2021	7	260	460	420
3/7/2021	8	269	420	416
3/7/2021	9	285	435	420
3/7/2021	10	300	462	460
3/7/2021	11	314	497	460
3/7/2021	12	312	550	460
3/7/2021	13	311	460	449
3/7/2021	14	314	515	460
3/7/2021	15	316	574	460
3/7/2021	16	312	582	460
3/7/2021	17	304	582	460
3/7/2021	18	311	600	460
3/7/2021	19	335	629	460
3/7/2021	20	332	629	460
3/7/2021	21	328	632	460
3/7/2021	22	322	631	460
3/7/2021	23	313	638	460
3/7/2021	24	302	603	460
3/8/2021	1	288	580	460
3/8/2021	2	279	540	460
3/8/2021	3	271	520	460
3/8/2021	4	264	480	460
3/8/2021	5	263	460	450
3/8/2021	6	270	460	440
3/8/2021	7	276	460	460
3/8/2021	8	321	500	460
3/8/2021	9	354	590	460
3/8/2021	10	372	647	460
3/8/2021	11	385	647	460
3/8/2021	12	379	647	460
3/8/2021	13	378	647	460
3/8/2021	14	390	647	460
3/8/2021	15	383	647	460
3/8/2021	16	376	647	460
3/8/2021	17	354	506	460
3/8/2021	18	341	500	460
3/8/2021	19	358	616	460
3/8/2021	20	352	550	460
3/8/2021	21	348	530	460
3/8/2021	22	342	562	460
3/8/2021	23	329	572	460
3/8/2021	24	316	510	460
3/9/2021	1	293	647	460
3/9/2021	2	283	579	460
3/9/2021	3	277	520	460
3/9/2021	4	273	480	460
3/9/2021	5	273	460	450
3/9/2021	6	279	460	440
3/9/2021	7	291	460	460
3/9/2021	8	318	500	460
3/9/2021	9	340	590	460
3/9/2021	10	357	643	460
3/9/2021	11	374	647	460
3/9/2021	12	370	647	460
3/9/2021	13	373	647	460
3/9/2021	14	386	647	460
3/9/2021	15	387	647	460
3/9/2021	16	380	647	460
3/9/2021	17	355	647	460
3/9/2021	18	338	550	460
3/9/2021	19	354	647	460
3/9/2021	20	349	647	460
3/9/2021	21	345	647	460
3/9/2021	22	338	647	460
3/9/2021	23	327	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/9/2021	24	314	647	460
3/10/2021	1	299	590	460
3/10/2021	2	289	550	460
3/10/2021	3	280	520	460
3/10/2021	4	274	480	460
3/10/2021	5	275	460	440
3/10/2021	6	280	460	430
3/10/2021	7	281	460	450
3/10/2021	8	314	500	460
3/10/2021	9	344	550	460
3/10/2021	10	364	570	460
3/10/2021	11	376	580	460
3/10/2021	12	371	570	460
3/10/2021	13	371	580	460
3/10/2021	14	383	647	460
3/10/2021	15	380	647	460
3/10/2021	16	374	647	460
3/10/2021	17	354	550	460
3/10/2021	18	342	550	460
3/10/2021	19	354	560	460
3/10/2021	20	347	540	460
3/10/2021	21	343	530	460
3/10/2021	22	334	530	460
3/10/2021	23	321	520	460
3/10/2021	24	308	500	460
3/11/2021	1	295	570	460
3/11/2021	2	285	540	460
3/11/2021	3	276	520	460
3/11/2021	4	271	490	460
3/11/2021	5	271	460	450
3/11/2021	6	274	460	440
3/11/2021	7	275	470	460
3/11/2021	8	303	500	460
3/11/2021	9	327	550	460
3/11/2021	10	347	580	460
3/11/2021	11	361	647	460
3/11/2021	12	354	570	460
3/11/2021	13	338	519	460
3/11/2021	14	368	647	460
3/11/2021	15	366	647	460
3/11/2021	16	361	647	460
3/11/2021	17	343	520	460
3/11/2021	18	337	550	460
3/11/2021	19	351	560	460
3/11/2021	20	342	540	460
3/11/2021	21	337	530	460
3/11/2021	22	326	518	460
3/11/2021	23	313	510	460
3/11/2021	24	300	500	460
3/12/2021	1	295	570	460
3/12/2021	2	285	540	460
3/12/2021	3	276	520	460
3/12/2021	4	271	490	460
3/12/2021	5	271	460	450
3/12/2021	6	274	460	440
3/12/2021	7	275	470	460
3/12/2021	8	303	500	460
3/12/2021	9	327	550	460
3/12/2021	10	347	580	460
3/12/2021	11	361	647	460
3/12/2021	12	354	570	460
3/12/2021	13	338	519	460
3/12/2021	14	368	647	460
3/12/2021	15	366	647	460
3/12/2021	16	361	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/12/2021	17	343	520	460
3/12/2021	18	337	550	460
3/12/2021	19	351	560	460
3/12/2021	20	342	540	460
3/12/2021	21	337	530	460
3/12/2021	22	326	518	460
3/12/2021	23	313	510	460
3/12/2021	24	300	500	460
3/13/2021	1	308	590	460
3/13/2021	2	295	535	460
3/13/2021	3	285	508	460
3/13/2021	4	279	470	460
3/13/2021	5	276	460	440
3/13/2021	6	274	460	440
3/13/2021	7	273	460	450
3/13/2021	8	291	500	460
3/13/2021	9	312	570	460
3/13/2021	10	330	585	460
3/13/2021	11	343	647	460
3/13/2021	12	339	550	460
3/13/2021	13	342	580	460
3/13/2021	14	354	647	460
3/13/2021	15	352	647	460
3/13/2021	16	346	570	460
3/13/2021	17	331	520	460
3/13/2021	18	329	550	460
3/13/2021	19	347	647	460
3/13/2021	20	342	558	460
3/13/2021	21	339	540	460
3/13/2021	22	331	520	460
3/13/2021	23	320	530	460
3/13/2021	24	310	512	460
3/14/2021	1	292	643	460
3/14/2021	2	279	643	416
3/14/2021	3	273	487	416
3/14/2021	4	262	456	416
3/14/2021	5	256	416	405
3/14/2021	6	250	416	406
3/14/2021	7	247	456	416
3/14/2021	8	257	455	416
3/14/2021	9	271	455	416
3/14/2021	10	289	600	416
3/14/2021	11	300	639	416
3/14/2021	12	300	641	416
3/14/2021	13	302	633	430
3/14/2021	14	308	641	454
3/14/2021	15	307	637	455
3/14/2021	16	301	641	460
3/14/2021	17	291	643	421
3/14/2021	18	299	640	456
3/14/2021	19	320	640	460
3/14/2021	20	321	643	459
3/14/2021	21	317	640	460
3/14/2021	22	308	640	460
3/14/2021	23	298	645	459
3/14/2021	24	284	522	440
3/15/2021	1	284	580	460
3/15/2021	2	275	530	460
3/15/2021	3	266	510	460
3/15/2021	4	260	460	460
3/15/2021	5	258	460	420
3/15/2021	6	266	460	440
3/15/2021	7	272	460	450
3/15/2021	8	321	500	460
3/15/2021	9	350	570	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/15/2021	10	368	647	460
3/15/2021	11	381	647	460
3/15/2021	12	374	580	460
3/15/2021	13	374	580	460
3/15/2021	14	385	647	460
3/15/2021	15	379	647	460
3/15/2021	16	371	647	460
3/15/2021	17	350	520	460
3/15/2021	18	336	550	460
3/15/2021	19	354	647	460
3/15/2021	20	347	544	460
3/15/2021	21	343	530	460
3/15/2021	22	338	520	460
3/15/2021	23	325	530	460
3/15/2021	24	311	487	460
3/16/2021	1	294	590	455
3/16/2021	2	285	540	455
3/16/2021	3	276	520	455
3/16/2021	4	271	455	450
3/16/2021	5	271	455	420
3/16/2021	6	273	455	440
3/16/2021	7	285	455	450
3/16/2021	8	311	470	460
3/16/2021	9	339	500	460
3/16/2021	10	357	550	460
3/16/2021	11	371	570	460
3/16/2021	12	364	540	460
3/16/2021	13	366	550	460
3/16/2021	14	379	647	460
3/16/2021	15	378	647	460
3/16/2021	16	372	631	460
3/16/2021	17	349	460	455
3/16/2021	18	335	460	455
3/16/2021	19	350	520	460
3/16/2021	20	344	510	460
3/16/2021	21	340	500	460
3/16/2021	22	332	500	460
3/16/2021	23	320	460	460
3/16/2021	24	307	460	455
3/17/2021	1	307	602	460
3/17/2021	2	297	550	460
3/17/2021	3	289	520	455
3/17/2021	4	283	470	455
3/17/2021	5	283	455	420
3/17/2021	6	288	455	440
3/17/2021	7	301	455	450
3/17/2021	8	327	470	460
3/17/2021	9	357	483	460
3/17/2021	10	378	527	460
3/17/2021	11	393	566	460
3/17/2021	12	386	540	460
3/17/2021	13	386	550	460
3/17/2021	14	398	647	460
3/17/2021	15	394	647	460
3/17/2021	16	387	591	460
3/17/2021	17	365	460	460
3/17/2021	18	354	460	455
3/17/2021	19	367	520	460
3/17/2021	20	357	510	460
3/17/2021	21	355	500	460
3/17/2021	22	345	500	460
3/17/2021	23	331	490	460
3/17/2021	24	318	460	455
3/18/2021	1	326	602	460
3/18/2021	2	310	550	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/18/2021	3	300	520	455
3/18/2021	4	293	470	455
3/18/2021	5	292	455	420
3/18/2021	6	294	440	405
3/18/2021	7	301	450	400
3/18/2021	8	327	470	460
3/18/2021	9	355	514	460
3/18/2021	10	376	527	460
3/18/2021	11	392	647	460
3/18/2021	12	386	647	460
3/18/2021	13	386	647	460
3/18/2021	14	400	647	460
3/18/2021	15	398	647	460
3/18/2021	16	392	591	460
3/18/2021	17	371	495	460
3/18/2021	18	362	460	455
3/18/2021	19	381	647	460
3/18/2021	20	373	647	460
3/18/2021	21	370	647	460
3/18/2021	22	362	647	460
3/18/2021	23	348	490	460
3/18/2021	24	335	460	455
3/19/2021	1	323	647	455
3/19/2021	2	311	550	455
3/19/2021	3	303	520	455
3/19/2021	4	298	470	455
3/19/2021	5	297	455	445
3/19/2021	6	284	455	445
3/19/2021	7	295	455	450
3/19/2021	8	321	470	455
3/19/2021	9	362	580	455
3/19/2021	10	385	647	455
3/19/2021	11	396	647	455
3/19/2021	12	390	615	455
3/19/2021	13	390	647	455
3/19/2021	14	407	647	455
3/19/2021	15	401	647	455
3/19/2021	16	391	647	455
3/19/2021	17	370	580	455
3/19/2021	18	362	570	455
3/19/2021	19	377	647	455
3/19/2021	20	371	580	455
3/19/2021	21	368	565	455
3/19/2021	22	358	520	455
3/19/2021	23	347	500	455
3/19/2021	24	333	480	455
3/20/2021	1	329	647	460
3/20/2021	2	317	570	460
3/20/2021	3	310	540	460
3/20/2021	4	303	497	460
3/20/2021	5	299	460	455
3/20/2021	6	299	460	460
3/20/2021	7	304	490	460
3/20/2021	8	313	470	460
3/20/2021	9	319	490	460
3/20/2021	10	327	550	460
3/20/2021	11	341	570	460
3/20/2021	12	338	550	460
3/20/2021	13	341	540	460
3/20/2021	14	354	590	460
3/20/2021	15	352	550	460
3/20/2021	16	347	540	460
3/20/2021	17	331	520	460
3/20/2021	18	330	500	460
3/20/2021	19	348	550	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/20/2021	20	341	530	460
3/20/2021	21	338	500	460
3/20/2021	22	331	480	460
3/20/2021	23	321	479	460
3/20/2021	24	309	460	455
3/21/2021	1	314	590	460
3/21/2021	2	303	550	460
3/21/2021	3	295	520	460
3/21/2021	4	290	500	460
3/21/2021	5	289	480	460
3/21/2021	6	294	500	460
3/21/2021	7	301	500	460
3/21/2021	8	336	550	460
3/21/2021	9	365	560	460
3/21/2021	10	385	570	460
3/21/2021	11	399	647	460
3/21/2021	12	390	552	460
3/21/2021	13	393	647	460
3/21/2021	14	407	647	460
3/21/2021	15	407	647	460
3/21/2021	16	398	647	460
3/21/2021	17	375	553	460
3/21/2021	18	362	480	460
3/21/2021	19	377	550	460
3/21/2021	20	372	551	460
3/21/2021	21	369	570	460
3/21/2021	22	360	528	460
3/21/2021	23	348	555	460
3/21/2021	24	333	529	460
3/22/2021	1	284	590	460
3/22/2021	2	275	550	460
3/22/2021	3	267	520	460
3/22/2021	4	261	460	460
3/22/2021	5	259	460	455
3/22/2021	6	267	460	460
3/22/2021	7	272	490	460
3/22/2021	8	321	580	460
3/22/2021	9	358	647	460
3/22/2021	10	378	647	460
3/22/2021	11	395	647	460
3/22/2021	12	389	647	460
3/22/2021	13	389	647	460
3/22/2021	14	403	647	460
3/22/2021	15	401	647	460
3/22/2021	16	395	647	460
3/22/2021	17	373	647	460
3/22/2021	18	365	602	460
3/22/2021	19	383	647	460
3/22/2021	20	376	647	460
3/22/2021	21	373	647	460
3/22/2021	22	365	647	460
3/22/2021	23	351	647	460
3/22/2021	24	338	647	460
3/23/2021	1	314	590	460
3/23/2021	2	303	550	460
3/23/2021	3	295	520	460
3/23/2021	4	290	500	460
3/23/2021	5	289	480	460
3/23/2021	6	294	500	460
3/23/2021	7	301	500	460
3/23/2021	8	336	550	460
3/23/2021	9	365	560	460
3/23/2021	10	385	570	460
3/23/2021	11	399	647	460
3/23/2021	12	390	552	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/23/2021	13	393	647	460
3/23/2021	14	407	647	460
3/23/2021	15	407	647	460
3/23/2021	16	398	647	460
3/23/2021	17	375	553	460
3/23/2021	18	362	480	460
3/23/2021	19	377	550	460
3/23/2021	20	372	551	460
3/23/2021	21	369	570	460
3/23/2021	22	360	528	460
3/23/2021	23	348	555	460
3/23/2021	24	333	529	460
3/24/2021	1	314	580	460
3/24/2021	2	303	540	460
3/24/2021	3	294	510	455
3/24/2021	4	288	490	455
3/24/2021	5	287	470	455
3/24/2021	6	290	500	455
3/24/2021	7	292	500	455
3/24/2021	8	327	570	455
3/24/2021	9	357	603	455
3/24/2021	10	378	647	460
3/24/2021	11	391	647	460
3/24/2021	12	385	647	460
3/24/2021	13	388	647	460
3/24/2021	14	401	647	460
3/24/2021	15	398	647	460
3/24/2021	16	390	647	460
3/24/2021	17	367	647	460
3/24/2021	18	354	554	460
3/24/2021	19	369	545	460
3/24/2021	20	363	580	460
3/24/2021	21	362	615	460
3/24/2021	22	353	647	460
3/24/2021	23	339	647	460
3/24/2021	24	327	574	460
3/25/2021	1	325	647	460
3/25/2021	2	312	590	460
3/25/2021	3	301	550	460
3/25/2021	4	295	500	455
3/25/2021	5	295	526	455
3/25/2021	6	299	544	455
3/25/2021	7	299	550	455
3/25/2021	8	328	597	455
3/25/2021	9	359	608	455
3/25/2021	10	380	647	460
3/25/2021	11	396	647	460
3/25/2021	12	389	647	460
3/25/2021	13	389	647	460
3/25/2021	14	405	647	460
3/25/2021	15	403	647	460
3/25/2021	16	396	647	460
3/25/2021	17	374	647	460
3/25/2021	18	360	647	460
3/25/2021	19	375	647	460
3/25/2021	20	368	647	460
3/25/2021	21	366	647	460
3/25/2021	22	352	647	460
3/25/2021	23	338	647	460
3/25/2021	24	330	550	460
3/26/2021	1	310	580	460
3/26/2021	2	299	530	460
3/26/2021	3	290	510	460
3/26/2021	4	286	480	455
3/26/2021	5	285	490	455

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/26/2021	6	292	520	455
3/26/2021	7	297	512	455
3/26/2021	8	319	512	455
3/26/2021	9	342	550	455
3/26/2021	10	365	582	460
3/26/2021	11	372	647	460
3/26/2021	12	369	550	460
3/26/2021	13	368	580	460
3/26/2021	14	379	604	460
3/26/2021	15	375	580	460
3/26/2021	16	367	570	460
3/26/2021	17	350	560	460
3/26/2021	18	345	510	460
3/26/2021	19	358	560	460
3/26/2021	20	353	520	460
3/26/2021	21	350	560	460
3/26/2021	22	341	520	460
3/26/2021	23	330	576	460
3/26/2021	24	318	492	460
3/27/2021	1	311	600	460
3/27/2021	2	302	550	460
3/27/2021	3	291	510	460
3/27/2021	4	284	480	455
3/27/2021	5	280	490	455
3/27/2021	6	279	510	455
3/27/2021	7	271	484	455
3/27/2021	8	296	510	455
3/27/2021	9	319	530	455
3/27/2021	10	337	550	460
3/27/2021	11	350	553	460
3/27/2021	12	345	540	460
3/27/2021	13	348	530	460
3/27/2021	14	361	570	460
3/27/2021	15	360	569	460
3/27/2021	16	354	540	460
3/27/2021	17	337	510	460
3/27/2021	18	336	490	460
3/27/2021	19	354	604	460
3/27/2021	20	350	559	460
3/27/2021	21	347	520	460
3/27/2021	22	340	510	460
3/27/2021	23	329	550	460
3/27/2021	24	316	498	460
3/28/2021	1	312	616	460
3/28/2021	2	301	550	460
3/28/2021	3	290	510	460
3/28/2021	4	280	480	455
3/28/2021	5	276	490	455
3/28/2021	6	270	510	455
3/28/2021	7	266	484	455
3/28/2021	8	273	510	455
3/28/2021	9	289	530	455
3/28/2021	10	308	557	460
3/28/2021	11	319	553	460
3/28/2021	12	317	540	460
3/28/2021	13	323	534	460
3/28/2021	14	325	561	460
3/28/2021	15	321	569	460
3/28/2021	16	320	540	460
3/28/2021	17	310	510	460
3/28/2021	18	315	490	460
3/28/2021	19	337	647	460
3/28/2021	20	334	559	460
3/28/2021	21	334	563	460
3/28/2021	22	332	600	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/28/2021	23	322	550	460
3/28/2021	24	308	498	460
3/29/2021	1	284	570	460
3/29/2021	2	275	520	460
3/29/2021	3	266	500	460
3/29/2021	4	260	485	455
3/29/2021	5	258	460	455
3/29/2021	6	266	490	455
3/29/2021	7	272	456	455
3/29/2021	8	321	560	455
3/29/2021	9	342	647	455
3/29/2021	10	365	647	460
3/29/2021	11	377	647	460
3/29/2021	12	371	647	460
3/29/2021	13	375	647	460
3/29/2021	14	388	647	460
3/29/2021	15	386	647	460
3/29/2021	16	379	647	460
3/29/2021	17	356	550	460
3/29/2021	18	342	512	460
3/29/2021	19	357	647	460
3/29/2021	20	352	621	460
3/29/2021	21	351	520	460
3/29/2021	22	344	510	460
3/29/2021	23	332	629	460
3/29/2021	24	319	576	460
3/30/2021	1	302	580	460
3/30/2021	2	293	520	460
3/30/2021	3	284	500	460
3/30/2021	4	279	480	455
3/30/2021	5	279	470	455
3/30/2021	6	283	480	460
3/30/2021	7	288	460	455
3/30/2021	8	317	570	460
3/30/2021	9	350	647	460
3/30/2021	10	369	647	460
3/30/2021	11	379	647	460
3/30/2021	12	371	647	460
3/30/2021	13	371	647	460
3/30/2021	14	384	647	460
3/30/2021	15	381	647	460
3/30/2021	16	377	647	460
3/30/2021	17	356	647	460
3/30/2021	18	345	580	460
3/30/2021	19	359	647	460
3/30/2021	20	351	647	460
3/30/2021	21	348	625	460
3/30/2021	22	344	580	460
3/30/2021	23	334	550	460
3/30/2021	24	319	544	460
3/31/2021	1	299	570	460
3/31/2021	2	284	510	460
3/31/2021	3	276	500	455
3/31/2021	4	271	470	455
3/31/2021	5	270	455	450
3/31/2021	6	274	470	460
3/31/2021	7	276	471	460
3/31/2021	8	305	520	460
3/31/2021	9	334	540	460
3/31/2021	10	353	578	460
3/31/2021	11	365	647	460
3/31/2021	12	358	580	460
3/31/2021	13	359	572	460
3/31/2021	14	370	647	460
3/31/2021	15	367	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/31/2021	16	360	566	460
3/31/2021	17	337	521	460
3/31/2021	18	326	510	460
3/31/2021	19	339	580	460
3/31/2021	20	330	540	460
3/31/2021	21	331	520	460
3/31/2021	22	323	500	460
3/31/2021	23	306	480	460
3/31/2021	24	300	460	455
4/1/2021	1	296	570	460
4/1/2021	2	282	510	460
4/1/2021	3	272	500	455
4/1/2021	4	265	470	455
4/1/2021	5	265	455	450
4/1/2021	6	270	470	460
4/1/2021	7	278	471	460
4/1/2021	8	307	520	460
4/1/2021	9	333	647	460
4/1/2021	10	352	647	460
4/1/2021	11	368	647	460
4/1/2021	12	361	647	460
4/1/2021	13	360	647	460
4/1/2021	14	373	647	460
4/1/2021	15	371	647	460
4/1/2021	16	364	647	460
4/1/2021	17	344	554	460
4/1/2021	18	333	510	460
4/1/2021	19	346	580	460
4/1/2021	20	340	540	460
4/1/2021	21	338	592	460
4/1/2021	22	331	511	460
4/1/2021	23	317	574	460
4/1/2021	24	306	537	460
4/2/2021	1	303	584	460
4/2/2021	2	290	520	460
4/2/2021	3	280	500	460
4/2/2021	4	274	480	460
4/2/2021	5	263	460	460
4/2/2021	6	244	460	380
4/2/2021	7	235	456	380
4/2/2021	8	248	584	380
4/2/2021	9	261	560	380
4/2/2021	10	264	583	380
4/2/2021	11	277	591	380
4/2/2021	12	278	560	380
4/2/2021	13	280	575	380
4/2/2021	14	288	560	380
4/2/2021	15	289	560	380
4/2/2021	16	282	560	380
4/2/2021	17	271	560	380
4/2/2021	18	273	550	380
4/2/2021	19	291	647	380
4/2/2021	20	302	647	400
4/2/2021	21	313	647	460
4/2/2021	22	321	576	460
4/2/2021	23	313	629	400
4/2/2021	24	303	579	400
4/3/2021	1	286	570	455
4/3/2021	2	275	520	455
4/3/2021	3	267	500	455
4/3/2021	4	262	455	450
4/3/2021	5	255	470	455
4/3/2021	6	241	480	455
4/3/2021	7	241	455	450
4/3/2021	8	255	530	455

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/3/2021	9	262	530	455
4/3/2021	10	279	555	455
4/3/2021	11	286	568	455
4/3/2021	12	283	550	455
4/3/2021	13	278	515	455
4/3/2021	14	287	520	455
4/3/2021	15	281	478	455
4/3/2021	16	269	455	420
4/3/2021	17	274	460	455
4/3/2021	18	300	580	455
4/3/2021	19	300	647	455
4/3/2021	20	292	647	455
4/3/2021	21	285	573	455
4/3/2021	22	274	525	455
4/3/2021	23	261	490	455
4/3/2021	24	251	455	425
4/4/2021	1	295	570	455
4/4/2021	2	284	520	455
4/4/2021	3	273	500	455
4/4/2021	4	264	455	450
4/4/2021	5	258	450	400
4/4/2021	6	248	480	455
4/4/2021	7	247	450	408
4/4/2021	8	256	530	400
4/4/2021	9	269	530	428
4/4/2021	10	283	563	410
4/4/2021	11	295	568	425
4/4/2021	12	292	500	320
4/4/2021	13	296	515	350
4/4/2021	14	302	520	350
4/4/2021	15	301	500	350
4/4/2021	16	293	476	350
4/4/2021	17	285	460	350
4/4/2021	18	293	600	413
4/4/2021	19	320	647	416
4/4/2021	20	326	647	416
4/4/2021	21	335	600	416
4/4/2021	22	332	525	455
4/4/2021	23	319	490	455
4/4/2021	24	305	455	425
4/5/2021	1	284	560	455
4/5/2021	2	275	510	455
4/5/2021	3	266	500	455
4/5/2021	4	260	455	450
4/5/2021	5	258	470	455
4/5/2021	6	266	480	455
4/5/2021	7	272	460	455
4/5/2021	8	321	550	460
4/5/2021	9	357	555	460
4/5/2021	10	375	647	460
4/5/2021	11	388	647	460
4/5/2021	12	382	550	460
4/5/2021	13	381	515	460
4/5/2021	14	393	647	460
4/5/2021	15	386	478	460
4/5/2021	16	378	460	455
4/5/2021	17	357	465	460
4/5/2021	18	343	493	460
4/5/2021	19	361	590	460
4/5/2021	20	354	570	460
4/5/2021	21	350	550	460
4/5/2021	22	345	520	460
4/5/2021	23	332	550	460
4/5/2021	24	318	460	455
4/6/2021	1	313	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/6/2021	2	304	580	460
4/6/2021	3	294	550	460
4/6/2021	4	286	510	460
4/6/2021	5	286	500	460
4/6/2021	6	287	536	455
4/6/2021	7	300	520	460
4/6/2021	8	323	550	460
4/6/2021	9	350	647	460
4/6/2021	10	366	647	460
4/6/2021	11	377	647	460
4/6/2021	12	373	532	460
4/6/2021	13	376	520	460
4/6/2021	14	389	647	460
4/6/2021	15	379	587	460
4/6/2021	16	380	590	460
4/6/2021	17	356	460	455
4/6/2021	18	343	460	455
4/6/2021	19	363	591	460
4/6/2021	20	360	553	460
4/6/2021	21	363	580	460
4/6/2021	22	362	570	460
4/6/2021	23	350	550	460
4/6/2021	24	331	500	460
4/7/2021	1	337	647	460
4/7/2021	2	322	642	460
4/7/2021	3	308	577	460
4/7/2021	4	298	510	460
4/7/2021	5	293	500	460
4/7/2021	6	289	536	455
4/7/2021	7	300	520	460
4/7/2021	8	324	550	460
4/7/2021	9	345	570	460
4/7/2021	10	360	580	460
4/7/2021	11	371	647	460
4/7/2021	12	370	500	460
4/7/2021	13	373	520	460
4/7/2021	14	390	647	460
4/7/2021	15	384	647	460
4/7/2021	16	370	647	460
4/7/2021	17	343	460	455
4/7/2021	18	332	460	455
4/7/2021	19	359	591	460
4/7/2021	20	361	543	460
4/7/2021	21	366	647	460
4/7/2021	22	365	571	460
4/7/2021	23	352	550	460
4/7/2021	24	338	503	460
4/8/2021	1	317	647	460
4/8/2021	2	301	638	460
4/8/2021	3	292	580	455
4/8/2021	4	283	515	455
4/8/2021	5	280	500	455
4/8/2021	6	278	536	455
4/8/2021	7	283	520	455
4/8/2021	8	308	550	460
4/8/2021	9	336	580	460
4/8/2021	10	356	599	460
4/8/2021	11	369	647	460
4/8/2021	12	365	522	460
4/8/2021	13	369	569	460
4/8/2021	14	384	647	460
4/8/2021	15	384	647	460
4/8/2021	16	373	647	460
4/8/2021	17	349	548	460
4/8/2021	18	335	471	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/8/2021	19	354	550	460
4/8/2021	20	353	543	460
4/8/2021	21	356	647	460
4/8/2021	22	353	582	460
4/8/2021	23	340	580	460
4/8/2021	24	327	514	460
4/9/2021	1	336	647	460
4/9/2021	2	320	600	460
4/9/2021	3	308	570	460
4/9/2021	4	296	505	460
4/9/2021	5	288	500	460
4/9/2021	6	278	500	460
4/9/2021	7	274	471	455
4/9/2021	8	279	482	455
4/9/2021	9	291	490	460
4/9/2021	10	303	540	460
4/9/2021	11	314	550	460
4/9/2021	12	315	480	460
4/9/2021	13	320	520	460
4/9/2021	14	329	580	460
4/9/2021	15	325	573	460
4/9/2021	16	316	535	460
4/9/2021	17	304	490	460
4/9/2021	18	314	460	457
4/9/2021	19	348	570	460
4/9/2021	20	352	540	460
4/9/2021	21	363	595	460
4/9/2021	22	362	570	460
4/9/2021	23	351	577	460
4/9/2021	24	335	550	460
4/10/2021	1	310	647	460
4/10/2021	2	302	600	460
4/10/2021	3	291	590	455
4/10/2021	4	284	550	455
4/10/2021	5	280	460	455
4/10/2021	6	278	490	455
4/10/2021	7	271	520	455
4/10/2021	8	296	550	460
4/10/2021	9	316	570	460
4/10/2021	10	335	580	460
4/10/2021	11	347	590	460
4/10/2021	12	343	510	460
4/10/2021	13	346	587	460
4/10/2021	14	358	647	460
4/10/2021	15	358	623	460
4/10/2021	16	351	561	460
4/10/2021	17	334	530	460
4/10/2021	18	333	470	460
4/10/2021	19	351	647	460
4/10/2021	20	347	543	460
4/10/2021	21	345	560	460
4/10/2021	22	337	540	460
4/10/2021	23	327	550	460
4/10/2021	24	314	500	460
4/11/2021	1	282	600	460
4/11/2021	2	272	642	460
4/11/2021	3	259	588	460
4/11/2021	4	248	510	460
4/11/2021	5	243	500	460
4/11/2021	6	237	525	460
4/11/2021	7	239	520	460
4/11/2021	8	250	550	460
4/11/2021	9	264	580	460
4/11/2021	10	279	599	460
4/11/2021	11	290	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/11/2021	12	289	531	460
4/11/2021	13	295	577	460
4/11/2021	14	307	647	460
4/11/2021	15	311	647	460
4/11/2021	16	301	591	460
4/11/2021	17	287	460	455
4/11/2021	18	293	460	455
4/11/2021	19	318	626	460
4/11/2021	20	322	647	460
4/11/2021	21	329	647	460
4/11/2021	22	327	647	460
4/11/2021	23	318	617	460
4/11/2021	24	305	540	460
4/12/2021	1	305	630	460
4/12/2021	2	293	600	460
4/12/2021	3	286	580	460
4/12/2021	4	276	580	460
4/12/2021	5	275	550	460
4/12/2021	6	277	525	460
4/12/2021	7	290	520	460
4/12/2021	8	316	550	460
4/12/2021	9	341	580	460
4/12/2021	10	364	610	460
4/12/2021	11	380	647	460
4/12/2021	12	376	647	460
4/12/2021	13	379	647	460
4/12/2021	14	395	647	460
4/12/2021	15	360	590	460
4/12/2021	16	379	647	460
4/12/2021	17	351	550	460
4/12/2021	18	341	597	460
4/12/2021	19	359	590	460
4/12/2021	20	364	590	460
4/12/2021	21	370	647	460
4/12/2021	22	367	647	460
4/12/2021	23	358	647	460
4/12/2021	24	349	647	460
4/13/2021	1	303	590	455
4/13/2021	2	295	570	455
4/13/2021	3	285	550	455
4/13/2021	4	280	500	455
4/13/2021	5	280	500	455
4/13/2021	6	284	500	455
4/13/2021	7	291	470	460
4/13/2021	8	317	490	460
4/13/2021	9	345	490	460
4/13/2021	10	364	540	460
4/13/2021	11	379	647	460
4/13/2021	12	376	613	460
4/13/2021	13	379	647	460
4/13/2021	14	395	647	460
4/13/2021	15	391	573	460
4/13/2021	16	377	631	460
4/13/2021	17	344	490	460
4/13/2021	18	333	460	455
4/13/2021	19	350	570	460
4/13/2021	20	354	540	460
4/13/2021	21	357	580	460
4/13/2021	22	353	570	460
4/13/2021	23	343	590	460
4/13/2021	24	330	550	460
4/14/2021	1	323	647	460
4/14/2021	2	309	600	460
4/14/2021	3	302	580	460
4/14/2021	4	293	500	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/14/2021	5	291	500	460
4/14/2021	6	290	500	460
4/14/2021	7	293	520	460
4/14/2021	8	325	590	460
4/14/2021	9	350	582	460
4/14/2021	10	366	540	460
4/14/2021	11	377	647	460
4/14/2021	12	371	613	460
4/14/2021	13	373	647	460
4/14/2021	14	385	647	460
4/14/2021	15	383	573	460
4/14/2021	16	369	631	460
4/14/2021	17	343	490	460
4/14/2021	18	331	460	455
4/14/2021	19	350	570	460
4/14/2021	20	354	540	460
4/14/2021	21	361	600	460
4/14/2021	22	355	621	460
4/14/2021	23	347	647	460
4/14/2021	24	333	626	460
4/15/2021	1	321	647	455
4/15/2021	2	301	580	455
4/15/2021	3	292	550	455
4/15/2021	4	284	500	455
4/15/2021	5	282	500	455
4/15/2021	6	283	500	455
4/15/2021	7	285	455	450
4/15/2021	8	318	490	455
4/15/2021	9	354	520	455
4/15/2021	10	373	530	455
4/15/2021	11	386	540	455
4/15/2021	12	379	550	455
4/15/2021	13	382	581	455
4/15/2021	14	399	647	455
4/15/2021	15	396	647	455
4/15/2021	16	384	580	455
4/15/2021	17	356	568	455
4/15/2021	18	344	647	455
4/15/2021	19	363	559	455
4/15/2021	20	359	547	455
4/15/2021	21	360	641	455
4/15/2021	22	357	580	455
4/15/2021	23	346	550	455
4/15/2021	24	335	540	455
4/16/2021	1	324	647	460
4/16/2021	2	314	580	460
4/16/2021	3	304	550	460
4/16/2021	4	297	500	460
4/16/2021	5	293	500	455
4/16/2021	6	293	500	455
4/16/2021	7	301	455	450
4/16/2021	8	331	490	455
4/16/2021	9	359	550	460
4/16/2021	10	382	633	460
4/16/2021	11	393	647	460
4/16/2021	12	389	618	460
4/16/2021	13	389	623	460
4/16/2021	14	401	647	460
4/16/2021	15	399	647	460
4/16/2021	16	389	647	460
4/16/2021	17	366	580	460
4/16/2021	18	354	540	460
4/16/2021	19	369	590	460
4/16/2021	20	364	580	460
4/16/2021	21	363	570	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/16/2021	22	355	570	460
4/16/2021	23	346	588	460
4/16/2021	24	334	550	460
4/17/2021	1	320	647	460
4/17/2021	2	310	590	460
4/17/2021	3	301	560	460
4/17/2021	4	293	516	460
4/17/2021	5	288	500	460
4/17/2021	6	286	510	460
4/17/2021	7	286	520	460
4/17/2021	8	307	470	460
4/17/2021	9	328	550	460
4/17/2021	10	347	580	460
4/17/2021	11	360	590	460
4/17/2021	12	355	550	460
4/17/2021	13	358	540	460
4/17/2021	14	370	647	460
4/17/2021	15	371	647	460
4/17/2021	16	362	647	460
4/17/2021	17	344	550	460
4/17/2021	18	342	500	460
4/17/2021	19	362	647	460
4/17/2021	20	359	647	460
4/17/2021	21	359	647	460
4/17/2021	22	354	637	460
4/17/2021	23	344	590	460
4/17/2021	24	330	580	460
4/18/2021	1	313	647	460
4/18/2021	2	305	590	460
4/18/2021	3	291	560	460
4/18/2021	4	282	516	460
4/18/2021	5	276	500	460
4/18/2021	6	270	510	460
4/18/2021	7	266	520	460
4/18/2021	8	275	470	460
4/18/2021	9	289	550	460
4/18/2021	10	302	580	460
4/18/2021	11	311	590	460
4/18/2021	12	308	550	460
4/18/2021	13	313	540	460
4/18/2021	14	321	647	460
4/18/2021	15	323	647	460
4/18/2021	16	316	647	460
4/18/2021	17	301	550	460
4/18/2021	18	305	500	460
4/18/2021	19	334	647	460
4/18/2021	20	336	647	460
4/18/2021	21	343	647	460
4/18/2021	22	341	647	460
4/18/2021	23	329	590	460
4/18/2021	24	318	580	460
4/19/2021	1	303	647	460
4/19/2021	2	294	580	460
4/19/2021	3	285	560	460
4/19/2021	4	280	516	460
4/19/2021	5	280	500	460
4/19/2021	6	284	510	460
4/19/2021	7	291	520	460
4/19/2021	8	317	590	460
4/19/2021	9	367	647	460
4/19/2021	10	385	647	460
4/19/2021	11	398	647	460
4/19/2021	12	394	647	460
4/19/2021	13	393	647	460
4/19/2021	14	409	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/19/2021	15	406	647	460
4/19/2021	16	396	647	460
4/19/2021	17	368	550	460
4/19/2021	18	355	500	460
4/19/2021	19	374	647	460
4/19/2021	20	371	647	460
4/19/2021	21	373	647	460
4/19/2021	22	368	647	460
4/19/2021	23	357	647	460
4/19/2021	24	345	520	460
4/20/2021	1	326	647	460
4/20/2021	2	315	647	460
4/20/2021	3	290	580	460
4/20/2021	4	290	550	455
4/20/2021	5	290	535	455
4/20/2021	6	290	546	455
4/20/2021	7	290	520	455
4/20/2021	8	332	540	455
4/20/2021	9	358	647	460
4/20/2021	10	375	647	460
4/20/2021	11	389	647	460
4/20/2021	12	384	560	460
4/20/2021	13	389	559	460
4/20/2021	14	403	647	460
4/20/2021	15	401	647	460
4/20/2021	16	395	647	460
4/20/2021	17	368	550	460
4/20/2021	18	345	500	460
4/20/2021	19	372	647	460
4/20/2021	20	370	647	460
4/20/2021	21	375	647	460
4/20/2021	22	371	647	460
4/20/2021	23	360	647	460
4/20/2021	24	348	520	460
4/21/2021	1	342	647	460
4/21/2021	2	330	590	460
4/21/2021	3	316	550	460
4/21/2021	4	307	510	460
4/21/2021	5	304	503	455
4/21/2021	6	301	500	455
4/21/2021	7	300	520	455
4/21/2021	8	337	550	455
4/21/2021	9	363	647	460
4/21/2021	10	380	647	460
4/21/2021	11	392	647	460
4/21/2021	12	390	580	460
4/21/2021	13	394	590	460
4/21/2021	14	406	647	460
4/21/2021	15	404	647	460
4/21/2021	16	391	647	460
4/21/2021	17	365	550	460
4/21/2021	18	352	500	460
4/21/2021	19	373	647	460
4/21/2021	20	372	647	460
4/21/2021	21	378	647	460
4/21/2021	22	376	647	460
4/21/2021	23	364	647	460
4/21/2021	24	350	647	460
4/22/2021	1	329	621	460
4/22/2021	2	317	570	460
4/22/2021	3	307	540	460
4/22/2021	4	301	512	460
4/22/2021	5	298	503	455
4/22/2021	6	297	511	455
4/22/2021	7	297	514	455

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/22/2021	8	331	550	455
4/22/2021	9	360	600	460
4/22/2021	10	378	614	460
4/22/2021	11	386	647	460
4/22/2021	12	380	568	460
4/22/2021	13	383	570	460
4/22/2021	14	399	647	460
4/22/2021	15	395	647	460
4/22/2021	16	384	620	460
4/22/2021	17	355	560	460
4/22/2021	18	343	520	460
4/22/2021	19	360	570	460
4/22/2021	20	360	580	460
4/22/2021	21	363	570	460
4/22/2021	22	360	580	460
4/22/2021	23	351	550	460
4/22/2021	24	339	520	460
4/23/2021	1	333	647	460
4/23/2021	2	322	620	460
4/23/2021	3	312	590	460
4/23/2021	4	304	515	460
4/23/2021	5	300	478	455
4/23/2021	6	298	524	455
4/23/2021	7	292	510	455
4/23/2021	8	334	610	455
4/23/2021	9	363	614	460
4/23/2021	10	383	647	460
4/23/2021	11	394	647	460
4/23/2021	12	390	605	460
4/23/2021	13	396	647	460
4/23/2021	14	412	647	460
4/23/2021	15	410	647	460
4/23/2021	16	400	647	460
4/23/2021	17	372	560	460
4/23/2021	18	354	520	460
4/23/2021	19	370	570	460
4/23/2021	20	370	580	460
4/23/2021	21	372	647	460
4/23/2021	22	370	647	460
4/23/2021	23	360	647	460
4/23/2021	24	344	580	460
4/24/2021	1	336	647	460
4/24/2021	2	325	630	460
4/24/2021	3	313	590	460
4/24/2021	4	304	515	460
4/24/2021	5	298	478	455
4/24/2021	6	290	480	455
4/24/2021	7	274	455	440
4/24/2021	8	309	500	455
4/24/2021	9	331	510	460
4/24/2021	10	350	540	460
4/24/2021	11	362	560	460
4/24/2021	12	357	520	460
4/24/2021	13	362	535	460
4/24/2021	14	378	647	460
4/24/2021	15	378	644	460
4/24/2021	16	365	570	460
4/24/2021	17	345	540	460
4/24/2021	18	344	500	460
4/24/2021	19	361	530	460
4/24/2021	20	361	520	460
4/24/2021	21	365	630	460
4/24/2021	22	361	647	460
4/24/2021	23	355	647	460
4/24/2021	24	343	580	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/25/2021	1	309	647	460
4/25/2021	2	301	647	460
4/25/2021	3	287	560	460
4/25/2021	4	278	516	460
4/25/2021	5	272	500	460
4/25/2021	6	266	510	460
4/25/2021	7	262	520	460
4/25/2021	8	271	535	460
4/25/2021	9	284	550	460
4/25/2021	10	298	600	460
4/25/2021	11	306	600	460
4/25/2021	12	304	577	460
4/25/2021	13	308	580	460
4/25/2021	14	317	647	460
4/25/2021	15	318	647	460
4/25/2021	16	311	647	460
4/25/2021	17	296	550	460
4/25/2021	18	301	500	460
4/25/2021	19	329	647	460
4/25/2021	20	331	647	460
4/25/2021	21	338	647	460
4/25/2021	22	336	647	460
4/25/2021	23	324	590	460
4/25/2021	24	313	580	460
4/26/2021	1	325	590	460
4/26/2021	2	314	570	460
4/26/2021	3	304	550	460
4/26/2021	4	296	480	460
4/26/2021	5	292	455	450
4/26/2021	6	290	480	455
4/26/2021	7	284	455	440
4/26/2021	8	326	500	455
4/26/2021	9	359	647	460
4/26/2021	10	380	647	460
4/26/2021	11	390	647	460
4/26/2021	12	386	647	460
4/26/2021	13	393	647	460
4/26/2021	14	408	647	460
4/26/2021	15	406	647	460
4/26/2021	16	397	647	460
4/26/2021	17	368	540	460
4/26/2021	18	350	500	460
4/26/2021	19	366	530	460
4/26/2021	20	366	520	460
4/26/2021	21	368	630	460
4/26/2021	22	366	647	460
4/26/2021	23	356	647	460
4/26/2021	24	341	580	460
4/27/2021	1	328	647	460
4/27/2021	2	316	647	460
4/27/2021	3	306	560	460
4/27/2021	4	297	516	460
4/27/2021	5	295	500	460
4/27/2021	6	295	510	460
4/27/2021	7	302	520	460
4/27/2021	8	330	550	460
4/27/2021	9	356	600	460
4/27/2021	10	371	620	460
4/27/2021	11	383	620	460
4/27/2021	12	380	620	460
4/27/2021	13	385	647	460
4/27/2021	14	400	647	460
4/27/2021	15	398	647	460
4/27/2021	16	387	647	460
4/27/2021	17	358	530	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/27/2021	18	345	550	460
4/27/2021	19	365	600	460
4/27/2021	20	366	647	460
4/27/2021	21	372	647	460
4/27/2021	22	368	647	460
4/27/2021	23	357	647	460
4/27/2021	24	344	647	460
4/28/2021	1	312	600	460
4/28/2021	2	305	573	460
4/28/2021	3	294	560	460
4/28/2021	4	288	490	460
4/28/2021	5	285	480	455
4/28/2021	6	284	520	455
4/28/2021	7	289	550	455
4/28/2021	8	321	560	460
4/28/2021	9	347	571	460
4/28/2021	10	363	600	460
4/28/2021	11	378	647	460
4/28/2021	12	368	570	460
4/28/2021	13	372	575	460
4/28/2021	14	387	647	460
4/28/2021	15	386	647	460
4/28/2021	16	374	600	460
4/28/2021	17	350	503	460
4/28/2021	18	341	500	460
4/28/2021	19	353	530	460
4/28/2021	20	354	500	460
4/28/2021	21	361	630	460
4/28/2021	22	360	647	460
4/28/2021	23	351	647	460
4/28/2021	24	338	580	460
4/29/2021	1	320	647	460
4/29/2021	2	311	590	460
4/29/2021	3	300	550	460
4/29/2021	4	292	480	460
4/29/2021	5	290	480	455
4/29/2021	6	291	520	455
4/29/2021	7	297	550	455
4/29/2021	8	325	560	455
4/29/2021	9	355	571	460
4/29/2021	10	376	647	460
4/29/2021	11	390	647	460
4/29/2021	12	383	570	460
4/29/2021	13	387	647	460
4/29/2021	14	404	647	460
4/29/2021	15	402	647	460
4/29/2021	16	390	600	460
4/29/2021	17	364	500	460
4/29/2021	18	348	480	460
4/29/2021	19	363	530	460
4/29/2021	20	361	481	460
4/29/2021	21	363	540	460
4/29/2021	22	362	560	460
4/29/2021	23	351	538	460
4/29/2021	24	339	530	460
4/30/2021	1	326	647	460
4/30/2021	2	317	647	460
4/30/2021	3	306	590	460
4/30/2021	4	297	557	460
4/30/2021	5	295	561	455
4/30/2021	6	293	530	455
4/30/2021	7	297	520	455
4/30/2021	8	330	580	455
4/30/2021	9	357	647	460
4/30/2021	10	379	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/30/2021	11	389	647	460
4/30/2021	12	385	570	460
4/30/2021	13	386	647	460
4/30/2021	14	400	647	460
4/30/2021	15	397	647	460
4/30/2021	16	389	600	460
4/30/2021	17	364	500	460
4/30/2021	18	348	460	460
4/30/2021	19	364	500	460
4/30/2021	20	360	481	460
4/30/2021	21	364	540	460
4/30/2021	22	359	560	460
4/30/2021	23	351	586	460
4/30/2021	24	336	533	460
5/1/2021	1	303	600	460
5/1/2021	2	290	580	455
5/1/2021	3	278	550	455
5/1/2021	4	269	531	455
5/1/2021	5	264	480	455
5/1/2021	6	259	455	450
5/1/2021	7	261	480	455
5/1/2021	8	277	530	460
5/1/2021	9	294	536	460
5/1/2021	10	313	580	460
5/1/2021	11	325	590	460
5/1/2021	12	322	550	460
5/1/2021	13	327	560	460
5/1/2021	14	342	582	460
5/1/2021	15	339	590	460
5/1/2021	16	329	580	460
5/1/2021	17	312	550	460
5/1/2021	18	308	530	460
5/1/2021	19	293	460	455
5/1/2021	20	333	600	460
5/1/2021	21	341	620	460
5/1/2021	22	340	600	460
5/1/2021	23	331	647	460
5/1/2021	24	319	550	460
5/2/2021	1	320	647	460
5/2/2021	2	310	647	460
5/2/2021	3	299	560	460
5/2/2021	4	291	516	460
5/2/2021	5	282	500	460
5/2/2021	6	270	500	460
5/2/2021	7	267	520	460
5/2/2021	8	276	530	460
5/2/2021	9	293	570	460
5/2/2021	10	312	620	460
5/2/2021	11	323	620	460
5/2/2021	12	321	620	460
5/2/2021	13	325	647	460
5/2/2021	14	333	647	460
5/2/2021	15	331	647	460
5/2/2021	16	323	647	460
5/2/2021	17	309	600	460
5/2/2021	18	310	580	460
5/2/2021	19	332	620	460
5/2/2021	20	332	647	460
5/2/2021	21	343	647	460
5/2/2021	22	343	647	460
5/2/2021	23	334	647	460
5/2/2021	24	320	647	460
5/3/2021	1	302	580	460
5/3/2021	2	294	550	455
5/3/2021	3	284	528	455

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/3/2021	4	280	531	455
5/3/2021	5	280	480	455
5/3/2021	6	284	462	455
5/3/2021	7	291	480	455
5/3/2021	8	317	530	460
5/3/2021	9	365	536	460
5/3/2021	10	383	647	460
5/3/2021	11	396	647	460
5/3/2021	12	391	647	460
5/3/2021	13	391	647	460
5/3/2021	14	407	647	460
5/3/2021	15	404	647	460
5/3/2021	16	393	647	460
5/3/2021	17	365	550	460
5/3/2021	18	352	525	460
5/3/2021	19	371	647	460
5/3/2021	20	369	611	460
5/3/2021	21	371	647	460
5/3/2021	22	366	647	460
5/3/2021	23	355	647	460
5/3/2021	24	343	627	460
5/4/2021	1	336	647	460
5/4/2021	2	319	647	460
5/4/2021	3	308	645	460
5/4/2021	4	301	605	460
5/4/2021	5	296	525	460
5/4/2021	6	295	505	460
5/4/2021	7	297	555	460
5/4/2021	8	331	635	460
5/4/2021	9	360	580	460
5/4/2021	10	381	647	460
5/4/2021	11	392	647	460
5/4/2021	12	387	647	460
5/4/2021	13	391	647	460
5/4/2021	14	404	647	460
5/4/2021	15	399	647	460
5/4/2021	16	391	647	460
5/4/2021	17	365	572	460
5/4/2021	18	353	520	460
5/4/2021	19	367	557	460
5/4/2021	20	367	633	460
5/4/2021	21	373	647	460
5/4/2021	22	370	647	460
5/4/2021	23	362	647	460
5/4/2021	24	353	618	460
5/5/2021	1	337	647	460
5/5/2021	2	327	647	460
5/5/2021	3	317	647	460
5/5/2021	4	310	580	460
5/5/2021	5	307	525	460
5/5/2021	6	306	505	460
5/5/2021	7	311	567	460
5/5/2021	8	342	635	460
5/5/2021	9	367	647	460
5/5/2021	10	383	647	460
5/5/2021	11	399	647	460
5/5/2021	12	389	647	460
5/5/2021	13	393	647	460
5/5/2021	14	408	647	460
5/5/2021	15	407	647	460
5/5/2021	16	395	647	460
5/5/2021	17	370	572	460
5/5/2021	18	359	520	460
5/5/2021	19	373	624	460
5/5/2021	20	374	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/5/2021	21	381	647	460
5/5/2021	22	380	647	460
5/5/2021	23	371	647	460
5/5/2021	24	356	647	460
5/6/2021	1	345	647	460
5/6/2021	2	333	647	460
5/6/2021	3	322	647	460
5/6/2021	4	315	580	460
5/6/2021	5	312	525	460
5/6/2021	6	310	505	460
5/6/2021	7	331	647	460
5/6/2021	8	351	647	460
5/6/2021	9	384	647	460
5/6/2021	10	406	647	460
5/6/2021	11	420	647	460
5/6/2021	12	415	647	460
5/6/2021	13	417	647	460
5/6/2021	14	435	647	460
5/6/2021	15	433	647	460
5/6/2021	16	424	647	460
5/6/2021	17	396	647	460
5/6/2021	18	375	647	460
5/6/2021	19	392	647	460
5/6/2021	20	393	647	460
5/6/2021	21	397	647	460
5/6/2021	22	396	647	460
5/6/2021	23	385	647	460
5/6/2021	24	374	647	460
5/7/2021	1	351	647	460
5/7/2021	2	340	647	460
5/7/2021	3	329	647	460
5/7/2021	4	319	580	460
5/7/2021	5	315	525	460
5/7/2021	6	310	505	460
5/7/2021	7	324	647	460
5/7/2021	8	348	647	460
5/7/2021	9	379	647	460
5/7/2021	10	397	647	460
5/7/2021	11	413	647	460
5/7/2021	12	405	647	460
5/7/2021	13	411	647	460
5/7/2021	14	428	647	460
5/7/2021	15	427	647	460
5/7/2021	16	414	647	460
5/7/2021	17	386	647	460
5/7/2021	18	368	647	460
5/7/2021	19	385	647	460
5/7/2021	20	388	647	460
5/7/2021	21	394	647	460
5/7/2021	22	394	647	460
5/7/2021	23	384	647	460
5/7/2021	24	369	647	460
5/8/2021	1	348	647	460
5/8/2021	2	337	647	460
5/8/2021	3	326	647	460
5/8/2021	4	316	570	460
5/8/2021	5	311	520	460
5/8/2021	6	301	580	460
5/8/2021	7	300	590	460
5/8/2021	8	320	600	460
5/8/2021	9	341	610	460
5/8/2021	10	360	647	460
5/8/2021	11	373	647	460
5/8/2021	12	368	647	460
5/8/2021	13	373	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/8/2021	14	388	647	460
5/8/2021	15	386	647	460
5/8/2021	16	374	570	460
5/8/2021	17	355	550	460
5/8/2021	18	351	570	460
5/8/2021	19	371	647	460
5/8/2021	20	369	580	460
5/8/2021	21	377	624	460
5/8/2021	22	375	647	460
5/8/2021	23	367	647	460
5/8/2021	24	355	610	460
5/9/2021	1	328	647	585
5/9/2021	2	319	629	500
5/9/2021	3	306	545	506
5/9/2021	4	293	516	516
5/9/2021	5	285	500	500
5/9/2021	6	271	500	480
5/9/2021	7	270	500	500
5/9/2021	8	283	530	500
5/9/2021	9	298	570	530
5/9/2021	10	320	620	567
5/9/2021	11	336	620	572
5/9/2021	12	333	620	570
5/9/2021	13	343	647	600
5/9/2021	14	353	647	647
5/9/2021	15	356	647	647
5/9/2021	16	349	647	647
5/9/2021	17	333	647	647
5/9/2021	18	331	647	643
5/9/2021	19	361	647	647
5/9/2021	20	364	647	647
5/9/2021	21	369	647	647
5/9/2021	22	370	647	647
5/9/2021	23	360	647	647
5/9/2021	24	346	647	647
5/10/2021	1	339	647	500
5/10/2021	2	328	647	500
5/10/2021	3	317	555	500
5/10/2021	4	307	500	480
5/10/2021	5	303	490	470
5/10/2021	6	298	480	455
5/10/2021	7	312	550	481
5/10/2021	8	340	600	500
5/10/2021	9	378	647	647
5/10/2021	10	396	647	647
5/10/2021	11	412	647	647
5/10/2021	12	404	647	647
5/10/2021	13	410	647	647
5/10/2021	14	427	647	647
5/10/2021	15	426	647	647
5/10/2021	16	413	647	647
5/10/2021	17	385	615	550
5/10/2021	18	368	560	500
5/10/2021	19	384	647	500
5/10/2021	20	387	580	500
5/10/2021	21	394	593	500
5/10/2021	22	393	647	500
5/10/2021	23	383	647	500
5/10/2021	24	368	610	500
5/11/2021	1	357	647	460
5/11/2021	2	346	647	460
5/11/2021	3	334	647	460
5/11/2021	4	326	647	460
5/11/2021	5	321	647	460
5/11/2021	6	319	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/11/2021	7	328	647	460
5/11/2021	8	362	647	460
5/11/2021	9	389	647	460
5/11/2021	10	406	647	460
5/11/2021	11	420	647	460
5/11/2021	12	413	647	460
5/11/2021	13	416	647	460
5/11/2021	14	430	647	460
5/11/2021	15	427	647	460
5/11/2021	16	418	647	460
5/11/2021	17	392	647	460
5/11/2021	18	378	578	460
5/11/2021	19	394	647	460
5/11/2021	20	393	647	460
5/11/2021	21	397	647	460
5/11/2021	22	394	647	460
5/11/2021	23	391	647	460
5/11/2021	24	378	647	460
5/12/2021	1	368	647	647
5/12/2021	2	359	629	600
5/12/2021	3	346	570	560
5/12/2021	4	334	516	516
5/12/2021	5	330	500	500
5/12/2021	6	324	500	500
5/12/2021	7	309	560	500
5/12/2021	8	374	647	600
5/12/2021	9	407	647	647
5/12/2021	10	426	647	647
5/12/2021	11	443	647	647
5/12/2021	12	436	647	647
5/12/2021	13	442	647	647
5/12/2021	14	462	647	647
5/12/2021	15	460	647	647
5/12/2021	16	450	647	647
5/12/2021	17	418	647	647
5/12/2021	18	393	643	610
5/12/2021	19	412	647	647
5/12/2021	20	411	647	647
5/12/2021	21	420	647	647
5/12/2021	22	421	647	647
5/12/2021	23	407	647	647
5/12/2021	24	394	647	647
5/13/2021	1	354	647	460
5/13/2021	2	343	647	460
5/13/2021	3	331	589	460
5/13/2021	4	321	500	460
5/13/2021	5	315	480	460
5/13/2021	6	306	460	455
5/13/2021	7	304	480	460
5/13/2021	8	325	500	460
5/13/2021	9	346	550	460
5/13/2021	10	366	647	460
5/13/2021	11	379	647	460
5/13/2021	12	374	580	460
5/13/2021	13	379	638	460
5/13/2021	14	394	647	460
5/13/2021	15	392	647	460
5/13/2021	16	380	587	460
5/13/2021	17	360	520	460
5/13/2021	18	356	550	460
5/13/2021	19	377	570	460
5/13/2021	20	375	560	460
5/13/2021	21	383	647	460
5/13/2021	22	381	647	460
5/13/2021	23	373	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/13/2021	24	360	647	460
5/14/2021	1	375	647	647
5/14/2021	2	361	629	600
5/14/2021	3	349	600	570
5/14/2021	4	339	600	516
5/14/2021	5	333	564	500
5/14/2021	6	325	514	500
5/14/2021	7	335	580	560
5/14/2021	8	368	600	600
5/14/2021	9	399	647	647
5/14/2021	10	414	647	647
5/14/2021	11	430	647	647
5/14/2021	12	424	647	608
5/14/2021	13	433	647	647
5/14/2021	14	447	647	647
5/14/2021	15	446	647	647
5/14/2021	16	432	647	647
5/14/2021	17	401	600	590
5/14/2021	18	380	580	580
5/14/2021	19	399	647	647
5/14/2021	20	400	647	647
5/14/2021	21	405	632	632
5/14/2021	22	404	647	647
5/14/2021	23	395	631	630
5/14/2021	24	381	630	630
5/15/2021	1	354	647	460
5/15/2021	2	343	647	460
5/15/2021	3	331	589	460
5/15/2021	4	321	500	460
5/15/2021	5	315	480	460
5/15/2021	6	306	460	455
5/15/2021	7	304	480	460
5/15/2021	8	325	500	460
5/15/2021	9	346	550	460
5/15/2021	10	366	647	460
5/15/2021	11	379	647	460
5/15/2021	12	374	580	460
5/15/2021	13	379	638	460
5/15/2021	14	394	647	460
5/15/2021	15	392	647	460
5/15/2021	16	380	587	460
5/15/2021	17	360	520	460
5/15/2021	18	356	550	460
5/15/2021	19	377	570	460
5/15/2021	20	375	560	460
5/15/2021	21	383	647	460
5/15/2021	22	381	647	460
5/15/2021	23	373	647	460
5/15/2021	24	360	647	460
5/16/2021	1	353	647	460
5/16/2021	2	342	629	460
5/16/2021	3	331	600	460
5/16/2021	4	318	520	460
5/16/2021	5	310	480	460
5/16/2021	6	295	500	460
5/16/2021	7	289	543	460
5/16/2021	8	300	550	460
5/16/2021	9	314	573	460
5/16/2021	10	336	647	460
5/16/2021	11	349	647	460
5/16/2021	12	348	647	460
5/16/2021	13	356	647	460
5/16/2021	14	369	647	460
5/16/2021	15	367	647	460
5/16/2021	16	362	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/16/2021	17	346	647	460
5/16/2021	18	340	647	460
5/16/2021	19	370	647	460
5/16/2021	20	372	647	460
5/16/2021	21	380	647	460
5/16/2021	22	383	647	460
5/16/2021	23	374	647	460
5/16/2021	24	364	647	460
5/17/2021	1	343	647	600
5/17/2021	2	324	645	600
5/17/2021	3	314	600	600
5/17/2021	4	302	600	500
5/17/2021	5	299	600	480
5/17/2021	6	292	600	455
5/17/2021	7	302	600	480
5/17/2021	8	345	600	500
5/17/2021	9	396	600	550
5/17/2021	10	413	647	600
5/17/2021	11	427	647	600
5/17/2021	12	419	600	560
5/17/2021	13	422	600	580
5/17/2021	14	437	647	600
5/17/2021	15	433	647	600
5/17/2021	16	425	600	587
5/17/2021	17	398	647	600
5/17/2021	18	385	647	600
5/17/2021	19	400	647	600
5/17/2021	20	399	647	600
5/17/2021	21	403	647	600
5/17/2021	22	401	647	600
5/17/2021	23	398	647	600
5/17/2021	24	384	647	600
5/18/2021	1	361	647	460
5/18/2021	2	343	647	460
5/18/2021	3	331	647	460
5/18/2021	4	323	647	460
5/18/2021	5	317	647	460
5/18/2021	6	316	647	460
5/18/2021	7	325	647	460
5/18/2021	8	373	647	460
5/18/2021	9	408	647	460
5/18/2021	10	421	647	460
5/18/2021	11	435	647	460
5/18/2021	12	427	647	460
5/18/2021	13	430	647	460
5/18/2021	14	446	647	460
5/18/2021	15	443	647	460
5/18/2021	16	433	647	460
5/18/2021	17	405	589	460
5/18/2021	18	388	542	460
5/18/2021	19	404	622	460
5/18/2021	20	404	610	460
5/18/2021	21	409	647	460
5/18/2021	22	407	647	460
5/18/2021	23	395	625	460
5/18/2021	24	380	563	460
5/19/2021	1	371	647	460
5/19/2021	2	359	647	460
5/19/2021	3	347	647	460
5/19/2021	4	336	541	460
5/19/2021	5	330	512	460
5/19/2021	6	322	500	460
5/19/2021	7	326	570	460
5/19/2021	8	358	647	460
5/19/2021	9	388	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/19/2021	10	407	647	460
5/19/2021	11	422	647	460
5/19/2021	12	417	550	460
5/19/2021	13	423	585	460
5/19/2021	14	441	647	460
5/19/2021	15	439	647	460
5/19/2021	16	429	647	460
5/19/2021	17	401	550	460
5/19/2021	18	382	476	460
5/19/2021	19	403	526	460
5/19/2021	20	403	571	460
5/19/2021	21	410	611	460
5/19/2021	22	411	647	460
5/19/2021	23	400	625	460
5/19/2021	24	386	647	460
5/20/2021	1	368	647	460
5/20/2021	2	355	647	460
5/20/2021	3	344	568	460
5/20/2021	4	334	530	460
5/20/2021	5	330	480	460
5/20/2021	6	328	500	460
5/20/2021	7	335	570	460
5/20/2021	8	369	647	460
5/20/2021	9	401	647	460
5/20/2021	10	422	647	460
5/20/2021	11	437	647	460
5/20/2021	12	430	647	460
5/20/2021	13	436	647	460
5/20/2021	14	453	647	460
5/20/2021	15	452	647	460
5/20/2021	16	441	647	460
5/20/2021	17	410	570	460
5/20/2021	18	390	462	460
5/20/2021	19	407	602	460
5/20/2021	20	409	647	460
5/20/2021	21	415	611	460
5/20/2021	22	416	647	460
5/20/2021	23	404	647	460
5/20/2021	24	391	647	460
5/21/2021	1	380	647	460
5/21/2021	2	365	647	460
5/21/2021	3	354	647	460
5/21/2021	4	343	647	460
5/21/2021	5	334	531	460
5/21/2021	6	328	500	460
5/21/2021	7	336	572	460
5/21/2021	8	372	647	460
5/21/2021	9	404	647	460
5/21/2021	10	421	647	460
5/21/2021	11	438	647	460
5/21/2021	12	432	647	460
5/21/2021	13	437	647	460
5/21/2021	14	453	647	460
5/21/2021	15	450	647	460
5/21/2021	16	433	647	460
5/21/2021	17	403	550	460
5/21/2021	18	384	477	460
5/21/2021	19	405	580	460
5/21/2021	20	410	564	460
5/21/2021	21	419	611	460
5/21/2021	22	418	647	460
5/21/2021	23	408	647	460
5/21/2021	24	393	647	460
5/22/2021	1	365	647	460
5/22/2021	2	353	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/22/2021	3	340	647	460
5/22/2021	4	331	647	460
5/22/2021	5	323	531	460
5/22/2021	6	313	500	460
5/22/2021	7	315	550	455
5/22/2021	8	335	560	455
5/22/2021	9	352	583	455
5/22/2021	10	373	585	455
5/22/2021	11	387	590	460
5/22/2021	12	384	540	460
5/22/2021	13	390	550	460
5/22/2021	14	404	647	460
5/22/2021	15	404	647	460
5/22/2021	16	391	580	460
5/22/2021	17	371	520	460
5/22/2021	18	365	477	460
5/22/2021	19	389	580	460
5/22/2021	20	389	647	460
5/22/2021	21	397	647	460
5/22/2021	22	396	647	460
5/22/2021	23	387	647	460
5/22/2021	24	374	639	460
5/23/2021	1	362	647	460
5/23/2021	2	351	647	460
5/23/2021	3	339	600	460
5/23/2021	4	325	520	460
5/23/2021	5	314	506	460
5/23/2021	6	297	500	460
5/23/2021	7	295	543	460
5/23/2021	8	306	550	460
5/23/2021	9	322	573	460
5/23/2021	10	341	647	460
5/23/2021	11	351	647	460
5/23/2021	12	355	647	460
5/23/2021	13	365	647	460
5/23/2021	14	375	647	460
5/23/2021	15	374	647	460
5/23/2021	16	365	647	460
5/23/2021	17	350	600	460
5/23/2021	18	345	600	460
5/23/2021	19	369	647	460
5/23/2021	20	372	647	460
5/23/2021	21	381	647	460
5/23/2021	22	384	647	460
5/23/2021	23	376	647	460
5/23/2021	24	360	647	460
5/24/2021	1	364	647	460
5/24/2021	2	349	580	460
5/24/2021	3	338	550	460
5/24/2021	4	327	520	455
5/24/2021	5	318	500	455
5/24/2021	6	312	479	455
5/24/2021	7	320	550	455
5/24/2021	8	364	647	455
5/24/2021	9	404	647	455
5/24/2021	10	422	647	455
5/24/2021	11	438	647	460
5/24/2021	12	433	647	460
5/24/2021	13	437	647	460
5/24/2021	14	453	647	460
5/24/2021	15	450	647	460
5/24/2021	16	434	647	460
5/24/2021	17	403	550	460
5/24/2021	18	385	460	460
5/24/2021	19	405	546	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/24/2021	20	410	647	460
5/24/2021	21	419	647	460
5/24/2021	22	418	647	460
5/24/2021	23	408	647	460
5/24/2021	24	393	595	460
5/25/2021	1	368	460	455
5/25/2021	2	358	460	455
5/25/2021	3	345	455	420
5/25/2021	4	337	455	420
5/25/2021	5	330	455	420
5/25/2021	6	324	455	420
5/25/2021	7	328	455	420
5/25/2021	8	365	460	455
5/25/2021	9	394	460	455
5/25/2021	10	409	460	455
5/25/2021	11	425	460	455
5/25/2021	12	420	460	455
5/25/2021	13	424	460	455
5/25/2021	14	440	460	455
5/25/2021	15	438	460	455
5/25/2021	16	427	460	455
5/25/2021	17	398	460	455
5/25/2021	18	379	460	455
5/25/2021	19	397	460	455
5/25/2021	20	397	460	455
5/25/2021	21	403	460	455
5/25/2021	22	402	460	455
5/25/2021	23	392	460	455
5/25/2021	24	379	460	455
5/26/2021	1	364	550	460
5/26/2021	2	354	500	460
5/26/2021	3	342	480	455
5/26/2021	4	333	455	450
5/26/2021	5	327	463	455
5/26/2021	6	322	472	455
5/26/2021	7	330	469	455
5/26/2021	8	364	455	432
5/26/2021	9	395	570	460
5/26/2021	10	413	647	460
5/26/2021	11	429	647	460
5/26/2021	12	422	580	460
5/26/2021	13	426	593	460
5/26/2021	14	442	647	460
5/26/2021	15	442	580	460
5/26/2021	16	430	550	460
5/26/2021	17	400	517	460
5/26/2021	18	382	490	460
5/26/2021	19	398	550	460
5/26/2021	20	399	530	460
5/26/2021	21	406	606	460
5/26/2021	22	405	604	460
5/26/2021	23	395	513	460
5/26/2021	24	381	460	455
5/27/2021	1	368	647	460
5/27/2021	2	355	628	460
5/27/2021	3	344	550	455
5/27/2021	4	333	500	455
5/27/2021	5	326	483	455
5/27/2021	6	317	455	450
5/27/2021	7	316	469	455
5/27/2021	8	349	455	432
5/27/2021	9	376	500	460
5/27/2021	10	398	647	460
5/27/2021	11	412	647	460
5/27/2021	12	406	580	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/27/2021	13	415	593	460
5/27/2021	14	432	647	460
5/27/2021	15	430	580	460
5/27/2021	16	420	550	460
5/27/2021	17	390	500	460
5/27/2021	18	373	460	455
5/27/2021	19	395	550	460
5/27/2021	20	397	583	460
5/27/2021	21	403	647	460
5/27/2021	22	404	647	460
5/27/2021	23	393	621	460
5/27/2021	24	380	562	460
5/28/2021	1	372	590	460
5/28/2021	2	361	560	460
5/28/2021	3	349	527	455
5/28/2021	4	341	490	455
5/28/2021	5	334	455	450
5/28/2021	6	325	455	434
5/28/2021	7	318	455	420
5/28/2021	8	363	455	432
5/28/2021	9	395	550	460
5/28/2021	10	416	647	460
5/28/2021	11	432	647	460
5/28/2021	12	429	647	460
5/28/2021	13	439	647	460
5/28/2021	14	454	647	460
5/28/2021	15	450	647	460
5/28/2021	16	438	647	460
5/28/2021	17	405	647	460
5/28/2021	18	384	556	460
5/28/2021	19	396	550	460
5/28/2021	20	400	583	460
5/28/2021	21	407	647	460
5/28/2021	22	408	647	460
5/28/2021	23	397	621	460
5/28/2021	24	384	591	460
5/29/2021	1	371	647	460
5/29/2021	2	358	590	460
5/29/2021	3	349	560	455
5/29/2021	4	335	500	455
5/29/2021	5	328	466	455
5/29/2021	6	316	455	434
5/29/2021	7	315	455	420
5/29/2021	8	338	455	450
5/29/2021	9	362	455	450
5/29/2021	10	383	520	460
5/29/2021	11	399	647	460
5/29/2021	12	393	550	460
5/29/2021	13	400	560	460
5/29/2021	14	414	647	460
5/29/2021	15	410	647	460
5/29/2021	16	396	570	460
5/29/2021	17	375	550	460
5/29/2021	18	369	556	460
5/29/2021	19	390	550	460
5/29/2021	20	390	583	460
5/29/2021	21	398	647	460
5/29/2021	22	399	647	460
5/29/2021	23	389	621	460
5/29/2021	24	376	590	460
5/30/2021	1	363	647	460
5/30/2021	2	354	647	460
5/30/2021	3	338	550	453
5/30/2021	4	327	490	429
5/30/2021	5	317	486	429

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/30/2021	6	298	434	380
5/30/2021	7	296	420	412
5/30/2021	8	311	496	460
5/30/2021	9	328	550	460
5/30/2021	10	350	647	460
5/30/2021	11	365	647	460
5/30/2021	12	368	647	460
5/30/2021	13	378	647	460
5/30/2021	14	382	647	460
5/30/2021	15	372	647	460
5/30/2021	16	361	647	460
5/30/2021	17	349	647	460
5/30/2021	18	350	647	460
5/30/2021	19	369	647	460
5/30/2021	20	379	647	460
5/30/2021	21	381	647	460
5/30/2021	22	382	647	460
5/30/2021	23	372	647	460
5/30/2021	24	360	647	460
5/31/2021	1	362	647	460
5/31/2021	2	347	647	460
5/31/2021	3	336	586	455
5/31/2021	4	325	586	455
5/31/2021	5	316	489	455
5/31/2021	6	310	530	455
5/31/2021	7	318	586	455
5/31/2021	8	362	577	455
5/31/2021	9	399	647	460
5/31/2021	10	417	647	460
5/31/2021	11	433	647	460
5/31/2021	12	428	647	460
5/31/2021	13	432	647	460
5/31/2021	14	448	647	460
5/31/2021	15	445	647	460
5/31/2021	16	429	647	460
5/31/2021	17	398	550	460
5/31/2021	18	380	550	460
5/31/2021	19	400	550	460
5/31/2021	20	405	583	460
5/31/2021	21	414	647	460
5/31/2021	22	413	647	460
5/31/2021	23	403	647	460
5/31/2021	24	388	593	460
6/1/2021	1	383	647	460
6/1/2021	2	370	647	460
6/1/2021	3	358	600	460
6/1/2021	4	347	560	460
6/1/2021	5	341	520	460
6/1/2021	6	334	560	460
6/1/2021	7	342	600	460
6/1/2021	8	376	647	460
6/1/2021	9	407	647	460
6/1/2021	10	430	647	460
6/1/2021	11	444	647	460
6/1/2021	12	439	647	460
6/1/2021	13	444	647	460
6/1/2021	14	460	647	460
6/1/2021	15	459	647	460
6/1/2021	16	446	647	460
6/1/2021	17	416	647	460
6/1/2021	18	396	647	460
6/1/2021	19	410	647	460
6/1/2021	20	412	647	460
6/1/2021	21	419	647	460
6/1/2021	22	418	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/1/2021	23	407	647	460
6/1/2021	24	394	647	460
6/2/2021	1	374	647	460
6/2/2021	2	363	647	460
6/2/2021	3	347	600	460
6/2/2021	4	338	647	460
6/2/2021	5	331	520	460
6/2/2021	6	321	560	460
6/2/2021	7	340	600	460
6/2/2021	8	368	647	460
6/2/2021	9	404	647	460
6/2/2021	10	424	647	460
6/2/2021	11	440	647	460
6/2/2021	12	437	647	460
6/2/2021	13	440	647	460
6/2/2021	14	459	647	460
6/2/2021	15	456	647	460
6/2/2021	16	449	647	460
6/2/2021	17	419	647	460
6/2/2021	18	398	647	460
6/2/2021	19	411	647	460
6/2/2021	20	415	647	460
6/2/2021	21	423	647	460
6/2/2021	22	423	647	460
6/2/2021	23	411	647	460
6/2/2021	24	396	647	460
6/3/2021	1	347	647	647
6/3/2021	2	336	647	647
6/3/2021	3	325	647	647
6/3/2021	4	314	647	647
6/3/2021	5	308	647	647
6/3/2021	6	300	647	647
6/3/2021	7	307	647	647
6/3/2021	8	333	647	647
6/3/2021	9	358	647	647
6/3/2021	10	378	647	647
6/3/2021	11	393	647	647
6/3/2021	12	387	647	647
6/3/2021	13	396	647	647
6/3/2021	14	412	647	647
6/3/2021	15	411	647	647
6/3/2021	16	401	647	647
6/3/2021	17	373	647	647
6/3/2021	18	355	647	647
6/3/2021	19	374	647	647
6/3/2021	20	376	647	647
6/3/2021	21	382	647	647
6/3/2021	22	383	647	647
6/3/2021	23	373	647	647
6/3/2021	24	361	647	647
6/4/2021	1	366	647	647
6/4/2021	2	336	647	647
6/4/2021	3	329	647	647
6/4/2021	4	320	647	647
6/4/2021	5	313	647	647
6/4/2021	6	306	647	647
6/4/2021	7	313	647	647
6/4/2021	8	340	647	647
6/4/2021	9	376	647	647
6/4/2021	10	397	647	647
6/4/2021	11	412	647	647
6/4/2021	12	409	647	647
6/4/2021	13	417	647	647
6/4/2021	14	433	647	647
6/4/2021	15	431	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/4/2021	16	421	647	647
6/4/2021	17	389	647	647
6/4/2021	18	367	647	647
6/4/2021	19	381	647	647
6/4/2021	20	385	647	647
6/4/2021	21	391	647	647
6/4/2021	22	393	647	647
6/4/2021	23	383	647	647
6/4/2021	24	368	647	647
6/5/2021	1	365	647	550
6/5/2021	2	354	598	550
6/5/2021	3	341	560	550
6/5/2021	4	329	550	500
6/5/2021	5	323	550	466
6/5/2021	6	308	550	455
6/5/2021	7	308	550	455
6/5/2021	8	330	550	455
6/5/2021	9	354	550	455
6/5/2021	10	367	550	539
6/5/2021	11	386	647	550
6/5/2021	12	385	550	550
6/5/2021	13	392	560	550
6/5/2021	14	405	647	550
6/5/2021	15	403	647	550
6/5/2021	16	388	550	540
6/5/2021	17	367	550	520
6/5/2021	18	362	550	500
6/5/2021	19	379	550	550
6/5/2021	20	384	586	550
6/5/2021	21	390	647	550
6/5/2021	22	390	647	550
6/5/2021	23	381	621	550
6/5/2021	24	368	590	550
6/6/2021	1	352	647	550
6/6/2021	2	340	600	500
6/6/2021	3	327	580	500
6/6/2021	4	317	546	480
6/6/2021	5	306	500	460
6/6/2021	6	288	460	430
6/6/2021	7	286	470	420
6/6/2021	8	296	487	460
6/6/2021	9	311	520	500
6/6/2021	10	331	580	550
6/6/2021	11	343	580	550
6/6/2021	12	345	600	500
6/6/2021	13	352	647	540
6/6/2021	14	355	647	550
6/6/2021	15	350	647	550
6/6/2021	16	343	647	550
6/6/2021	17	330	600	515
6/6/2021	18	328	600	500
6/6/2021	19	353	647	500
6/6/2021	20	356	647	500
6/6/2021	21	363	647	550
6/6/2021	22	364	647	550
6/6/2021	23	356	647	550
6/6/2021	24	345	647	550
6/7/2021	1	347	647	550
6/7/2021	2	330	647	550
6/7/2021	3	321	647	550
6/7/2021	4	310	647	550
6/7/2021	5	304	647	550
6/7/2021	6	300	647	550
6/7/2021	7	314	647	550
6/7/2021	8	353	647	550

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/7/2021	9	372	647	550
6/7/2021	10	397	647	550
6/7/2021	11	413	647	550
6/7/2021	12	413	647	550
6/7/2021	13	426	647	550
6/7/2021	14	433	647	550
6/7/2021	15	427	647	550
6/7/2021	16	420	647	550
6/7/2021	17	393	647	550
6/7/2021	18	368	647	550
6/7/2021	19	383	647	550
6/7/2021	20	388	647	550
6/7/2021	21	394	647	550
6/7/2021	22	391	647	550
6/7/2021	23	380	647	550
6/7/2021	24	365	647	550
6/8/2021	1	350	647	550
6/8/2021	2	342	647	550
6/8/2021	3	331	647	550
6/8/2021	4	322	647	550
6/8/2021	5	318	647	550
6/8/2021	6	312	647	550
6/8/2021	7	322	647	550
6/8/2021	8	357	647	550
6/8/2021	9	384	647	550
6/8/2021	10	405	647	550
6/8/2021	11	419	647	550
6/8/2021	12	417	647	550
6/8/2021	13	423	647	550
6/8/2021	14	440	647	550
6/8/2021	15	435	647	550
6/8/2021	16	418	647	550
6/8/2021	17	387	647	550
6/8/2021	18	369	647	550
6/8/2021	19	383	647	550
6/8/2021	20	386	647	550
6/8/2021	21	392	647	550
6/8/2021	22	388	647	550
6/8/2021	23	378	647	550
6/8/2021	24	368	647	550
6/9/2021	1	356	647	550
6/9/2021	2	346	647	550
6/9/2021	3	334	647	550
6/9/2021	4	325	647	550
6/9/2021	5	318	647	550
6/9/2021	6	311	647	550
6/9/2021	7	321	647	550
6/9/2021	8	353	647	550
6/9/2021	9	385	647	550
6/9/2021	10	404	647	550
6/9/2021	11	417	647	550
6/9/2021	12	412	647	550
6/9/2021	13	414	647	550
6/9/2021	14	429	647	550
6/9/2021	15	428	647	550
6/9/2021	16	418	647	550
6/9/2021	17	388	647	550
6/9/2021	18	367	647	550
6/9/2021	19	384	647	550
6/9/2021	20	385	647	550
6/9/2021	21	390	647	550
6/9/2021	22	390	647	550
6/9/2021	23	381	647	550
6/9/2021	24	367	647	550
6/10/2021	1	320	647	550

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/10/2021	2	312	647	550
6/10/2021	3	304	647	550
6/10/2021	4	296	647	550
6/10/2021	5	295	647	550
6/10/2021	6	293	647	550
6/10/2021	7	327	647	550
6/10/2021	8	333	647	550
6/10/2021	9	363	647	550
6/10/2021	10	383	647	550
6/10/2021	11	398	647	550
6/10/2021	12	392	647	550
6/10/2021	13	391	647	550
6/10/2021	14	406	647	550
6/10/2021	15	405	647	550
6/10/2021	16	398	647	550
6/10/2021	17	377	647	550
6/10/2021	18	362	647	550
6/10/2021	19	379	647	550
6/10/2021	20	379	647	550
6/10/2021	21	381	647	550
6/10/2021	22	379	647	550
6/10/2021	23	370	647	550
6/10/2021	24	358	647	550
6/11/2021	1	351	647	550
6/11/2021	2	331	647	550
6/11/2021	3	319	647	550
6/11/2021	4	309	647	550
6/11/2021	5	303	647	550
6/11/2021	6	296	647	550
6/11/2021	7	307	647	550
6/11/2021	8	348	647	550
6/11/2021	9	381	647	550
6/11/2021	10	401	647	550
6/11/2021	11	414	647	550
6/11/2021	12	408	647	550
6/11/2021	13	409	647	550
6/11/2021	14	420	647	550
6/11/2021	15	411	647	550
6/11/2021	16	398	647	550
6/11/2021	17	371	647	550
6/11/2021	18	351	647	550
6/11/2021	19	364	647	550
6/11/2021	20	370	647	550
6/11/2021	21	378	647	550
6/11/2021	22	378	647	550
6/11/2021	23	370	647	550
6/11/2021	24	355	647	550
6/12/2021	1	334	460	455
6/12/2021	2	326	460	455
6/12/2021	3	315	460	455
6/12/2021	4	303	460	455
6/12/2021	5	298	460	455
6/12/2021	6	286	460	455
6/12/2021	7	299	460	455
6/12/2021	8	309	500	500
6/12/2021	9	331	500	500
6/12/2021	10	349	550	550
6/12/2021	11	362	647	550
6/12/2021	12	361	647	550
6/12/2021	13	366	647	550
6/12/2021	14	379	647	550
6/12/2021	15	379	647	550
6/12/2021	16	367	647	550
6/12/2021	17	348	647	550
6/12/2021	18	340	647	550

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/12/2021	19	358	647	550
6/12/2021	20	364	647	550
6/12/2021	21	369	550	550
6/12/2021	22	369	550	550
6/12/2021	23	360	550	550
6/12/2021	24	348	550	550
6/13/2021	1	339	600	550
6/13/2021	2	327	610	510
6/13/2021	3	315	570	500
6/13/2021	4	303	560	470
6/13/2021	5	294	520	440
6/13/2021	6	278	470	400
6/13/2021	7	275	450	380
6/13/2021	8	286	520	400
6/13/2021	9	301	560	400
6/13/2021	10	320	600	430
6/13/2021	11	331	600	460
6/13/2021	12	331	600	460
6/13/2021	13	335	600	460
6/13/2021	14	338	600	460
6/13/2021	15	332	600	460
6/13/2021	16	323	600	460
6/13/2021	17	315	600	460
6/13/2021	18	321	600	500
6/13/2021	19	343	647	550
6/13/2021	20	350	647	550
6/13/2021	21	355	647	550
6/13/2021	22	359	647	550
6/13/2021	23	349	647	550
6/13/2021	24	337	647	550
6/14/2021	1	327	460	455
6/14/2021	2	317	460	455
6/14/2021	3	304	460	455
6/14/2021	4	296	460	455
6/14/2021	5	292	460	455
6/14/2021	6	288	460	455
6/14/2021	7	305	460	455
6/14/2021	8	347	500	500
6/14/2021	9	380	500	500
6/14/2021	10	401	550	550
6/14/2021	11	415	647	550
6/14/2021	12	410	647	550
6/14/2021	13	413	647	550
6/14/2021	14	419	647	550
6/14/2021	15	412	647	550
6/14/2021	16	395	647	550
6/14/2021	17	371	647	550
6/14/2021	18	361	647	550
6/14/2021	19	369	647	550
6/14/2021	20	371	647	550
6/14/2021	21	372	550	550
6/14/2021	22	366	550	550
6/14/2021	23	356	550	550
6/14/2021	24	343	550	550
6/15/2021	1	329	460	460
6/15/2021	2	320	460	460
6/15/2021	3	308	460	460
6/15/2021	4	301	460	460
6/15/2021	5	296	460	460
6/15/2021	6	294	460	460
6/15/2021	7	324	550	500
6/15/2021	8	337	550	500
6/15/2021	9	375	647	550
6/15/2021	10	395	647	550
6/15/2021	11	408	647	550

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/15/2021	12	405	647	550
6/15/2021	13	406	647	550
6/15/2021	14	412	647	550
6/15/2021	15	405	647	550
6/15/2021	16	390	647	550
6/15/2021	17	367	647	550
6/15/2021	18	358	647	550
6/15/2021	19	365	647	550
6/15/2021	20	367	647	550
6/15/2021	21	367	550	550
6/15/2021	22	361	550	550
6/15/2021	23	352	550	550
6/15/2021	24	340	550	550
6/16/2021	1	338	465	465
6/16/2021	2	329	465	465
6/16/2021	3	316	465	465
6/16/2021	4	307	465	465
6/16/2021	5	302	465	465
6/16/2021	6	295	465	465
6/16/2021	7	309	465	465
6/16/2021	8	344	550	500
6/16/2021	9	374	647	550
6/16/2021	10	395	647	550
6/16/2021	11	407	647	550
6/16/2021	12	403	647	550
6/16/2021	13	410	647	550
6/16/2021	14	425	647	550
6/16/2021	15	420	647	550
6/16/2021	16	409	647	550
6/16/2021	17	387	647	550
6/16/2021	18	370	647	550
6/16/2021	19	384	647	550
6/16/2021	20	382	647	550
6/16/2021	21	385	550	550
6/16/2021	22	376	550	550
6/16/2021	23	369	550	550
6/16/2021	24	356	550	550
6/17/2021	1	369	465	465
6/17/2021	2	355	465	465
6/17/2021	3	340	465	465
6/17/2021	4	329	465	465
6/17/2021	5	323	465	465
6/17/2021	6	317	465	465
6/17/2021	7	327	465	465
6/17/2021	8	362	550	500
6/17/2021	9	393	647	550
6/17/2021	10	415	647	550
6/17/2021	11	430	647	550
6/17/2021	12	427	647	550
6/17/2021	13	435	647	550
6/17/2021	14	454	647	550
6/17/2021	15	452	647	550
6/17/2021	16	443	647	550
6/17/2021	17	414	647	550
6/17/2021	18	387	647	550
6/17/2021	19	402	647	550
6/17/2021	20	406	647	550
6/17/2021	21	413	647	550
6/17/2021	22	412	647	550
6/17/2021	23	404	647	550
6/17/2021	24	387	647	550
6/18/2021	1	369	550	550
6/18/2021	2	343	465	465
6/18/2021	3	334	465	465
6/18/2021	4	326	465	465

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/18/2021	5	320	465	465
6/18/2021	6	314	465	465
6/18/2021	7	324	550	500
6/18/2021	8	359	550	500
6/18/2021	9	390	647	560
6/18/2021	10	412	647	560
6/18/2021	11	426	647	560
6/18/2021	12	418	647	560
6/18/2021	13	422	647	560
6/18/2021	14	436	647	560
6/18/2021	15	432	647	560
6/18/2021	16	418	647	560
6/18/2021	17	392	647	560
6/18/2021	18	377	647	560
6/18/2021	19	389	647	560
6/18/2021	20	392	647	560
6/18/2021	21	396	647	560
6/18/2021	22	392	647	560
6/18/2021	23	375	647	560
6/18/2021	24	362	647	560
6/19/2021	1	351	550	550
6/19/2021	2	339	550	550
6/19/2021	3	327	550	550
6/19/2021	4	317	465	465
6/19/2021	5	310	465	465
6/19/2021	6	298	465	465
6/19/2021	7	300	500	465
6/19/2021	8	328	550	550
6/19/2021	9	359	647	550
6/19/2021	10	377	647	550
6/19/2021	11	392	647	550
6/19/2021	12	389	647	550
6/19/2021	13	395	647	550
6/19/2021	14	408	647	550
6/19/2021	15	405	647	550
6/19/2021	16	391	647	550
6/19/2021	17	369	647	550
6/19/2021	18	363	647	550
6/19/2021	19	382	647	550
6/19/2021	20	386	647	550
6/19/2021	21	391	647	550
6/19/2021	22	391	647	550
6/19/2021	23	378	647	550
6/19/2021	24	360	647	550
6/20/2021	1	321	600	550
6/20/2021	2	310	570	510
6/20/2021	3	298	540	500
6/20/2021	4	290	510	470
6/20/2021	5	284	480	440
6/20/2021	6	274	451	380
6/20/2021	7	277	450	380
6/20/2021	8	292	520	400
6/20/2021	9	311	560	400
6/20/2021	10	333	600	430
6/20/2021	11	346	600	460
6/20/2021	12	343	600	460
6/20/2021	13	347	600	460
6/20/2021	14	351	615	460
6/20/2021	15	340	600	460
6/20/2021	16	328	600	460
6/20/2021	17	320	600	460
6/20/2021	18	327	600	500
6/20/2021	19	351	647	550
6/20/2021	20	355	647	550
6/20/2021	21	354	647	550

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/20/2021	22	352	647	550
6/20/2021	23	340	600	500
6/20/2021	24	326	600	500
6/21/2021	1	314	465	465
6/21/2021	2	303	465	465
6/21/2021	3	295	465	465
6/21/2021	4	290	465	465
6/21/2021	5	286	465	465
6/21/2021	6	291	465	465
6/21/2021	7	309	500	465
6/21/2021	8	346	550	550
6/21/2021	9	387	647	550
6/21/2021	10	409	647	550
6/21/2021	11	428	647	550
6/21/2021	12	420	647	550
6/21/2021	13	424	647	550
6/21/2021	14	437	647	550
6/21/2021	15	432	647	550
6/21/2021	16	422	647	550
6/21/2021	17	398	647	550
6/21/2021	18	381	647	550
6/21/2021	19	395	647	550
6/21/2021	20	394	647	550
6/21/2021	21	395	647	550
6/21/2021	22	388	647	550
6/21/2021	23	381	647	550
6/21/2021	24	364	647	550
6/22/2021	1	332	500	480
6/22/2021	2	322	465	465
6/22/2021	3	312	465	465
6/22/2021	4	302	465	465
6/22/2021	5	299	465	465
6/22/2021	6	297	465	465
6/22/2021	7	314	580	465
6/22/2021	8	343	580	550
6/22/2021	9	374	647	580
6/22/2021	10	393	647	580
6/22/2021	11	409	647	580
6/22/2021	12	403	647	580
6/22/2021	13	403	647	580
6/22/2021	14	412	647	580
6/22/2021	15	405	647	580
6/22/2021	16	395	647	580
6/22/2021	17	373	647	580
6/22/2021	18	360	647	580
6/22/2021	19	372	647	580
6/22/2021	20	371	647	580
6/22/2021	21	374	647	580
6/22/2021	22	368	647	580
6/22/2021	23	358	647	580
6/22/2021	24	345	647	580
6/23/2021	1	347	550	500
6/23/2021	2	337	465	465
6/23/2021	3	324	465	465
6/23/2021	4	315	465	465
6/23/2021	5	310	465	465
6/23/2021	6	303	465	465
6/23/2021	7	311	550	500
6/23/2021	8	347	550	500
6/23/2021	9	379	647	580
6/23/2021	10	398	647	580
6/23/2021	11	409	647	580
6/23/2021	12	405	647	580
6/23/2021	13	409	647	580
6/23/2021	14	417	647	580

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/23/2021	15	412	647	580
6/23/2021	16	402	647	580
6/23/2021	17	377	647	580
6/23/2021	18	367	647	580
6/23/2021	19	375	647	580
6/23/2021	20	377	647	580
6/23/2021	21	375	647	580
6/23/2021	22	372	647	580
6/23/2021	23	363	647	580
6/23/2021	24	346	647	580
6/24/2021	1	324	550	500
6/24/2021	2	314	465	465
6/24/2021	3	304	465	465
6/24/2021	4	298	465	465
6/24/2021	5	296	465	465
6/24/2021	6	293	465	465
6/24/2021	7	291	490	480
6/24/2021	8	336	550	500
6/24/2021	9	369	647	580
6/24/2021	10	391	647	580
6/24/2021	11	405	647	580
6/24/2021	12	401	647	580
6/24/2021	13	406	647	580
6/24/2021	14	418	647	580
6/24/2021	15	412	647	580
6/24/2021	16	399	647	580
6/24/2021	17	376	647	580
6/24/2021	18	361	647	580
6/24/2021	19	373	647	580
6/24/2021	20	373	647	580
6/24/2021	21	375	647	580
6/24/2021	22	368	647	580
6/24/2021	23	357	647	580
6/24/2021	24	346	647	580
6/25/2021	1	334	550	500
6/25/2021	2	325	465	465
6/25/2021	3	315	465	465
6/25/2021	4	308	465	465
6/25/2021	5	305	465	465
6/25/2021	6	301	465	465
6/25/2021	7	319	490	480
6/25/2021	8	351	647	580
6/25/2021	9	381	647	580
6/25/2021	10	402	647	580
6/25/2021	11	416	647	580
6/25/2021	12	403	647	580
6/25/2021	13	402	647	580
6/25/2021	14	412	647	580
6/25/2021	15	407	647	580
6/25/2021	16	395	647	580
6/25/2021	17	374	647	580
6/25/2021	18	363	647	580
6/25/2021	19	374	647	580
6/25/2021	20	374	647	580
6/25/2021	21	375	647	580
6/25/2021	22	368	647	580
6/25/2021	23	352	647	580
6/25/2021	24	341	647	580
6/26/2021	1	343	550	500
6/26/2021	2	342	465	465
6/26/2021	3	334	465	465
6/26/2021	4	323	465	465
6/26/2021	5	317	465	465
6/26/2021	6	301	465	465
6/26/2021	7	312	465	465

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/26/2021	8	337	550	500
6/26/2021	9	361	647	580
6/26/2021	10	379	647	580
6/26/2021	11	393	647	580
6/26/2021	12	391	647	580
6/26/2021	13	395	647	580
6/26/2021	14	408	647	580
6/26/2021	15	404	647	580
6/26/2021	16	393	647	580
6/26/2021	17	370	647	580
6/26/2021	18	360	647	580
6/26/2021	19	380	647	580
6/26/2021	20	386	647	580
6/26/2021	21	388	647	580
6/26/2021	22	389	647	580
6/26/2021	23	378	647	580
6/26/2021	24	362	647	580
6/27/2021	1	360	647	580
6/27/2021	2	348	647	580
6/27/2021	3	333	607	540
6/27/2021	4	324	580	500
6/27/2021	5	316	580	500
6/27/2021	6	301	550	477
6/27/2021	7	297	550	460
6/27/2021	8	310	580	500
6/27/2021	9	322	600	540
6/27/2021	10	345	647	580
6/27/2021	11	355	647	580
6/27/2021	12	354	647	580
6/27/2021	13	357	647	580
6/27/2021	14	364	647	580
6/27/2021	15	361	647	580
6/27/2021	16	349	647	580
6/27/2021	17	337	647	580
6/27/2021	18	339	647	580
6/27/2021	19	358	647	580
6/27/2021	20	360	647	580
6/27/2021	21	365	647	580
6/27/2021	22	363	647	580
6/27/2021	23	354	647	580
6/27/2021	24	343	647	580
6/28/2021	1	333	550	500
6/28/2021	2	324	465	465
6/28/2021	3	315	465	465
6/28/2021	4	305	465	465
6/28/2021	5	305	465	465
6/28/2021	6	304	465	465
6/28/2021	7	319	490	480
6/28/2021	8	357	550	550
6/28/2021	9	395	647	580
6/28/2021	10	421	647	580
6/28/2021	11	428	647	580
6/28/2021	12	419	647	580
6/28/2021	13	418	647	580
6/28/2021	14	429	647	580
6/28/2021	15	422	647	580
6/28/2021	16	412	647	580
6/28/2021	17	389	647	580
6/28/2021	18	375	647	580
6/28/2021	19	389	647	580
6/28/2021	20	391	647	580
6/28/2021	21	392	647	580
6/28/2021	22	382	647	580
6/28/2021	23	372	647	580
6/28/2021	24	357	647	580

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/29/2021	1	331	550	500
6/29/2021	2	321	465	465
6/29/2021	3	309	465	465
6/29/2021	4	304	465	465
6/29/2021	5	302	465	465
6/29/2021	6	299	465	465
6/29/2021	7	310	490	480
6/29/2021	8	342	550	550
6/29/2021	9	368	647	580
6/29/2021	10	390	647	580
6/29/2021	11	407	647	580
6/29/2021	12	403	647	580
6/29/2021	13	407	647	580
6/29/2021	14	405	647	580
6/29/2021	15	399	647	580
6/29/2021	16	393	647	580
6/29/2021	17	372	647	580
6/29/2021	18	360	647	580
6/29/2021	19	375	647	580
6/29/2021	20	375	647	580
6/29/2021	21	373	647	580
6/29/2021	22	367	647	580
6/29/2021	23	356	647	580
6/29/2021	24	335	647	580
6/30/2021	1	336	550	500
6/30/2021	2	318	465	465
6/30/2021	3	307	465	465
6/30/2021	4	302	465	465
6/30/2021	5	300	465	465
6/30/2021	6	294	465	465
6/30/2021	7	306	490	480
6/30/2021	8	346	550	550
6/30/2021	9	376	647	580
6/30/2021	10	397	647	580
6/30/2021	11	412	647	580
6/30/2021	12	409	647	580
6/30/2021	13	412	647	580
6/30/2021	14	413	647	580
6/30/2021	15	407	647	580
6/30/2021	16	399	647	580
6/30/2021	17	376	647	580
6/30/2021	18	362	647	580
6/30/2021	19	372	647	580
6/30/2021	20	370	647	580
6/30/2021	21	367	647	580
6/30/2021	22	358	647	580
6/30/2021	23	349	647	580
6/30/2021	24	335	647	580
7/1/2021	1	331	550	550
7/1/2021	2	319	550	550
7/1/2021	3	306	500	500
7/1/2021	4	299	500	465
7/1/2021	5	297	465	465
7/1/2021	6	296	465	465
7/1/2021	7	308	490	480
7/1/2021	8	342	550	550
7/1/2021	9	376	647	580
7/1/2021	10	399	647	580
7/1/2021	11	418	647	580
7/1/2021	12	413	647	580
7/1/2021	13	419	647	580
7/1/2021	14	424	647	580
7/1/2021	15	419	647	580
7/1/2021	16	410	647	580
7/1/2021	17	385	647	580

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/1/2021	18	367	647	580
7/1/2021	19	384	647	580
7/1/2021	20	387	647	580
7/1/2021	21	389	647	580
7/1/2021	22	383	647	580
7/1/2021	23	372	647	580
7/1/2021	24	325	647	580
7/2/2021	1	353	647	580
7/2/2021	2	338	647	580
7/2/2021	3	329	540	500
7/2/2021	4	319	500	465
7/2/2021	5	317	465	465
7/2/2021	6	311	465	465
7/2/2021	7	321	490	480
7/2/2021	8	358	550	550
7/2/2021	9	361	647	580
7/2/2021	10	374	647	580
7/2/2021	11	388	647	580
7/2/2021	12	417	647	580
7/2/2021	13	418	647	580
7/2/2021	14	416	647	580
7/2/2021	15	385	647	580
7/2/2021	16	381	647	580
7/2/2021	17	388	647	580
7/2/2021	18	368	647	580
7/2/2021	19	363	647	580
7/2/2021	20	387	647	580
7/2/2021	21	364	647	580
7/2/2021	22	380	647	580
7/2/2021	23	360	647	580
7/2/2021	24	328	647	580
7/3/2021	1	326	600	550
7/3/2021	2	315	550	500
7/3/2021	3	303	540	500
7/3/2021	4	295	500	465
7/3/2021	5	291	465	465
7/3/2021	6	286	465	465
7/3/2021	7	288	465	465
7/3/2021	8	316	550	500
7/3/2021	9	344	647	580
7/3/2021	10	365	647	580
7/3/2021	11	377	647	580
7/3/2021	12	370	647	580
7/3/2021	13	370	647	580
7/3/2021	14	369	647	580
7/3/2021	15	362	647	580
7/3/2021	16	356	647	580
7/3/2021	17	343	647	580
7/3/2021	18	342	647	580
7/3/2021	19	360	647	580
7/3/2021	20	363	647	580
7/3/2021	21	366	647	580
7/3/2021	22	358	647	580
7/3/2021	23	350	647	580
7/3/2021	24	335	647	580
7/4/2021	1	353	647	580
7/4/2021	2	341	647	580
7/4/2021	3	327	647	580
7/4/2021	4	318	647	580
7/4/2021	5	310	647	550
7/4/2021	6	295	600	522
7/4/2021	7	292	580	500
7/4/2021	8	304	550	530
7/4/2021	9	316	647	550
7/4/2021	10	339	647	580

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/4/2021	11	348	647	580
7/4/2021	12	348	647	580
7/4/2021	13	350	647	580
7/4/2021	14	357	647	580
7/4/2021	15	354	647	580
7/4/2021	16	342	647	580
7/4/2021	17	330	647	580
7/4/2021	18	333	647	580
7/4/2021	19	351	647	580
7/4/2021	20	353	647	580
7/4/2021	21	358	647	580
7/4/2021	22	356	647	580
7/4/2021	23	347	647	580
7/4/2021	24	336	647	580
7/5/2021	1	320	600	550
7/5/2021	2	308	550	500
7/5/2021	3	298	540	500
7/5/2021	4	290	500	465
7/5/2021	5	289	465	465
7/5/2021	6	290	465	465
7/5/2021	7	305	465	465
7/5/2021	8	340	550	500
7/5/2021	9	375	647	580
7/5/2021	10	397	647	580
7/5/2021	11	416	647	580
7/5/2021	12	414	647	580
7/5/2021	13	415	647	580
7/5/2021	14	423	647	580
7/5/2021	15	420	647	580
7/5/2021	16	405	647	580
7/5/2021	17	379	647	580
7/5/2021	18	359	647	580
7/5/2021	19	371	647	580
7/5/2021	20	365	647	580
7/5/2021	21	370	647	580
7/5/2021	22	360	647	580
7/5/2021	23	349	647	580
7/5/2021	24	338	647	580
7/6/2021	1	312	560	550
7/6/2021	2	302	560	500
7/6/2021	3	293	550	500
7/6/2021	4	287	500	480
7/6/2021	5	288	500	480
7/6/2021	6	286	550	500
7/6/2021	7	297	550	550
7/6/2021	8	331	647	580
7/6/2021	9	362	647	580
7/6/2021	10	383	647	580
7/6/2021	11	394	647	580
7/6/2021	12	389	647	580
7/6/2021	13	392	647	580
7/6/2021	14	393	647	580
7/6/2021	15	388	647	580
7/6/2021	16	379	647	580
7/6/2021	17	356	647	580
7/6/2021	18	341	647	580
7/6/2021	19	352	647	580
7/6/2021	20	354	647	580
7/6/2021	21	355	647	580
7/6/2021	22	348	647	580
7/6/2021	23	334	647	580
7/6/2021	24	315	647	580
7/7/2021	1	335	647	580
7/7/2021	2	323	600	530
7/7/2021	3	311	550	500

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/7/2021	4	302	500	480
7/7/2021	5	297	500	480
7/7/2021	6	289	550	480
7/7/2021	7	302	550	550
7/7/2021	8	341	647	580
7/7/2021	9	369	647	580
7/7/2021	10	389	647	580
7/7/2021	11	401	647	580
7/7/2021	12	397	647	580
7/7/2021	13	404	647	580
7/7/2021	14	405	647	580
7/7/2021	15	400	647	580
7/7/2021	16	385	647	580
7/7/2021	17	355	647	580
7/7/2021	18	334	647	580
7/7/2021	19	348	647	580
7/7/2021	20	357	647	580
7/7/2021	21	366	647	580
7/7/2021	22	366	647	580
7/7/2021	23	356	647	580
7/7/2021	24	315	647	580
7/8/2021	1	300	500	460
7/8/2021	2	288	500	500
7/8/2021	3	281	548	480
7/8/2021	4	277	548	480
7/8/2021	5	275	548	480
7/8/2021	6	278	548	480
7/8/2021	7	298	548	500
7/8/2021	8	337	580	548
7/8/2021	9	368	600	580
7/8/2021	10	389	647	580
7/8/2021	11	406	647	580
7/8/2021	12	399	647	580
7/8/2021	13	403	647	580
7/8/2021	14	401	647	580
7/8/2021	15	391	647	580
7/8/2021	16	380	647	580
7/8/2021	17	360	647	580
7/8/2021	18	347	647	580
7/8/2021	19	359	647	580
7/8/2021	20	357	647	580
7/8/2021	21	356	647	580
7/8/2021	22	346	647	580
7/8/2021	23	337	647	580
7/8/2021	24	325	647	580
7/9/2021	1	324	500	500
7/9/2021	2	313	500	500
7/9/2021	3	304	500	480
7/9/2021	4	297	500	480
7/9/2021	5	296	500	480
7/9/2021	6	295	500	480
7/9/2021	7	307	500	500
7/9/2021	8	341	550	500
7/9/2021	9	370	600	580
7/9/2021	10	387	647	580
7/9/2021	11	404	647	580
7/9/2021	12	396	647	580
7/9/2021	13	400	647	580
7/9/2021	14	401	647	580
7/9/2021	15	391	647	580
7/9/2021	16	366	647	580
7/9/2021	17	353	647	580
7/9/2021	18	344	647	580
7/9/2021	19	350	647	580
7/9/2021	20	348	647	580

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/9/2021	21	345	647	580
7/9/2021	22	335	647	580
7/9/2021	23	325	647	580
7/9/2021	24	336	647	580
7/10/2021	1	332	550	550
7/10/2021	2	323	550	500
7/10/2021	3	315	500	480
7/10/2021	4	305	500	480
7/10/2021	5	300	500	480
7/10/2021	6	291	500	480
7/10/2021	7	292	500	480
7/10/2021	8	311	500	490
7/10/2021	9	335	647	590
7/10/2021	10	350	647	590
7/10/2021	11	360	647	590
7/10/2021	12	348	600	550
7/10/2021	13	345	600	550
7/10/2021	14	336	600	550
7/10/2021	15	329	600	550
7/10/2021	16	327	600	550
7/10/2021	17	319	600	550
7/10/2021	18	322	600	550
7/10/2021	19	336	647	590
7/10/2021	20	339	647	590
7/10/2021	21	337	580	550
7/10/2021	22	331	580	550
7/10/2021	23	318	580	550
7/10/2021	24	305	580	550
7/11/2021	1	311	550	450
7/11/2021	2	297	530	450
7/11/2021	3	291	510	450
7/11/2021	4	283	510	450
7/11/2021	5	276	490	450
7/11/2021	6	269	480	450
7/11/2021	7	262	480	420
7/11/2021	8	262	510	400
7/11/2021	9	273	541	420
7/11/2021	10	290	570	450
7/11/2021	11	310	600	467
7/11/2021	12	323	600	502
7/11/2021	13	320	600	507
7/11/2021	14	319	600	507
7/11/2021	15	320	600	507
7/11/2021	16	318	600	507
7/11/2021	17	313	600	507
7/11/2021	18	311	600	507
7/11/2021	19	315	600	516
7/11/2021	20	334	626	530
7/11/2021	21	337	647	550
7/11/2021	22	337	647	540
7/11/2021	23	333	647	530
7/11/2021	24	321	642	500
7/12/2021	1	304	550	500
7/12/2021	2	293	500	480
7/12/2021	3	286	500	480
7/12/2021	4	282	480	470
7/12/2021	5	280	480	470
7/12/2021	6	283	480	470
7/12/2021	7	302	550	500
7/12/2021	8	341	647	590
7/12/2021	9	377	647	590
7/12/2021	10	397	647	590
7/12/2021	11	414	647	590
7/12/2021	12	407	647	590
7/12/2021	13	411	647	590

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/12/2021	14	422	647	590
7/12/2021	15	412	647	590
7/12/2021	16	400	647	590
7/12/2021	17	379	647	590
7/12/2021	18	366	647	590
7/12/2021	19	378	647	590
7/12/2021	20	377	647	590
7/12/2021	21	375	647	590
7/12/2021	22	366	647	590
7/12/2021	23	356	647	590
7/12/2021	24	344	647	590
7/13/2021	1	335	620	590
7/13/2021	2	324	600	550
7/13/2021	3	312	600	550
7/13/2021	4	304	590	520
7/13/2021	5	299	590	520
7/13/2021	6	295	550	500
7/13/2021	7	308	590	580
7/13/2021	8	339	600	590
7/13/2021	9	370	647	590
7/13/2021	10	390	647	590
7/13/2021	11	400	647	590
7/13/2021	12	398	647	590
7/13/2021	13	405	647	590
7/13/2021	14	409	647	590
7/13/2021	15	404	647	590
7/13/2021	16	394	647	590
7/13/2021	17	374	647	590
7/13/2021	18	358	647	590
7/13/2021	19	370	647	590
7/13/2021	20	374	647	590
7/13/2021	21	375	647	590
7/13/2021	22	370	647	590
7/13/2021	23	358	647	590
7/13/2021	24	347	647	590
7/14/2021	1	342	647	590
7/14/2021	2	332	647	590
7/14/2021	3	319	600	550
7/14/2021	4	311	600	500
7/14/2021	5	306	600	500
7/14/2021	6	302	600	500
7/14/2021	7	315	620	530
7/14/2021	8	347	647	590
7/14/2021	9	378	647	590
7/14/2021	10	399	647	590
7/14/2021	11	410	647	590
7/14/2021	12	408	647	590
7/14/2021	13	415	647	590
7/14/2021	14	419	647	590
7/14/2021	15	414	647	590
7/14/2021	16	404	647	590
7/14/2021	17	383	647	590
7/14/2021	18	366	647	590
7/14/2021	19	379	647	590
7/14/2021	20	383	647	590
7/14/2021	21	384	647	590
7/14/2021	22	379	647	590
7/14/2021	23	366	647	590
7/14/2021	24	323	647	590
7/15/2021	1	314	600	550
7/15/2021	2	303	550	500
7/15/2021	3	294	550	500
7/15/2021	4	288	550	500
7/15/2021	5	287	550	500
7/15/2021	6	286	550	500

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/15/2021	7	299	550	500
7/15/2021	8	332	600	550
7/15/2021	9	338	647	590
7/15/2021	10	356	647	590
7/15/2021	11	374	647	590
7/15/2021	12	374	647	590
7/15/2021	13	389	647	590
7/15/2021	14	390	647	590
7/15/2021	15	375	647	590
7/15/2021	16	363	647	590
7/15/2021	17	356	647	590
7/15/2021	18	342	647	590
7/15/2021	19	348	647	590
7/15/2021	20	346	647	590
7/15/2021	21	343	647	590
7/15/2021	22	340	647	590
7/15/2021	23	330	647	590
7/15/2021	24	329	647	590
7/16/2021	1	342	647	590
7/16/2021	2	330	600	550
7/16/2021	3	316	550	500
7/16/2021	4	306	500	480
7/16/2021	5	302	500	480
7/16/2021	6	299	500	480
7/16/2021	7	310	600	530
7/16/2021	8	344	600	590
7/16/2021	9	377	647	590
7/16/2021	10	397	647	590
7/16/2021	11	410	647	590
7/16/2021	12	395	647	590
7/16/2021	13	397	647	590
7/16/2021	14	413	647	590
7/16/2021	15	403	647	590
7/16/2021	16	397	647	590
7/16/2021	17	381	647	590
7/16/2021	18	364	610	550
7/16/2021	19	382	647	590
7/16/2021	20	384	647	590
7/16/2021	21	383	647	590
7/16/2021	22	376	647	590
7/16/2021	23	365	647	590
7/16/2021	24	353	647	590
7/17/2021	1	336	647	590
7/17/2021	2	326	550	500
7/17/2021	3	316	500	480
7/17/2021	4	308	480	470
7/17/2021	5	301	480	470
7/17/2021	6	294	480	470
7/17/2021	7	296	480	470
7/17/2021	8	318	520	500
7/17/2021	9	348	550	500
7/17/2021	10	360	550	500
7/17/2021	11	379	647	590
7/17/2021	12	369	647	590
7/17/2021	13	368	647	590
7/17/2021	14	379	647	590
7/17/2021	15	373	647	590
7/17/2021	16	358	580	570
7/17/2021	17	345	580	570
7/17/2021	18	344	600	580
7/17/2021	19	363	647	590
7/17/2021	20	367	647	590
7/17/2021	21	366	647	590
7/17/2021	22	359	647	590
7/17/2021	23	350	630	580

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/17/2021	24	339	630	580
7/18/2021	1	301	600	570
7/18/2021	2	294	570	540
7/18/2021	3	287	540	500
7/18/2021	4	279	500	480
7/18/2021	5	272	480	450
7/18/2021	6	265	450	411
7/18/2021	7	265	450	400
7/18/2021	8	276	470	400
7/18/2021	9	293	500	420
7/18/2021	10	313	590	460
7/18/2021	11	326	590	500
7/18/2021	12	324	590	530
7/18/2021	13	322	590	530
7/18/2021	14	324	590	520
7/18/2021	15	322	590	480
7/18/2021	16	317	570	480
7/18/2021	17	315	580	510
7/18/2021	18	318	610	550
7/18/2021	19	338	647	590
7/18/2021	20	341	647	590
7/18/2021	21	341	647	590
7/18/2021	22	337	647	590
7/18/2021	23	325	647	590
7/18/2021	24	311	620	570
7/19/2021	1	311	668	460
7/19/2021	2	302	668	460
7/19/2021	3	293	668	455
7/19/2021	4	285	668	450
7/19/2021	5	284	668	450
7/19/2021	6	284	668	450
7/19/2021	7	302	668	460
7/19/2021	8	339	668	460
7/19/2021	9	368	668	460
7/19/2021	10	393	668	560
7/19/2021	11	407	668	647
7/19/2021	12	399	668	647
7/19/2021	13	400	668	647
7/19/2021	14	408	668	647
7/19/2021	15	401	668	647
7/19/2021	16	392	668	647
7/19/2021	17	371	668	647
7/19/2021	18	357	668	580
7/19/2021	19	373	668	647
7/19/2021	20	374	668	647
7/19/2021	21	374	668	647
7/19/2021	22	368	668	647
7/19/2021	23	355	668	590
7/19/2021	24	342	668	590
7/20/2021	1	334	550	500
7/20/2021	2	323	550	500
7/20/2021	3	311	500	480
7/20/2021	4	304	480	480
7/20/2021	5	298	480	480
7/20/2021	6	295	480	470
7/20/2021	7	307	480	470
7/20/2021	8	338	500	470
7/20/2021	9	369	550	500
7/20/2021	10	389	550	500
7/20/2021	11	399	600	550
7/20/2021	12	397	600	550
7/20/2021	13	404	600	550
7/20/2021	14	408	647	590
7/20/2021	15	403	550	500
7/20/2021	16	393	550	500

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/20/2021	17	374	550	500
7/20/2021	18	357	550	500
7/20/2021	19	369	550	500
7/20/2021	20	374	550	500
7/20/2021	21	374	550	500
7/20/2021	22	369	550	500
7/20/2021	23	357	550	500
7/20/2021	24	315	600	550
7/21/2021	1	334	600	590
7/21/2021	2	323	600	560
7/21/2021	3	311	580	530
7/21/2021	4	304	550	490
7/21/2021	5	298	530	460
7/21/2021	6	295	530	460
7/21/2021	7	307	550	470
7/21/2021	8	338	580	510
7/21/2021	9	369	600	590
7/21/2021	10	389	647	590
7/21/2021	11	399	647	590
7/21/2021	12	397	647	590
7/21/2021	13	404	647	590
7/21/2021	14	408	647	590
7/21/2021	15	403	647	590
7/21/2021	16	393	647	590
7/21/2021	17	374	620	570
7/21/2021	18	357	610	570
7/21/2021	19	369	647	590
7/21/2021	20	374	647	590
7/21/2021	21	374	647	590
7/21/2021	22	369	647	590
7/21/2021	23	357	647	590
7/21/2021	24	315	590	540
7/22/2021	1	336	550	500
7/22/2021	2	323	550	500
7/22/2021	3	314	500	480
7/22/2021	4	304	500	480
7/22/2021	5	302	500	480
7/22/2021	6	302	500	480
7/22/2021	7	315	560	550
7/22/2021	8	350	600	570
7/22/2021	9	382	647	590
7/22/2021	10	395	647	590
7/22/2021	11	391	647	590
7/22/2021	12	392	647	590
7/22/2021	13	390	647	590
7/22/2021	14	387	647	590
7/22/2021	15	380	647	590
7/22/2021	16	371	647	590
7/22/2021	17	353	647	590
7/22/2021	18	345	647	590
7/22/2021	19	353	647	590
7/22/2021	20	348	647	590
7/22/2021	21	344	647	590
7/22/2021	22	333	580	550
7/22/2021	23	321	580	550
7/22/2021	24	352	647	590
7/23/2021	1	331	647	455
7/23/2021	2	320	600	500
7/23/2021	3	309	550	548
7/23/2021	4	301	550	548
7/23/2021	5	297	550	548
7/23/2021	6	294	550	548
7/23/2021	7	304	550	548
7/23/2021	8	315	550	548
7/23/2021	9	338	647	590

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/23/2021	10	356	647	590
7/23/2021	11	369	647	590
7/23/2021	12	363	647	590
7/23/2021	13	365	647	590
7/23/2021	14	363	647	590
7/23/2021	15	358	647	590
7/23/2021	16	346	600	550
7/23/2021	17	329	600	550
7/23/2021	18	325	580	520
7/23/2021	19	339	647	590
7/23/2021	20	342	647	590
7/23/2021	21	344	647	590
7/23/2021	22	340	600	590
7/23/2021	23	330	580	550
7/23/2021	24	331	550	500
7/24/2021	1	328	550	480
7/24/2021	2	318	550	480
7/24/2021	3	307	550	480
7/24/2021	4	299	500	470
7/24/2021	5	294	500	470
7/24/2021	6	286	500	470
7/24/2021	7	289	500	470
7/24/2021	8	280	500	470
7/24/2021	9	295	550	480
7/24/2021	10	314	550	480
7/24/2021	11	325	550	480
7/24/2021	12	324	550	480
7/24/2021	13	326	550	480
7/24/2021	14	320	550	480
7/24/2021	15	317	550	480
7/24/2021	16	309	550	480
7/24/2021	17	304	590	560
7/24/2021	18	305	590	560
7/24/2021	19	326	647	590
7/24/2021	20	331	647	590
7/24/2021	21	335	647	590
7/24/2021	22	332	560	550
7/24/2021	23	321	500	480
7/24/2021	24	317	500	480
7/25/2021	1	282	465	420
7/25/2021	2	276	450	420
7/25/2021	3	269	420	400
7/25/2021	4	262	400	400
7/25/2021	5	256	400	380
7/25/2021	6	249	400	380
7/25/2021	7	248	400	380
7/25/2021	8	259	420	400
7/25/2021	9	276	450	450
7/25/2021	10	294	500	480
7/25/2021	11	306	530	510
7/25/2021	12	304	530	510
7/25/2021	13	302	530	510
7/25/2021	14	304	530	510
7/25/2021	15	302	560	510
7/25/2021	16	297	600	550
7/25/2021	17	296	647	567
7/25/2021	18	299	647	590
7/25/2021	19	317	647	590
7/25/2021	20	320	647	590
7/25/2021	21	321	647	590
7/25/2021	22	316	647	590
7/25/2021	23	305	647	550
7/25/2021	24	292	500	500
7/26/2021	1	288	490	470
7/26/2021	2	277	480	470

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/26/2021	3	270	480	470
7/26/2021	4	266	480	470
7/26/2021	5	264	480	470
7/26/2021	6	267	480	470
7/26/2021	7	286	500	480
7/26/2021	8	325	590	550
7/26/2021	9	342	590	550
7/26/2021	10	362	647	590
7/26/2021	11	378	647	590
7/26/2021	12	372	647	590
7/26/2021	13	376	647	590
7/26/2021	14	386	647	590
7/26/2021	15	376	647	590
7/26/2021	16	365	647	590
7/26/2021	17	344	647	590
7/26/2021	18	331	647	590
7/26/2021	19	343	647	590
7/26/2021	20	341	600	550
7/26/2021	21	340	600	590
7/26/2021	22	330	600	530
7/26/2021	23	321	600	530
7/26/2021	24	309	600	530
7/27/2021	1	317	647	590
7/27/2021	2	307	620	570
7/27/2021	3	297	580	520
7/27/2021	4	291	500	480
7/27/2021	5	289	500	480
7/27/2021	6	287	500	480
7/27/2021	7	299	550	500
7/27/2021	8	332	647	590
7/27/2021	9	362	647	590
7/27/2021	10	382	647	590
7/27/2021	11	395	647	590
7/27/2021	12	389	647	590
7/27/2021	13	391	647	590
7/27/2021	14	391	647	590
7/27/2021	15	386	647	590
7/27/2021	16	376	647	590
7/27/2021	17	354	647	590
7/27/2021	18	339	647	590
7/27/2021	19	351	647	590
7/27/2021	20	352	647	590
7/27/2021	21	354	647	590
7/27/2021	22	349	647	590
7/27/2021	23	336	647	590
7/27/2021	24	320	647	590
7/28/2021	1	317	550	500
7/28/2021	2	307	500	480
7/28/2021	3	297	480	460
7/28/2021	4	291	480	460
7/28/2021	5	289	480	460
7/28/2021	6	287	480	460
7/28/2021	7	299	480	460
7/28/2021	8	332	500	480
7/28/2021	9	362	580	540
7/28/2021	10	382	647	590
7/28/2021	11	395	647	590
7/28/2021	12	389	647	590
7/28/2021	13	391	647	590
7/28/2021	14	391	647	590
7/28/2021	15	386	647	590
7/28/2021	16	376	647	590
7/28/2021	17	354	600	550
7/28/2021	18	339	550	540
7/28/2021	19	351	600	580

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/28/2021	20	352	620	590
7/28/2021	21	354	647	590
7/28/2021	22	349	647	590
7/28/2021	23	336	600	550
7/28/2021	24	320	550	500
7/29/2021	1	320	600	570
7/29/2021	2	310	550	500
7/29/2021	3	299	550	500
7/29/2021	4	297	550	500
7/29/2021	5	295	550	500
7/29/2021	6	298	550	500
7/29/2021	7	308	550	500
7/29/2021	8	337	570	540
7/29/2021	9	366	647	590
7/29/2021	10	384	647	590
7/29/2021	11	395	647	590
7/29/2021	12	389	647	590
7/29/2021	13	388	647	590
7/29/2021	14	385	647	590
7/29/2021	15	379	647	590
7/29/2021	16	369	647	590
7/29/2021	17	355	647	590
7/29/2021	18	342	600	550
7/29/2021	19	358	647	590
7/29/2021	20	355	647	590
7/29/2021	21	351	647	590
7/29/2021	22	343	647	590
7/29/2021	23	329	600	550
7/29/2021	24	329	647	590
7/30/2021	1	327	647	590
7/30/2021	2	317	630	570
7/30/2021	3	306	600	550
7/30/2021	4	298	550	550
7/30/2021	5	294	550	500
7/30/2021	6	291	550	500
7/30/2021	7	302	580	520
7/30/2021	8	311	590	530
7/30/2021	9	332	590	530
7/30/2021	10	349	600	550
7/30/2021	11	361	647	590
7/30/2021	12	356	600	560
7/30/2021	13	358	600	550
7/30/2021	14	355	600	550
7/30/2021	15	350	600	550
7/30/2021	16	339	550	500
7/30/2021	17	325	500	480
7/30/2021	18	321	550	500
7/30/2021	19	335	550	500
7/30/2021	20	337	647	590
7/30/2021	21	339	647	590
7/30/2021	22	335	647	590
7/30/2021	23	325	647	590
7/30/2021	24	326	647	590
7/31/2021	1	324	647	590
7/31/2021	2	313	647	590
7/31/2021	3	303	647	590
7/31/2021	4	295	647	590
7/31/2021	5	290	647	590
7/31/2021	6	283	647	590
7/31/2021	7	286	647	590
7/31/2021	8	278	580	500
7/31/2021	9	293	590	500
7/31/2021	10	311	647	590
7/31/2021	11	321	647	590
7/31/2021	12	320	647	590

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/31/2021	13	322	600	590
7/31/2021	14	316	600	550
7/31/2021	15	314	600	550
7/31/2021	16	306	647	590
7/31/2021	17	301	647	590
7/31/2021	18	304	647	590
7/31/2021	19	325	647	590
7/31/2021	20	329	647	590
7/31/2021	21	333	647	590
7/31/2021	22	330	647	590
7/31/2021	23	320	647	590
7/31/2021	24	313	647	590
8/1/2021	1	282	590	520
8/1/2021	2	272	590	520
8/1/2021	3	251	590	520
8/1/2021	4	251	560	520
8/1/2021	5	251	560	520
8/1/2021	6	251	590	520
8/1/2021	7	251	590	520
8/1/2021	8	250	550	530
8/1/2021	9	260	600	590
8/1/2021	10	272	600	590
8/1/2021	11	277	600	590
8/1/2021	12	277	600	590
8/1/2021	13	277	600	590
8/1/2021	14	277	600	540
8/1/2021	15	277	600	560
8/1/2021	16	277	600	590
8/1/2021	17	277	647	590
8/1/2021	18	277	647	590
8/1/2021	19	298	647	590
8/1/2021	20	318	647	590
8/1/2021	21	311	647	590
8/1/2021	22	309	630	590
8/1/2021	23	285	600	550
8/1/2021	24	285	570	520
8/2/2021	1	267	600	550
8/2/2021	2	260	580	500
8/2/2021	3	256	560	500
8/2/2021	4	253	560	500
8/2/2021	5	256	560	520
8/2/2021	6	267	600	520
8/2/2021	7	283	647	590
8/2/2021	8	316	647	590
8/2/2021	9	348	647	590
8/2/2021	10	367	647	590
8/2/2021	11	384	647	590
8/2/2021	12	377	647	590
8/2/2021	13	377	647	590
8/2/2021	14	387	647	590
8/2/2021	15	386	647	590
8/2/2021	16	379	647	590
8/2/2021	17	365	647	590
8/2/2021	18	351	647	590
8/2/2021	19	366	647	590
8/2/2021	20	359	647	590
8/2/2021	21	360	647	590
8/2/2021	22	349	647	590
8/2/2021	23	341	647	590
8/2/2021	24	328	647	590
8/3/2021	1	321	647	590
8/3/2021	2	311	647	590
8/3/2021	3	300	647	590
8/3/2021	4	299	647	590
8/3/2021	5	296	647	590

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/3/2021	6	300	647	590
8/3/2021	7	310	647	590
8/3/2021	8	339	647	590
8/3/2021	9	369	647	590
8/3/2021	10	388	647	590
8/3/2021	11	399	647	590
8/3/2021	12	393	647	590
8/3/2021	13	392	647	590
8/3/2021	14	389	647	590
8/3/2021	15	384	647	590
8/3/2021	16	373	647	590
8/3/2021	17	360	647	590
8/3/2021	18	346	647	590
8/3/2021	19	362	647	590
8/3/2021	20	359	647	590
8/3/2021	21	355	647	590
8/3/2021	22	347	647	590
8/3/2021	23	333	647	590
8/3/2021	24	310	647	590
8/4/2021	1	313	647	590
8/4/2021	2	305	600	550
8/4/2021	3	296	550	500
8/4/2021	4	288	550	500
8/4/2021	5	286	550	500
8/4/2021	6	291	550	500
8/4/2021	7	303	600	550
8/4/2021	8	329	600	560
8/4/2021	9	355	647	590
8/4/2021	10	370	647	590
8/4/2021	11	379	647	590
8/4/2021	12	369	647	590
8/4/2021	13	363	647	590
8/4/2021	14	357	600	550
8/4/2021	15	355	600	550
8/4/2021	16	355	620	590
8/4/2021	17	344	620	590
8/4/2021	18	337	620	590
8/4/2021	19	341	600	570
8/4/2021	20	339	560	530
8/4/2021	21	334	560	530
8/4/2021	22	324	610	590
8/4/2021	23	312	600	550
8/4/2021	24	310	600	550
8/5/2021	1	315	647	590
8/5/2021	2	304	647	590
8/5/2021	3	295	647	590
8/5/2021	4	289	590	540
8/5/2021	5	288	590	540
8/5/2021	6	287	590	540
8/5/2021	7	298	600	560
8/5/2021	8	334	647	590
8/5/2021	9	362	647	590
8/5/2021	10	383	647	590
8/5/2021	11	397	647	590
8/5/2021	12	392	647	590
8/5/2021	13	395	647	590
8/5/2021	14	396	647	590
8/5/2021	15	389	647	590
8/5/2021	16	379	647	590
8/5/2021	17	356	647	590
8/5/2021	18	342	647	590
8/5/2021	19	356	647	590
8/5/2021	20	358	647	590
8/5/2021	21	361	647	590
8/5/2021	22	355	647	590

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/5/2021	23	345	647	590
8/5/2021	24	307	647	590
8/6/2021	1	330	647	590
8/6/2021	2	320	620	570
8/6/2021	3	308	560	520
8/6/2021	4	305	550	500
8/6/2021	5	300	550	500
8/6/2021	6	300	550	500
8/6/2021	7	309	550	530
8/6/2021	8	341	600	550
8/6/2021	9	371	647	590
8/6/2021	10	390	647	590
8/6/2021	11	400	647	590
8/6/2021	12	390	647	590
8/6/2021	13	392	647	590
8/6/2021	14	393	647	590
8/6/2021	15	389	647	590
8/6/2021	16	382	647	590
8/6/2021	17	365	647	590
8/6/2021	18	350	647	590
8/6/2021	19	364	647	590
8/6/2021	20	361	647	590
8/6/2021	21	362	647	590
8/6/2021	22	358	647	590
8/6/2021	23	348	647	590
8/6/2021	24	321	647	590
8/7/2021	1	318	647	590
8/7/2021	2	307	610	590
8/7/2021	3	298	550	530
8/7/2021	4	291	500	500
8/7/2021	5	290	500	500
8/7/2021	6	288	500	500
8/7/2021	7	288	500	500
8/7/2021	8	310	550	550
8/7/2021	9	330	600	550
8/7/2021	10	350	630	550
8/7/2021	11	357	630	550
8/7/2021	12	351	630	550
8/7/2021	13	355	630	550
8/7/2021	14	353	630	550
8/7/2021	15	349	630	550
8/7/2021	16	344	630	550
8/7/2021	17	330	600	500
8/7/2021	18	330	600	500
8/7/2021	19	351	647	590
8/7/2021	20	351	647	590
8/7/2021	21	347	647	590
8/7/2021	22	343	647	590
8/7/2021	23	331	647	590
8/7/2021	24	323	647	590
8/8/2021	1	312	647	590
8/8/2021	2	300	620	570
8/8/2021	3	289	560	520
8/8/2021	4	283	520	480
8/8/2021	5	276	520	480
8/8/2021	6	269	490	450
8/8/2021	7	265	550	430
8/8/2021	8	276	580	450
8/8/2021	9	291	600	550
8/8/2021	10	307	647	590
8/8/2021	11	317	647	590
8/8/2021	12	315	600	590
8/8/2021	13	316	600	590
8/8/2021	14	318	600	590
8/8/2021	15	318	600	590

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/8/2021	16	317	600	590
8/8/2021	17	314	600	590
8/8/2021	18	315	600	590
8/8/2021	19	334	647	590
8/8/2021	20	332	647	590
8/8/2021	21	332	647	590
8/8/2021	22	325	647	590
8/8/2021	23	315	647	590
8/8/2021	24	308	647	590
8/9/2021	1	296	647	590
8/9/2021	2	286	647	590
8/9/2021	3	278	550	530
8/9/2021	4	274	500	500
8/9/2021	5	271	500	500
8/9/2021	6	278	550	520
8/9/2021	7	291	600	520
8/9/2021	8	325	647	590
8/9/2021	9	358	647	590
8/9/2021	10	377	647	590
8/9/2021	11	391	647	590
8/9/2021	12	384	647	590
8/9/2021	13	380	647	590
8/9/2021	14	390	647	590
8/9/2021	15	386	647	590
8/9/2021	16	381	647	590
8/9/2021	17	360	647	590
8/9/2021	18	350	647	590
8/9/2021	19	358	647	590
8/9/2021	20	353	647	590
8/9/2021	21	352	647	590
8/9/2021	22	344	647	590
8/9/2021	23	336	647	590
8/9/2021	24	325	647	590
8/10/2021	1	330	580	470
8/10/2021	2	323	580	470
8/10/2021	3	307	580	470
8/10/2021	4	301	580	470
8/10/2021	5	297	580	470
8/10/2021	6	293	580	470
8/10/2021	7	303	580	470
8/10/2021	8	337	580	470
8/10/2021	9	361	580	470
8/10/2021	10	374	610	495
8/10/2021	11	389	647	590
8/10/2021	12	380	550	500
8/10/2021	13	382	550	530
8/10/2021	14	384	647	590
8/10/2021	15	379	600	550
8/10/2021	16	373	550	500
8/10/2021	17	355	500	500
8/10/2021	18	340	500	500
8/10/2021	19	357	550	500
8/10/2021	20	354	550	550
8/10/2021	21	361	647	560
8/10/2021	22	359	647	560
8/10/2021	23	349	600	550
8/10/2021	24	332	550	500
8/11/2021	1	331	550	500
8/11/2021	2	321	480	470
8/11/2021	3	309	480	470
8/11/2021	4	306	480	470
8/11/2021	5	301	480	470
8/11/2021	6	302	480	470
8/11/2021	7	310	480	470
8/11/2021	8	342	550	500

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/11/2021	9	373	647	590
8/11/2021	10	392	647	590
8/11/2021	11	402	647	590
8/11/2021	12	392	647	590
8/11/2021	13	394	647	590
8/11/2021	14	395	647	590
8/11/2021	15	391	647	590
8/11/2021	16	384	647	590
8/11/2021	17	367	580	550
8/11/2021	18	352	550	500
8/11/2021	19	366	647	590
8/11/2021	20	363	647	590
8/11/2021	21	364	647	590
8/11/2021	22	360	647	590
8/11/2021	23	349	580	550
8/11/2021	24	331	550	500
8/12/2021	1	328	550	500
8/12/2021	2	318	500	480
8/12/2021	3	306	480	470
8/12/2021	4	304	480	470
8/12/2021	5	299	480	470
8/12/2021	6	299	480	470
8/12/2021	7	308	480	470
8/12/2021	8	341	550	520
8/12/2021	9	371	647	590
8/12/2021	10	391	647	590
8/12/2021	11	401	647	590
8/12/2021	12	391	647	590
8/12/2021	13	393	647	590
8/12/2021	14	393	647	590
8/12/2021	15	390	647	590
8/12/2021	16	383	647	590
8/12/2021	17	366	647	590
8/12/2021	18	351	600	530
8/12/2021	19	365	647	590
8/12/2021	20	362	647	590
8/12/2021	21	363	647	590
8/12/2021	22	359	647	590
8/12/2021	23	348	630	590
8/12/2021	24	331	550	500
8/13/2021	1	330	600	540
8/13/2021	2	315	530	480
8/13/2021	3	303	480	470
8/13/2021	4	300	480	470
8/13/2021	5	295	480	470
8/13/2021	6	295	480	470
8/13/2021	7	304	480	470
8/13/2021	8	336	500	500
8/13/2021	9	367	647	590
8/13/2021	10	386	647	590
8/13/2021	11	400	647	590
8/13/2021	12	386	647	590
8/13/2021	13	388	647	590
8/13/2021	14	393	647	590
8/13/2021	15	389	647	590
8/13/2021	16	382	647	590
8/13/2021	17	365	647	590
8/13/2021	18	350	600	530
8/13/2021	19	364	647	590
8/13/2021	20	361	647	590
8/13/2021	21	362	647	590
8/13/2021	22	358	647	590
8/13/2021	23	348	647	590
8/13/2021	24	338	620	570
8/14/2021	1	318	580	560

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/14/2021	2	307	500	480
8/14/2021	3	297	480	470
8/14/2021	4	291	480	470
8/14/2021	5	290	480	470
8/14/2021	6	288	480	470
8/14/2021	7	288	480	470
8/14/2021	8	310	480	470
8/14/2021	9	339	500	500
8/14/2021	10	353	580	540
8/14/2021	11	364	647	590
8/14/2021	12	358	600	570
8/14/2021	13	361	620	550
8/14/2021	14	361	647	590
8/14/2021	15	354	600	550
8/14/2021	16	348	550	520
8/14/2021	17	335	500	480
8/14/2021	18	330	550	500
8/14/2021	19	351	647	590
8/14/2021	20	353	647	590
8/14/2021	21	359	647	590
8/14/2021	22	356	647	590
8/14/2021	23	346	647	590
8/14/2021	24	335	647	590
8/15/2021	1	322	647	590
8/15/2021	2	315	600	550
8/15/2021	3	302	570	520
8/15/2021	4	295	550	500
8/15/2021	5	287	520	500
8/15/2021	6	276	490	460
8/15/2021	7	269	500	460
8/15/2021	8	279	540	470
8/15/2021	9	290	600	550
8/15/2021	10	305	647	590
8/15/2021	11	317	647	590
8/15/2021	12	315	647	590
8/15/2021	13	319	647	590
8/15/2021	14	328	647	590
8/15/2021	15	326	647	590
8/15/2021	16	324	647	590
8/15/2021	17	315	600	590
8/15/2021	18	319	600	590
8/15/2021	19	335	647	590
8/15/2021	20	338	647	590
8/15/2021	21	346	647	590
8/15/2021	22	343	647	590
8/15/2021	23	332	647	590
8/15/2021	24	317	620	561
8/16/2021	1	294	500	480
8/16/2021	2	284	460	455
8/16/2021	3	274	460	455
8/16/2021	4	267	460	455
8/16/2021	5	264	460	455
8/16/2021	6	267	460	455
8/16/2021	7	280	460	455
8/16/2021	8	310	460	455
8/16/2021	9	342	500	480
8/16/2021	10	360	647	590
8/16/2021	11	373	647	590
8/16/2021	12	368	647	590
8/16/2021	13	371	647	590
8/16/2021	14	387	647	590
8/16/2021	15	383	647	590
8/16/2021	16	375	647	590
8/16/2021	17	350	600	570
8/16/2021	18	338	600	550

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/16/2021	19	350	647	590
8/16/2021	20	351	647	590
8/16/2021	21	355	647	590
8/16/2021	22	349	647	590
8/16/2021	23	334	600	550
8/16/2021	24	322	550	500
8/17/2021	1	328	647	590
8/17/2021	2	319	647	590
8/17/2021	3	310	647	590
8/17/2021	4	301	647	590
8/17/2021	5	298	630	580
8/17/2021	6	298	620	580
8/17/2021	7	305	620	580
8/17/2021	8	331	647	590
8/17/2021	9	356	647	590
8/17/2021	10	368	647	590
8/17/2021	11	375	647	590
8/17/2021	12	368	647	590
8/17/2021	13	368	647	590
8/17/2021	14	372	647	590
8/17/2021	15	370	647	590
8/17/2021	16	360	647	590
8/17/2021	17	343	647	590
8/17/2021	18	336	647	590
8/17/2021	19	347	647	590
8/17/2021	20	349	647	590
8/17/2021	21	351	647	590
8/17/2021	22	345	647	590
8/17/2021	23	333	647	590
8/17/2021	24	331	647	590
8/18/2021	1	326	647	590
8/18/2021	2	316	647	590
8/18/2021	3	306	647	590
8/18/2021	4	300	600	540
8/18/2021	5	296	560	500
8/18/2021	6	294	560	500
8/18/2021	7	304	600	520
8/18/2021	8	334	647	590
8/18/2021	9	363	647	590
8/18/2021	10	386	647	590
8/18/2021	11	389	647	590
8/18/2021	12	381	647	590
8/18/2021	13	384	647	590
8/18/2021	14	384	647	590
8/18/2021	15	376	647	590
8/18/2021	16	368	647	590
8/18/2021	17	352	550	500
8/18/2021	18	342	550	500
8/18/2021	19	350	647	590
8/18/2021	20	346	647	590
8/18/2021	21	348	647	590
8/18/2021	22	346	647	590
8/18/2021	23	334	647	590
8/18/2021	24	324	647	590
8/19/2021	1	332	647	590
8/19/2021	2	319	647	590
8/19/2021	3	310	570	520
8/19/2021	4	299	520	500
8/19/2021	5	299	500	480
8/19/2021	6	295	500	480
8/19/2021	7	306	560	510
8/19/2021	8	338	647	590
8/19/2021	9	367	647	590
8/19/2021	10	385	647	590
8/19/2021	11	395	647	590

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/19/2021	12	389	647	590
8/19/2021	13	396	647	590
8/19/2021	14	393	647	590
8/19/2021	15	377	647	590
8/19/2021	16	371	647	590
8/19/2021	17	350	500	480
8/19/2021	18	344	500	480
8/19/2021	19	360	600	550
8/19/2021	20	363	647	590
8/19/2021	21	370	647	590
8/19/2021	22	363	647	590
8/19/2021	23	351	647	590
8/19/2021	24	328	647	590
8/20/2021	1	323	647	590
8/20/2021	2	315	647	590
8/20/2021	3	303	647	590
8/20/2021	4	295	647	590
8/20/2021	5	293	647	590
8/20/2021	6	294	647	590
8/20/2021	7	303	647	590
8/20/2021	8	332	647	590
8/20/2021	9	356	647	590
8/20/2021	10	374	647	590
8/20/2021	11	388	647	590
8/20/2021	12	381	647	590
8/20/2021	13	378	647	590
8/20/2021	14	390	647	590
8/20/2021	15	388	647	590
8/20/2021	16	381	647	590
8/20/2021	17	363	647	590
8/20/2021	18	357	647	590
8/20/2021	19	372	647	590
8/20/2021	20	373	647	590
8/20/2021	21	378	647	590
8/20/2021	22	371	647	590
8/20/2021	23	359	647	590
8/20/2021	24	348	647	590
8/21/2021	1	301	580	540
8/21/2021	2	291	550	500
8/21/2021	3	283	480	470
8/21/2021	4	275	470	460
8/21/2021	5	271	470	460
8/21/2021	6	267	470	460
8/21/2021	7	270	470	460
8/21/2021	8	287	470	460
8/21/2021	9	306	470	460
8/21/2021	10	325	470	460
8/21/2021	11	340	500	480
8/21/2021	12	333	500	480
8/21/2021	13	337	500	480
8/21/2021	14	330	500	480
8/21/2021	15	321	500	480
8/21/2021	16	316	500	480
8/21/2021	17	306	500	480
8/21/2021	18	308	500	480
8/21/2021	19	320	550	500
8/21/2021	20	325	600	550
8/21/2021	21	328	600	550
8/21/2021	22	322	600	550
8/21/2021	23	313	600	550
8/21/2021	24	318	647	590
8/22/2021	1	312	647	590
8/22/2021	2	302	600	550
8/22/2021	3	294	570	520
8/22/2021	4	284	550	500

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/22/2021	5	278	520	500
8/22/2021	6	271	490	460
8/22/2021	7	267	500	460
8/22/2021	8	273	540	470
8/22/2021	9	283	600	550
8/22/2021	10	294	647	590
8/22/2021	11	302	647	590
8/22/2021	12	301	647	590
8/22/2021	13	305	647	590
8/22/2021	14	307	647	590
8/22/2021	15	307	647	590
8/22/2021	16	301	647	590
8/22/2021	17	298	600	590
8/22/2021	18	307	600	590
8/22/2021	19	328	647	590
8/22/2021	20	329	647	590
8/22/2021	21	330	647	590
8/22/2021	22	329	647	590
8/22/2021	23	316	647	590
8/22/2021	24	304	620	561
8/23/2021	1	286	500	480
8/23/2021	2	277	470	455
8/23/2021	3	268	470	455
8/23/2021	4	262	470	455
8/23/2021	5	262	470	455
8/23/2021	6	268	470	455
8/23/2021	7	281	470	455
8/23/2021	8	316	500	480
8/23/2021	9	344	550	500
8/23/2021	10	365	600	590
8/23/2021	11	375	647	590
8/23/2021	12	374	647	590
8/23/2021	13	378	647	590
8/23/2021	14	391	647	590
8/23/2021	15	390	647	590
8/23/2021	16	384	647	590
8/23/2021	17	362	647	590
8/23/2021	18	349	647	590
8/23/2021	19	365	647	590
8/23/2021	20	368	647	590
8/23/2021	21	373	647	590
8/23/2021	22	368	647	590
8/23/2021	23	355	647	590
8/23/2021	24	340	647	590
8/24/2021	1	331	647	590
8/24/2021	2	322	580	530
8/24/2021	3	313	555	500
8/24/2021	4	304	480	470
8/24/2021	5	301	480	470
8/24/2021	6	301	480	470
8/24/2021	7	307	480	470
8/24/2021	8	334	550	500
8/24/2021	9	360	647	590
8/24/2021	10	372	647	590
8/24/2021	11	379	647	590
8/24/2021	12	371	647	590
8/24/2021	13	372	647	590
8/24/2021	14	373	647	590
8/24/2021	15	373	647	590
8/24/2021	16	363	647	590
8/24/2021	17	346	580	500
8/24/2021	18	339	580	500
8/24/2021	19	350	647	590
8/24/2021	20	352	647	590
8/24/2021	21	355	647	590

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/24/2021	22	349	647	590
8/24/2021	23	336	647	590
8/24/2021	24	336	647	590
8/25/2021	1	330	647	590
8/25/2021	2	317	580	530
8/25/2021	3	308	555	500
8/25/2021	4	300	480	470
8/25/2021	5	297	480	470
8/25/2021	6	295	470	455
8/25/2021	7	304	480	460
8/25/2021	8	338	594	500
8/25/2021	9	366	647	590
8/25/2021	10	385	647	590
8/25/2021	11	401	647	590
8/25/2021	12	393	647	590
8/25/2021	13	396	647	590
8/25/2021	14	403	647	590
8/25/2021	15	399	647	590
8/25/2021	16	384	647	590
8/25/2021	17	361	580	500
8/25/2021	18	348	580	500
8/25/2021	19	351	647	590
8/25/2021	20	352	647	590
8/25/2021	21	356	647	590
8/25/2021	22	349	647	590
8/25/2021	23	337	647	590
8/25/2021	24	331	647	590
8/26/2021	1	326	600	550
8/26/2021	2	313	550	480
8/26/2021	3	306	500	470
8/26/2021	4	298	475	470
8/26/2021	5	295	475	470
8/26/2021	6	294	475	470
8/26/2021	7	304	475	470
8/26/2021	8	331	475	470
8/26/2021	9	360	647	590
8/26/2021	10	377	647	590
8/26/2021	11	393	647	590
8/26/2021	12	385	647	590
8/26/2021	13	390	647	590
8/26/2021	14	396	647	590
8/26/2021	15	391	647	590
8/26/2021	16	379	600	570
8/26/2021	17	356	530	500
8/26/2021	18	350	500	480
8/26/2021	19	361	630	590
8/26/2021	20	362	647	590
8/26/2021	21	362	647	590
8/26/2021	22	346	600	520
8/26/2021	23	336	550	500
8/26/2021	24	326	530	500
8/27/2021	1	318	647	590
8/27/2021	2	308	550	500
8/27/2021	3	298	480	470
8/27/2021	4	292	480	470
8/27/2021	5	289	480	470
8/27/2021	6	288	480	470
8/27/2021	7	295	480	470
8/27/2021	8	325	480	470
8/27/2021	9	354	550	500
8/27/2021	10	372	647	590
8/27/2021	11	391	647	590
8/27/2021	12	381	647	590
8/27/2021	13	384	647	590
8/27/2021	14	395	647	590

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/27/2021	15	383	647	590
8/27/2021	16	375	600	550
8/27/2021	17	356	550	500
8/27/2021	18	346	550	500
8/27/2021	19	347	550	500
8/27/2021	20	346	647	590
8/27/2021	21	345	647	590
8/27/2021	22	340	647	590
8/27/2021	23	332	647	590
8/27/2021	24	330	647	590
8/28/2021	1	301	500	480
8/28/2021	2	290	480	470
8/28/2021	3	283	480	470
8/28/2021	4	277	480	470
8/28/2021	5	279	480	470
8/28/2021	6	272	480	470
8/28/2021	7	271	480	470
8/28/2021	8	284	480	470
8/28/2021	9	301	480	470
8/28/2021	10	322	480	470
8/28/2021	11	334	500	480
8/28/2021	12	331	500	480
8/28/2021	13	335	540	500
8/28/2021	14	348	647	590
8/28/2021	15	340	560	530
8/28/2021	16	325	560	530
8/28/2021	17	315	560	530
8/28/2021	18	318	560	530
8/28/2021	19	320	560	530
8/28/2021	20	320	560	530
8/28/2021	21	326	647	590
8/28/2021	22	321	647	590
8/28/2021	23	311	590	560
8/28/2021	24	301	550	520
8/29/2021	1	319	647	590
8/29/2021	2	309	600	550
8/29/2021	3	300	580	520
8/29/2021	4	291	550	520
8/29/2021	5	284	520	500
8/29/2021	6	277	520	480
8/29/2021	7	273	500	455
8/29/2021	8	280	530	480
8/29/2021	9	289	550	510
8/29/2021	10	301	600	540
8/29/2021	11	309	647	590
8/29/2021	12	308	647	590
8/29/2021	13	312	647	590
8/29/2021	14	314	647	590
8/29/2021	15	314	647	590
8/29/2021	16	308	647	590
8/29/2021	17	305	647	590
8/29/2021	18	314	647	590
8/29/2021	19	336	647	590
8/29/2021	20	336	647	590
8/29/2021	21	338	647	590
8/29/2021	22	337	647	590
8/29/2021	23	323	647	590
8/29/2021	24	311	647	590
8/30/2021	1	323	647	590
8/30/2021	2	313	600	550
8/30/2021	3	304	580	520
8/30/2021	4	294	550	520
8/30/2021	5	288	520	500
8/30/2021	6	281	520	480
8/30/2021	7	276	500	455

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/30/2021	8	283	530	480
8/30/2021	9	293	550	510
8/30/2021	10	305	580	540
8/30/2021	11	312	580	560
8/30/2021	12	312	580	560
8/30/2021	13	315	580	560
8/30/2021	14	318	600	560
8/30/2021	15	318	600	560
8/30/2021	16	312	580	510
8/30/2021	17	309	580	510
8/30/2021	18	318	600	537
8/30/2021	19	340	647	590
8/30/2021	20	341	647	590
8/30/2021	21	342	647	590
8/30/2021	22	341	647	590
8/30/2021	23	327	647	590
8/30/2021	24	315	647	590
8/31/2021	1	313	500	500
8/31/2021	2	303	480	470
8/31/2021	3	295	480	470
8/31/2021	4	288	480	470
8/31/2021	5	287	480	470
8/31/2021	6	289	480	470
8/31/2021	7	296	480	470
8/31/2021	8	327	480	470
8/31/2021	9	355	520	500
8/31/2021	10	375	610	560
8/31/2021	11	388	647	590
8/31/2021	12	379	647	590
8/31/2021	13	369	647	590
8/31/2021	14	379	647	590
8/31/2021	15	374	647	590
8/31/2021	16	366	600	550
8/31/2021	17	350	500	480
8/31/2021	18	339	480	470
8/31/2021	19	343	500	480
8/31/2021	20	339	500	480
8/31/2021	21	340	500	480
8/31/2021	22	330	480	470
8/31/2021	23	319	480	470
8/31/2021	24	309	480	470
9/1/2021	1	316	500	500
9/1/2021	2	305	480	470
9/1/2021	3	291	480	470
9/1/2021	4	287	480	470
9/1/2021	5	274	480	470
9/1/2021	6	276	480	470
9/1/2021	7	285	480	470
9/1/2021	8	317	520	500
9/1/2021	9	350	560	520
9/1/2021	10	371	647	590
9/1/2021	11	389	647	590
9/1/2021	12	379	647	590
9/1/2021	13	380	647	590
9/1/2021	14	392	647	590
9/1/2021	15	379	647	590
9/1/2021	16	372	647	590
9/1/2021	17	348	560	500
9/1/2021	18	337	520	480
9/1/2021	19	344	600	550
9/1/2021	20	344	600	550
9/1/2021	21	344	600	550
9/1/2021	22	336	500	480
9/1/2021	23	323	480	470
9/1/2021	24	307	480	470

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/2/2021	1	300	480	470
9/2/2021	2	291	480	470
9/2/2021	3	282	480	470
9/2/2021	4	277	480	470
9/2/2021	5	279	480	470
9/2/2021	6	276	480	470
9/2/2021	7	286	480	470
9/2/2021	8	322	520	500
9/2/2021	9	355	580	530
9/2/2021	10	376	647	590
9/2/2021	11	394	647	590
9/2/2021	12	385	647	590
9/2/2021	13	385	647	590
9/2/2021	14	386	647	590
9/2/2021	15	373	647	590
9/2/2021	16	366	647	590
9/2/2021	17	349	580	540
9/2/2021	18	337	580	540
9/2/2021	19	345	647	590
9/2/2021	20	345	647	590
9/2/2021	21	345	647	590
9/2/2021	22	336	647	590
9/2/2021	23	323	580	500
9/2/2021	24	324	560	500
9/3/2021	1	321	590	460
9/3/2021	2	309	590	460
9/3/2021	3	295	590	460
9/3/2021	4	289	590	460
9/3/2021	5	286	590	460
9/3/2021	6	286	590	460
9/3/2021	7	293	590	460
9/3/2021	8	323	590	460
9/3/2021	9	351	590	460
9/3/2021	10	369	590	460
9/3/2021	11	383	590	460
9/3/2021	12	377	590	460
9/3/2021	13	381	590	460
9/3/2021	14	390	590	460
9/3/2021	15	384	590	460
9/3/2021	16	369	590	460
9/3/2021	17	353	590	460
9/3/2021	18	338	590	460
9/3/2021	19	344	590	460
9/3/2021	20	344	590	460
9/3/2021	21	343	590	460
9/3/2021	22	338	590	460
9/3/2021	23	335	590	460
9/3/2021	24	311	590	460
9/4/2021	1	297	590	460
9/4/2021	2	288	500	460
9/4/2021	3	279	480	460
9/4/2021	4	275	480	460
9/4/2021	5	271	480	460
9/4/2021	6	267	480	460
9/4/2021	7	269	480	460
9/4/2021	8	292	480	460
9/4/2021	9	312	500	460
9/4/2021	10	333	550	460
9/4/2021	11	349	590	460
9/4/2021	12	343	590	460
9/4/2021	13	345	590	460
9/4/2021	14	351	590	460
9/4/2021	15	345	590	460
9/4/2021	16	338	590	460
9/4/2021	17	326	590	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/4/2021	18	325	590	460
9/4/2021	19	333	590	460
9/4/2021	20	332	590	460
9/4/2021	21	334	590	460
9/4/2021	22	327	590	460
9/4/2021	23	318	590	460
9/4/2021	24	323	590	460
9/5/2021	1	321	590	460
9/5/2021	2	310	590	460
9/5/2021	3	299	590	460
9/5/2021	4	291	590	460
9/5/2021	5	286	590	460
9/5/2021	6	279	590	460
9/5/2021	7	276	590	460
9/5/2021	8	284	590	460
9/5/2021	9	300	590	460
9/5/2021	10	321	590	460
9/5/2021	11	332	590	460
9/5/2021	12	332	590	460
9/5/2021	13	335	590	460
9/5/2021	14	338	590	460
9/5/2021	15	329	590	460
9/5/2021	16	316	590	460
9/5/2021	17	317	590	460
9/5/2021	18	325	590	460
9/5/2021	19	335	590	460
9/5/2021	20	336	590	460
9/5/2021	21	334	590	460
9/5/2021	22	329	590	460
9/5/2021	23	317	590	460
9/5/2021	24	307	590	460
9/6/2021	1	292	590	460
9/6/2021	2	286	510	460
9/6/2021	3	278	480	460
9/6/2021	4	272	480	460
9/6/2021	5	273	480	460
9/6/2021	6	279	480	460
9/6/2021	7	292	500	460
9/6/2021	8	325	590	460
9/6/2021	9	355	590	460
9/6/2021	10	378	590	460
9/6/2021	11	393	590	460
9/6/2021	12	387	590	460
9/6/2021	13	388	590	460
9/6/2021	14	403	590	460
9/6/2021	15	398	590	460
9/6/2021	16	389	590	460
9/6/2021	17	373	590	460
9/6/2021	18	363	590	460
9/6/2021	19	367	590	460
9/6/2021	20	364	590	460
9/6/2021	21	362	590	460
9/6/2021	22	356	590	460
9/6/2021	23	345	590	460
9/6/2021	24	334	590	460
9/7/2021	1	301	480	470
9/7/2021	2	292	480	470
9/7/2021	3	284	480	470
9/7/2021	4	279	480	470
9/7/2021	5	277	480	470
9/7/2021	6	280	480	470
9/7/2021	7	292	480	470
9/7/2021	8	326	500	490
9/7/2021	9	357	580	510
9/7/2021	10	381	647	590

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/7/2021	11	389	647	590
9/7/2021	12	386	647	590
9/7/2021	13	391	647	590
9/7/2021	14	407	647	590
9/7/2021	15	395	647	590
9/7/2021	16	383	647	590
9/7/2021	17	359	600	520
9/7/2021	18	344	580	500
9/7/2021	19	344	580	500
9/7/2021	20	340	580	500
9/7/2021	21	340	580	500
9/7/2021	22	334	550	490
9/7/2021	23	322	520	490
9/7/2021	24	309	500	480
9/8/2021	1	305	480	470
9/8/2021	2	297	460	440
9/8/2021	3	289	460	440
9/8/2021	4	284	460	440
9/8/2021	5	282	460	440
9/8/2021	6	280	460	440
9/8/2021	7	297	480	470
9/8/2021	8	330	500	490
9/8/2021	9	361	550	500
9/8/2021	10	386	647	590
9/8/2021	11	394	647	590
9/8/2021	12	391	647	590
9/8/2021	13	396	647	590
9/8/2021	14	399	647	590
9/8/2021	15	388	647	590
9/8/2021	16	376	560	520
9/8/2021	17	352	500	480
9/8/2021	18	344	480	470
9/8/2021	19	344	480	470
9/8/2021	20	340	480	470
9/8/2021	21	340	480	470
9/8/2021	22	334	470	460
9/8/2021	23	322	470	460
9/8/2021	24	309	470	460
9/9/2021	1	302	480	470
9/9/2021	2	294	480	470
9/9/2021	3	287	480	470
9/9/2021	4	281	480	470
9/9/2021	5	280	480	470
9/9/2021	6	278	480	470
9/9/2021	7	296	480	470
9/9/2021	8	329	520	500
9/9/2021	9	360	580	550
9/9/2021	10	385	647	590
9/9/2021	11	393	647	590
9/9/2021	12	390	647	590
9/9/2021	13	396	647	590
9/9/2021	14	399	647	590
9/9/2021	15	388	647	590
9/9/2021	16	376	647	590
9/9/2021	17	352	600	530
9/9/2021	18	344	550	500
9/9/2021	19	344	550	500
9/9/2021	20	340	550	500
9/9/2021	21	340	550	500
9/9/2021	22	334	550	500
9/9/2021	23	322	550	500
9/9/2021	24	311	550	500
9/10/2021	1	287	470	460
9/10/2021	2	283	470	460
9/10/2021	3	277	470	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/10/2021	4	269	470	460
9/10/2021	5	268	470	460
9/10/2021	6	273	470	460
9/10/2021	7	289	470	460
9/10/2021	8	320	520	500
9/10/2021	9	354	580	550
9/10/2021	10	372	647	590
9/10/2021	11	390	647	590
9/10/2021	12	390	647	590
9/10/2021	13	396	647	590
9/10/2021	14	410	647	590
9/10/2021	15	403	647	590
9/10/2021	16	384	647	590
9/10/2021	17	366	600	530
9/10/2021	18	355	550	500
9/10/2021	19	346	550	500
9/10/2021	20	345	480	470
9/10/2021	21	344	480	460
9/10/2021	22	337	470	460
9/10/2021	23	333	470	460
9/10/2021	24	317	470	460
9/11/2021	1	308	450	430
9/11/2021	2	299	450	430
9/11/2021	3	289	450	430
9/11/2021	4	283	450	430
9/11/2021	5	280	450	430
9/11/2021	6	278	450	430
9/11/2021	7	279	450	430
9/11/2021	8	299	470	460
9/11/2021	9	323	480	470
9/11/2021	10	344	500	480
9/11/2021	11	360	500	480
9/11/2021	12	355	500	480
9/11/2021	13	359	500	480
9/11/2021	14	372	647	590
9/11/2021	15	369	647	590
9/11/2021	16	356	600	550
9/11/2021	17	343	550	500
9/11/2021	18	334	550	500
9/11/2021	19	348	620	590
9/11/2021	20	346	647	590
9/11/2021	21	348	647	590
9/11/2021	22	344	647	590
9/11/2021	23	331	550	500
9/11/2021	24	323	500	480
9/12/2021	1	307	580	530
9/12/2021	2	297	580	500
9/12/2021	3	287	550	500
9/12/2021	4	278	520	460
9/12/2021	5	272	520	420
9/12/2021	6	263	470	400
9/12/2021	7	257	450	400
9/12/2021	8	269	480	420
9/12/2021	9	284	520	440
9/12/2021	10	304	560	500
9/12/2021	11	314	580	500
9/12/2021	12	316	580	500
9/12/2021	13	322	600	500
9/12/2021	14	324	647	540
9/12/2021	15	320	601	540
9/12/2021	16	311	580	540
9/12/2021	17	308	580	540
9/12/2021	18	314	615	540
9/12/2021	19	325	647	590
9/12/2021	20	324	647	590

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/12/2021	21	328	647	590
9/12/2021	22	324	647	590
9/12/2021	23	312	620	540
9/12/2021	24	301	580	540
9/13/2021	1	289	450	430
9/13/2021	2	279	450	430
9/13/2021	3	272	450	430
9/13/2021	4	264	450	430
9/13/2021	5	263	450	430
9/13/2021	6	268	450	430
9/13/2021	7	284	450	430
9/13/2021	8	314	470	460
9/13/2021	9	339	550	520
9/13/2021	10	357	620	570
9/13/2021	11	374	647	590
9/13/2021	12	374	647	590
9/13/2021	13	379	647	590
9/13/2021	14	393	647	590
9/13/2021	15	385	647	590
9/13/2021	16	367	647	590
9/13/2021	17	349	600	530
9/13/2021	18	338	600	530
9/13/2021	19	336	550	480
9/13/2021	20	336	550	480
9/13/2021	21	335	550	480
9/13/2021	22	327	550	480
9/13/2021	23	317	480	470
9/13/2021	24	304	480	470
9/14/2021	1	314	647	590
9/14/2021	2	306	600	580
9/14/2021	3	293	580	550
9/14/2021	4	285	550	500
9/14/2021	5	288	550	500
9/14/2021	6	286	550	500
9/14/2021	7	301	580	550
9/14/2021	8	330	600	550
9/14/2021	9	356	647	590
9/14/2021	10	378	647	590
9/14/2021	11	390	647	590
9/14/2021	12	383	647	590
9/14/2021	13	388	647	590
9/14/2021	14	388	647	590
9/14/2021	15	387	647	590
9/14/2021	16	375	647	590
9/14/2021	17	349	580	500
9/14/2021	18	341	580	500
9/14/2021	19	347	550	480
9/14/2021	20	342	550	480
9/14/2021	21	339	550	480
9/14/2021	22	328	550	480
9/14/2021	23	318	480	470
9/14/2021	24	314	480	470
9/15/2021	1	318	630	590
9/15/2021	2	308	510	470
9/15/2021	3	299	470	460
9/15/2021	4	293	470	460
9/15/2021	5	294	470	460
9/15/2021	6	296	470	460
9/15/2021	7	304	550	500
9/15/2021	8	337	647	590
9/15/2021	9	367	647	590
9/15/2021	10	388	647	590
9/15/2021	11	400	647	590
9/15/2021	12	393	647	590
9/15/2021	13	395	647	590

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/15/2021	14	394	647	590
9/15/2021	15	389	647	590
9/15/2021	16	379	647	590
9/15/2021	17	358	647	590
9/15/2021	18	353	647	590
9/15/2021	19	357	647	590
9/15/2021	20	355	647	590
9/15/2021	21	354	647	590
9/15/2021	22	346	647	590
9/15/2021	23	333	647	590
9/15/2021	24	314	647	590
9/16/2021	1	299	470	460
9/16/2021	2	288	470	460
9/16/2021	3	280	470	460
9/16/2021	4	274	470	460
9/16/2021	5	274	470	460
9/16/2021	6	278	470	460
9/16/2021	7	289	470	460
9/16/2021	8	328	470	460
9/16/2021	9	358	550	530
9/16/2021	10	382	647	590
9/16/2021	11	397	647	590
9/16/2021	12	393	647	590
9/16/2021	13	397	647	590
9/16/2021	14	400	647	590
9/16/2021	15	398	647	590
9/16/2021	16	388	647	590
9/16/2021	17	366	647	590
9/16/2021	18	354	600	560
9/16/2021	19	355	600	590
9/16/2021	20	354	647	590
9/16/2021	21	353	647	590
9/16/2021	22	348	647	590
9/16/2021	23	338	580	550
9/16/2021	24	322	500	480
9/17/2021	1	321	470	460
9/17/2021	2	312	470	460
9/17/2021	3	303	470	460
9/17/2021	4	295	470	460
9/17/2021	5	293	470	460
9/17/2021	6	293	470	460
9/17/2021	7	302	470	460
9/17/2021	8	335	470	460
9/17/2021	9	366	550	530
9/17/2021	10	387	647	590
9/17/2021	11	399	647	590
9/17/2021	12	392	647	590
9/17/2021	13	394	647	590
9/17/2021	14	405	647	590
9/17/2021	15	399	647	590
9/17/2021	16	389	647	590
9/17/2021	17	368	600	570
9/17/2021	18	362	590	570
9/17/2021	19	360	550	500
9/17/2021	20	357	550	500
9/17/2021	21	356	550	500
9/17/2021	22	348	500	480
9/17/2021	23	335	500	480
9/17/2021	24	323	500	480
9/18/2021	1	310	470	460
9/18/2021	2	301	470	460
9/18/2021	3	291	470	460
9/18/2021	4	285	470	460
9/18/2021	5	282	470	460
9/18/2021	6	279	470	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/18/2021	7	281	470	460
9/18/2021	8	301	470	460
9/18/2021	9	325	470	460
9/18/2021	10	344	500	480
9/18/2021	11	361	550	500
9/18/2021	12	356	550	500
9/18/2021	13	359	580	520
9/18/2021	14	372	647	590
9/18/2021	15	369	647	590
9/18/2021	16	356	550	500
9/18/2021	17	342	500	480
9/18/2021	18	340	500	480
9/18/2021	19	353	590	530
9/18/2021	20	352	600	540
9/18/2021	21	355	647	590
9/18/2021	22	350	647	590
9/18/2021	23	337	550	500
9/18/2021	24	322	500	490
9/19/2021	1	317	600	590
9/19/2021	2	308	600	550
9/19/2021	3	301	600	550
9/19/2021	4	293	550	550
9/19/2021	5	286	550	520
9/19/2021	6	287	550	550
9/19/2021	7	287	550	550
9/19/2021	8	297	550	550
9/19/2021	9	320	600	590
9/19/2021	10	338	647	590
9/19/2021	11	345	647	590
9/19/2021	12	334	647	590
9/19/2021	13	327	647	590
9/19/2021	14	325	647	590
9/19/2021	15	322	601	590
9/19/2021	16	321	590	580
9/19/2021	17	324	647	590
9/19/2021	18	343	647	590
9/19/2021	19	354	647	590
9/19/2021	20	348	647	590
9/19/2021	21	343	647	590
9/19/2021	22	336	647	590
9/19/2021	23	326	647	590
9/19/2021	24	313	590	580
9/20/2021	1	295	470	460
9/20/2021	2	285	470	460
9/20/2021	3	281	470	460
9/20/2021	4	278	470	460
9/20/2021	5	281	470	460
9/20/2021	6	291	470	460
9/20/2021	7	306	550	500
9/20/2021	8	337	550	500
9/20/2021	9	370	647	590
9/20/2021	10	393	647	590
9/20/2021	11	408	647	590
9/20/2021	12	400	647	590
9/20/2021	13	402	647	590
9/20/2021	14	410	647	590
9/20/2021	15	410	647	590
9/20/2021	16	404	647	590
9/20/2021	17	384	550	500
9/20/2021	18	381	550	500
9/20/2021	19	382	550	500
9/20/2021	20	378	647	590
9/20/2021	21	375	647	590
9/20/2021	22	366	647	590
9/20/2021	23	353	647	590

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/20/2021	24	339	647	590
9/21/2021	1	312	590	500
9/21/2021	2	302	500	480
9/21/2021	3	293	470	460
9/21/2021	4	288	470	460
9/21/2021	5	288	470	460
9/21/2021	6	290	470	460
9/21/2021	7	298	530	490
9/21/2021	8	330	647	590
9/21/2021	9	360	647	590
9/21/2021	10	381	647	590
9/21/2021	11	392	647	590
9/21/2021	12	386	647	590
9/21/2021	13	387	647	590
9/21/2021	14	386	647	590
9/21/2021	15	381	647	590
9/21/2021	16	371	647	590
9/21/2021	17	351	580	520
9/21/2021	18	346	550	500
9/21/2021	19	350	647	590
9/21/2021	20	348	647	590
9/21/2021	21	347	647	590
9/21/2021	22	339	647	590
9/21/2021	23	326	647	590
9/21/2021	24	314	647	590
9/22/2021	1	320	470	460
9/22/2021	2	309	470	460
9/22/2021	3	297	470	460
9/22/2021	4	291	470	460
9/22/2021	5	289	470	460
9/22/2021	6	288	470	460
9/22/2021	7	302	530	490
9/22/2021	8	337	647	590
9/22/2021	9	367	647	590
9/22/2021	10	387	647	590
9/22/2021	11	409	647	590
9/22/2021	12	405	647	590
9/22/2021	13	408	647	590
9/22/2021	14	413	647	590
9/22/2021	15	402	647	590
9/22/2021	16	386	600	550
9/22/2021	17	366	580	520
9/22/2021	18	358	550	500
9/22/2021	19	359	580	520
9/22/2021	20	358	647	590
9/22/2021	21	360	647	590
9/22/2021	22	355	647	590
9/22/2021	23	351	647	590
9/22/2021	24	334	647	590
9/23/2021	1	323	470	460
9/23/2021	2	314	470	460
9/23/2021	3	301	470	460
9/23/2021	4	292	470	460
9/23/2021	5	295	470	460
9/23/2021	6	297	470	460
9/23/2021	7	307	530	490
9/23/2021	8	337	647	590
9/23/2021	9	365	647	590
9/23/2021	10	387	647	590
9/23/2021	11	403	647	590
9/23/2021	12	392	647	590
9/23/2021	13	397	647	590
9/23/2021	14	408	647	590
9/23/2021	15	409	647	590
9/23/2021	16	395	600	550

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/23/2021	17	367	580	520
9/23/2021	18	352	580	520
9/23/2021	19	358	580	520
9/23/2021	20	353	580	520
9/23/2021	21	350	580	520
9/23/2021	22	346	580	520
9/23/2021	23	335	580	520
9/23/2021	24	327	580	520
9/24/2021	1	318	470	460
9/24/2021	2	308	470	460
9/24/2021	3	296	470	460
9/24/2021	4	290	470	460
9/24/2021	5	288	470	460
9/24/2021	6	287	470	460
9/24/2021	7	300	470	460
9/24/2021	8	334	470	460
9/24/2021	9	364	560	520
9/24/2021	10	383	647	590
9/24/2021	11	401	647	590
9/24/2021	12	397	647	590
9/24/2021	13	405	647	590
9/24/2021	14	397	647	590
9/24/2021	15	386	647	590
9/24/2021	16	371	647	590
9/24/2021	17	352	560	520
9/24/2021	18	345	550	500
9/24/2021	19	352	560	520
9/24/2021	20	351	560	520
9/24/2021	21	353	560	520
9/24/2021	22	348	560	520
9/24/2021	23	337	560	520
9/24/2021	24	324	560	520
9/25/2021	1	320	470	460
9/25/2021	2	307	470	460
9/25/2021	3	298	470	460
9/25/2021	4	292	470	460
9/25/2021	5	289	470	460
9/25/2021	6	282	470	460
9/25/2021	7	286	470	460
9/25/2021	8	306	470	460
9/25/2021	9	332	470	460
9/25/2021	10	351	470	460
9/25/2021	11	360	550	520
9/25/2021	12	360	550	520
9/25/2021	13	363	550	520
9/25/2021	14	375	580	540
9/25/2021	15	370	550	520
9/25/2021	16	358	500	480
9/25/2021	17	344	500	480
9/25/2021	18	345	500	480
9/25/2021	19	359	590	540
9/25/2021	20	361	600	570
9/25/2021	21	362	620	580
9/25/2021	22	353	620	580
9/25/2021	23	340	560	520
9/25/2021	24	314	560	520
9/26/2021	1	317	600	500
9/26/2021	2	308	550	500
9/26/2021	3	301	500	500
9/26/2021	4	293	500	480
9/26/2021	5	286	500	480
9/26/2021	6	287	500	480
9/26/2021	7	287	500	480
9/26/2021	8	297	540	460
9/26/2021	9	320	600	480

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/26/2021	10	338	647	500
9/26/2021	11	345	647	500
9/26/2021	12	334	647	500
9/26/2021	13	327	647	500
9/26/2021	14	325	647	500
9/26/2021	15	322	600	500
9/26/2021	16	322	630	500
9/26/2021	17	324	647	500
9/26/2021	18	343	647	500
9/26/2021	19	354	647	500
9/26/2021	20	349	647	500
9/26/2021	21	344	647	500
9/26/2021	22	336	647	500
9/26/2021	23	326	647	500
9/26/2021	24	313	580	500
9/27/2021	1	297	470	460
9/27/2021	2	289	470	460
9/27/2021	3	280	470	460
9/27/2021	4	277	470	460
9/27/2021	5	279	470	460
9/27/2021	6	287	470	460
9/27/2021	7	304	550	500
9/27/2021	8	335	647	590
9/27/2021	9	373	647	590
9/27/2021	10	393	647	590
9/27/2021	11	410	647	590
9/27/2021	12	403	647	590
9/27/2021	13	401	647	590
9/27/2021	14	412	647	590
9/27/2021	15	409	647	590
9/27/2021	16	403	647	590
9/27/2021	17	387	647	590
9/27/2021	18	385	647	590
9/27/2021	19	384	647	590
9/27/2021	20	381	647	590
9/27/2021	21	378	647	590
9/27/2021	22	366	600	550
9/27/2021	23	354	550	500
9/27/2021	24	344	500	480
9/28/2021	1	301	470	460
9/28/2021	2	290	470	460
9/28/2021	3	282	470	460
9/28/2021	4	276	470	460
9/28/2021	5	275	470	460
9/28/2021	6	279	470	460
9/28/2021	7	290	520	490
9/28/2021	8	328	550	520
9/28/2021	9	358	647	590
9/28/2021	10	382	647	590
9/28/2021	11	397	647	590
9/28/2021	12	393	647	590
9/28/2021	13	397	647	590
9/28/2021	14	400	647	590
9/28/2021	15	398	647	590
9/28/2021	16	388	647	590
9/28/2021	17	366	600	550
9/28/2021	18	354	560	520
9/28/2021	19	355	560	520
9/28/2021	20	354	560	520
9/28/2021	21	353	560	520
9/28/2021	22	348	560	520
9/28/2021	23	338	500	480
9/28/2021	24	304	480	470
9/29/2021	1	338	580	550
9/29/2021	2	326	580	550

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/29/2021	3	314	550	500
9/29/2021	4	307	550	500
9/29/2021	5	305	550	500
9/29/2021	6	306	550	500
9/29/2021	7	312	550	500
9/29/2021	8	346	600	550
9/29/2021	9	378	647	590
9/29/2021	10	400	647	590
9/29/2021	11	415	647	590
9/29/2021	12	409	647	590
9/29/2021	13	414	647	590
9/29/2021	14	421	647	590
9/29/2021	15	412	647	590
9/29/2021	16	402	647	590
9/29/2021	17	381	647	590
9/29/2021	18	373	647	590
9/29/2021	19	377	647	590
9/29/2021	20	376	647	590
9/29/2021	21	374	647	590
9/29/2021	22	365	647	590
9/29/2021	23	352	590	550
9/29/2021	24	319	480	470
9/30/2021	1	314	480	470
9/30/2021	2	304	480	470
9/30/2021	3	294	480	470
9/30/2021	4	288	480	470
9/30/2021	5	285	480	470
9/30/2021	6	287	480	470
9/30/2021	7	297	580	510
9/30/2021	8	328	647	590
9/30/2021	9	357	647	590
9/30/2021	10	379	647	590
9/30/2021	11	392	647	590
9/30/2021	12	385	647	590
9/30/2021	13	387	647	590
9/30/2021	14	399	647	590
9/30/2021	15	392	647	590
9/30/2021	16	381	647	590
9/30/2021	17	358	550	500
9/30/2021	18	352	550	500
9/30/2021	19	353	570	520
9/30/2021	20	353	647	590
9/30/2021	21	360	647	590
9/30/2021	22	353	647	590
9/30/2021	23	341	590	550
9/30/2021	24	327	550	500
10/1/2021	1	318	480	470
10/1/2021	2	309	480	470
10/1/2021	3	300	480	470
10/1/2021	4	292	480	470
10/1/2021	5	290	480	470
10/1/2021	6	290	480	470
10/1/2021	7	298	480	470
10/1/2021	8	307	480	470
10/1/2021	9	332	520	490
10/1/2021	10	354	550	500
10/1/2021	11	365	647	590
10/1/2021	12	360	647	590
10/1/2021	13	358	647	590
10/1/2021	14	355	647	590
10/1/2021	15	350	647	590
10/1/2021	16	340	647	590
10/1/2021	17	329	550	500
10/1/2021	18	343	550	500
10/1/2021	19	342	570	520

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/1/2021	20	340	570	520
10/1/2021	21	338	570	520
10/1/2021	22	330	570	520
10/1/2021	23	317	647	590
10/1/2021	24	315	647	590
10/2/2021	1	312	647	590
10/2/2021	2	302	647	590
10/2/2021	3	293	600	540
10/2/2021	4	286	530	490
10/2/2021	5	283	480	470
10/2/2021	6	280	480	470
10/2/2021	7	283	480	470
10/2/2021	8	275	480	470
10/2/2021	9	291	480	470
10/2/2021	10	310	480	470
10/2/2021	11	320	520	490
10/2/2021	12	318	520	490
10/2/2021	13	318	520	490
10/2/2021	14	311	520	490
10/2/2021	15	306	500	480
10/2/2021	16	301	500	480
10/2/2021	17	299	500	480
10/2/2021	18	319	647	590
10/2/2021	19	323	647	590
10/2/2021	20	323	647	590
10/2/2021	21	321	647	590
10/2/2021	22	313	647	590
10/2/2021	23	299	647	590
10/2/2021	24	304	647	590
10/3/2021	1	318	647	590
10/3/2021	2	306	550	540
10/3/2021	3	300	500	500
10/3/2021	4	291	500	480
10/3/2021	5	280	500	480
10/3/2021	6	270	500	480
10/3/2021	7	267	500	480
10/3/2021	8	280	540	460
10/3/2021	9	295	600	480
10/3/2021	10	314	647	500
10/3/2021	11	326	647	500
10/3/2021	12	325	647	500
10/3/2021	13	330	647	590
10/3/2021	14	338	647	590
10/3/2021	15	336	647	590
10/3/2021	16	332	647	590
10/3/2021	17	324	600	550
10/3/2021	18	339	600	550
10/3/2021	19	352	647	590
10/3/2021	20	355	647	590
10/3/2021	21	357	647	590
10/3/2021	22	353	647	590
10/3/2021	23	342	647	590
10/3/2021	24	326	647	590
10/4/2021	1	320	647	590
10/4/2021	2	306	590	520
10/4/2021	3	299	480	470
10/4/2021	4	292	480	470
10/4/2021	5	291	480	470
10/4/2021	6	294	480	470
10/4/2021	7	304	480	470
10/4/2021	8	333	590	550
10/4/2021	9	364	647	590
10/4/2021	10	386	647	590
10/4/2021	11	400	647	590
10/4/2021	12	394	647	590

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/4/2021	13	396	647	590
10/4/2021	14	407	647	590
10/4/2021	15	403	647	590
10/4/2021	16	392	647	590
10/4/2021	17	373	647	590
10/4/2021	18	375	647	590
10/4/2021	19	378	647	590
10/4/2021	20	374	647	590
10/4/2021	21	372	647	590
10/4/2021	22	363	647	590
10/4/2021	23	350	647	590
10/4/2021	24	337	647	590
10/5/2021	1	328	647	590
10/5/2021	2	312	590	520
10/5/2021	3	304	480	470
10/5/2021	4	297	480	470
10/5/2021	5	296	480	470
10/5/2021	6	298	480	470
10/5/2021	7	309	480	470
10/5/2021	8	339	590	550
10/5/2021	9	375	647	590
10/5/2021	10	398	647	590
10/5/2021	11	413	647	590
10/5/2021	12	407	647	590
10/5/2021	13	409	647	590
10/5/2021	14	408	647	590
10/5/2021	15	403	647	590
10/5/2021	16	393	647	590
10/5/2021	17	373	647	590
10/5/2021	18	375	647	590
10/5/2021	19	379	647	590
10/5/2021	20	375	647	590
10/5/2021	21	373	647	590
10/5/2021	22	364	647	590
10/5/2021	23	351	647	590
10/5/2021	24	333	647	590
10/6/2021	1	330	647	590
10/6/2021	2	313	590	520
10/6/2021	3	306	480	470
10/6/2021	4	298	480	470
10/6/2021	5	297	480	470
10/6/2021	6	300	480	470
10/6/2021	7	310	480	470
10/6/2021	8	341	590	550
10/6/2021	9	375	647	590
10/6/2021	10	391	647	590
10/6/2021	11	397	647	590
10/6/2021	12	406	647	590
10/6/2021	13	411	647	590
10/6/2021	14	410	647	590
10/6/2021	15	405	647	590
10/6/2021	16	395	647	590
10/6/2021	17	375	647	590
10/6/2021	18	377	647	590
10/6/2021	19	381	647	590
10/6/2021	20	377	647	590
10/6/2021	21	367	647	590
10/6/2021	22	366	647	590
10/6/2021	23	353	647	590
10/6/2021	24	350	647	590
10/7/2021	1	299	647	590
10/7/2021	2	287	590	520
10/7/2021	3	279	480	470
10/7/2021	4	273	480	470
10/7/2021	5	273	480	470

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/7/2021	6	280	480	470
10/7/2021	7	293	590	550
10/7/2021	8	323	647	590
10/7/2021	9	352	647	590
10/7/2021	10	372	647	590
10/7/2021	11	390	647	590
10/7/2021	12	386	647	590
10/7/2021	13	383	647	590
10/7/2021	14	382	647	590
10/7/2021	15	378	647	590
10/7/2021	16	368	647	590
10/7/2021	17	353	647	590
10/7/2021	18	359	647	590
10/7/2021	19	354	647	590
10/7/2021	20	349	647	590
10/7/2021	21	344	647	590
10/7/2021	22	337	647	590
10/7/2021	23	326	647	590
10/7/2021	24	356	647	590
10/8/2021	1	352	647	590
10/8/2021	2	335	647	590
10/8/2021	3	325	647	590
10/8/2021	4	317	647	590
10/8/2021	5	313	647	590
10/8/2021	6	311	647	590
10/8/2021	7	320	647	590
10/8/2021	8	355	647	590
10/8/2021	9	391	647	590
10/8/2021	10	409	647	590
10/8/2021	11	423	647	590
10/8/2021	12	409	647	590
10/8/2021	13	402	647	590
10/8/2021	14	403	647	590
10/8/2021	15	398	647	590
10/8/2021	16	398	647	590
10/8/2021	17	382	647	590
10/8/2021	18	375	647	590
10/8/2021	19	376	647	590
10/8/2021	20	374	647	590
10/8/2021	21	374	647	590
10/8/2021	22	362	647	590
10/8/2021	23	360	647	590
10/8/2021	24	345	647	590
10/9/2021	1	335	647	590
10/9/2021	2	322	647	590
10/9/2021	3	310	647	590
10/9/2021	4	304	647	590
10/9/2021	5	299	600	550
10/9/2021	6	292	550	500
10/9/2021	7	293	550	500
10/9/2021	8	317	600	550
10/9/2021	9	338	647	590
10/9/2021	10	357	647	590
10/9/2021	11	372	647	590
10/9/2021	12	368	647	590
10/9/2021	13	373	647	590
10/9/2021	14	372	647	590
10/9/2021	15	368	647	590
10/9/2021	16	360	647	590
10/9/2021	17	347	647	590
10/9/2021	18	356	647	590
10/9/2021	19	362	647	590
10/9/2021	20	359	647	590
10/9/2021	21	360	647	590
10/9/2021	22	353	647	590

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/9/2021	23	344	647	590
10/9/2021	24	331	647	590
10/10/2021	1	304	647	590
10/10/2021	2	294	600	540
10/10/2021	3	285	550	500
10/10/2021	4	279	500	480
10/10/2021	5	270	500	480
10/10/2021	6	262	500	480
10/10/2021	7	260	500	480
10/10/2021	8	270	540	460
10/10/2021	9	284	600	480
10/10/2021	10	305	647	500
10/10/2021	11	315	647	500
10/10/2021	12	313	647	500
10/10/2021	13	314	647	590
10/10/2021	14	312	647	590
10/10/2021	15	306	647	590
10/10/2021	16	304	647	590
10/10/2021	17	305	647	550
10/10/2021	18	328	647	590
10/10/2021	19	331	647	590
10/10/2021	20	331	647	590
10/10/2021	21	327	647	590
10/10/2021	22	323	647	590
10/10/2021	23	312	647	590
10/10/2021	24	300	647	590
10/11/2021	1	296	530	500
10/11/2021	2	285	480	470
10/11/2021	3	276	480	470
10/11/2021	4	271	480	470
10/11/2021	5	269	480	470
10/11/2021	6	276	480	470
10/11/2021	7	289	500	480
10/11/2021	8	318	600	550
10/11/2021	9	343	647	590
10/11/2021	10	363	647	590
10/11/2021	11	380	647	590
10/11/2021	12	377	647	590
10/11/2021	13	373	647	590
10/11/2021	14	384	647	590
10/11/2021	15	380	647	590
10/11/2021	16	370	647	590
10/11/2021	17	355	647	590
10/11/2021	18	361	647	590
10/11/2021	19	356	647	590
10/11/2021	20	350	647	590
10/11/2021	21	345	647	590
10/11/2021	22	338	647	590
10/11/2021	23	327	647	590
10/11/2021	24	315	647	590
10/12/2021	1	301	480	470
10/12/2021	2	291	480	470
10/12/2021	3	283	480	470
10/12/2021	4	278	480	470
10/12/2021	5	279	480	470
10/12/2021	6	282	480	470
10/12/2021	7	291	480	470
10/12/2021	8	324	550	500
10/12/2021	9	354	647	590
10/12/2021	10	375	647	590
10/12/2021	11	389	647	590
10/12/2021	12	381	647	590
10/12/2021	13	381	647	590
10/12/2021	14	379	647	590
10/12/2021	15	382	647	590

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/12/2021	16	375	647	590
10/12/2021	17	360	647	590
10/12/2021	18	359	647	590
10/12/2021	19	352	647	590
10/12/2021	20	348	647	590
10/12/2021	21	344	647	590
10/12/2021	22	342	647	590
10/12/2021	23	328	647	590
10/12/2021	24	312	647	590
10/13/2021	1	300	550	500
10/13/2021	2	291	480	470
10/13/2021	3	282	480	470
10/13/2021	4	278	480	470
10/13/2021	5	278	480	470
10/13/2021	6	281	480	470
10/13/2021	7	291	480	470
10/13/2021	8	323	550	500
10/13/2021	9	354	647	590
10/13/2021	10	374	647	590
10/13/2021	11	389	647	590
10/13/2021	12	377	647	590
10/13/2021	13	377	647	590
10/13/2021	14	386	647	590
10/13/2021	15	382	647	590
10/13/2021	16	375	647	590
10/13/2021	17	360	647	590
10/13/2021	18	359	647	590
10/13/2021	19	352	647	590
10/13/2021	20	348	647	590
10/13/2021	21	344	647	590
10/13/2021	22	335	647	590
10/13/2021	23	328	647	590
10/13/2021	24	312	647	590
10/14/2021	1	313	647	590
10/14/2021	2	302	550	500
10/14/2021	3	295	480	470
10/14/2021	4	290	480	470
10/14/2021	5	287	480	470
10/14/2021	6	289	480	470
10/14/2021	7	299	480	470
10/14/2021	8	328	550	500
10/14/2021	9	358	647	590
10/14/2021	10	371	647	590
10/14/2021	11	382	647	590
10/14/2021	12	369	647	590
10/14/2021	13	365	647	590
10/14/2021	14	372	647	590
10/14/2021	15	365	647	590
10/14/2021	16	357	647	590
10/14/2021	17	347	647	590
10/14/2021	18	359	647	590
10/14/2021	19	341	647	590
10/14/2021	20	338	647	590
10/14/2021	21	334	647	590
10/14/2021	22	331	647	590
10/14/2021	23	320	647	590
10/14/2021	24	315	647	590
10/15/2021	1	302	480	470
10/15/2021	2	293	480	470
10/15/2021	3	284	480	470
10/15/2021	4	277	480	470
10/15/2021	5	285	480	470
10/15/2021	6	295	480	470
10/15/2021	7	304	480	470
10/15/2021	8	332	550	500

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/15/2021	9	364	647	590
10/15/2021	10	379	647	590
10/15/2021	11	398	647	590
10/15/2021	12	387	647	590
10/15/2021	13	383	647	590
10/15/2021	14	385	647	590
10/15/2021	15	385	647	590
10/15/2021	16	385	647	590
10/15/2021	17	361	647	590
10/15/2021	18	358	647	590
10/15/2021	19	353	647	590
10/15/2021	20	349	647	590
10/15/2021	21	345	647	590
10/15/2021	22	343	647	590
10/15/2021	23	332	647	590
10/15/2021	24	327	647	590
10/16/2021	1	314	480	470
10/16/2021	2	306	480	470
10/16/2021	3	297	480	470
10/16/2021	4	292	480	470
10/16/2021	5	290	480	470
10/16/2021	6	293	480	470
10/16/2021	7	292	480	470
10/16/2021	8	312	550	500
10/16/2021	9	333	647	590
10/16/2021	10	354	647	590
10/16/2021	11	372	647	590
10/16/2021	12	368	647	590
10/16/2021	13	369	647	590
10/16/2021	14	378	647	590
10/16/2021	15	373	647	590
10/16/2021	16	362	647	590
10/16/2021	17	348	647	590
10/16/2021	18	358	647	590
10/16/2021	19	359	647	590
10/16/2021	20	364	647	590
10/16/2021	21	361	647	590
10/16/2021	22	354	647	590
10/16/2021	23	347	647	590
10/16/2021	24	314	647	590
10/17/2021	1	308	600	550
10/17/2021	2	300	600	540
10/17/2021	3	291	550	500
10/17/2021	4	281	500	480
10/17/2021	5	274	500	480
10/17/2021	6	268	500	480
10/17/2021	7	265	480	460
10/17/2021	8	273	500	460
10/17/2021	9	290	540	480
10/17/2021	10	310	600	500
10/17/2021	11	317	600	500
10/17/2021	12	316	580	480
10/17/2021	13	320	600	500
10/17/2021	14	329	600	550
10/17/2021	15	328	600	550
10/17/2021	16	325	600	550
10/17/2021	17	318	600	550
10/17/2021	18	341	647	590
10/17/2021	19	340	600	550
10/17/2021	20	337	647	550
10/17/2021	21	336	600	550
10/17/2021	22	328	580	530
10/17/2021	23	319	600	530
10/17/2021	24	308	600	530
10/18/2021	1	311	480	470

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/18/2021	2	301	480	470
10/18/2021	3	291	480	470
10/18/2021	4	286	480	470
10/18/2021	5	287	480	470
10/18/2021	6	292	480	470
10/18/2021	7	308	480	470
10/18/2021	8	340	550	500
10/18/2021	9	375	647	590
10/18/2021	10	394	647	590
10/18/2021	11	405	647	590
10/18/2021	12	391	647	590
10/18/2021	13	386	647	590
10/18/2021	14	394	647	590
10/18/2021	15	390	647	590
10/18/2021	16	384	647	590
10/18/2021	17	375	647	590
10/18/2021	18	377	647	590
10/18/2021	19	368	647	590
10/18/2021	20	364	647	590
10/18/2021	21	360	647	590
10/18/2021	22	355	647	590
10/18/2021	23	342	647	590
10/18/2021	24	330	647	590
10/19/2021	1	313	480	470
10/19/2021	2	301	480	470
10/19/2021	3	294	480	470
10/19/2021	4	288	480	470
10/19/2021	5	285	480	470
10/19/2021	6	288	480	470
10/19/2021	7	298	480	470
10/19/2021	8	328	550	500
10/19/2021	9	358	647	590
10/19/2021	10	382	647	590
10/19/2021	11	398	647	590
10/19/2021	12	391	647	590
10/19/2021	13	394	647	590
10/19/2021	14	397	647	590
10/19/2021	15	387	647	590
10/19/2021	16	376	647	590
10/19/2021	17	365	647	590
10/19/2021	18	371	647	590
10/19/2021	19	363	647	590
10/19/2021	20	358	647	590
10/19/2021	21	350	647	590
10/19/2021	22	343	647	590
10/19/2021	23	333	647	590
10/19/2021	24	320	647	590
10/20/2021	1	312	600	590
10/20/2021	2	299	550	540
10/20/2021	3	291	550	550
10/20/2021	4	287	550	500
10/20/2021	5	287	550	500
10/20/2021	6	289	500	480
10/20/2021	7	301	500	480
10/20/2021	8	331	550	550
10/20/2021	9	366	647	590
10/20/2021	10	386	647	590
10/20/2021	11	402	647	590
10/20/2021	12	394	647	590
10/20/2021	13	398	647	590
10/20/2021	14	389	647	590
10/20/2021	15	379	647	590
10/20/2021	16	368	647	590
10/20/2021	17	358	647	590
10/20/2021	18	364	647	590

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/20/2021	19	355	647	590
10/20/2021	20	351	647	590
10/20/2021	21	343	647	590
10/20/2021	22	337	647	590
10/20/2021	23	326	647	590
10/20/2021	24	313	647	590
10/21/2021	1	324	647	460
10/21/2021	2	312	647	460
10/21/2021	3	303	647	460
10/21/2021	4	297	647	460
10/21/2021	5	298	647	460
10/21/2021	6	300	647	460
10/21/2021	7	296	647	460
10/21/2021	8	330	647	460
10/21/2021	9	364	647	460
10/21/2021	10	383	647	460
10/21/2021	11	411	647	460
10/21/2021	12	403	647	460
10/21/2021	13	402	647	460
10/21/2021	14	404	647	460
10/21/2021	15	408	647	460
10/21/2021	16	397	647	460
10/21/2021	17	377	647	460
10/21/2021	18	375	647	460
10/21/2021	19	370	647	460
10/21/2021	20	366	647	460
10/21/2021	21	364	647	460
10/21/2021	22	355	647	460
10/21/2021	23	351	647	460
10/21/2021	24	314	647	460
10/22/2021	1	302	647	460
10/22/2021	2	293	647	460
10/22/2021	3	285	647	460
10/22/2021	4	277	647	460
10/22/2021	5	277	647	460
10/22/2021	6	278	647	460
10/22/2021	7	285	490	460
10/22/2021	8	302	490	460
10/22/2021	9	324	500	490
10/22/2021	10	345	647	590
10/22/2021	11	357	647	590
10/22/2021	12	351	647	590
10/22/2021	13	351	647	590
10/22/2021	14	360	647	590
10/22/2021	15	354	647	590
10/22/2021	16	343	647	590
10/22/2021	17	333	647	590
10/22/2021	18	350	647	590
10/22/2021	19	347	647	590
10/22/2021	20	345	647	590
10/22/2021	21	344	647	590
10/22/2021	22	336	647	590
10/22/2021	23	326	647	590
10/22/2021	24	325	647	590
10/23/2021	1	301	480	470
10/23/2021	2	291	480	470
10/23/2021	3	282	480	470
10/23/2021	4	275	480	470
10/23/2021	5	277	480	470
10/23/2021	6	280	480	470
10/23/2021	7	280	480	470
10/23/2021	8	304	480	470
10/23/2021	9	327	550	500
10/23/2021	10	346	647	590
10/23/2021	11	362	647	590

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/23/2021	12	354	647	590
10/23/2021	13	354	647	590
10/23/2021	14	369	647	590
10/23/2021	15	362	647	590
10/23/2021	16	355	600	540
10/23/2021	17	345	600	540
10/23/2021	18	366	647	590
10/23/2021	19	359	647	590
10/23/2021	20	359	647	590
10/23/2021	21	358	647	590
10/23/2021	22	348	647	590
10/23/2021	23	337	647	590
10/23/2021	24	328	647	590
10/24/2021	1	312	600	590
10/24/2021	2	302	550	540
10/24/2021	3	293	500	500
10/24/2021	4	284	500	500
10/24/2021	5	277	500	480
10/24/2021	6	268	480	455
10/24/2021	7	268	480	455
10/24/2021	8	279	500	460
10/24/2021	9	296	540	480
10/24/2021	10	316	600	500
10/24/2021	11	327	600	500
10/24/2021	12	325	580	480
10/24/2021	13	326	600	500
10/24/2021	14	329	647	560
10/24/2021	15	326	600	550
10/24/2021	16	321	600	550
10/24/2021	17	318	600	550
10/24/2021	18	342	647	590
10/24/2021	19	346	647	590
10/24/2021	20	345	647	590
10/24/2021	21	343	647	590
10/24/2021	22	339	647	590
10/24/2021	23	329	647	590
10/24/2021	24	314	600	550
10/25/2021	1	311	480	470
10/25/2021	2	301	480	470
10/25/2021	3	292	480	470
10/25/2021	4	286	480	470
10/25/2021	5	288	480	470
10/25/2021	6	291	480	470
10/25/2021	7	306	480	470
10/25/2021	8	337	550	500
10/25/2021	9	373	647	590
10/25/2021	10	390	647	590
10/25/2021	11	401	647	590
10/25/2021	12	393	647	590
10/25/2021	13	391	647	590
10/25/2021	14	400	647	590
10/25/2021	15	397	647	590
10/25/2021	16	388	647	590
10/25/2021	17	376	647	590
10/25/2021	18	384	647	590
10/25/2021	19	379	647	590
10/25/2021	20	373	647	590
10/25/2021	21	370	647	590
10/25/2021	22	367	647	590
10/25/2021	23	359	647	590
10/25/2021	24	353	647	590
10/26/2021	1	329	590	460
10/26/2021	2	317	590	460
10/26/2021	3	308	590	460
10/26/2021	4	301	590	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/26/2021	5	302	590	460
10/26/2021	6	292	590	460
10/26/2021	7	297	590	460
10/26/2021	8	334	590	460
10/26/2021	9	365	590	460
10/26/2021	10	389	590	460
10/26/2021	11	403	590	460
10/26/2021	12	394	590	460
10/26/2021	13	376	590	460
10/26/2021	14	412	590	460
10/26/2021	15	408	590	460
10/26/2021	16	398	590	460
10/26/2021	17	380	590	460
10/26/2021	18	386	590	460
10/26/2021	19	381	590	460
10/26/2021	20	373	590	460
10/26/2021	21	372	590	460
10/26/2021	22	362	590	460
10/26/2021	23	351	590	460
10/26/2021	24	339	590	460
10/27/2021	1	312	590	460
10/27/2021	2	303	480	460
10/27/2021	3	294	470	460
10/27/2021	4	289	470	460
10/27/2021	5	284	470	460
10/27/2021	6	285	470	460
10/27/2021	7	295	470	460
10/27/2021	8	328	520	460
10/27/2021	9	359	590	460
10/27/2021	10	378	590	460
10/27/2021	11	392	590	460
10/27/2021	12	385	590	460
10/27/2021	13	383	590	460
10/27/2021	14	390	590	460
10/27/2021	15	383	590	460
10/27/2021	16	370	560	460
10/27/2021	17	355	480	460
10/27/2021	18	365	590	460
10/27/2021	19	357	590	460
10/27/2021	20	354	590	460
10/27/2021	21	351	590	460
10/27/2021	22	341	590	460
10/27/2021	23	331	590	460
10/27/2021	24	332	590	460
10/28/2021	1	301	490	460
10/28/2021	2	292	470	460
10/28/2021	3	284	470	460
10/28/2021	4	279	470	460
10/28/2021	5	279	470	460
10/28/2021	6	281	470	460
10/28/2021	7	292	470	460
10/28/2021	8	320	520	460
10/28/2021	9	346	590	460
10/28/2021	10	365	590	460
10/28/2021	11	389	590	460
10/28/2021	12	382	590	460
10/28/2021	13	384	590	460
10/28/2021	14	395	590	460
10/28/2021	15	389	590	460
10/28/2021	16	379	590	460
10/28/2021	17	360	590	460
10/28/2021	18	367	590	460
10/28/2021	19	361	590	460
10/28/2021	20	358	590	460
10/28/2021	21	356	590	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/28/2021	22	348	590	460
10/28/2021	23	337	590	460
10/28/2021	24	334	590	460
10/29/2021	1	323	490	460
10/29/2021	2	311	470	460
10/29/2021	3	304	470	460
10/29/2021	4	297	470	455
10/29/2021	5	297	470	455
10/29/2021	6	300	470	455
10/29/2021	7	310	470	455
10/29/2021	8	341	520	460
10/29/2021	9	374	590	460
10/29/2021	10	395	590	460
10/29/2021	11	406	590	460
10/29/2021	12	397	590	460
10/29/2021	13	397	590	460
10/29/2021	14	407	590	460
10/29/2021	15	394	590	460
10/29/2021	16	386	590	460
10/29/2021	17	374	590	460
10/29/2021	18	384	590	460
10/29/2021	19	375	590	460
10/29/2021	20	361	590	460
10/29/2021	21	366	590	460
10/29/2021	22	351	590	460
10/29/2021	23	339	590	460
10/29/2021	24	324	590	460
10/30/2021	1	319	470	460
10/30/2021	2	307	470	460
10/30/2021	3	300	470	460
10/30/2021	4	292	470	460
10/30/2021	5	289	470	460
10/30/2021	6	284	470	460
10/30/2021	7	289	470	460
10/30/2021	8	312	470	460
10/30/2021	9	336	470	460
10/30/2021	10	355	590	460
10/30/2021	11	365	590	460
10/30/2021	12	355	590	460
10/30/2021	13	351	590	460
10/30/2021	14	363	590	460
10/30/2021	15	356	590	460
10/30/2021	16	349	590	460
10/30/2021	17	339	590	460
10/30/2021	18	359	590	460
10/30/2021	19	353	590	460
10/30/2021	20	350	590	460
10/30/2021	21	346	590	460
10/30/2021	22	334	590	460
10/30/2021	23	326	590	460
10/30/2021	24	307	590	460
10/31/2021	1	326	590	460
10/31/2021	2	314	540	460
10/31/2021	3	305	500	455
10/31/2021	4	299	500	455
10/31/2021	5	291	480	455
10/31/2021	6	286	455	450
10/31/2021	7	278	455	430
10/31/2021	8	275	460	455
10/31/2021	9	283	480	455
10/31/2021	10	297	550	455
10/31/2021	11	315	550	455
10/31/2021	12	322	550	460
10/31/2021	13	313	550	460
10/31/2021	14	308	550	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/31/2021	15	309	550	460
10/31/2021	16	305	550	460
10/31/2021	17	304	550	460
10/31/2021	18	307	590	460
10/31/2021	19	340	590	460
10/31/2021	20	337	590	460
10/31/2021	21	333	590	460
10/31/2021	22	328	590	460
10/31/2021	23	322	590	460
10/31/2021	24	313	550	460
11/1/2021	1	307	470	460
11/1/2021	2	299	470	460
11/1/2021	3	291	470	460
11/1/2021	4	282	470	460
11/1/2021	5	277	470	460
11/1/2021	6	268	470	460
11/1/2021	7	263	470	460
11/1/2021	8	267	470	460
11/1/2021	9	279	470	460
11/1/2021	10	291	470	460
11/1/2021	11	303	470	460
11/1/2021	12	304	470	460
11/1/2021	13	305	470	460
11/1/2021	14	303	470	460
11/1/2021	15	298	470	460
11/1/2021	16	294	470	460
11/1/2021	17	292	470	460
11/1/2021	18	315	470	460
11/1/2021	19	319	470	460
11/1/2021	20	322	470	460
11/1/2021	21	321	470	460
11/1/2021	22	314	470	460
11/1/2021	23	301	470	460
11/1/2021	24	289	470	460
11/2/2021	1	302	470	460
11/2/2021	2	296	470	460
11/2/2021	3	287	470	460
11/2/2021	4	284	470	460
11/2/2021	5	286	470	460
11/2/2021	6	296	470	460
11/2/2021	7	310	470	460
11/2/2021	8	345	520	460
11/2/2021	9	380	590	460
11/2/2021	10	390	590	460
11/2/2021	11	398	590	460
11/2/2021	12	390	590	460
11/2/2021	13	382	590	460
11/2/2021	14	393	590	460
11/2/2021	15	391	590	460
11/2/2021	16	387	590	460
11/2/2021	17	377	590	460
11/2/2021	18	391	590	460
11/2/2021	19	381	590	460
11/2/2021	20	373	590	460
11/2/2021	21	369	590	460
11/2/2021	22	354	590	460
11/2/2021	23	343	590	460
11/2/2021	24	330	590	460
11/3/2021	1	298	470	460
11/3/2021	2	290	470	460
11/3/2021	3	281	470	460
11/3/2021	4	274	470	460
11/3/2021	5	277	470	460
11/3/2021	6	282	470	460
11/3/2021	7	290	470	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/3/2021	8	323	490	460
11/3/2021	9	356	550	460
11/3/2021	10	378	590	460
11/3/2021	11	387	590	460
11/3/2021	12	381	590	460
11/3/2021	13	383	590	460
11/3/2021	14	396	590	460
11/3/2021	15	393	590	460
11/3/2021	16	384	590	460
11/3/2021	17	363	590	460
11/3/2021	18	364	590	460
11/3/2021	19	358	590	460
11/3/2021	20	357	590	460
11/3/2021	21	357	590	460
11/3/2021	22	345	590	460
11/3/2021	23	336	590	460
11/3/2021	24	318	590	460
11/4/2021	1	304	470	460
11/4/2021	2	294	470	460
11/4/2021	3	284	470	460
11/4/2021	4	279	470	460
11/4/2021	5	282	470	460
11/4/2021	6	288	470	460
11/4/2021	7	295	470	460
11/4/2021	8	321	550	460
11/4/2021	9	352	590	460
11/4/2021	10	373	590	460
11/4/2021	11	387	590	460
11/4/2021	12	381	590	460
11/4/2021	13	380	590	460
11/4/2021	14	391	590	460
11/4/2021	15	386	590	460
11/4/2021	16	381	590	460
11/4/2021	17	366	590	460
11/4/2021	18	379	590	460
11/4/2021	19	371	590	460
11/4/2021	20	367	590	460
11/4/2021	21	362	590	460
11/4/2021	22	350	590	460
11/4/2021	23	334	590	460
11/4/2021	24	337	590	460
11/5/2021	1	324	470	460
11/5/2021	2	315	470	460
11/5/2021	3	304	470	460
11/5/2021	4	301	470	460
11/5/2021	5	304	470	460
11/5/2021	6	309	470	460
11/5/2021	7	318	470	460
11/5/2021	8	326	550	460
11/5/2021	9	354	590	460
11/5/2021	10	379	590	460
11/5/2021	11	391	590	460
11/5/2021	12	384	590	460
11/5/2021	13	384	590	460
11/5/2021	14	392	590	460
11/5/2021	15	387	590	460
11/5/2021	16	378	590	460
11/5/2021	17	367	590	460
11/5/2021	18	391	590	460
11/5/2021	19	386	590	460
11/5/2021	20	383	590	460
11/5/2021	21	380	590	460
11/5/2021	22	368	590	460
11/5/2021	23	353	590	460
11/5/2021	24	303	590	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/6/2021	1	315	470	460
11/6/2021	2	303	470	460
11/6/2021	3	293	470	460
11/6/2021	4	285	470	460
11/6/2021	5	280	470	460
11/6/2021	6	278	470	460
11/6/2021	7	279	470	460
11/6/2021	8	298	470	460
11/6/2021	9	322	470	460
11/6/2021	10	341	550	460
11/6/2021	11	353	590	460
11/6/2021	12	347	590	460
11/6/2021	13	351	590	460
11/6/2021	14	361	590	460
11/6/2021	15	357	590	460
11/6/2021	16	350	590	460
11/6/2021	17	339	590	460
11/6/2021	18	360	590	460
11/6/2021	19	354	590	460
11/6/2021	20	352	590	460
11/6/2021	21	345	590	460
11/6/2021	22	340	590	460
11/6/2021	23	329	590	460
11/6/2021	24	296	590	460
11/7/2021	1	318	540	455
11/7/2021	2	307	500	455
11/7/2021	3	296	500	455
11/7/2021	4	285	480	455
11/7/2021	5	278	455	450
11/7/2021	6	272	455	450
11/7/2021	7	271	455	430
11/7/2021	8	280	460	455
11/7/2021	9	292	480	455
11/7/2021	10	312	550	460
11/7/2021	11	321	550	460
11/7/2021	12	319	550	460
11/7/2021	13	322	550	460
11/7/2021	14	327	550	460
11/7/2021	15	325	550	460
11/7/2021	16	318	550	460
11/7/2021	17	313	550	460
11/7/2021	18	342	590	460
11/7/2021	19	342	590	460
11/7/2021	20	339	590	460
11/7/2021	21	335	590	460
11/7/2021	22	328	590	460
11/7/2021	23	321	590	460
11/7/2021	24	306	550	460
11/8/2021	1	292	470	460
11/8/2021	2	283	470	460
11/8/2021	3	274	470	460
11/8/2021	4	266	470	460
11/8/2021	5	267	470	460
11/8/2021	6	271	470	460
11/8/2021	7	286	550	460
11/8/2021	8	319	590	460
11/8/2021	9	350	590	460
11/8/2021	10	368	590	460
11/8/2021	11	385	590	460
11/8/2021	12	383	590	460
11/8/2021	13	385	590	460
11/8/2021	14	399	590	460
11/8/2021	15	394	590	460
11/8/2021	16	386	590	460
11/8/2021	17	367	590	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/8/2021	18	379	590	460
11/8/2021	19	368	590	460
11/8/2021	20	365	590	460
11/8/2021	21	359	590	460
11/8/2021	22	351	590	460
11/8/2021	23	340	590	460
11/8/2021	24	327	590	460
11/9/2021	1	287	470	460
11/9/2021	2	277	470	460
11/9/2021	3	267	470	460
11/9/2021	4	263	470	460
11/9/2021	5	265	470	460
11/9/2021	6	269	470	460
11/9/2021	7	277	470	460
11/9/2021	8	309	550	460
11/9/2021	9	337	590	460
11/9/2021	10	357	590	460
11/9/2021	11	371	590	460
11/9/2021	12	363	590	460
11/9/2021	13	364	590	460
11/9/2021	14	374	590	460
11/9/2021	15	370	590	460
11/9/2021	16	364	590	460
11/9/2021	17	350	590	460
11/9/2021	18	362	590	460
11/9/2021	19	352	590	460
11/9/2021	20	348	590	460
11/9/2021	21	342	590	460
11/9/2021	22	331	590	460
11/9/2021	23	317	590	460
11/9/2021	24	300	590	460
11/10/2021	1	327	470	460
11/10/2021	2	318	470	460
11/10/2021	3	308	470	460
11/10/2021	4	303	470	460
11/10/2021	5	299	470	460
11/10/2021	6	299	470	460
11/10/2021	7	309	550	460
11/10/2021	8	338	590	460
11/10/2021	9	372	590	460
11/10/2021	10	395	590	460
11/10/2021	11	411	590	460
11/10/2021	12	407	590	460
11/10/2021	13	407	590	460
11/10/2021	14	416	590	460
11/10/2021	15	407	590	460
11/10/2021	16	397	590	460
11/10/2021	17	387	590	460
11/10/2021	18	390	590	460
11/10/2021	19	379	590	460
11/10/2021	20	376	590	460
11/10/2021	21	374	590	460
11/10/2021	22	361	590	460
11/10/2021	23	357	590	460
11/10/2021	24	300	590	460
11/11/2021	1	330	470	460
11/11/2021	2	319	470	460
11/11/2021	3	310	470	460
11/11/2021	4	303	470	460
11/11/2021	5	302	470	460
11/11/2021	6	305	470	460
11/11/2021	7	315	550	460
11/11/2021	8	345	590	460
11/11/2021	9	374	590	460
11/11/2021	10	394	590	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/11/2021	11	407	590	460
11/11/2021	12	400	590	460
11/11/2021	13	402	590	460
11/11/2021	14	416	590	460
11/11/2021	15	410	590	460
11/11/2021	16	402	590	460
11/11/2021	17	383	590	460
11/11/2021	18	385	590	460
11/11/2021	19	376	590	460
11/11/2021	20	379	590	460
11/11/2021	21	376	590	460
11/11/2021	22	364	590	460
11/11/2021	23	354	590	460
11/11/2021	24	299	590	460
11/12/2021	1	325	470	460
11/12/2021	2	319	470	460
11/12/2021	3	305	470	460
11/12/2021	4	301	470	460
11/12/2021	5	298	470	460
11/12/2021	6	304	470	460
11/12/2021	7	308	550	460
11/12/2021	8	340	590	460
11/12/2021	9	372	590	460
11/12/2021	10	386	590	460
11/12/2021	11	406	590	460
11/12/2021	12	400	590	460
11/12/2021	13	405	590	460
11/12/2021	14	418	590	460
11/12/2021	15	413	590	460
11/12/2021	16	403	590	460
11/12/2021	17	384	590	460
11/12/2021	18	394	590	460
11/12/2021	19	387	590	460
11/12/2021	20	385	590	460
11/12/2021	21	383	590	460
11/12/2021	22	372	590	460
11/12/2021	23	362	590	460
11/12/2021	24	309	590	460
11/13/2021	1	332	470	460
11/13/2021	2	323	470	460
11/13/2021	3	312	470	460
11/13/2021	4	305	470	460
11/13/2021	5	301	470	460
11/13/2021	6	297	470	460
11/13/2021	7	298	470	460
11/13/2021	8	318	470	460
11/13/2021	9	342	550	460
11/13/2021	10	361	590	460
11/13/2021	11	377	590	460
11/13/2021	12	376	590	460
11/13/2021	13	380	590	460
11/13/2021	14	392	590	460
11/13/2021	15	389	590	460
11/13/2021	16	380	590	460
11/13/2021	17	362	590	460
11/13/2021	18	379	590	460
11/13/2021	19	379	590	460
11/13/2021	20	380	590	460
11/13/2021	21	381	590	460
11/13/2021	22	372	590	460
11/13/2021	23	361	590	460
11/13/2021	24	349	590	460
11/14/2021	1	337	540	460
11/14/2021	2	327	500	460
11/14/2021	3	314	500	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/14/2021	4	303	480	455
11/14/2021	5	298	455	450
11/14/2021	6	290	455	450
11/14/2021	7	282	455	430
11/14/2021	8	291	455	430
11/14/2021	9	308	480	455
11/14/2021	10	326	550	455
11/14/2021	11	337	550	460
11/14/2021	12	338	550	460
11/14/2021	13	342	550	460
11/14/2021	14	348	550	460
11/14/2021	15	336	550	460
11/14/2021	16	329	550	460
11/14/2021	17	325	550	460
11/14/2021	18	353	590	460
11/14/2021	19	356	590	460
11/14/2021	20	357	590	460
11/14/2021	21	357	590	460
11/14/2021	22	351	590	460
11/14/2021	23	341	590	460
11/14/2021	24	331	550	460
11/15/2021	1	311	470	460
11/15/2021	2	301	470	460
11/15/2021	3	289	470	460
11/15/2021	4	285	470	460
11/15/2021	5	285	470	460
11/15/2021	6	292	470	460
11/15/2021	7	305	550	460
11/15/2021	8	336	590	460
11/15/2021	9	364	590	460
11/15/2021	10	387	590	460
11/15/2021	11	403	590	460
11/15/2021	12	399	590	460
11/15/2021	13	399	590	460
11/15/2021	14	414	590	460
11/15/2021	15	411	590	460
11/15/2021	16	401	590	460
11/15/2021	17	384	590	460
11/15/2021	18	394	590	460
11/15/2021	19	384	590	460
11/15/2021	20	380	590	460
11/15/2021	21	378	590	460
11/15/2021	22	364	590	460
11/15/2021	23	352	590	460
11/15/2021	24	339	590	460
11/16/2021	1	319	470	460
11/16/2021	2	307	470	460
11/16/2021	3	297	470	460
11/16/2021	4	291	470	460
11/16/2021	5	293	470	460
11/16/2021	6	298	470	460
11/16/2021	7	307	550	460
11/16/2021	8	342	590	460
11/16/2021	9	374	590	460
11/16/2021	10	396	590	460
11/16/2021	11	411	590	460
11/16/2021	12	403	590	460
11/16/2021	13	404	590	460
11/16/2021	14	416	590	460
11/16/2021	15	411	590	460
11/16/2021	16	404	590	460
11/16/2021	17	388	590	460
11/16/2021	18	394	590	460
11/16/2021	19	386	590	460
11/16/2021	20	385	590	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/16/2021	21	380	590	460
11/16/2021	22	367	590	460
11/16/2021	23	352	590	460
11/16/2021	24	340	590	460
11/17/2021	1	325	470	460
11/17/2021	2	314	470	460
11/17/2021	3	305	470	460
11/17/2021	4	298	470	460
11/17/2021	5	296	470	460
11/17/2021	6	300	470	460
11/17/2021	7	307	550	460
11/17/2021	8	343	590	460
11/17/2021	9	374	590	460
11/17/2021	10	393	590	460
11/17/2021	11	408	590	460
11/17/2021	12	400	590	460
11/17/2021	13	402	590	460
11/17/2021	14	414	590	460
11/17/2021	15	409	590	460
11/17/2021	16	399	590	460
11/17/2021	17	381	590	460
11/17/2021	18	393	590	460
11/17/2021	19	382	590	460
11/17/2021	20	377	590	460
11/17/2021	21	377	590	460
11/17/2021	22	362	590	460
11/17/2021	23	351	590	460
11/17/2021	24	339	590	460
11/18/2021	1	326	470	460
11/18/2021	2	315	470	460
11/18/2021	3	302	470	460
11/18/2021	4	298	470	460
11/18/2021	5	298	470	460
11/18/2021	6	299	470	460
11/18/2021	7	309	550	460
11/18/2021	8	341	590	460
11/18/2021	9	372	590	460
11/18/2021	10	393	590	460
11/18/2021	11	407	590	460
11/18/2021	12	401	590	460
11/18/2021	13	403	590	460
11/18/2021	14	417	590	460
11/18/2021	15	417	590	460
11/18/2021	16	408	590	460
11/18/2021	17	385	590	460
11/18/2021	18	396	590	460
11/18/2021	19	383	590	460
11/18/2021	20	381	590	460
11/18/2021	21	378	590	460
11/18/2021	22	368	590	460
11/18/2021	23	353	590	460
11/18/2021	24	343	590	460
11/19/2021	1	327	470	460
11/19/2021	2	317	470	460
11/19/2021	3	307	470	460
11/19/2021	4	302	470	460
11/19/2021	5	301	470	460
11/19/2021	6	301	470	460
11/19/2021	7	307	550	460
11/19/2021	8	338	590	460
11/19/2021	9	370	590	460
11/19/2021	10	390	590	460
11/19/2021	11	404	590	460
11/19/2021	12	398	590	460
11/19/2021	13	396	590	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/19/2021	14	407	590	460
11/19/2021	15	403	590	460
11/19/2021	16	396	590	460
11/19/2021	17	379	590	460
11/19/2021	18	388	590	460
11/19/2021	19	380	590	460
11/19/2021	20	377	590	460
11/19/2021	21	374	590	460
11/19/2021	22	364	590	460
11/19/2021	23	355	590	460
11/19/2021	24	344	590	460
11/20/2021	1	327	470	460
11/20/2021	2	319	470	460
11/20/2021	3	310	470	460
11/20/2021	4	301	470	460
11/20/2021	5	299	470	460
11/20/2021	6	292	470	460
11/20/2021	7	292	470	460
11/20/2021	8	311	470	460
11/20/2021	9	336	470	460
11/20/2021	10	357	550	460
11/20/2021	11	369	590	460
11/20/2021	12	364	590	460
11/20/2021	13	366	590	460
11/20/2021	14	372	590	460
11/20/2021	15	369	590	460
11/20/2021	16	360	590	460
11/20/2021	17	351	590	460
11/20/2021	18	369	590	460
11/20/2021	19	362	590	460
11/20/2021	20	360	590	460
11/20/2021	21	358	590	460
11/20/2021	22	349	590	460
11/20/2021	23	340	590	460
11/20/2021	24	332	590	460
11/21/2021	1	323	500	460
11/21/2021	2	311	500	460
11/21/2021	3	301	500	460
11/21/2021	4	293	480	455
11/21/2021	5	290	455	450
11/21/2021	6	281	455	430
11/21/2021	7	275	455	430
11/21/2021	8	286	455	430
11/21/2021	9	299	480	455
11/21/2021	10	321	550	455
11/21/2021	11	332	550	460
11/21/2021	12	328	550	460
11/21/2021	13	331	550	460
11/21/2021	14	337	550	460
11/21/2021	15	333	550	460
11/21/2021	16	331	550	460
11/21/2021	17	324	550	460
11/21/2021	18	353	590	460
11/21/2021	19	354	590	460
11/21/2021	20	356	590	460
11/21/2021	21	355	590	460
11/21/2021	22	347	590	460
11/21/2021	23	335	590	460
11/21/2021	24	325	550	460
11/22/2021	1	312	470	460
11/22/2021	2	302	470	460
11/22/2021	3	290	470	460
11/22/2021	4	285	470	460
11/22/2021	5	285	470	460
11/22/2021	6	290	470	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/22/2021	7	304	470	460
11/22/2021	8	340	550	460
11/22/2021	9	377	590	460
11/22/2021	10	396	590	460
11/22/2021	11	410	590	460
11/22/2021	12	405	590	460
11/22/2021	13	405	590	460
11/22/2021	14	415	590	460
11/22/2021	15	411	590	460
11/22/2021	16	402	590	460
11/22/2021	17	384	590	460
11/22/2021	18	397	590	460
11/22/2021	19	383	590	460
11/22/2021	20	380	590	460
11/22/2021	21	376	590	460
11/22/2021	22	363	590	460
11/22/2021	23	352	590	460
11/22/2021	24	339	590	460
11/23/2021	1	322	460	455
11/23/2021	2	311	460	455
11/23/2021	3	303	460	455
11/23/2021	4	300	460	455
11/23/2021	5	301	460	455
11/23/2021	6	303	460	455
11/23/2021	7	312	460	455
11/23/2021	8	340	460	455
11/23/2021	9	369	460	455
11/23/2021	10	389	460	455
11/23/2021	11	414	460	455
11/23/2021	12	408	460	455
11/23/2021	13	409	460	455
11/23/2021	14	414	460	455
11/23/2021	15	411	460	455
11/23/2021	16	404	460	455
11/23/2021	17	383	460	455
11/23/2021	18	394	460	455
11/23/2021	19	384	460	455
11/23/2021	20	380	460	455
11/23/2021	21	376	460	455
11/23/2021	22	368	460	455
11/23/2021	23	355	460	455
11/23/2021	24	341	460	455
11/24/2021	1	326	460	455
11/24/2021	2	316	460	455
11/24/2021	3	307	460	455
11/24/2021	4	298	460	455
11/24/2021	5	298	460	455
11/24/2021	6	299	460	455
11/24/2021	7	309	460	455
11/24/2021	8	342	460	455
11/24/2021	9	376	460	455
11/24/2021	10	396	460	455
11/24/2021	11	413	460	455
11/24/2021	12	407	460	455
11/24/2021	13	410	460	455
11/24/2021	14	418	460	455
11/24/2021	15	413	460	455
11/24/2021	16	403	460	455
11/24/2021	17	385	460	455
11/24/2021	18	395	460	455
11/24/2021	19	386	460	455
11/24/2021	20	385	460	455
11/24/2021	21	379	460	455
11/24/2021	22	360	460	455
11/24/2021	23	358	460	455

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/24/2021	24	337	460	455
11/25/2021	1	325	460	455
11/25/2021	2	315	460	455
11/25/2021	3	302	460	455
11/25/2021	4	298	460	455
11/25/2021	5	297	460	455
11/25/2021	6	299	460	455
11/25/2021	7	308	460	455
11/25/2021	8	340	460	455
11/25/2021	9	370	460	455
11/25/2021	10	392	460	455
11/25/2021	11	406	460	455
11/25/2021	12	400	460	455
11/25/2021	13	402	460	455
11/25/2021	14	416	460	455
11/25/2021	15	416	460	455
11/25/2021	16	407	460	455
11/25/2021	17	384	460	455
11/25/2021	18	395	460	455
11/25/2021	19	382	460	455
11/25/2021	20	381	460	455
11/25/2021	21	377	460	455
11/25/2021	22	367	460	455
11/25/2021	23	352	460	455
11/25/2021	24	339	460	455
11/26/2021	1	326	460	455
11/26/2021	2	313	460	455
11/26/2021	3	302	460	455
11/26/2021	4	294	460	455
11/26/2021	5	294	460	455
11/26/2021	6	295	460	455
11/26/2021	7	304	460	455
11/26/2021	8	335	460	455
11/26/2021	9	369	460	455
11/26/2021	10	391	460	455
11/26/2021	11	406	460	455
11/26/2021	12	405	460	455
11/26/2021	13	400	460	455
11/26/2021	14	410	460	455
11/26/2021	15	407	460	455
11/26/2021	16	398	460	455
11/26/2021	17	380	460	455
11/26/2021	18	391	460	455
11/26/2021	19	384	455	420
11/26/2021	20	383	455	420
11/26/2021	21	378	455	420
11/26/2021	22	364	455	420
11/26/2021	23	356	455	420
11/26/2021	24	344	455	420
11/27/2021	1	328	455	420
11/27/2021	2	321	455	420
11/27/2021	3	313	455	420
11/27/2021	4	304	455	420
11/27/2021	5	302	455	420
11/27/2021	6	296	455	420
11/27/2021	7	296	455	420
11/27/2021	8	315	455	420
11/27/2021	9	339	455	420
11/27/2021	10	361	455	420
11/27/2021	11	372	455	420
11/27/2021	12	368	455	420
11/27/2021	13	369	455	420
11/27/2021	14	375	455	420
11/27/2021	15	373	455	420
11/27/2021	16	363	455	420

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/27/2021	17	354	455	420
11/27/2021	18	372	455	420
11/27/2021	19	366	455	420
11/27/2021	20	363	455	420
11/27/2021	21	361	455	420
11/27/2021	22	352	455	420
11/27/2021	23	343	455	420
11/27/2021	24	323	455	420
11/28/2021	1	308	480	455
11/28/2021	2	297	480	455
11/28/2021	3	288	480	455
11/28/2021	4	282	480	455
11/28/2021	5	276	455	450
11/28/2021	6	271	455	430
11/28/2021	7	269	455	430
11/28/2021	8	277	455	430
11/28/2021	9	290	455	450
11/28/2021	10	309	480	455
11/28/2021	11	323	500	455
11/28/2021	12	321	500	455
11/28/2021	13	323	500	455
11/28/2021	14	329	550	455
11/28/2021	15	327	550	455
11/28/2021	16	320	550	455
11/28/2021	17	320	550	455
11/28/2021	18	349	590	455
11/28/2021	19	348	590	455
11/28/2021	20	348	590	455
11/28/2021	21	348	590	455
11/28/2021	22	339	590	455
11/28/2021	23	326	550	455
11/28/2021	24	311	550	455
11/29/2021	1	290	460	455
11/29/2021	2	278	460	455
11/29/2021	3	268	460	455
11/29/2021	4	264	460	455
11/29/2021	5	262	460	455
11/29/2021	6	271	460	455
11/29/2021	7	283	460	455
11/29/2021	8	320	520	455
11/29/2021	9	353	590	455
11/29/2021	10	376	590	455
11/29/2021	11	390	590	455
11/29/2021	12	386	590	455
11/29/2021	13	390	590	455
11/29/2021	14	403	590	455
11/29/2021	15	393	590	455
11/29/2021	16	383	590	455
11/29/2021	17	364	590	455
11/29/2021	18	376	590	455
11/29/2021	19	369	590	455
11/29/2021	20	365	590	455
11/29/2021	21	361	590	455
11/29/2021	22	350	590	455
11/29/2021	23	337	590	455
11/29/2021	24	321	590	455
11/30/2021	1	312	460	455
11/30/2021	2	301	460	455
11/30/2021	3	291	430	420
11/30/2021	4	285	430	420
11/30/2021	5	279	430	420
11/30/2021	6	274	430	400
11/30/2021	7	272	430	380
11/30/2021	8	281	430	380
11/30/2021	9	294	430	380

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/30/2021	10	313	460	420
11/30/2021	11	327	460	420
11/30/2021	12	325	460	420
11/30/2021	13	327	460	420
11/30/2021	14	334	460	420
11/30/2021	15	332	460	420
11/30/2021	16	324	460	420
11/30/2021	17	324	460	420
11/30/2021	18	354	460	455
11/30/2021	19	353	460	455
11/30/2021	20	353	460	455
11/30/2021	21	352	460	455
11/30/2021	22	344	460	455
11/30/2021	23	331	460	455
11/30/2021	24	336	460	455
12/1/2021	1	313	460	455
12/1/2021	2	304	460	455
12/1/2021	3	293	460	455
12/1/2021	4	287	460	455
12/1/2021	5	287	460	455
12/1/2021	6	290	460	455
12/1/2021	7	298	460	455
12/1/2021	8	329	460	455
12/1/2021	9	359	460	455
12/1/2021	10	377	460	455
12/1/2021	11	397	460	455
12/1/2021	12	390	460	455
12/1/2021	13	389	460	455
12/1/2021	14	402	460	455
12/1/2021	15	398	460	455
12/1/2021	16	387	460	455
12/1/2021	17	369	460	455
12/1/2021	18	381	460	455
12/1/2021	19	370	460	455
12/1/2021	20	365	460	455
12/1/2021	21	362	460	455
12/1/2021	22	352	460	455
12/1/2021	23	340	460	455
12/1/2021	24	327	460	455
12/2/2021	1	325	460	455
12/2/2021	2	313	460	455
12/2/2021	3	303	460	455
12/2/2021	4	295	460	455
12/2/2021	5	295	460	455
12/2/2021	6	297	460	455
12/2/2021	7	306	460	455
12/2/2021	8	336	460	455
12/2/2021	9	361	460	455
12/2/2021	10	384	460	455
12/2/2021	11	401	460	455
12/2/2021	12	394	460	455
12/2/2021	13	396	460	455
12/2/2021	14	406	460	455
12/2/2021	15	403	460	455
12/2/2021	16	397	460	455
12/2/2021	17	380	460	455
12/2/2021	18	389	460	455
12/2/2021	19	383	460	455
12/2/2021	20	377	460	455
12/2/2021	21	373	460	455
12/2/2021	22	364	460	455
12/2/2021	23	351	460	455
12/2/2021	24	334	460	455
12/3/2021	1	325	460	455
12/3/2021	2	316	460	455

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/3/2021	3	306	460	455
12/3/2021	4	301	460	455
12/3/2021	5	299	460	455
12/3/2021	6	302	460	455
12/3/2021	7	311	460	455
12/3/2021	8	333	460	455
12/3/2021	9	356	460	455
12/3/2021	10	367	460	455
12/3/2021	11	375	460	455
12/3/2021	12	377	460	455
12/3/2021	13	382	460	455
12/3/2021	14	376	460	455
12/3/2021	15	373	460	455
12/3/2021	16	366	460	455
12/3/2021	17	355	460	455
12/3/2021	18	370	460	455
12/3/2021	19	360	460	455
12/3/2021	20	356	460	455
12/3/2021	21	352	460	455
12/3/2021	22	342	460	455
12/3/2021	23	341	460	455
12/3/2021	24	327	460	455
12/4/2021	1	317	460	455
12/4/2021	2	307	460	455
12/4/2021	3	298	460	455
12/4/2021	4	292	460	455
12/4/2021	5	292	460	455
12/4/2021	6	291	460	455
12/4/2021	7	291	460	455
12/4/2021	8	309	460	455
12/4/2021	9	331	460	455
12/4/2021	10	350	460	455
12/4/2021	11	361	460	455
12/4/2021	12	355	460	455
12/4/2021	13	355	460	455
12/4/2021	14	365	460	455
12/4/2021	15	361	460	455
12/4/2021	16	352	460	455
12/4/2021	17	341	460	455
12/4/2021	18	360	460	455
12/4/2021	19	352	460	455
12/4/2021	20	350	460	455
12/4/2021	21	346	460	455
12/4/2021	22	345	460	455
12/4/2021	23	334	460	455
12/4/2021	24	321	460	455
12/5/2021	1	295	455	442
12/5/2021	2	288	455	430
12/5/2021	3	278	450	430
12/5/2021	4	269	450	430
12/5/2021	5	266	450	430
12/5/2021	6	262	450	430
12/5/2021	7	259	450	430
12/5/2021	8	266	450	430
12/5/2021	9	280	450	430
12/5/2021	10	294	460	450
12/5/2021	11	302	500	455
12/5/2021	12	292	500	455
12/5/2021	13	291	550	455
12/5/2021	14	291	580	455
12/5/2021	15	288	580	455
12/5/2021	16	286	580	455
12/5/2021	17	285	560	455
12/5/2021	18	318	590	460
12/5/2021	19	319	590	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/5/2021	20	318	590	460
12/5/2021	21	314	590	460
12/5/2021	22	304	590	460
12/5/2021	23	294	590	460
12/5/2021	24	282	545	455
12/6/2021	1	271	460	455
12/6/2021	2	263	460	455
12/6/2021	3	255	460	455
12/6/2021	4	248	460	455
12/6/2021	5	250	460	455
12/6/2021	6	256	460	455
12/6/2021	7	271	460	455
12/6/2021	8	303	550	460
12/6/2021	9	334	590	460
12/6/2021	10	355	590	460
12/6/2021	11	372	590	460
12/6/2021	12	368	590	460
12/6/2021	13	369	590	460
12/6/2021	14	377	590	460
12/6/2021	15	374	590	460
12/6/2021	16	366	590	460
12/6/2021	17	346	590	460
12/6/2021	18	361	590	460
12/6/2021	19	353	590	460
12/6/2021	20	349	590	460
12/6/2021	21	348	590	460
12/6/2021	22	339	590	460
12/6/2021	23	323	590	460
12/6/2021	24	311	590	460
12/7/2021	1	304	590	460
12/7/2021	2	292	590	460
12/7/2021	3	285	590	460
12/7/2021	4	279	590	460
12/7/2021	5	281	590	460
12/7/2021	6	282	590	460
12/7/2021	7	294	590	460
12/7/2021	8	321	590	460
12/7/2021	9	346	590	460
12/7/2021	10	361	590	460
12/7/2021	11	378	590	460
12/7/2021	12	371	590	460
12/7/2021	13	370	590	460
12/7/2021	14	379	590	460
12/7/2021	15	377	590	460
12/7/2021	16	368	590	460
12/7/2021	17	357	590	460
12/7/2021	18	366	590	460
12/7/2021	19	354	590	460
12/7/2021	20	350	590	460
12/7/2021	21	344	590	460
12/7/2021	22	330	590	460
12/7/2021	23	316	590	460
12/7/2021	24	328	590	460
12/8/2021	1	289	455	430
12/8/2021	2	280	455	430
12/8/2021	3	270	450	430
12/8/2021	4	264	450	430
12/8/2021	5	265	450	430
12/8/2021	6	265	450	430
12/8/2021	7	269	450	430
12/8/2021	8	288	530	450
12/8/2021	9	310	530	450
12/8/2021	10	328	530	460
12/8/2021	11	341	530	455
12/8/2021	12	331	530	455

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/8/2021	13	330	530	460
12/8/2021	14	336	550	460
12/8/2021	15	332	550	460
12/8/2021	16	325	550	460
12/8/2021	17	319	560	460
12/8/2021	18	340	590	460
12/8/2021	19	329	590	460
12/8/2021	20	321	590	460
12/8/2021	21	312	590	460
12/8/2021	22	300	590	460
12/8/2021	23	286	590	460
12/8/2021	24	317	545	460
12/9/2021	1	293	450	420
12/9/2021	2	281	450	420
12/9/2021	3	274	450	420
12/9/2021	4	268	450	420
12/9/2021	5	270	450	420
12/9/2021	6	272	450	420
12/9/2021	7	283	450	420
12/9/2021	8	310	450	420
12/9/2021	9	335	520	460
12/9/2021	10	350	590	460
12/9/2021	11	367	590	460
12/9/2021	12	360	590	460
12/9/2021	13	359	590	460
12/9/2021	14	368	590	460
12/9/2021	15	366	590	460
12/9/2021	16	357	590	460
12/9/2021	17	345	590	460
12/9/2021	18	355	590	460
12/9/2021	19	343	590	460
12/9/2021	20	339	590	460
12/9/2021	21	333	590	460
12/9/2021	22	319	590	460
12/9/2021	23	305	590	460
12/9/2021	24	291	590	460
12/10/2021	1	293	450	420
12/10/2021	2	287	450	420
12/10/2021	3	277	450	420
12/10/2021	4	273	450	420
12/10/2021	5	272	450	420
12/10/2021	6	276	450	420
12/10/2021	7	287	450	420
12/10/2021	8	313	450	420
12/10/2021	9	340	520	460
12/10/2021	10	355	590	460
12/10/2021	11	372	590	460
12/10/2021	12	372	590	460
12/10/2021	13	368	590	460
12/10/2021	14	374	590	460
12/10/2021	15	371	590	460
12/10/2021	16	363	590	460
12/10/2021	17	350	590	460
12/10/2021	18	359	590	460
12/10/2021	19	351	590	460
12/10/2021	20	344	590	460
12/10/2021	21	338	590	460
12/10/2021	22	325	590	460
12/10/2021	23	309	590	460
12/10/2021	24	298	590	460
12/11/2021	1	289	410	390
12/11/2021	2	280	410	390
12/11/2021	3	270	410	390
12/11/2021	4	264	410	390
12/11/2021	5	265	410	390

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/11/2021	6	265	450	420
12/11/2021	7	269	450	420
12/11/2021	8	287	450	420
12/11/2021	9	310	520	460
12/11/2021	10	328	590	460
12/11/2021	11	341	590	460
12/11/2021	12	331	590	460
12/11/2021	13	329	590	460
12/11/2021	14	336	590	460
12/11/2021	15	332	590	460
12/11/2021	16	324	590	460
12/11/2021	17	318	590	460
12/11/2021	18	340	590	460
12/11/2021	19	329	590	460
12/11/2021	20	321	590	460
12/11/2021	21	312	590	460
12/11/2021	22	300	590	460
12/11/2021	23	286	590	460
12/11/2021	24	275	590	460
12/12/2021	1	267	400	360
12/12/2021	2	260	400	340
12/12/2021	3	250	400	316
12/12/2021	4	246	400	316
12/12/2021	5	244	400	316
12/12/2021	6	241	400	316
12/12/2021	7	241	400	316
12/12/2021	8	251	400	316
12/12/2021	9	264	450	350
12/12/2021	10	283	480	400
12/12/2021	11	296	480	400
12/12/2021	12	290	480	400
12/12/2021	13	290	480	430
12/12/2021	14	293	480	430
12/12/2021	15	289	540	430
12/12/2021	16	285	590	430
12/12/2021	17	287	590	430
12/12/2021	18	316	590	430
12/12/2021	19	311	590	430
12/12/2021	20	304	590	430
12/12/2021	21	297	590	430
12/12/2021	22	285	590	430
12/12/2021	23	275	550	430
12/12/2021	24	263	540	400
12/13/2021	1	263	410	390
12/13/2021	2	256	410	390
12/13/2021	3	248	410	390
12/13/2021	4	245	410	390
12/13/2021	5	249	410	390
12/13/2021	6	260	450	420
12/13/2021	7	276	450	420
12/13/2021	8	305	450	420
12/13/2021	9	332	520	460
12/13/2021	10	351	590	460
12/13/2021	11	366	590	460
12/13/2021	12	360	590	460
12/13/2021	13	359	590	460
12/13/2021	14	371	590	460
12/13/2021	15	369	590	460
12/13/2021	16	364	590	460
12/13/2021	17	351	590	460
12/13/2021	18	366	590	460
12/13/2021	19	355	590	460
12/13/2021	20	345	590	460
12/13/2021	21	336	590	460
12/13/2021	22	319	590	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/13/2021	23	304	590	460
12/13/2021	24	292	590	460
12/14/2021	1	312	410	390
12/14/2021	2	301	410	390
12/14/2021	3	289	410	390
12/14/2021	4	282	410	390
12/14/2021	5	279	410	390
12/14/2021	6	277	450	390
12/14/2021	7	279	450	390
12/14/2021	8	306	450	420
12/14/2021	9	333	520	460
12/14/2021	10	350	590	460
12/14/2021	11	364	590	460
12/14/2021	12	354	590	460
12/14/2021	13	348	590	460
12/14/2021	14	358	590	460
12/14/2021	15	355	590	460
12/14/2021	16	347	590	460
12/14/2021	17	342	590	460
12/14/2021	18	367	590	460
12/14/2021	19	340	590	460
12/14/2021	20	332	590	460
12/14/2021	21	320	590	460
12/14/2021	22	304	590	460
12/14/2021	23	290	590	460
12/14/2021	24	310	590	460
12/15/2021	1	304	410	390
12/15/2021	2	293	410	390
12/15/2021	3	285	410	390
12/15/2021	4	280	410	390
12/15/2021	5	282	410	390
12/15/2021	6	283	450	390
12/15/2021	7	294	450	390
12/15/2021	8	321	450	420
12/15/2021	9	346	520	460
12/15/2021	10	362	590	460
12/15/2021	11	379	590	460
12/15/2021	12	371	590	460
12/15/2021	13	371	590	460
12/15/2021	14	380	590	460
12/15/2021	15	377	590	460
12/15/2021	16	369	590	460
12/15/2021	17	357	590	460
12/15/2021	18	367	590	460
12/15/2021	19	355	590	460
12/15/2021	20	350	590	460
12/15/2021	21	345	590	460
12/15/2021	22	331	590	460
12/15/2021	23	316	590	460
12/15/2021	24	281	590	460
12/16/2021	1	305	410	390
12/16/2021	2	293	410	390
12/16/2021	3	286	410	390
12/16/2021	4	280	410	390
12/16/2021	5	282	410	390
12/16/2021	6	283	450	390
12/16/2021	7	294	450	390
12/16/2021	8	321	450	420
12/16/2021	9	346	520	460
12/16/2021	10	361	590	460
12/16/2021	11	378	590	460
12/16/2021	12	371	590	460
12/16/2021	13	370	590	460
12/16/2021	14	380	590	460
12/16/2021	15	377	590	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/16/2021	16	368	590	460
12/16/2021	17	357	590	460
12/16/2021	18	367	590	460
12/16/2021	19	354	590	460
12/16/2021	20	350	590	460
12/16/2021	21	345	590	460
12/16/2021	22	331	590	460
12/16/2021	23	316	590	460
12/16/2021	24	292	590	460
12/17/2021	1	282	410	390
12/17/2021	2	273	410	390
12/17/2021	3	267	410	390
12/17/2021	4	263	410	390
12/17/2021	5	263	410	390
12/17/2021	6	271	450	390
12/17/2021	7	284	450	390
12/17/2021	8	310	450	420
12/17/2021	9	333	520	460
12/17/2021	10	351	590	460
12/17/2021	11	364	590	460
12/17/2021	12	356	590	460
12/17/2021	13	356	590	460
12/17/2021	14	369	590	460
12/17/2021	15	366	590	460
12/17/2021	16	359	590	460
12/17/2021	17	346	590	460
12/17/2021	18	361	590	460
12/17/2021	19	351	590	460
12/17/2021	20	345	590	460
12/17/2021	21	336	590	460
12/17/2021	22	322	590	460
12/17/2021	23	308	590	460
12/17/2021	24	299	590	460
12/18/2021	1	286	410	390
12/18/2021	2	278	410	390
12/18/2021	3	270	410	390
12/18/2021	4	266	410	390
12/18/2021	5	267	410	390
12/18/2021	6	266	450	390
12/18/2021	7	271	450	390
12/18/2021	8	291	450	420
12/18/2021	9	314	520	460
12/18/2021	10	330	590	460
12/18/2021	11	339	590	460
12/18/2021	12	331	590	460
12/18/2021	13	327	590	460
12/18/2021	14	334	590	460
12/18/2021	15	326	590	460
12/18/2021	16	323	590	460
12/18/2021	17	324	590	460
12/18/2021	18	345	590	460
12/18/2021	19	339	590	460
12/18/2021	20	336	590	460
12/18/2021	21	332	590	460
12/18/2021	22	319	590	460
12/18/2021	23	308	590	460
12/18/2021	24	296	590	460
12/19/2021	1	276	410	390
12/19/2021	2	269	410	390
12/19/2021	3	260	410	390
12/19/2021	4	254	410	390
12/19/2021	5	255	410	390
12/19/2021	6	251	410	390
12/19/2021	7	252	410	390
12/19/2021	8	258	410	390

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/19/2021	9	277	420	410
12/19/2021	10	291	520	420
12/19/2021	11	300	590	460
12/19/2021	12	293	590	460
12/19/2021	13	292	590	460
12/19/2021	14	293	590	460
12/19/2021	15	289	590	460
12/19/2021	16	287	590	460
12/19/2021	17	288	590	460
12/19/2021	18	316	590	460
12/19/2021	19	315	590	460
12/19/2021	20	313	590	460
12/19/2021	21	308	590	460
12/19/2021	22	297	590	460
12/19/2021	23	284	590	460
12/19/2021	24	274	590	460
12/20/2021	1	266	410	390
12/20/2021	2	259	410	390
12/20/2021	3	251	410	390
12/20/2021	4	246	410	390
12/20/2021	5	250	410	390
12/20/2021	6	263	450	390
12/20/2021	7	281	450	390
12/20/2021	8	308	450	420
12/20/2021	9	338	520	460
12/20/2021	10	356	590	460
12/20/2021	11	371	590	460
12/20/2021	12	362	590	460
12/20/2021	13	360	590	460
12/20/2021	14	371	590	460
12/20/2021	15	368	590	460
12/20/2021	16	361	590	460
12/20/2021	17	347	590	460
12/20/2021	18	359	590	460
12/20/2021	19	348	590	460
12/20/2021	20	343	590	460
12/20/2021	21	333	590	460
12/20/2021	22	321	590	460
12/20/2021	23	304	590	460
12/20/2021	24	294	590	460
12/21/2021	1	305	410	390
12/21/2021	2	293	410	390
12/21/2021	3	285	410	390
12/21/2021	4	280	410	390
12/21/2021	5	282	410	390
12/21/2021	6	283	410	390
12/21/2021	7	294	450	390
12/21/2021	8	322	450	420
12/21/2021	9	347	520	460
12/21/2021	10	363	590	460
12/21/2021	11	379	590	460
12/21/2021	12	372	590	460
12/21/2021	13	371	590	460
12/21/2021	14	381	590	460
12/21/2021	15	378	590	460
12/21/2021	16	370	590	460
12/21/2021	17	358	590	460
12/21/2021	18	368	590	460
12/21/2021	19	356	590	460
12/21/2021	20	351	590	460
12/21/2021	21	346	590	460
12/21/2021	22	332	590	460
12/21/2021	23	318	590	460
12/21/2021	24	296	590	460
12/22/2021	1	294	410	390

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/22/2021	2	287	410	390
12/22/2021	3	280	410	390
12/22/2021	4	274	410	390
12/22/2021	5	276	410	390
12/22/2021	6	281	410	390
12/22/2021	7	293	450	390
12/22/2021	8	321	450	420
12/22/2021	9	348	520	460
12/22/2021	10	365	590	460
12/22/2021	11	380	590	460
12/22/2021	12	369	590	460
12/22/2021	13	366	590	460
12/22/2021	14	380	590	460
12/22/2021	15	376	590	460
12/22/2021	16	369	590	460
12/22/2021	17	352	590	460
12/22/2021	18	366	590	460
12/22/2021	19	357	590	460
12/22/2021	20	349	590	460
12/22/2021	21	341	590	460
12/22/2021	22	329	590	460
12/22/2021	23	314	590	460
12/22/2021	24	294	590	460
12/23/2021	1	312	450	410
12/23/2021	2	301	450	410
12/23/2021	3	292	450	410
12/23/2021	4	280	450	410
12/23/2021	5	283	450	410
12/23/2021	6	284	450	410
12/23/2021	7	295	450	450
12/23/2021	8	322	520	450
12/23/2021	9	347	590	520
12/23/2021	10	362	647	590
12/23/2021	11	379	647	590
12/23/2021	12	372	647	590
12/23/2021	13	371	647	590
12/23/2021	14	381	647	590
12/23/2021	15	378	647	590
12/23/2021	16	369	647	590
12/23/2021	17	358	647	590
12/23/2021	18	368	647	590
12/23/2021	19	355	647	590
12/23/2021	20	351	647	590
12/23/2021	21	345	647	590
12/23/2021	22	332	647	590
12/23/2021	23	317	647	590
12/23/2021	24	309	647	590
12/24/2021	1	298	450	410
12/24/2021	2	291	450	410
12/24/2021	3	285	450	410
12/24/2021	4	280	450	410
12/24/2021	5	282	450	410
12/24/2021	6	283	450	410
12/24/2021	7	284	450	410
12/24/2021	8	302	480	470
12/24/2021	9	326	480	470
12/24/2021	10	348	480	470
12/24/2021	11	360	480	470
12/24/2021	12	352	480	470
12/24/2021	13	351	480	470
12/24/2021	14	357	480	470
12/24/2021	15	354	480	470
12/24/2021	16	347	480	470
12/24/2021	17	340	480	470
12/24/2021	18	361	480	470

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/24/2021	19	354	480	470
12/24/2021	20	349	480	470
12/24/2021	21	342	480	470
12/24/2021	22	330	480	470
12/24/2021	23	316	480	470
12/24/2021	24	281	480	470
12/25/2021	1	222	350	320
12/25/2021	2	212	350	320
12/25/2021	3	199	350	320
12/25/2021	4	194	350	320
12/25/2021	5	196	350	320
12/25/2021	6	184	350	320
12/25/2021	7	189	350	320
12/25/2021	8	205	350	320
12/25/2021	9	222	350	320
12/25/2021	10	238	350	320
12/25/2021	11	254	420	410
12/25/2021	12	246	420	410
12/25/2021	13	248	420	410
12/25/2021	14	256	480	470
12/25/2021	15	255	480	470
12/25/2021	16	252	480	470
12/25/2021	17	249	480	470
12/25/2021	18	269	480	470
12/25/2021	19	264	480	470
12/25/2021	20	259	480	470
12/25/2021	21	249	480	470
12/25/2021	22	238	420	410
12/25/2021	23	224	350	320
12/25/2021	24	224	350	320
12/26/2021	1	288	450	410
12/26/2021	2	277	450	410
12/26/2021	3	269	450	410
12/26/2021	4	263	450	410
12/26/2021	5	260	450	410
12/26/2021	6	257	450	410
12/26/2021	7	255	450	410
12/26/2021	8	263	480	470
12/26/2021	9	275	480	470
12/26/2021	10	286	480	470
12/26/2021	11	294	480	470
12/26/2021	12	292	480	470
12/26/2021	13	289	480	470
12/26/2021	14	287	480	470
12/26/2021	15	285	480	470
12/26/2021	16	283	480	470
12/26/2021	17	289	480	470
12/26/2021	18	318	480	470
12/26/2021	19	318	480	470
12/26/2021	20	315	480	470
12/26/2021	21	308	480	470
12/26/2021	22	297	480	470
12/26/2021	23	284	480	470
12/26/2021	24	272	480	470
12/27/2021	1	237	350	320
12/27/2021	2	231	350	320
12/27/2021	3	225	350	320
12/27/2021	4	221	350	320
12/27/2021	5	226	350	320
12/27/2021	6	233	420	390
12/27/2021	7	250	420	390
12/27/2021	8	276	480	470
12/27/2021	9	303	480	470
12/27/2021	10	327	480	470
12/27/2021	11	346	480	470

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/27/2021	12	339	480	470
12/27/2021	13	336	480	470
12/27/2021	14	348	480	470
12/27/2021	15	345	480	470
12/27/2021	16	341	480	470
12/27/2021	17	328	480	470
12/27/2021	18	339	480	470
12/27/2021	19	330	480	470
12/27/2021	20	323	480	470
12/27/2021	21	317	480	470
12/27/2021	22	300	480	470
12/27/2021	23	288	480	470
12/27/2021	24	276	480	470
12/28/2021	1	265	520	480
12/28/2021	2	259	460	450
12/28/2021	3	253	460	450
12/28/2021	4	250	460	450
12/28/2021	5	248	460	450
12/28/2021	6	250	460	450
12/28/2021	7	257	460	450
12/28/2021	8	277	520	480
12/28/2021	9	303	520	480
12/28/2021	10	323	520	480
12/28/2021	11	338	647	590
12/28/2021	12	334	647	590
12/28/2021	13	339	647	590
12/28/2021	14	347	647	590
12/28/2021	15	345	647	590
12/28/2021	16	337	647	590
12/28/2021	17	319	647	590
12/28/2021	18	332	647	590
12/28/2021	19	330	647	590
12/28/2021	20	323	647	590
12/28/2021	21	320	647	590
12/28/2021	22	310	647	590
12/28/2021	23	296	647	590
12/28/2021	24	328	647	590
12/29/2021	1	281	520	480
12/29/2021	2	273	490	470
12/29/2021	3	268	460	450
12/29/2021	4	261	460	450
12/29/2021	5	263	460	450
12/29/2021	6	273	460	450
12/29/2021	7	283	460	450
12/29/2021	8	302	520	480
12/29/2021	9	323	520	480
12/29/2021	10	330	520	480
12/29/2021	11	338	647	550
12/29/2021	12	335	647	550
12/29/2021	13	334	647	460
12/29/2021	14	336	647	460
12/29/2021	15	325	647	460
12/29/2021	16	321	647	460
12/29/2021	17	320	647	460
12/29/2021	18	329	647	460
12/29/2021	19	327	647	460
12/29/2021	20	325	647	460
12/29/2021	21	321	647	460
12/29/2021	22	311	647	460
12/29/2021	23	297	647	460
12/29/2021	24	281	647	460
12/30/2021	1	247	460	420
12/30/2021	2	239	440	420
12/30/2021	3	232	440	420
12/30/2021	4	226	440	420

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/30/2021	5	225	440	420
12/30/2021	6	227	440	420
12/30/2021	7	231	440	420
12/30/2021	8	238	440	420
12/30/2021	9	255	440	420
12/30/2021	10	273	440	420
12/30/2021	11	283	520	420
12/30/2021	12	283	520	420
12/30/2021	13	280	520	420
12/30/2021	14	280	520	420
12/30/2021	15	278	520	420
12/30/2021	16	278	647	420
12/30/2021	17	281	647	460
12/30/2021	18	308	647	460
12/30/2021	19	308	647	460
12/30/2021	20	306	647	460
12/30/2021	21	298	647	460
12/30/2021	22	286	647	460
12/30/2021	23	274	647	460
12/30/2021	24	258	560	420
12/31/2021	1	251	420	350
12/31/2021	2	243	382	350
12/31/2021	3	235	382	300
12/31/2021	4	229	280	261
12/31/2021	5	225	300	240
12/31/2021	6	224	300	240
12/31/2021	7	222	300	210
12/31/2021	8	234	300	210
12/31/2021	9	254	300	210
12/31/2021	10	268	300	280
12/31/2021	11	277	330	320
12/31/2021	12	274	330	320
12/31/2021	13	270	350	280
12/31/2021	14	273	350	280
12/31/2021	15	267	330	250
12/31/2021	16	262	330	267
12/31/2021	17	258	350	280
12/31/2021	18	275	400	350
12/31/2021	19	270	400	350
12/31/2021	20	257	350	302
12/31/2021	21	249	320	235
12/31/2021	22	244	320	238
12/31/2021	23	239	300	220
12/31/2021	24	231	300	215
1/1/2022	1	248	420	350
1/1/2022	2	242	400	350
1/1/2022	3	234	382	300
1/1/2022	4	227	339	300
1/1/2022	5	222	300	281
1/1/2022	6	219	300	281
1/1/2022	7	214	300	232
1/1/2022	8	218	300	208
1/1/2022	9	223	300	240
1/1/2022	10	236	300	280
1/1/2022	11	246	330	300
1/1/2022	12	250	330	320
1/1/2022	13	251	350	306
1/1/2022	14	253	380	315
1/1/2022	15	254	380	340
1/1/2022	16	251	380	340
1/1/2022	17	250	380	320
1/1/2022	18	272	420	382
1/1/2022	19	275	450	420
1/1/2022	20	273	450	420
1/1/2022	21	270	450	420

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/1/2022	22	261	420	420
1/1/2022	23	251	420	380
1/1/2022	24	243	380	350
1/2/2022	1	211	390	360
1/2/2022	2	203	390	360
1/2/2022	3	196	390	360
1/2/2022	4	190	390	360
1/2/2022	5	189	390	360
1/2/2022	6	191	390	360
1/2/2022	7	195	390	360
1/2/2022	8	202	390	360
1/2/2022	9	218	390	360
1/2/2022	10	237	390	360
1/2/2022	11	247	470	380
1/2/2022	12	247	470	380
1/2/2022	13	244	470	380
1/2/2022	14	244	470	380
1/2/2022	15	242	470	380
1/2/2022	16	242	550	420
1/2/2022	17	246	550	420
1/2/2022	18	272	647	460
1/2/2022	19	271	647	460
1/2/2022	20	269	647	460
1/2/2022	21	261	550	420
1/2/2022	22	249	470	360
1/2/2022	23	237	390	360
1/2/2022	24	227	390	360
1/3/2022	1	268	440	420
1/3/2022	2	261	440	420
1/3/2022	3	253	440	420
1/3/2022	4	251	440	420
1/3/2022	5	253	440	420
1/3/2022	6	260	440	420
1/3/2022	7	274	440	420
1/3/2022	8	294	550	420
1/3/2022	9	324	647	420
1/3/2022	10	339	647	460
1/3/2022	11	350	647	460
1/3/2022	12	344	647	460
1/3/2022	13	338	647	460
1/3/2022	14	343	647	460
1/3/2022	15	339	647	460
1/3/2022	16	335	647	460
1/3/2022	17	330	647	460
1/3/2022	18	344	647	460
1/3/2022	19	336	647	460
1/3/2022	20	329	647	460
1/3/2022	21	320	647	460
1/3/2022	22	308	647	460
1/3/2022	23	295	647	460
1/3/2022	24	286	550	420
1/4/2022	1	266	440	420
1/4/2022	2	260	440	420
1/4/2022	3	250	440	420
1/4/2022	4	250	440	420
1/4/2022	5	251	440	420
1/4/2022	6	256	440	420
1/4/2022	7	270	440	420
1/4/2022	8	295	550	420
1/4/2022	9	323	647	420
1/4/2022	10	335	647	460
1/4/2022	11	349	647	460
1/4/2022	12	349	647	460
1/4/2022	13	343	647	460
1/4/2022	14	352	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/4/2022	15	346	647	460
1/4/2022	16	343	647	460
1/4/2022	17	325	647	460
1/4/2022	18	335	647	460
1/4/2022	19	332	647	460
1/4/2022	20	326	647	460
1/4/2022	21	318	647	460
1/4/2022	22	305	647	460
1/4/2022	23	291	647	460
1/4/2022	24	331	647	460
1/5/2022	1	267	440	420
1/5/2022	2	259	440	420
1/5/2022	3	254	440	420
1/5/2022	4	247	440	420
1/5/2022	5	249	440	420
1/5/2022	6	251	420	400
1/5/2022	7	261	420	400
1/5/2022	8	285	450	420
1/5/2022	9	313	500	420
1/5/2022	10	328	500	460
1/5/2022	11	343	550	460
1/5/2022	12	340	550	460
1/5/2022	13	343	550	460
1/5/2022	14	355	647	460
1/5/2022	15	356	647	460
1/5/2022	16	350	647	460
1/5/2022	17	334	647	460
1/5/2022	18	347	647	460
1/5/2022	19	340	647	460
1/5/2022	20	336	647	460
1/5/2022	21	332	647	460
1/5/2022	22	320	647	460
1/5/2022	23	308	647	460
1/5/2022	24	284	647	460
1/6/2022	1	250	440	420
1/6/2022	2	245	440	420
1/6/2022	3	238	420	400
1/6/2022	4	236	420	400
1/6/2022	5	242	420	400
1/6/2022	6	250	420	420
1/6/2022	7	263	420	420
1/6/2022	8	284	450	420
1/6/2022	9	312	500	420
1/6/2022	10	326	500	460
1/6/2022	11	344	647	460
1/6/2022	12	340	647	460
1/6/2022	13	339	647	460
1/6/2022	14	349	647	460
1/6/2022	15	345	647	460
1/6/2022	16	342	647	460
1/6/2022	17	328	647	460
1/6/2022	18	342	647	460
1/6/2022	19	338	647	460
1/6/2022	20	325	647	460
1/6/2022	21	315	647	460
1/6/2022	22	302	647	460
1/6/2022	23	289	647	460
1/6/2022	24	267	647	460
1/7/2022	1	265	420	400
1/7/2022	2	257	420	400
1/7/2022	3	251	420	400
1/7/2022	4	248	420	400
1/7/2022	5	250	420	400
1/7/2022	6	257	420	400
1/7/2022	7	270	420	400

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/7/2022	8	291	450	420
1/7/2022	9	314	500	420
1/7/2022	10	335	500	460
1/7/2022	11	346	647	460
1/7/2022	12	337	647	460
1/7/2022	13	337	647	460
1/7/2022	14	350	647	460
1/7/2022	15	347	647	460
1/7/2022	16	346	647	460
1/7/2022	17	332	647	460
1/7/2022	18	343	647	460
1/7/2022	19	337	647	460
1/7/2022	20	327	647	460
1/7/2022	21	318	647	460
1/7/2022	22	306	647	460
1/7/2022	23	293	647	460
1/7/2022	24	261	550	460
1/8/2022	1	270	420	400
1/8/2022	2	262	420	400
1/8/2022	3	254	420	400
1/8/2022	4	251	420	400
1/8/2022	5	256	420	400
1/8/2022	6	265	420	400
1/8/2022	7	273	420	400
1/8/2022	8	257	450	420
1/8/2022	9	275	500	420
1/8/2022	10	293	500	460
1/8/2022	11	304	647	460
1/8/2022	12	300	647	460
1/8/2022	13	297	647	460
1/8/2022	14	303	647	460
1/8/2022	15	300	647	460
1/8/2022	16	295	647	460
1/8/2022	17	289	647	460
1/8/2022	18	305	647	460
1/8/2022	19	309	550	460
1/8/2022	20	302	500	420
1/8/2022	21	296	420	420
1/8/2022	22	286	420	400
1/8/2022	23	275	420	400
1/8/2022	24	246	420	400
1/9/2022	1	219	440	376
1/9/2022	2	213	440	376
1/9/2022	3	207	400	376
1/9/2022	4	203	376	360
1/9/2022	5	205	400	376
1/9/2022	6	209	400	376
1/9/2022	7	213	400	350
1/9/2022	8	224	420	350
1/9/2022	9	237	450	350
1/9/2022	10	254	500	382
1/9/2022	11	260	500	382
1/9/2022	12	260	500	382
1/9/2022	13	256	500	360
1/9/2022	14	255	500	360
1/9/2022	15	256	500	360
1/9/2022	16	258	500	420
1/9/2022	17	261	550	420
1/9/2022	18	288	647	420
1/9/2022	19	291	647	420
1/9/2022	20	286	647	420
1/9/2022	21	276	647	420
1/9/2022	22	265	647	420
1/9/2022	23	252	647	420
1/9/2022	24	241	647	376

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/10/2022	1	236	420	400
1/10/2022	2	229	420	400
1/10/2022	3	225	420	400
1/10/2022	4	222	420	400
1/10/2022	5	227	420	400
1/10/2022	6	238	420	400
1/10/2022	7	256	500	420
1/10/2022	8	281	647	460
1/10/2022	9	305	647	460
1/10/2022	10	327	647	460
1/10/2022	11	341	647	460
1/10/2022	12	336	647	460
1/10/2022	13	334	647	460
1/10/2022	14	342	647	460
1/10/2022	15	340	647	460
1/10/2022	16	338	647	460
1/10/2022	17	327	647	460
1/10/2022	18	338	647	460
1/10/2022	19	331	647	460
1/10/2022	20	320	647	460
1/10/2022	21	309	647	460
1/10/2022	22	297	647	460
1/10/2022	23	285	647	460
1/10/2022	24	276	647	460
1/11/2022	1	277	420	400
1/11/2022	2	270	420	400
1/11/2022	3	263	420	400
1/11/2022	4	260	420	400
1/11/2022	5	262	420	400
1/11/2022	6	270	420	400
1/11/2022	7	284	550	420
1/11/2022	8	306	647	460
1/11/2022	9	330	647	460
1/11/2022	10	352	647	460
1/11/2022	11	363	647	460
1/11/2022	12	353	647	460
1/11/2022	13	354	647	460
1/11/2022	14	363	647	460
1/11/2022	15	364	647	460
1/11/2022	16	361	647	460
1/11/2022	17	348	647	460
1/11/2022	18	359	647	460
1/11/2022	19	351	647	460
1/11/2022	20	343	647	460
1/11/2022	21	334	647	460
1/11/2022	22	321	647	460
1/11/2022	23	308	647	460
1/11/2022	24	278	647	460
1/12/2022	1	283	550	400
1/12/2022	2	274	550	400
1/12/2022	3	268	550	400
1/12/2022	4	266	550	400
1/12/2022	5	267	550	400
1/12/2022	6	275	620	460
1/12/2022	7	287	647	460
1/12/2022	8	310	647	460
1/12/2022	9	335	647	460
1/12/2022	10	355	647	460
1/12/2022	11	364	647	460
1/12/2022	12	356	647	460
1/12/2022	13	356	647	460
1/12/2022	14	371	647	460
1/12/2022	15	364	647	460
1/12/2022	16	360	647	460
1/12/2022	17	346	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/12/2022	18	354	647	460
1/12/2022	19	349	647	460
1/12/2022	20	342	647	460
1/12/2022	21	328	647	460
1/12/2022	22	336	647	460
1/12/2022	23	306	647	460
1/12/2022	24	283	647	460
1/13/2022	1	278	550	460
1/13/2022	2	269	550	460
1/13/2022	3	262	550	460
1/13/2022	4	258	550	460
1/13/2022	5	261	550	460
1/13/2022	6	267	620	460
1/13/2022	7	280	647	460
1/13/2022	8	301	647	460
1/13/2022	9	326	647	460
1/13/2022	10	343	647	460
1/13/2022	11	356	647	460
1/13/2022	12	350	647	460
1/13/2022	13	348	647	460
1/13/2022	14	359	647	460
1/13/2022	15	356	647	460
1/13/2022	16	351	647	460
1/13/2022	17	340	647	460
1/13/2022	18	345	647	460
1/13/2022	19	338	647	460
1/13/2022	20	328	647	460
1/13/2022	21	323	647	460
1/13/2022	22	309	647	460
1/13/2022	23	296	647	460
1/13/2022	24	286	647	460
1/14/2022	1	283	647	460
1/14/2022	2	278	647	460
1/14/2022	3	271	550	460
1/14/2022	4	267	550	460
1/14/2022	5	268	550	460
1/14/2022	6	272	620	460
1/14/2022	7	282	647	460
1/14/2022	8	302	647	460
1/14/2022	9	321	647	460
1/14/2022	10	338	647	460
1/14/2022	11	351	647	460
1/14/2022	12	343	647	460
1/14/2022	13	343	647	460
1/14/2022	14	353	647	460
1/14/2022	15	352	647	460
1/14/2022	16	347	647	460
1/14/2022	17	333	647	460
1/14/2022	18	336	647	460
1/14/2022	19	331	647	460
1/14/2022	20	320	647	460
1/14/2022	21	311	647	460
1/14/2022	22	305	647	460
1/14/2022	23	292	647	460
1/14/2022	24	289	647	460
1/15/2022	1	280	647	460
1/15/2022	2	275	647	460
1/15/2022	3	268	647	460
1/15/2022	4	263	647	460
1/15/2022	5	262	647	460
1/15/2022	6	266	647	460
1/15/2022	7	271	647	460
1/15/2022	8	288	647	460
1/15/2022	9	309	647	460
1/15/2022	10	328	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/15/2022	11	341	647	460
1/15/2022	12	335	647	460
1/15/2022	13	332	647	460
1/15/2022	14	338	647	460
1/15/2022	15	339	647	460
1/15/2022	16	332	647	460
1/15/2022	17	326	647	460
1/15/2022	18	338	647	460
1/15/2022	19	336	647	460
1/15/2022	20	328	647	460
1/15/2022	21	327	647	460
1/15/2022	22	312	647	460
1/15/2022	23	305	647	460
1/15/2022	24	289	647	460
1/16/2022	1	262	500	460
1/16/2022	2	253	460	450
1/16/2022	3	248	460	450
1/16/2022	4	242	460	430
1/16/2022	5	237	460	430
1/16/2022	6	239	460	430
1/16/2022	7	238	460	430
1/16/2022	8	247	460	450
1/16/2022	9	260	500	460
1/16/2022	10	275	550	460
1/16/2022	11	287	647	460
1/16/2022	12	283	647	460
1/16/2022	13	286	647	460
1/16/2022	14	291	647	460
1/16/2022	15	292	647	460
1/16/2022	16	290	647	460
1/16/2022	17	289	647	460
1/16/2022	18	309	647	460
1/16/2022	19	313	647	460
1/16/2022	20	305	647	460
1/16/2022	21	301	647	460
1/16/2022	22	291	647	460
1/16/2022	23	279	647	460
1/16/2022	24	268	647	460
1/17/2022	1	261	647	460
1/17/2022	2	253	647	460
1/17/2022	3	245	647	460
1/17/2022	4	245	647	460
1/17/2022	5	245	647	460
1/17/2022	6	254	647	460
1/17/2022	7	268	647	460
1/17/2022	8	285	647	460
1/17/2022	9	313	647	460
1/17/2022	10	333	647	460
1/17/2022	11	349	647	460
1/17/2022	12	340	647	460
1/17/2022	13	344	647	460
1/17/2022	14	356	647	460
1/17/2022	15	358	647	460
1/17/2022	16	354	647	460
1/17/2022	17	338	647	460
1/17/2022	18	344	647	460
1/17/2022	19	342	647	460
1/17/2022	20	332	647	460
1/17/2022	21	325	647	460
1/17/2022	22	315	647	460
1/17/2022	23	299	647	460
1/17/2022	24	290	647	460
1/18/2022	1	276	647	460
1/18/2022	2	271	647	460
1/18/2022	3	264	550	420

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/18/2022	4	261	550	420
1/18/2022	5	262	550	420
1/18/2022	6	268	550	420
1/18/2022	7	278	600	460
1/18/2022	8	301	647	460
1/18/2022	9	322	647	460
1/18/2022	10	338	647	460
1/18/2022	11	346	647	460
1/18/2022	12	336	647	460
1/18/2022	13	332	647	460
1/18/2022	14	345	647	460
1/18/2022	15	343	647	460
1/18/2022	16	339	647	460
1/18/2022	17	327	647	460
1/18/2022	18	336	647	460
1/18/2022	19	334	647	460
1/18/2022	20	320	647	460
1/18/2022	21	311	647	460
1/18/2022	22	299	647	460
1/18/2022	23	291	647	460
1/18/2022	24	291	647	460
1/19/2022	1	260	647	460
1/19/2022	2	252	647	460
1/19/2022	3	246	550	420
1/19/2022	4	244	550	420
1/19/2022	5	255	550	420
1/19/2022	6	261	550	420
1/19/2022	7	273	600	460
1/19/2022	8	294	647	460
1/19/2022	9	317	647	460
1/19/2022	10	334	647	460
1/19/2022	11	348	647	460
1/19/2022	12	339	647	460
1/19/2022	13	339	647	460
1/19/2022	14	349	647	460
1/19/2022	15	347	647	460
1/19/2022	16	343	647	460
1/19/2022	17	330	647	460
1/19/2022	18	338	647	460
1/19/2022	19	335	647	460
1/19/2022	20	323	647	460
1/19/2022	21	312	647	460
1/19/2022	22	302	647	460
1/19/2022	23	289	647	460
1/19/2022	24	268	647	460
1/20/2022	1	260	480	420
1/20/2022	2	251	480	420
1/20/2022	3	246	480	420
1/20/2022	4	243	480	420
1/20/2022	5	245	480	420
1/20/2022	6	253	480	420
1/20/2022	7	264	480	420
1/20/2022	8	287	550	460
1/20/2022	9	311	647	460
1/20/2022	10	327	647	460
1/20/2022	11	342	647	460
1/20/2022	12	331	647	460
1/20/2022	13	331	647	460
1/20/2022	14	341	647	460
1/20/2022	15	341	647	460
1/20/2022	16	339	647	460
1/20/2022	17	326	647	460
1/20/2022	18	332	647	460
1/20/2022	19	326	647	460
1/20/2022	20	313	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/20/2022	21	302	647	460
1/20/2022	22	290	647	460
1/20/2022	23	281	647	460
1/20/2022	24	283	647	460
1/21/2022	1	272	480	420
1/21/2022	2	264	480	420
1/21/2022	3	257	480	420
1/21/2022	4	253	480	420
1/21/2022	5	255	480	420
1/21/2022	6	259	480	420
1/21/2022	7	268	480	420
1/21/2022	8	291	550	460
1/21/2022	9	309	647	460
1/21/2022	10	329	647	460
1/21/2022	11	342	647	460
1/21/2022	12	331	647	460
1/21/2022	13	330	647	460
1/21/2022	14	340	647	460
1/21/2022	15	334	647	460
1/21/2022	16	329	647	460
1/21/2022	17	316	647	460
1/21/2022	18	323	647	460
1/21/2022	19	319	647	460
1/21/2022	20	309	647	460
1/21/2022	21	300	647	460
1/21/2022	22	290	647	460
1/21/2022	23	277	647	460
1/21/2022	24	267	647	460
1/22/2022	1	276	600	460
1/22/2022	2	271	600	460
1/22/2022	3	264	600	460
1/22/2022	4	261	600	460
1/22/2022	5	261	600	460
1/22/2022	6	265	600	460
1/22/2022	7	271	647	460
1/22/2022	8	286	647	460
1/22/2022	9	304	647	460
1/22/2022	10	323	647	460
1/22/2022	11	334	647	460
1/22/2022	12	327	647	460
1/22/2022	13	324	647	460
1/22/2022	14	330	647	460
1/22/2022	15	329	647	460
1/22/2022	16	323	647	460
1/22/2022	17	318	647	460
1/22/2022	18	336	647	460
1/22/2022	19	337	647	460
1/22/2022	20	326	647	460
1/22/2022	21	317	647	460
1/22/2022	22	305	647	460
1/22/2022	23	294	647	460
1/22/2022	24	260	600	460
1/23/2022	1	249	647	460
1/23/2022	2	246	647	460
1/23/2022	3	239	647	460
1/23/2022	4	236	647	460
1/23/2022	5	233	647	460
1/23/2022	6	233	647	460
1/23/2022	7	237	647	460
1/23/2022	8	246	647	460
1/23/2022	9	259	647	460
1/23/2022	10	274	647	460
1/23/2022	11	286	647	460
1/23/2022	12	282	647	460
1/23/2022	13	279	647	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/23/2022	14	283	647	460
1/23/2022	15	281	647	460
1/23/2022	16	279	647	460
1/23/2022	17	278	647	460
1/23/2022	18	298	647	460
1/23/2022	19	303	647	460
1/23/2022	20	288	647	460
1/23/2022	21	281	647	460
1/23/2022	22	273	647	460
1/23/2022	23	260	647	460
1/23/2022	24	250	647	460
1/24/2022	1	256	550	460
1/24/2022	2	248	480	460
1/24/2022	3	244	480	460
1/24/2022	4	240	480	460
1/24/2022	5	245	480	460
1/24/2022	6	257	500	460
1/24/2022	7	273	550	460
1/24/2022	8	299	550	460
1/24/2022	9	322	647	460
1/24/2022	10	343	647	460
1/24/2022	11	357	647	460
1/24/2022	12	352	647	460
1/24/2022	13	349	647	460
1/24/2022	14	360	647	460
1/24/2022	15	359	647	460
1/24/2022	16	356	647	460
1/24/2022	17	343	647	460
1/24/2022	18	350	647	460
1/24/2022	19	348	647	460
1/24/2022	20	333	647	460
1/24/2022	21	321	647	460
1/24/2022	22	311	647	460
1/24/2022	23	295	550	460
1/24/2022	24	285	500	460
1/25/2022	1	294	647	460
1/25/2022	2	285	647	460
1/25/2022	3	278	647	460
1/25/2022	4	274	647	460
1/25/2022	5	275	647	460
1/25/2022	6	279	647	460
1/25/2022	7	293	647	460
1/25/2022	8	314	647	460
1/25/2022	9	334	647	460
1/25/2022	10	355	647	460
1/25/2022	11	375	647	460
1/25/2022	12	368	647	460
1/25/2022	13	363	647	460
1/25/2022	14	363	647	460
1/25/2022	15	363	647	460
1/25/2022	16	363	647	460
1/25/2022	17	360	647	460
1/25/2022	18	363	647	460
1/25/2022	19	358	647	460
1/25/2022	20	353	647	460
1/25/2022	21	345	647	460
1/25/2022	22	326	647	460
1/25/2022	23	319	647	460
1/25/2022	24	273	647	460
1/26/2022	1	277	647	600
1/26/2022	2	265	647	600
1/26/2022	3	260	647	600
1/26/2022	4	256	647	600
1/26/2022	5	259	647	600
1/26/2022	6	268	647	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/26/2022	7	283	647	600
1/26/2022	8	311	647	600
1/26/2022	9	337	647	600
1/26/2022	10	358	647	600
1/26/2022	11	374	647	600
1/26/2022	12	368	647	600
1/26/2022	13	367	647	600
1/26/2022	14	373	647	600
1/26/2022	15	371	647	600
1/26/2022	16	372	647	600
1/26/2022	17	357	647	600
1/26/2022	18	357	647	600
1/26/2022	19	357	647	600
1/26/2022	20	347	647	600
1/26/2022	21	339	647	600
1/26/2022	22	331	647	600
1/26/2022	23	318	647	600
1/26/2022	24	286	647	600
1/27/2022	1	297	668	600
1/27/2022	2	285	668	600
1/27/2022	3	277	668	600
1/27/2022	4	275	668	600
1/27/2022	5	273	668	600
1/27/2022	6	280	668	600
1/27/2022	7	293	668	600
1/27/2022	8	315	668	600
1/27/2022	9	340	668	600
1/27/2022	10	365	668	600
1/27/2022	11	375	668	600
1/27/2022	12	368	668	600
1/27/2022	13	364	668	600
1/27/2022	14	376	668	600
1/27/2022	15	374	668	600
1/27/2022	16	372	668	600
1/27/2022	17	356	668	600
1/27/2022	18	355	668	600
1/27/2022	19	355	668	600
1/27/2022	20	346	668	600
1/27/2022	21	339	668	600
1/27/2022	22	332	668	600
1/27/2022	23	320	668	600
1/27/2022	24	285	668	600
1/28/2022	1	297	640	600
1/28/2022	2	285	640	550
1/28/2022	3	277	640	480
1/28/2022	4	275	640	480
1/28/2022	5	273	640	480
1/28/2022	6	280	640	550
1/28/2022	7	293	640	600
1/28/2022	8	315	668	600
1/28/2022	9	336	668	600
1/28/2022	10	354	668	600
1/28/2022	11	364	668	600
1/28/2022	12	365	668	600
1/28/2022	13	370	668	600
1/28/2022	14	376	668	600
1/28/2022	15	373	668	600
1/28/2022	16	370	668	600
1/28/2022	17	356	668	600
1/28/2022	18	348	668	600
1/28/2022	19	347	668	600
1/28/2022	20	339	668	600
1/28/2022	21	331	668	600
1/28/2022	22	323	668	600
1/28/2022	23	314	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/28/2022	24	290	668	600
1/29/2022	1	295	668	600
1/29/2022	2	287	668	550
1/29/2022	3	279	668	480
1/29/2022	4	275	668	480
1/29/2022	5	275	668	480
1/29/2022	6	270	668	480
1/29/2022	7	283	668	480
1/29/2022	8	311	668	550
1/29/2022	9	336	668	600
1/29/2022	10	357	668	600
1/29/2022	11	373	668	600
1/29/2022	12	367	668	600
1/29/2022	13	366	668	600
1/29/2022	14	373	668	600
1/29/2022	15	370	668	600
1/29/2022	16	371	668	600
1/29/2022	17	356	668	600
1/29/2022	18	356	668	600
1/29/2022	19	357	668	600
1/29/2022	20	347	668	600
1/29/2022	21	339	668	600
1/29/2022	22	331	668	600
1/29/2022	23	318	668	600
1/29/2022	24	297	668	600
1/30/2022	1	292	668	600
1/30/2022	2	285	668	550
1/30/2022	3	275	608	480
1/30/2022	4	270	550	480
1/30/2022	5	268	550	480
1/30/2022	6	264	550	480
1/30/2022	7	263	550	480
1/30/2022	8	271	550	480
1/30/2022	9	284	550	500
1/30/2022	10	302	630	560
1/30/2022	11	312	668	600
1/30/2022	12	312	668	600
1/30/2022	13	312	668	600
1/30/2022	14	315	668	600
1/30/2022	15	315	668	600
1/30/2022	16	312	668	600
1/30/2022	17	310	668	600
1/30/2022	18	327	668	600
1/30/2022	19	337	668	600
1/30/2022	20	330	668	600
1/30/2022	21	324	668	600
1/30/2022	22	319	668	600
1/30/2022	23	305	668	600
1/30/2022	24	294	668	600
1/31/2022	1	288	668	600
1/31/2022	2	277	668	550
1/31/2022	3	271	668	480
1/31/2022	4	268	668	480
1/31/2022	5	270	668	480
1/31/2022	6	280	668	480
1/31/2022	7	294	668	550
1/31/2022	8	322	668	600
1/31/2022	9	347	668	600
1/31/2022	10	368	668	600
1/31/2022	11	384	668	600
1/31/2022	12	378	668	600
1/31/2022	13	377	668	600
1/31/2022	14	383	668	600
1/31/2022	15	381	668	600
1/31/2022	16	382	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/31/2022	17	367	668	600
1/31/2022	18	367	668	600
1/31/2022	19	368	668	600
1/31/2022	20	358	668	600
1/31/2022	21	348	668	600
1/31/2022	22	341	668	600
1/31/2022	23	328	668	600
1/31/2022	24	317	668	600
2/1/2022	1	283	480	460
2/1/2022	2	273	480	460
2/1/2022	3	269	480	460
2/1/2022	4	266	480	460
2/1/2022	5	263	480	460
2/1/2022	6	263	480	460
2/1/2022	7	262	450	420
2/1/2022	8	279	480	460
2/1/2022	9	299	500	490
2/1/2022	10	320	540	500
2/1/2022	11	335	555	540
2/1/2022	12	331	600	540
2/1/2022	13	332	600	540
2/1/2022	14	342	600	540
2/1/2022	15	337	600	540
2/1/2022	16	329	600	540
2/1/2022	17	314	600	510
2/1/2022	18	326	600	540
2/1/2022	19	340	668	600
2/1/2022	20	332	640	600
2/1/2022	21	330	640	600
2/1/2022	22	322	640	600
2/1/2022	23	313	600	560
2/1/2022	24	288	600	530
2/2/2022	1	307	668	600
2/2/2022	2	297	668	550
2/2/2022	3	290	668	480
2/2/2022	4	289	668	480
2/2/2022	5	289	668	480
2/2/2022	6	295	668	480
2/2/2022	7	307	668	550
2/2/2022	8	329	668	600
2/2/2022	9	351	668	600
2/2/2022	10	365	668	600
2/2/2022	11	381	668	600
2/2/2022	12	371	668	600
2/2/2022	13	367	668	600
2/2/2022	14	379	668	600
2/2/2022	15	378	668	600
2/2/2022	16	368	668	600
2/2/2022	17	359	668	600
2/2/2022	18	366	668	600
2/2/2022	19	363	668	600
2/2/2022	20	356	668	600
2/2/2022	21	348	668	600
2/2/2022	22	337	668	600
2/2/2022	23	327	668	600
2/2/2022	24	315	668	600
2/3/2022	1	259	550	520
2/3/2022	2	248	480	480
2/3/2022	3	247	360	320
2/3/2022	4	240	360	320
2/3/2022	5	240	360	320
2/3/2022	6	251	480	320
2/3/2022	7	263	550	350
2/3/2022	8	289	668	480
2/3/2022	9	317	668	550

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/3/2022	10	342	668	550
2/3/2022	11	352	668	600
2/3/2022	12	348	668	600
2/3/2022	13	347	668	600
2/3/2022	14	358	668	600
2/3/2022	15	356	668	600
2/3/2022	16	349	668	600
2/3/2022	17	331	668	600
2/3/2022	18	328	668	600
2/3/2022	19	333	668	550
2/3/2022	20	320	668	550
2/3/2022	21	314	668	550
2/3/2022	22	305	668	550
2/3/2022	23	294	668	480
2/3/2022	24	304	668	480
2/4/2022	1	296	550	520
2/4/2022	2	286	480	480
2/4/2022	3	280	360	350
2/4/2022	4	278	360	350
2/4/2022	5	278	360	350
2/4/2022	6	284	480	350
2/4/2022	7	296	550	350
2/4/2022	8	318	668	480
2/4/2022	9	339	668	550
2/4/2022	10	354	668	550
2/4/2022	11	369	668	600
2/4/2022	12	360	668	600
2/4/2022	13	355	668	600
2/4/2022	14	368	668	600
2/4/2022	15	367	668	600
2/4/2022	16	357	668	600
2/4/2022	17	348	668	600
2/4/2022	18	355	668	600
2/4/2022	19	352	668	550
2/4/2022	20	345	668	550
2/4/2022	21	336	668	550
2/4/2022	22	326	668	550
2/4/2022	23	315	668	480
2/4/2022	24	312	668	480
2/5/2022	1	280	550	520
2/5/2022	2	276	480	480
2/5/2022	3	264	360	350
2/5/2022	4	256	360	350
2/5/2022	5	254	360	350
2/5/2022	6	252	480	350
2/5/2022	7	257	480	350
2/5/2022	8	270	480	480
2/5/2022	9	292	550	550
2/5/2022	10	313	668	550
2/5/2022	11	325	668	600
2/5/2022	12	322	668	600
2/5/2022	13	325	668	600
2/5/2022	14	336	668	600
2/5/2022	15	331	668	600
2/5/2022	16	323	668	600
2/5/2022	17	310	668	600
2/5/2022	18	320	668	600
2/5/2022	19	331	668	600
2/5/2022	20	319	668	550
2/5/2022	21	325	668	550
2/5/2022	22	316	668	550
2/5/2022	23	302	668	480
2/5/2022	24	310	668	480
2/6/2022	1	298	480	460
2/6/2022	2	284	480	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/6/2022	3	277	480	460
2/6/2022	4	272	480	460
2/6/2022	5	264	480	430
2/6/2022	6	264	480	420
2/6/2022	7	257	450	390
2/6/2022	8	267	450	430
2/6/2022	9	280	480	450
2/6/2022	10	295	500	480
2/6/2022	11	306	555	480
2/6/2022	12	303	600	500
2/6/2022	13	301	600	500
2/6/2022	14	304	600	500
2/6/2022	15	300	600	540
2/6/2022	16	294	600	540
2/6/2022	17	288	600	510
2/6/2022	18	301	668	550
2/6/2022	19	315	668	600
2/6/2022	20	307	640	600
2/6/2022	21	304	640	600
2/6/2022	22	298	600	600
2/6/2022	23	285	560	550
2/6/2022	24	276	560	520
2/7/2022	1	280	550	520
2/7/2022	2	269	480	480
2/7/2022	3	268	382	382
2/7/2022	4	261	382	382
2/7/2022	5	260	382	382
2/7/2022	6	270	480	480
2/7/2022	7	283	550	550
2/7/2022	8	308	668	600
2/7/2022	9	335	668	600
2/7/2022	10	360	668	600
2/7/2022	11	369	668	600
2/7/2022	12	365	668	600
2/7/2022	13	364	668	600
2/7/2022	14	375	668	600
2/7/2022	15	373	668	600
2/7/2022	16	365	668	600
2/7/2022	17	348	668	600
2/7/2022	18	344	668	600
2/7/2022	19	349	668	600
2/7/2022	20	336	668	600
2/7/2022	21	330	668	600
2/7/2022	22	320	668	600
2/7/2022	23	310	668	550
2/7/2022	24	300	668	480
2/8/2022	1	298	550	520
2/8/2022	2	287	480	480
2/8/2022	3	278	360	356
2/8/2022	4	276	360	350
2/8/2022	5	274	480	350
2/8/2022	6	281	550	480
2/8/2022	7	294	550	550
2/8/2022	8	316	668	600
2/8/2022	9	341	668	600
2/8/2022	10	367	668	600
2/8/2022	11	376	668	600
2/8/2022	12	370	668	600
2/8/2022	13	366	668	600
2/8/2022	14	375	668	600
2/8/2022	15	375	668	600
2/8/2022	16	374	668	600
2/8/2022	17	358	668	600
2/8/2022	18	357	668	600
2/8/2022	19	356	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/8/2022	20	348	668	600
2/8/2022	21	341	668	600
2/8/2022	22	334	668	600
2/8/2022	23	321	668	550
2/8/2022	24	310	668	480
2/9/2022	1	300	550	520
2/9/2022	2	293	480	480
2/9/2022	3	285	360	350
2/9/2022	4	284	360	350
2/9/2022	5	285	480	350
2/9/2022	6	292	550	480
2/9/2022	7	308	550	550
2/9/2022	8	329	668	600
2/9/2022	9	354	668	600
2/9/2022	10	373	668	600
2/9/2022	11	387	668	600
2/9/2022	12	378	668	600
2/9/2022	13	375	668	600
2/9/2022	14	388	668	600
2/9/2022	15	386	668	600
2/9/2022	16	380	668	600
2/9/2022	17	368	668	600
2/9/2022	18	376	668	600
2/9/2022	19	373	668	600
2/9/2022	20	360	668	600
2/9/2022	21	353	668	600
2/9/2022	22	341	668	600
2/9/2022	23	328	668	550
2/9/2022	24	316	668	480
2/10/2022	1	303	560	550
2/10/2022	2	293	480	460
2/10/2022	3	286	390	380
2/10/2022	4	279	390	380
2/10/2022	5	278	390	380
2/10/2022	6	284	480	480
2/10/2022	7	297	560	550
2/10/2022	8	322	668	600
2/10/2022	9	352	668	600
2/10/2022	10	372	668	600
2/10/2022	11	386	668	600
2/10/2022	12	379	668	600
2/10/2022	13	381	668	600
2/10/2022	14	393	668	600
2/10/2022	15	390	668	600
2/10/2022	16	382	668	600
2/10/2022	17	364	668	600
2/10/2022	18	365	668	600
2/10/2022	19	369	668	600
2/10/2022	20	360	668	600
2/10/2022	21	353	668	600
2/10/2022	22	338	668	600
2/10/2022	23	326	668	600
2/10/2022	24	313	668	600
2/11/2022	1	296	560	550
2/11/2022	2	288	480	460
2/11/2022	3	280	390	380
2/11/2022	4	276	390	380
2/11/2022	5	278	390	380
2/11/2022	6	285	480	460
2/11/2022	7	296	560	550
2/11/2022	8	320	668	600
2/11/2022	9	347	668	600
2/11/2022	10	367	668	600
2/11/2022	11	383	668	600
2/11/2022	12	375	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/11/2022	13	376	668	600
2/11/2022	14	388	668	600
2/11/2022	15	388	668	600
2/11/2022	16	382	668	600
2/11/2022	17	365	668	600
2/11/2022	18	360	668	600
2/11/2022	19	367	668	600
2/11/2022	20	358	668	600
2/11/2022	21	351	668	600
2/11/2022	22	339	668	600
2/11/2022	23	327	668	600
2/11/2022	24	313	668	600
2/12/2022	1	285	560	550
2/12/2022	2	277	480	460
2/12/2022	3	267	390	380
2/12/2022	4	260	390	380
2/12/2022	5	259	390	380
2/12/2022	6	259	390	380
2/12/2022	7	262	390	380
2/12/2022	8	278	480	460
2/12/2022	9	300	560	550
2/12/2022	10	323	668	600
2/12/2022	11	333	668	600
2/12/2022	12	329	668	600
2/12/2022	13	328	668	600
2/12/2022	14	337	668	600
2/12/2022	15	334	668	600
2/12/2022	16	326	668	600
2/12/2022	17	315	668	600
2/12/2022	18	325	668	600
2/12/2022	19	333	668	600
2/12/2022	20	329	668	600
2/12/2022	21	325	560	550
2/12/2022	22	315	560	460
2/12/2022	23	307	560	460
2/12/2022	24	281	560	460
2/13/2022	1	284	480	400
2/13/2022	2	277	480	400
2/13/2022	3	268	480	400
2/13/2022	4	263	480	400
2/13/2022	5	261	480	400
2/13/2022	6	259	480	400
2/13/2022	7	255	450	390
2/13/2022	8	264	450	400
2/13/2022	9	273	480	430
2/13/2022	10	292	500	450
2/13/2022	11	304	560	450
2/13/2022	12	297	600	450
2/13/2022	13	297	600	450
2/13/2022	14	303	600	450
2/13/2022	15	301	600	500
2/13/2022	16	297	600	500
2/13/2022	17	296	600	500
2/13/2022	18	307	668	500
2/13/2022	19	322	668	500
2/13/2022	20	316	640	500
2/13/2022	21	311	640	550
2/13/2022	22	303	600	500
2/13/2022	23	293	560	500
2/13/2022	24	283	560	500
2/14/2022	1	283	560	550
2/14/2022	2	273	480	460
2/14/2022	3	266	390	380
2/14/2022	4	262	390	380
2/14/2022	5	265	390	380

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/14/2022	6	278	390	380
2/14/2022	7	294	480	460
2/14/2022	8	316	560	550
2/14/2022	9	344	600	600
2/14/2022	10	364	668	600
2/14/2022	11	378	668	600
2/14/2022	12	373	668	600
2/14/2022	13	370	668	600
2/14/2022	14	382	668	600
2/14/2022	15	381	668	600
2/14/2022	16	373	668	600
2/14/2022	17	361	668	600
2/14/2022	18	362	668	600
2/14/2022	19	366	668	600
2/14/2022	20	357	668	600
2/14/2022	21	351	668	600
2/14/2022	22	339	668	600
2/14/2022	23	328	560	550
2/14/2022	24	318	560	460
2/15/2022	1	302	550	550
2/15/2022	2	292	500	500
2/15/2022	3	281	500	500
2/15/2022	4	277	500	500
2/15/2022	5	277	500	500
2/15/2022	6	283	500	500
2/15/2022	7	297	500	500
2/15/2022	8	324	550	550
2/15/2022	9	353	600	600
2/15/2022	10	375	600	600
2/15/2022	11	385	600	600
2/15/2022	12	382	600	600
2/15/2022	13	381	600	600
2/15/2022	14	393	600	600
2/15/2022	15	390	600	600
2/15/2022	16	383	600	600
2/15/2022	17	364	600	600
2/15/2022	18	366	600	600
2/15/2022	19	369	600	600
2/15/2022	20	360	600	600
2/15/2022	21	353	600	600
2/15/2022	22	337	600	600
2/15/2022	23	326	550	550
2/15/2022	24	314	550	550
2/16/2022	1	306	550	500
2/16/2022	2	296	480	460
2/16/2022	3	289	390	370
2/16/2022	4	284	390	370
2/16/2022	5	284	390	370
2/16/2022	6	290	390	370
2/16/2022	7	302	480	460
2/16/2022	8	328	550	550
2/16/2022	9	357	668	600
2/16/2022	10	378	668	600
2/16/2022	11	390	668	600
2/16/2022	12	383	668	600
2/16/2022	13	383	668	600
2/16/2022	14	397	668	600
2/16/2022	15	396	668	600
2/16/2022	16	390	668	600
2/16/2022	17	373	668	600
2/16/2022	18	365	668	600
2/16/2022	19	372	668	600
2/16/2022	20	362	668	600
2/16/2022	21	354	668	600
2/16/2022	22	342	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/16/2022	23	331	668	550
2/16/2022	24	317	668	550
2/17/2022	1	305	550	500
2/17/2022	2	295	480	460
2/17/2022	3	288	390	370
2/17/2022	4	281	390	370
2/17/2022	5	280	390	370
2/17/2022	6	287	390	370
2/17/2022	7	299	480	460
2/17/2022	8	325	550	550
2/17/2022	9	355	668	600
2/17/2022	10	376	668	600
2/17/2022	11	389	668	600
2/17/2022	12	383	668	600
2/17/2022	13	383	668	600
2/17/2022	14	396	668	600
2/17/2022	15	395	668	600
2/17/2022	16	387	668	600
2/17/2022	17	371	668	600
2/17/2022	18	361	668	600
2/17/2022	19	370	668	600
2/17/2022	20	359	668	600
2/17/2022	21	353	668	600
2/17/2022	22	341	668	600
2/17/2022	23	329	580	550
2/17/2022	24	315	580	550
2/18/2022	1	304	550	500
2/18/2022	2	294	480	460
2/18/2022	3	287	390	370
2/18/2022	4	283	390	370
2/18/2022	5	283	390	370
2/18/2022	6	288	390	370
2/18/2022	7	298	480	460
2/18/2022	8	322	550	550
2/18/2022	9	348	668	600
2/18/2022	10	368	668	600
2/18/2022	11	381	668	600
2/18/2022	12	373	668	600
2/18/2022	13	376	668	600
2/18/2022	14	389	668	600
2/18/2022	15	388	668	600
2/18/2022	16	380	668	600
2/18/2022	17	362	668	600
2/18/2022	18	360	668	600
2/18/2022	19	364	668	600
2/18/2022	20	356	668	600
2/18/2022	21	349	668	600
2/18/2022	22	337	668	600
2/18/2022	23	326	580	550
2/18/2022	24	314	580	550
2/19/2022	1	310	550	500
2/19/2022	2	301	480	460
2/19/2022	3	292	390	370
2/19/2022	4	284	390	370
2/19/2022	5	283	390	370
2/19/2022	6	283	390	370
2/19/2022	7	286	390	370
2/19/2022	8	302	480	460
2/19/2022	9	324	550	550
2/19/2022	10	346	668	600
2/19/2022	11	357	668	600
2/19/2022	12	351	668	600
2/19/2022	13	351	668	600
2/19/2022	14	361	668	600
2/19/2022	15	358	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/19/2022	16	349	668	600
2/19/2022	17	339	668	600
2/19/2022	18	347	668	600
2/19/2022	19	357	668	600
2/19/2022	20	352	668	600
2/19/2022	21	346	668	600
2/19/2022	22	336	668	600
2/19/2022	23	329	580	550
2/19/2022	24	317	580	550
2/20/2022	1	295	480	455
2/20/2022	2	286	480	455
2/20/2022	3	276	480	455
2/20/2022	4	272	480	455
2/20/2022	5	268	480	455
2/20/2022	6	266	480	455
2/20/2022	7	266	455	450
2/20/2022	8	270	455	450
2/20/2022	9	283	480	455
2/20/2022	10	303	550	455
2/20/2022	11	313	600	455
2/20/2022	12	310	600	460
2/20/2022	13	308	600	455
2/20/2022	14	310	600	455
2/20/2022	15	311	600	500
2/20/2022	16	304	600	500
2/20/2022	17	303	600	550
2/20/2022	18	318	668	600
2/20/2022	19	333	668	600
2/20/2022	20	331	668	600
2/20/2022	21	325	668	600
2/20/2022	22	316	668	600
2/20/2022	23	306	640	550
2/20/2022	24	295	600	500
2/21/2022	1	293	550	500
2/21/2022	2	284	480	460
2/21/2022	3	278	390	370
2/21/2022	4	272	390	370
2/21/2022	5	275	390	370
2/21/2022	6	284	390	370
2/21/2022	7	301	480	460
2/21/2022	8	327	550	550
2/21/2022	9	355	668	600
2/21/2022	10	377	668	600
2/21/2022	11	389	668	600
2/21/2022	12	385	668	600
2/21/2022	13	385	668	600
2/21/2022	14	392	668	600
2/21/2022	15	393	668	600
2/21/2022	16	385	668	600
2/21/2022	17	369	668	600
2/21/2022	18	364	668	600
2/21/2022	19	371	668	600
2/21/2022	20	363	668	600
2/21/2022	21	363	668	600
2/21/2022	22	350	668	600
2/21/2022	23	340	668	600
2/21/2022	24	323	668	600
2/22/2022	1	311	550	500
2/22/2022	2	302	480	460
2/22/2022	3	292	390	370
2/22/2022	4	287	390	370
2/22/2022	5	285	390	370
2/22/2022	6	293	390	370
2/22/2022	7	304	480	460
2/22/2022	8	328	550	550

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/22/2022	9	361	668	600
2/22/2022	10	381	668	600
2/22/2022	11	394	668	600
2/22/2022	12	386	668	600
2/22/2022	13	386	668	600
2/22/2022	14	402	668	600
2/22/2022	15	400	668	600
2/22/2022	16	393	668	600
2/22/2022	17	372	668	600
2/22/2022	18	366	668	600
2/22/2022	19	373	668	600
2/22/2022	20	363	668	600
2/22/2022	21	357	668	600
2/22/2022	22	346	668	600
2/22/2022	23	332	668	600
2/22/2022	24	316	668	600
2/23/2022	1	303	550	500
2/23/2022	2	293	480	460
2/23/2022	3	287	390	370
2/23/2022	4	280	390	370
2/23/2022	5	279	390	370
2/23/2022	6	286	390	370
2/23/2022	7	298	480	460
2/23/2022	8	323	550	550
2/23/2022	9	358	668	600
2/23/2022	10	383	668	600
2/23/2022	11	387	668	600
2/23/2022	12	384	668	600
2/23/2022	13	378	668	600
2/23/2022	14	397	668	600
2/23/2022	15	394	668	600
2/23/2022	16	386	668	600
2/23/2022	17	368	668	600
2/23/2022	18	367	668	600
2/23/2022	19	370	668	600
2/23/2022	20	364	668	600
2/23/2022	21	362	668	600
2/23/2022	22	352	668	600
2/23/2022	23	339	668	600
2/23/2022	24	303	580	550
2/24/2022	1	300	570	550
2/24/2022	2	293	520	500
2/24/2022	3	286	500	460
2/24/2022	4	281	500	460
2/24/2022	5	282	500	460
2/24/2022	6	290	500	460
2/24/2022	7	300	500	460
2/24/2022	8	325	580	550
2/24/2022	9	351	668	600
2/24/2022	10	375	668	600
2/24/2022	11	384	668	600
2/24/2022	12	382	668	600
2/24/2022	13	381	668	600
2/24/2022	14	381	668	600
2/24/2022	15	372	668	600
2/24/2022	16	368	668	600
2/24/2022	17	358	668	600
2/24/2022	18	361	668	600
2/24/2022	19	362	668	600
2/24/2022	20	351	668	600
2/24/2022	21	337	668	600
2/24/2022	22	325	668	600
2/24/2022	23	314	580	550
2/24/2022	24	300	580	500
2/25/2022	1	308	570	550

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/25/2022	2	297	520	500
2/25/2022	3	289	470	460
2/25/2022	4	283	470	460
2/25/2022	5	281	470	460
2/25/2022	6	280	470	460
2/25/2022	7	281	470	460
2/25/2022	8	297	470	460
2/25/2022	9	320	580	550
2/25/2022	10	339	668	600
2/25/2022	11	354	668	600
2/25/2022	12	349	668	600
2/25/2022	13	353	668	600
2/25/2022	14	364	668	600
2/25/2022	15	363	668	600
2/25/2022	16	358	668	600
2/25/2022	17	344	668	600
2/25/2022	18	346	668	600
2/25/2022	19	364	668	600
2/25/2022	20	359	668	600
2/25/2022	21	354	668	600
2/25/2022	22	346	668	600
2/25/2022	23	334	625	600
2/25/2022	24	319	580	500
2/26/2022	1	301	450	400
2/26/2022	2	290	450	400
2/26/2022	3	282	450	380
2/26/2022	4	276	450	380
2/26/2022	5	274	450	380
2/26/2022	6	276	450	380
2/26/2022	7	277	450	380
2/26/2022	8	291	450	380
2/26/2022	9	314	480	420
2/26/2022	10	332	550	400
2/26/2022	11	348	600	450
2/26/2022	12	343	550	500
2/26/2022	13	347	550	550
2/26/2022	14	358	600	600
2/26/2022	15	356	600	550
2/26/2022	16	352	600	550
2/26/2022	17	340	668	550
2/26/2022	18	346	668	600
2/26/2022	19	358	668	600
2/26/2022	20	354	668	600
2/26/2022	21	348	600	600
2/26/2022	22	341	600	600
2/26/2022	23	330	600	550
2/26/2022	24	318	600	500
2/27/2022	1	309	600	455
2/27/2022	2	299	600	455
2/27/2022	3	288	550	455
2/27/2022	4	282	500	450
2/27/2022	5	275	450	450
2/27/2022	6	273	450	400
2/27/2022	7	268	450	384
2/27/2022	8	274	450	384
2/27/2022	9	286	450	384
2/27/2022	10	304	500	400
2/27/2022	11	315	550	455
2/27/2022	12	314	600	455
2/27/2022	13	314	600	455
2/27/2022	14	318	600	455
2/27/2022	15	316	600	455
2/27/2022	16	313	600	455
2/27/2022	17	306	600	455
2/27/2022	18	320	600	455

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/27/2022	19	337	600	455
2/27/2022	20	334	600	460
2/27/2022	21	328	600	550
2/27/2022	22	320	668	600
2/27/2022	23	310	600	550
2/27/2022	24	297	600	500
2/28/2022	1	293	570	550
2/28/2022	2	284	520	500
2/28/2022	3	276	470	460
2/28/2022	4	272	470	460
2/28/2022	5	273	470	460
2/28/2022	6	283	470	460
2/28/2022	7	297	580	550
2/28/2022	8	326	668	600
2/28/2022	9	357	668	600
2/28/2022	10	382	668	600
2/28/2022	11	390	668	600
2/28/2022	12	384	668	600
2/28/2022	13	379	668	600
2/28/2022	14	394	668	600
2/28/2022	15	394	668	600
2/28/2022	16	386	668	600
2/28/2022	17	367	668	600
2/28/2022	18	367	668	600
2/28/2022	19	372	668	600
2/28/2022	20	364	668	600
2/28/2022	21	362	668	600
2/28/2022	22	352	668	600
2/28/2022	23	340	625	600
2/28/2022	24	327	580	500
3/1/2022	1	306	570	550
3/1/2022	2	295	520	500
3/1/2022	3	283	470	460
3/1/2022	4	279	470	460
3/1/2022	5	280	470	460
3/1/2022	6	287	470	460
3/1/2022	7	301	470	460
3/1/2022	8	328	580	550
3/1/2022	9	358	668	600
3/1/2022	10	379	668	600
3/1/2022	11	390	668	600
3/1/2022	12	387	668	600
3/1/2022	13	386	668	600
3/1/2022	14	398	668	600
3/1/2022	15	395	668	600
3/1/2022	16	388	668	600
3/1/2022	17	368	668	600
3/1/2022	18	370	668	600
3/1/2022	19	374	668	600
3/1/2022	20	364	668	600
3/1/2022	21	357	668	600
3/1/2022	22	342	580	500
3/1/2022	23	331	490	460
3/1/2022	24	319	490	460
3/2/2022	1	308	668	450
3/2/2022	2	296	500	400
3/2/2022	3	290	330	320
3/2/2022	4	286	330	250
3/2/2022	5	285	500	250
3/2/2022	6	291	668	250
3/2/2022	7	301	668	380
3/2/2022	8	325	668	450
3/2/2022	9	356	668	550
3/2/2022	10	375	668	600
3/2/2022	11	390	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/2/2022	12	382	668	600
3/2/2022	13	382	668	600
3/2/2022	14	397	668	600
3/2/2022	15	395	668	600
3/2/2022	16	392	668	600
3/2/2022	17	373	668	600
3/2/2022	18	362	668	600
3/2/2022	19	376	668	600
3/2/2022	20	364	668	600
3/2/2022	21	358	668	600
3/2/2022	22	349	580	500
3/2/2022	23	334	490	460
3/2/2022	24	313	490	460
3/3/2022	1	299	668	450
3/3/2022	2	289	500	400
3/3/2022	3	281	330	320
3/3/2022	4	278	330	320
3/3/2022	5	278	500	320
3/3/2022	6	288	668	320
3/3/2022	7	297	668	320
3/3/2022	8	324	668	450
3/3/2022	9	354	668	550
3/3/2022	10	374	668	600
3/3/2022	11	392	668	600
3/3/2022	12	381	668	600
3/3/2022	13	383	668	600
3/3/2022	14	402	668	600
3/3/2022	15	395	668	600
3/3/2022	16	389	668	600
3/3/2022	17	369	668	600
3/3/2022	18	354	668	600
3/3/2022	19	363	668	600
3/3/2022	20	353	668	600
3/3/2022	21	347	668	600
3/3/2022	22	342	580	500
3/3/2022	23	331	490	460
3/3/2022	24	316	490	460
3/4/2022	1	316	668	450
3/4/2022	2	307	550	450
3/4/2022	3	299	500	400
3/4/2022	4	296	500	400
3/4/2022	5	297	500	400
3/4/2022	6	301	550	400
3/4/2022	7	313	668	400
3/4/2022	8	339	668	550
3/4/2022	9	367	668	600
3/4/2022	10	390	668	600
3/4/2022	11	407	668	600
3/4/2022	12	391	668	600
3/4/2022	13	396	668	600
3/4/2022	14	411	668	600
3/4/2022	15	408	668	600
3/4/2022	16	401	668	600
3/4/2022	17	382	668	600
3/4/2022	18	377	668	600
3/4/2022	19	389	668	600
3/4/2022	20	377	668	600
3/4/2022	21	370	668	600
3/4/2022	22	359	668	600
3/4/2022	23	345	668	600
3/4/2022	24	320	550	500
3/5/2022	1	319	668	450
3/5/2022	2	308	550	450
3/5/2022	3	300	500	400
3/5/2022	4	295	500	400

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/5/2022	5	292	500	400
3/5/2022	6	294	550	400
3/5/2022	7	295	668	400
3/5/2022	8	309	668	550
3/5/2022	9	333	668	600
3/5/2022	10	353	668	600
3/5/2022	11	369	668	600
3/5/2022	12	364	668	600
3/5/2022	13	367	668	600
3/5/2022	14	379	668	600
3/5/2022	15	377	668	600
3/5/2022	16	372	668	600
3/5/2022	17	361	668	600
3/5/2022	18	367	668	600
3/5/2022	19	379	668	600
3/5/2022	20	374	668	600
3/5/2022	21	367	668	600
3/5/2022	22	360	668	600
3/5/2022	23	348	668	600
3/5/2022	24	333	550	500
3/6/2022	1	296	550	550
3/6/2022	2	288	500	500
3/6/2022	3	281	460	460
3/6/2022	4	273	460	460
3/6/2022	5	271	460	460
3/6/2022	6	268	440	430
3/6/2022	7	267	410	400
3/6/2022	8	274	430	401
3/6/2022	9	288	480	445
3/6/2022	10	309	530	455
3/6/2022	11	318	550	500
3/6/2022	12	315	550	500
3/6/2022	13	318	600	550
3/6/2022	14	323	668	550
3/6/2022	15	320	668	550
3/6/2022	16	318	668	530
3/6/2022	17	314	668	550
3/6/2022	18	324	668	550
3/6/2022	19	345	668	600
3/6/2022	20	339	668	600
3/6/2022	21	327	668	600
3/6/2022	22	323	615	500
3/6/2022	23	313	550	460
3/6/2022	24	301	500	460
3/7/2022	1	298	480	390
3/7/2022	2	287	480	390
3/7/2022	3	276	480	390
3/7/2022	4	273	480	390
3/7/2022	5	275	480	390
3/7/2022	6	285	550	390
3/7/2022	7	300	668	450
3/7/2022	8	330	668	550
3/7/2022	9	364	668	600
3/7/2022	10	384	668	600
3/7/2022	11	398	668	600
3/7/2022	12	391	668	600
3/7/2022	13	392	668	600
3/7/2022	14	405	668	600
3/7/2022	15	403	668	600
3/7/2022	16	400	668	600
3/7/2022	17	382	668	600
3/7/2022	18	372	668	600
3/7/2022	19	383	668	600
3/7/2022	20	373	668	600
3/7/2022	21	367	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/7/2022	22	359	668	600
3/7/2022	23	343	668	600
3/7/2022	24	331	550	500
3/8/2022	1	319	668	350
3/8/2022	2	310	500	350
3/8/2022	3	299	350	350
3/8/2022	4	292	500	350
3/8/2022	5	297	668	350
3/8/2022	6	301	668	450
3/8/2022	7	312	668	600
3/8/2022	8	338	668	600
3/8/2022	9	366	668	600
3/8/2022	10	382	668	600
3/8/2022	11	395	668	600
3/8/2022	12	388	668	600
3/8/2022	13	388	668	600
3/8/2022	14	406	668	600
3/8/2022	15	404	668	600
3/8/2022	16	395	668	600
3/8/2022	17	373	668	600
3/8/2022	18	364	668	600
3/8/2022	19	375	668	600
3/8/2022	20	366	668	600
3/8/2022	21	360	668	600
3/8/2022	22	346	668	600
3/8/2022	23	333	550	500
3/8/2022	24	319	550	500
3/9/2022	1	317	668	350
3/9/2022	2	309	500	350
3/9/2022	3	300	350	350
3/9/2022	4	293	500	350
3/9/2022	5	296	668	350
3/9/2022	6	303	668	450
3/9/2022	7	311	668	600
3/9/2022	8	340	668	600
3/9/2022	9	368	668	600
3/9/2022	10	394	668	600
3/9/2022	11	410	668	600
3/9/2022	12	401	668	600
3/9/2022	13	408	668	600
3/9/2022	14	424	668	600
3/9/2022	15	420	668	600
3/9/2022	16	416	668	600
3/9/2022	17	395	668	600
3/9/2022	18	381	668	600
3/9/2022	19	394	668	600
3/9/2022	20	390	668	600
3/9/2022	21	386	668	600
3/9/2022	22	373	668	600
3/9/2022	23	363	550	500
3/9/2022	24	334	550	500
3/10/2022	1	324	550	550
3/10/2022	2	314	500	500
3/10/2022	3	303	460	460
3/10/2022	4	296	460	460
3/10/2022	5	296	460	460
3/10/2022	6	300	455	440
3/10/2022	7	308	500	455
3/10/2022	8	334	550	460
3/10/2022	9	365	668	550
3/10/2022	10	388	668	600
3/10/2022	11	401	668	600
3/10/2022	12	391	668	600
3/10/2022	13	394	668	600
3/10/2022	14	410	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/10/2022	15	406	668	600
3/10/2022	16	398	668	600
3/10/2022	17	377	668	600
3/10/2022	18	368	668	600
3/10/2022	19	381	668	600
3/10/2022	20	372	668	600
3/10/2022	21	368	668	600
3/10/2022	22	358	668	550
3/10/2022	23	342	600	500
3/10/2022	24	333	500	460
3/11/2022	1	316	668	480
3/11/2022	2	301	500	350
3/11/2022	3	296	350	350
3/11/2022	4	291	500	350
3/11/2022	5	291	668	350
3/11/2022	6	295	668	350
3/11/2022	7	301	668	350
3/11/2022	8	332	668	480
3/11/2022	9	358	668	600
3/11/2022	10	383	668	600
3/11/2022	11	390	668	600
3/11/2022	12	383	668	600
3/11/2022	13	394	668	600
3/11/2022	14	407	668	600
3/11/2022	15	408	668	600
3/11/2022	16	401	668	600
3/11/2022	17	378	668	600
3/11/2022	18	374	668	600
3/11/2022	19	377	668	600
3/11/2022	20	375	668	600
3/11/2022	21	373	668	600
3/11/2022	22	360	668	600
3/11/2022	23	349	668	580
3/11/2022	24	339	590	580
3/12/2022	1	325	668	480
3/12/2022	2	313	500	350
3/12/2022	3	304	350	350
3/12/2022	4	294	500	350
3/12/2022	5	291	668	350
3/12/2022	6	290	668	350
3/12/2022	7	292	668	350
3/12/2022	8	309	668	480
3/12/2022	9	334	668	600
3/12/2022	10	355	668	600
3/12/2022	11	367	668	600
3/12/2022	12	360	668	600
3/12/2022	13	364	668	600
3/12/2022	14	376	668	600
3/12/2022	15	373	668	600
3/12/2022	16	371	668	600
3/12/2022	17	356	668	600
3/12/2022	18	351	668	600
3/12/2022	19	373	668	600
3/12/2022	20	369	668	600
3/12/2022	21	367	668	600
3/12/2022	22	361	668	600
3/12/2022	23	349	668	580
3/12/2022	24	335	590	580
3/13/2022	1	324	550	550
3/13/2022	2	314	500	500
3/13/2022	3	303	460	460
3/13/2022	4	293	460	460
3/13/2022	5	288	450	400
3/13/2022	6	282	455	400
3/13/2022	7	276	455	400

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/13/2022	8	283	450	440
3/13/2022	9	302	500	500
3/13/2022	10	321	550	520
3/13/2022	11	332	550	550
3/13/2022	12	330	545	500
3/13/2022	13	334	550	545
3/13/2022	14	343	600	600
3/13/2022	15	343	600	600
3/13/2022	16	336	600	600
3/13/2022	17	326	600	550
3/13/2022	18	333	600	600
3/13/2022	19	355	668	600
3/13/2022	20	349	668	600
3/13/2022	21	348	668	600
3/13/2022	22	342	668	550
3/13/2022	23	330	600	500
3/13/2022	24	316	550	455
3/14/2022	1	305	500	480
3/14/2022	2	292	500	350
3/14/2022	3	280	350	350
3/14/2022	4	279	500	350
3/14/2022	5	278	668	350
3/14/2022	6	287	668	350
3/14/2022	7	301	668	350
3/14/2022	8	331	668	480
3/14/2022	9	358	668	600
3/14/2022	10	382	668	600
3/14/2022	11	395	668	600
3/14/2022	12	390	668	600
3/14/2022	13	395	668	600
3/14/2022	14	413	668	600
3/14/2022	15	413	668	600
3/14/2022	16	407	668	600
3/14/2022	17	389	668	600
3/14/2022	18	377	668	600
3/14/2022	19	389	668	600
3/14/2022	20	383	668	600
3/14/2022	21	379	668	600
3/14/2022	22	369	668	600
3/14/2022	23	358	668	600
3/14/2022	24	343	668	600
3/15/2022	1	335	668	600
3/15/2022	2	324	550	520
3/15/2022	3	313	380	350
3/15/2022	4	306	380	350
3/15/2022	5	307	380	350
3/15/2022	6	310	550	480
3/15/2022	7	316	668	550
3/15/2022	8	339	668	600
3/15/2022	9	370	668	600
3/15/2022	10	393	668	600
3/15/2022	11	408	668	600
3/15/2022	12	400	668	600
3/15/2022	13	405	668	600
3/15/2022	14	419	668	600
3/15/2022	15	412	668	600
3/15/2022	16	406	668	600
3/15/2022	17	384	668	600
3/15/2022	18	373	668	600
3/15/2022	19	383	668	600
3/15/2022	20	375	668	600
3/15/2022	21	371	668	600
3/15/2022	22	360	668	600
3/15/2022	23	348	668	600
3/15/2022	24	335	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/16/2022	1	336	668	600
3/16/2022	2	324	550	520
3/16/2022	3	317	390	380
3/16/2022	4	312	390	380
3/16/2022	5	306	390	380
3/16/2022	6	313	550	480
3/16/2022	7	321	668	550
3/16/2022	8	350	668	600
3/16/2022	9	383	668	600
3/16/2022	10	398	668	600
3/16/2022	11	422	668	600
3/16/2022	12	412	668	600
3/16/2022	13	415	668	600
3/16/2022	14	431	668	600
3/16/2022	15	425	668	600
3/16/2022	16	420	668	600
3/16/2022	17	400	668	600
3/16/2022	18	387	668	600
3/16/2022	19	392	668	600
3/16/2022	20	385	668	600
3/16/2022	21	386	668	600
3/16/2022	22	377	668	600
3/16/2022	23	364	668	600
3/16/2022	24	325	668	600
3/17/2022	1	336	550	550
3/17/2022	2	325	470	470
3/17/2022	3	317	470	470
3/17/2022	4	312	470	470
3/17/2022	5	305	470	470
3/17/2022	6	313	470	470
3/17/2022	7	322	470	470
3/17/2022	8	350	550	550
3/17/2022	9	384	600	600
3/17/2022	10	407	600	600
3/17/2022	11	422	600	600
3/17/2022	12	417	600	600
3/17/2022	13	423	600	600
3/17/2022	14	442	600	600
3/17/2022	15	440	600	600
3/17/2022	16	405	600	600
3/17/2022	17	429	600	600
3/17/2022	18	403	600	600
3/17/2022	19	391	600	600
3/17/2022	20	402	600	600
3/17/2022	21	400	600	600
3/17/2022	22	388	600	600
3/17/2022	23	377	600	600
3/17/2022	24	358	600	600
3/18/2022	1	345	560	550
3/18/2022	2	332	470	460
3/18/2022	3	321	470	460
3/18/2022	4	316	470	460
3/18/2022	5	313	470	460
3/18/2022	6	317	470	460
3/18/2022	7	323	470	460
3/18/2022	8	357	560	550
3/18/2022	9	389	668	600
3/18/2022	10	414	668	600
3/18/2022	11	423	668	600
3/18/2022	12	419	668	600
3/18/2022	13	420	668	600
3/18/2022	14	436	668	600
3/18/2022	15	438	668	600
3/18/2022	16	428	668	600
3/18/2022	17	402	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/18/2022	18	392	668	600
3/18/2022	19	392	668	600
3/18/2022	20	391	668	600
3/18/2022	21	397	668	600
3/18/2022	22	385	668	600
3/18/2022	23	375	668	600
3/18/2022	24	351	668	600
3/19/2022	1	351	600	600
3/19/2022	2	342	600	600
3/19/2022	3	328	580	580
3/19/2022	4	320	460	460
3/19/2022	5	318	460	460
3/19/2022	6	319	460	460
3/19/2022	7	322	460	460
3/19/2022	8	337	460	460
3/19/2022	9	355	550	550
3/19/2022	10	379	600	600
3/19/2022	11	394	600	600
3/19/2022	12	387	600	600
3/19/2022	13	393	600	600
3/19/2022	14	406	600	600
3/19/2022	15	401	600	600
3/19/2022	16	397	600	600
3/19/2022	17	382	600	600
3/19/2022	18	376	600	600
3/19/2022	19	389	600	600
3/19/2022	20	389	600	600
3/19/2022	21	389	600	600
3/19/2022	22	381	600	600
3/19/2022	23	373	600	600
3/19/2022	24	372	600	600
3/20/2022	1	353	600	600
3/20/2022	2	340	600	600
3/20/2022	3	324	550	550
3/20/2022	4	314	500	500
3/20/2022	5	308	455	450
3/20/2022	6	299	455	420
3/20/2022	7	295	420	418
3/20/2022	8	302	455	450
3/20/2022	9	317	500	455
3/20/2022	10	337	550	520
3/20/2022	11	347	550	520
3/20/2022	12	343	545	500
3/20/2022	13	347	545	520
3/20/2022	14	354	600	600
3/20/2022	15	351	600	550
3/20/2022	16	347	600	550
3/20/2022	17	345	600	550
3/20/2022	18	350	600	600
3/20/2022	19	380	600	600
3/20/2022	20	378	600	600
3/20/2022	21	376	600	600
3/20/2022	22	369	600	600
3/20/2022	23	356	500	460
3/20/2022	24	342	455	450
3/21/2022	1	332	580	550
3/21/2022	2	319	480	465
3/21/2022	3	313	480	465
3/21/2022	4	307	480	465
3/21/2022	5	304	480	465
3/21/2022	6	314	480	465
3/21/2022	7	325	550	465
3/21/2022	8	360	668	465
3/21/2022	9	398	668	550
3/21/2022	10	420	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/21/2022	11	439	668	600
3/21/2022	12	430	668	600
3/21/2022	13	433	668	600
3/21/2022	14	449	668	600
3/21/2022	15	444	668	600
3/21/2022	16	438	668	600
3/21/2022	17	419	668	600
3/21/2022	18	409	668	600
3/21/2022	19	415	668	600
3/21/2022	20	407	668	600
3/21/2022	21	408	668	600
3/21/2022	22	398	668	600
3/21/2022	23	385	668	600
3/21/2022	24	370	668	600
3/22/2022	1	335	580	550
3/22/2022	2	323	480	465
3/22/2022	3	315	480	465
3/22/2022	4	310	480	465
3/22/2022	5	307	480	465
3/22/2022	6	312	480	465
3/22/2022	7	320	550	465
3/22/2022	8	349	668	550
3/22/2022	9	382	668	600
3/22/2022	10	406	668	600
3/22/2022	11	421	668	600
3/22/2022	12	416	668	600
3/22/2022	13	422	668	600
3/22/2022	14	440	668	600
3/22/2022	15	438	668	600
3/22/2022	16	428	668	600
3/22/2022	17	402	668	600
3/22/2022	18	390	668	600
3/22/2022	19	395	668	600
3/22/2022	20	400	668	600
3/22/2022	21	398	668	600
3/22/2022	22	386	668	600
3/22/2022	23	375	668	600
3/22/2022	24	360	668	550
3/23/2022	1	356	580	550
3/23/2022	2	344	480	465
3/23/2022	3	333	480	465
3/23/2022	4	327	480	465
3/23/2022	5	324	480	465
3/23/2022	6	328	480	465
3/23/2022	7	334	550	465
3/23/2022	8	368	668	550
3/23/2022	9	402	668	600
3/23/2022	10	428	668	600
3/23/2022	11	438	668	600
3/23/2022	12	433	668	600
3/23/2022	13	435	668	600
3/23/2022	14	450	668	600
3/23/2022	15	453	668	600
3/23/2022	16	442	668	600
3/23/2022	17	416	668	600
3/23/2022	18	405	668	600
3/23/2022	19	406	668	600
3/23/2022	20	404	668	600
3/23/2022	21	411	668	600
3/23/2022	22	399	668	600
3/23/2022	23	389	668	600
3/23/2022	24	361	668	550
3/24/2022	1	350	520	465
3/24/2022	2	339	480	465
3/24/2022	3	328	480	465

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/24/2022	4	323	480	465
3/24/2022	5	321	480	465
3/24/2022	6	322	480	465
3/24/2022	7	327	550	465
3/24/2022	8	362	668	550
3/24/2022	9	395	668	600
3/24/2022	10	420	668	600
3/24/2022	11	436	668	600
3/24/2022	12	431	668	600
3/24/2022	13	440	668	600
3/24/2022	14	458	668	600
3/24/2022	15	457	668	600
3/24/2022	16	449	668	600
3/24/2022	17	421	668	600
3/24/2022	18	405	668	600
3/24/2022	19	421	668	600
3/24/2022	20	422	668	600
3/24/2022	21	421	668	600
3/24/2022	22	412	668	600
3/24/2022	23	399	668	600
3/24/2022	24	371	668	550
3/25/2022	1	363	520	465
3/25/2022	2	350	480	465
3/25/2022	3	342	480	465
3/25/2022	4	333	480	465
3/25/2022	5	330	480	465
3/25/2022	6	332	480	465
3/25/2022	7	334	550	465
3/25/2022	8	369	668	550
3/25/2022	9	401	668	600
3/25/2022	10	428	668	600
3/25/2022	11	443	668	600
3/25/2022	12	438	668	600
3/25/2022	13	445	668	600
3/25/2022	14	463	668	600
3/25/2022	15	461	668	600
3/25/2022	16	451	668	600
3/25/2022	17	426	668	600
3/25/2022	18	413	668	600
3/25/2022	19	428	668	600
3/25/2022	20	420	668	600
3/25/2022	21	421	668	600
3/25/2022	22	410	668	600
3/25/2022	23	394	668	600
3/25/2022	24	369	668	550
3/26/2022	1	356	600	600
3/26/2022	2	347	580	580
3/26/2022	3	334	520	520
3/26/2022	4	322	500	500
3/26/2022	5	320	450	450
3/26/2022	6	319	380	380
3/26/2022	7	309	380	380
3/26/2022	8	332	380	380
3/26/2022	9	355	450	450
3/26/2022	10	375	550	550
3/26/2022	11	390	600	600
3/26/2022	12	385	668	600
3/26/2022	13	394	668	600
3/26/2022	14	407	668	600
3/26/2022	15	402	668	600
3/26/2022	16	392	668	600
3/26/2022	17	376	668	600
3/26/2022	18	370	668	600
3/26/2022	19	389	668	600
3/26/2022	20	387	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/26/2022	21	387	668	600
3/26/2022	22	379	668	600
3/26/2022	23	367	668	600
3/26/2022	24	346	668	550
3/27/2022	1	351	600	600
3/27/2022	2	338	550	550
3/27/2022	3	327	550	550
3/27/2022	4	317	500	500
3/27/2022	5	310	455	450
3/27/2022	6	304	455	420
3/27/2022	7	297	420	418
3/27/2022	8	306	450	420
3/27/2022	9	324	500	455
3/27/2022	10	345	550	520
3/27/2022	11	359	550	520
3/27/2022	12	360	545	500
3/27/2022	13	367	545	520
3/27/2022	14	373	600	600
3/27/2022	15	374	600	590
3/27/2022	16	365	600	550
3/27/2022	17	360	600	600
3/27/2022	18	365	600	600
3/27/2022	19	380	668	600
3/27/2022	20	381	668	600
3/27/2022	21	382	668	600
3/27/2022	22	380	600	600
3/27/2022	23	367	600	500
3/27/2022	24	355	500	455
3/28/2022	1	337	550	520
3/28/2022	2	327	550	500
3/28/2022	3	316	480	460
3/28/2022	4	309	460	420
3/28/2022	5	309	460	420
3/28/2022	6	315	460	420
3/28/2022	7	325	480	460
3/28/2022	8	363	580	550
3/28/2022	9	396	668	600
3/28/2022	10	426	668	600
3/28/2022	11	442	668	600
3/28/2022	12	437	668	600
3/28/2022	13	442	668	600
3/28/2022	14	458	668	600
3/28/2022	15	457	668	600
3/28/2022	16	448	668	600
3/28/2022	17	423	668	600
3/28/2022	18	406	668	600
3/28/2022	19	419	668	600
3/28/2022	20	414	668	600
3/28/2022	21	414	668	600
3/28/2022	22	402	668	600
3/28/2022	23	391	668	600
3/28/2022	24	374	668	600
3/29/2022	1	357	550	520
3/29/2022	2	345	550	500
3/29/2022	3	334	480	450
3/29/2022	4	326	420	380
3/29/2022	5	324	420	380
3/29/2022	6	325	420	380
3/29/2022	7	326	480	450
3/29/2022	8	361	580	550
3/29/2022	9	394	668	600
3/29/2022	10	420	668	600
3/29/2022	11	435	668	600
3/29/2022	12	430	668	600
3/29/2022	13	439	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/29/2022	14	456	668	600
3/29/2022	15	455	668	600
3/29/2022	16	447	668	600
3/29/2022	17	412	668	600
3/29/2022	18	396	668	600
3/29/2022	19	411	668	600
3/29/2022	20	411	668	600
3/29/2022	21	410	668	600
3/29/2022	22	402	668	600
3/29/2022	23	389	668	600
3/29/2022	24	372	668	600
3/30/2022	1	360	550	520
3/30/2022	2	347	550	500
3/30/2022	3	335	480	450
3/30/2022	4	325	420	420
3/30/2022	5	323	420	380
3/30/2022	6	322	420	380
3/30/2022	7	327	480	450
3/30/2022	8	362	580	550
3/30/2022	9	395	668	600
3/30/2022	10	421	668	600
3/30/2022	11	438	668	600
3/30/2022	12	433	668	600
3/30/2022	13	441	668	600
3/30/2022	14	457	668	600
3/30/2022	15	454	668	600
3/30/2022	16	448	668	600
3/30/2022	17	420	668	600
3/30/2022	18	406	668	600
3/30/2022	19	397	668	600
3/30/2022	20	409	668	600
3/30/2022	21	408	668	600
3/30/2022	22	397	668	600
3/30/2022	23	392	668	600
3/30/2022	24	380	668	600
3/31/2022	1	360	550	520
3/31/2022	2	348	550	500
3/31/2022	3	338	480	450
3/31/2022	4	330	420	380
3/31/2022	5	328	420	380
3/31/2022	6	331	420	380
3/31/2022	7	332	480	450
3/31/2022	8	366	580	550
3/31/2022	9	397	668	600
3/31/2022	10	415	668	600
3/31/2022	11	434	668	600
3/31/2022	12	425	668	600
3/31/2022	13	430	668	600
3/31/2022	14	447	668	600
3/31/2022	15	444	668	600
3/31/2022	16	435	668	600
3/31/2022	17	404	668	600
3/31/2022	18	380	668	600
3/31/2022	19	394	668	600
3/31/2022	20	389	668	600
3/31/2022	21	397	668	600
3/31/2022	22	388	668	600
3/31/2022	23	378	668	600
3/31/2022	24	369	668	600
4/1/2022	1	359	550	520
4/1/2022	2	345	550	500
4/1/2022	3	336	480	450
4/1/2022	4	326	420	380
4/1/2022	5	325	420	380
4/1/2022	6	324	420	380

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/1/2022	7	330	480	450
4/1/2022	8	359	580	550
4/1/2022	9	392	668	600
4/1/2022	10	417	668	600
4/1/2022	11	439	668	600
4/1/2022	12	428	668	600
4/1/2022	13	437	668	600
4/1/2022	14	449	668	600
4/1/2022	15	454	668	600
4/1/2022	16	444	668	600
4/1/2022	17	416	668	600
4/1/2022	18	399	668	600
4/1/2022	19	421	668	600
4/1/2022	20	413	668	600
4/1/2022	21	412	668	600
4/1/2022	22	402	668	600
4/1/2022	23	389	668	600
4/1/2022	24	376	668	600
4/2/2022	1	360	550	520
4/2/2022	2	348	550	500
4/2/2022	3	335	480	450
4/2/2022	4	328	420	380
4/2/2022	5	321	420	380
4/2/2022	6	314	420	380
4/2/2022	7	312	480	450
4/2/2022	8	333	580	550
4/2/2022	9	359	668	600
4/2/2022	10	384	668	600
4/2/2022	11	400	668	600
4/2/2022	12	396	668	600
4/2/2022	13	402	668	600
4/2/2022	14	414	668	600
4/2/2022	15	414	668	600
4/2/2022	16	400	668	600
4/2/2022	17	400	668	600
4/2/2022	18	381	668	600
4/2/2022	19	380	668	600
4/2/2022	20	393	668	600
4/2/2022	21	399	668	600
4/2/2022	22	395	668	600
4/2/2022	23	385	668	600
4/2/2022	24	374	668	600
4/3/2022	1	329	500	500
4/3/2022	2	320	500	450
4/3/2022	3	312	450	450
4/3/2022	4	304	420	400
4/3/2022	5	302	420	400
4/3/2022	6	298	420	400
4/3/2022	7	297	420	400
4/3/2022	8	304	420	400
4/3/2022	9	320	420	420
4/3/2022	10	344	520	455
4/3/2022	11	353	520	500
4/3/2022	12	351	500	455
4/3/2022	13	353	520	500
4/3/2022	14	359	550	500
4/3/2022	15	356	550	500
4/3/2022	16	353	550	550
4/3/2022	17	350	600	550
4/3/2022	18	360	600	600
4/3/2022	19	384	668	600
4/3/2022	20	377	668	600
4/3/2022	21	364	668	600
4/3/2022	22	359	600	600
4/3/2022	23	349	600	500

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/3/2022	24	335	500	455
4/4/2022	1	342	550	520
4/4/2022	2	327	550	500
4/4/2022	3	315	480	450
4/4/2022	4	308	420	380
4/4/2022	5	306	420	380
4/4/2022	6	309	420	380
4/4/2022	7	320	480	450
4/4/2022	8	361	580	550
4/4/2022	9	397	668	600
4/4/2022	10	422	668	600
4/4/2022	11	442	668	600
4/4/2022	12	433	668	600
4/4/2022	13	441	668	600
4/4/2022	14	457	668	600
4/4/2022	15	453	668	600
4/4/2022	16	440	668	600
4/4/2022	17	429	668	600
4/4/2022	18	401	668	600
4/4/2022	19	415	668	600
4/4/2022	20	411	668	600
4/4/2022	21	414	668	600
4/4/2022	22	406	668	600
4/4/2022	23	396	668	600
4/4/2022	24	382	668	600
4/5/2022	1	365	500	500
4/5/2022	2	351	450	450
4/5/2022	3	339	450	450
4/5/2022	4	330	380	380
4/5/2022	5	327	380	380
4/5/2022	6	327	380	380
4/5/2022	7	332	450	450
4/5/2022	8	369	550	550
4/5/2022	9	401	600	553
4/5/2022	10	423	600	553
4/5/2022	11	438	600	553
4/5/2022	12	429	600	553
4/5/2022	13	434	600	553
4/5/2022	14	448	600	553
4/5/2022	15	446	600	553
4/5/2022	16	437	600	553
4/5/2022	17	412	600	553
4/5/2022	18	399	600	553
4/5/2022	19	413	600	553
4/5/2022	20	409	600	553
4/5/2022	21	408	600	553
4/5/2022	22	400	600	553
4/5/2022	23	387	600	553
4/5/2022	24	373	600	553
4/6/2022	1	331	500	500
4/6/2022	2	321	450	450
4/6/2022	3	315	450	450
4/6/2022	4	304	450	380
4/6/2022	5	304	450	380
4/6/2022	6	303	450	380
4/6/2022	7	310	450	450
4/6/2022	8	343	550	550
4/6/2022	9	375	600	553
4/6/2022	10	398	600	553
4/6/2022	11	416	600	553
4/6/2022	12	407	600	553
4/6/2022	13	416	600	553
4/6/2022	14	432	600	553
4/6/2022	15	429	600	553
4/6/2022	16	422	600	553

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/6/2022	17	389	600	553
4/6/2022	18	374	600	553
4/6/2022	19	387	600	553
4/6/2022	20	381	600	553
4/6/2022	21	380	600	553
4/6/2022	22	370	600	553
4/6/2022	23	359	600	553
4/6/2022	24	371	600	553
4/7/2022	1	339	550	520
4/7/2022	2	331	550	500
4/7/2022	3	320	480	450
4/7/2022	4	310	420	380
4/7/2022	5	307	420	380
4/7/2022	6	302	420	380
4/7/2022	7	308	480	450
4/7/2022	8	341	580	550
4/7/2022	9	371	668	600
4/7/2022	10	396	668	600
4/7/2022	11	412	668	600
4/7/2022	12	406	668	600
4/7/2022	13	414	668	600
4/7/2022	14	430	668	600
4/7/2022	15	426	668	600
4/7/2022	16	413	668	600
4/7/2022	17	389	668	600
4/7/2022	18	366	668	600
4/7/2022	19	379	668	600
4/7/2022	20	377	668	600
4/7/2022	21	378	668	600
4/7/2022	22	373	668	600
4/7/2022	23	365	668	600
4/7/2022	24	372	668	600
4/8/2022	1	332	550	520
4/8/2022	2	321	550	500
4/8/2022	3	312	480	450
4/8/2022	4	304	420	380
4/8/2022	5	304	420	380
4/8/2022	6	306	420	380
4/8/2022	7	315	480	450
4/8/2022	8	347	580	550
4/8/2022	9	377	668	600
4/8/2022	10	398	668	600
4/8/2022	11	414	668	600
4/8/2022	12	404	668	600
4/8/2022	13	404	668	600
4/8/2022	14	417	668	600
4/8/2022	15	412	668	600
4/8/2022	16	405	668	600
4/8/2022	17	385	668	600
4/8/2022	18	375	668	600
4/8/2022	19	386	668	600
4/8/2022	20	381	668	600
4/8/2022	21	368	668	600
4/8/2022	22	358	668	600
4/8/2022	23	346	668	600
4/8/2022	24	358	668	600
4/9/2022	1	315	550	520
4/9/2022	2	304	550	500
4/9/2022	3	296	480	450
4/9/2022	4	288	420	380
4/9/2022	5	283	420	380
4/9/2022	6	278	420	380
4/9/2022	7	274	420	380
4/9/2022	8	286	420	380
4/9/2022	9	304	420	380

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/9/2022	10	316	480	450
4/9/2022	11	325	550	501
4/9/2022	12	326	600	501
4/9/2022	13	330	600	501
4/9/2022	14	341	600	501
4/9/2022	15	341	600	501
4/9/2022	16	329	550	501
4/9/2022	17	312	550	501
4/9/2022	18	312	550	501
4/9/2022	19	337	600	501
4/9/2022	20	338	600	501
4/9/2022	21	345	600	501
4/9/2022	22	342	600	501
4/9/2022	23	330	600	501
4/9/2022	24	346	600	501
4/10/2022	1	310	450	400
4/10/2022	2	299	450	400
4/10/2022	3	289	450	400
4/10/2022	4	281	400	400
4/10/2022	5	276	400	400
4/10/2022	6	268	400	360
4/10/2022	7	263	400	360
4/10/2022	8	272	400	360
4/10/2022	9	288	400	360
4/10/2022	10	306	450	400
4/10/2022	11	315	520	450
4/10/2022	12	315	500	450
4/10/2022	13	318	520	500
4/10/2022	14	325	550	500
4/10/2022	15	327	550	500
4/10/2022	16	320	550	500
4/10/2022	17	310	500	500
4/10/2022	18	316	550	500
4/10/2022	19	336	550	500
4/10/2022	20	334	600	500
4/10/2022	21	334	600	500
4/10/2022	22	325	600	500
4/10/2022	23	316	500	500
4/10/2022	24	304	500	455
4/11/2022	1	305	550	520
4/11/2022	2	292	550	500
4/11/2022	3	282	480	450
4/11/2022	4	275	420	380
4/11/2022	5	273	420	380
4/11/2022	6	276	420	380
4/11/2022	7	286	550	450
4/11/2022	8	322	668	550
4/11/2022	9	354	668	600
4/11/2022	10	377	668	600
4/11/2022	11	394	668	600
4/11/2022	12	387	668	600
4/11/2022	13	394	668	600
4/11/2022	14	408	668	600
4/11/2022	15	405	668	600
4/11/2022	16	393	668	600
4/11/2022	17	384	668	600
4/11/2022	18	358	668	600
4/11/2022	19	371	668	600
4/11/2022	20	367	668	600
4/11/2022	21	369	668	600
4/11/2022	22	363	668	600
4/11/2022	23	353	668	600
4/11/2022	24	341	668	600
4/12/2022	1	326	550	520
4/12/2022	2	314	550	500

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/12/2022	3	303	480	450
4/12/2022	4	295	420	380
4/12/2022	5	292	420	380
4/12/2022	6	292	420	380
4/12/2022	7	298	550	450
4/12/2022	8	330	668	550
4/12/2022	9	359	668	600
4/12/2022	10	378	668	600
4/12/2022	11	392	668	600
4/12/2022	12	383	668	600
4/12/2022	13	388	668	600
4/12/2022	14	401	668	600
4/12/2022	15	399	668	600
4/12/2022	16	391	668	600
4/12/2022	17	368	668	600
4/12/2022	18	357	668	600
4/12/2022	19	369	668	600
4/12/2022	20	366	668	600
4/12/2022	21	364	668	600
4/12/2022	22	357	668	600
4/12/2022	23	346	668	600
4/12/2022	24	337	668	600
4/13/2022	1	339	600	500
4/13/2022	2	328	550	500
4/13/2022	3	317	450	450
4/13/2022	4	311	380	380
4/13/2022	5	303	380	380
4/13/2022	6	304	380	380
4/13/2022	7	310	450	450
4/13/2022	8	345	550	500
4/13/2022	9	377	600	500
4/13/2022	10	399	600	500
4/13/2022	11	399	600	500
4/13/2022	12	397	600	500
4/13/2022	13	399	600	500
4/13/2022	14	398	600	500
4/13/2022	15	394	600	500
4/13/2022	16	397	600	500
4/13/2022	17	382	600	500
4/13/2022	18	375	600	500
4/13/2022	19	389	600	500
4/13/2022	20	387	600	500
4/13/2022	21	387	600	500
4/13/2022	22	379	600	500
4/13/2022	23	370	600	500
4/13/2022	24	353	600	500
4/14/2022	1	318	600	500
4/14/2022	2	307	550	500
4/14/2022	3	295	450	450
4/14/2022	4	288	380	380
4/14/2022	5	284	380	380
4/14/2022	6	277	380	380
4/14/2022	7	275	380	380
4/14/2022	8	290	380	380
4/14/2022	9	306	380	380
4/14/2022	10	325	380	380
4/14/2022	11	338	450	450
4/14/2022	12	336	450	450
4/14/2022	13	337	450	450
4/14/2022	14	345	450	450
4/14/2022	15	344	450	450
4/14/2022	16	340	550	500
4/14/2022	17	332	600	500
4/14/2022	18	338	600	500
4/14/2022	19	359	600	500

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/14/2022	20	355	600	500
4/14/2022	21	355	600	500
4/14/2022	22	347	600	500
4/14/2022	23	335	600	500
4/14/2022	24	332	600	500
4/15/2022	1	278	450	400
4/15/2022	2	266	450	400
4/15/2022	3	254	400	400
4/15/2022	4	243	400	360
4/15/2022	5	236	360	350
4/15/2022	6	228	360	300
4/15/2022	7	223	360	250
4/15/2022	8	228	360	300
4/15/2022	9	235	360	300
4/15/2022	10	248	400	350
4/15/2022	11	256	450	350
4/15/2022	12	258	450	350
4/15/2022	13	264	450	350
4/15/2022	14	275	450	400
4/15/2022	15	277	450	400
4/15/2022	16	271	450	350
4/15/2022	17	261	450	350
4/15/2022	18	264	450	350
4/15/2022	19	294	450	420
4/15/2022	20	299	500	400
4/15/2022	21	305	500	450
4/15/2022	22	304	500	450
4/15/2022	23	294	450	450
4/15/2022	24	281	450	415
4/16/2022	1	314	500	455
4/16/2022	2	299	500	455
4/16/2022	3	287	450	439
4/16/2022	4	276	450	420
4/16/2022	5	271	420	400
4/16/2022	6	267	420	400
4/16/2022	7	269	420	400
4/16/2022	8	286	420	420
4/16/2022	9	307	455	420
4/16/2022	10	327	460	455
4/16/2022	11	341	460	455
4/16/2022	12	344	500	460
4/16/2022	13	351	500	500
4/16/2022	14	368	550	500
4/16/2022	15	370	550	500
4/16/2022	16	362	550	455
4/16/2022	17	342	550	455
4/16/2022	18	340	550	455
4/16/2022	19	373	600	500
4/16/2022	20	377	600	500
4/16/2022	21	383	600	500
4/16/2022	22	381	600	500
4/16/2022	23	368	600	500
4/16/2022	24	353	580	460
4/17/2022	1	327	500	455
4/17/2022	2	314	500	455
4/17/2022	3	301	455	450
4/17/2022	4	288	450	420
4/17/2022	5	282	425	420
4/17/2022	6	274	420	400
4/17/2022	7	277	420	400
4/17/2022	8	290	420	420
4/17/2022	9	307	455	420
4/17/2022	10	324	460	455
4/17/2022	11	337	460	455
4/17/2022	12	335	500	455

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/17/2022	13	342	500	500
4/17/2022	14	356	550	500
4/17/2022	15	359	550	500
4/17/2022	16	348	550	455
4/17/2022	17	332	550	450
4/17/2022	18	338	550	455
4/17/2022	19	368	600	500
4/17/2022	20	373	600	500
4/17/2022	21	380	600	500
4/17/2022	22	380	600	500
4/17/2022	23	368	600	500
4/17/2022	24	352	580	460
4/18/2022	1	323	450	450
4/18/2022	2	311	380	380
4/18/2022	3	305	380	380
4/18/2022	4	297	380	380
4/18/2022	5	297	380	380
4/18/2022	6	305	450	450
4/18/2022	7	319	550	500
4/18/2022	8	349	600	500
4/18/2022	9	381	600	500
4/18/2022	10	404	600	500
4/18/2022	11	416	600	500
4/18/2022	12	408	600	500
4/18/2022	13	411	600	500
4/18/2022	14	426	600	500
4/18/2022	15	425	600	500
4/18/2022	16	420	600	500
4/18/2022	17	399	600	500
4/18/2022	18	393	600	500
4/18/2022	19	404	600	500
4/18/2022	20	398	600	500
4/18/2022	21	396	600	500
4/18/2022	22	384	600	500
4/18/2022	23	373	600	500
4/18/2022	24	359	600	500
4/19/2022	1	345	600	500
4/19/2022	2	333	600	500
4/19/2022	3	323	600	500
4/19/2022	4	315	500	450
4/19/2022	5	313	480	420
4/19/2022	6	315	480	420
4/19/2022	7	321	500	450
4/19/2022	8	353	600	500
4/19/2022	9	381	600	500
4/19/2022	10	402	600	500
4/19/2022	11	417	600	500
4/19/2022	12	407	600	500
4/19/2022	13	410	600	500
4/19/2022	14	423	600	500
4/19/2022	15	420	600	500
4/19/2022	16	413	600	500
4/19/2022	17	394	600	500
4/19/2022	18	384	600	500
4/19/2022	19	387	600	500
4/19/2022	20	383	600	500
4/19/2022	21	388	600	500
4/19/2022	22	378	600	500
4/19/2022	23	365	600	500
4/19/2022	24	374	600	500
4/20/2022	1	343	450	420
4/20/2022	2	331	450	420
4/20/2022	3	319	380	380
4/20/2022	4	311	380	380
4/20/2022	5	305	380	380

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/20/2022	6	307	380	380
4/20/2022	7	317	480	450
4/20/2022	8	355	550	500
4/20/2022	9	388	600	550
4/20/2022	10	412	668	600
4/20/2022	11	426	668	600
4/20/2022	12	417	668	600
4/20/2022	13	424	668	600
4/20/2022	14	436	668	600
4/20/2022	15	430	668	600
4/20/2022	16	418	668	600
4/20/2022	17	391	668	600
4/20/2022	18	367	668	600
4/20/2022	19	391	668	600
4/20/2022	20	384	668	600
4/20/2022	21	375	668	600
4/20/2022	22	364	668	600
4/20/2022	23	354	550	500
4/20/2022	24	327	550	450
4/21/2022	1	349	600	550
4/21/2022	2	337	600	550
4/21/2022	3	327	550	550
4/21/2022	4	319	550	450
4/21/2022	5	314	550	450
4/21/2022	6	318	550	450
4/21/2022	7	325	550	450
4/21/2022	8	358	550	500
4/21/2022	9	391	600	600
4/21/2022	10	412	668	600
4/21/2022	11	426	668	600
4/21/2022	12	420	668	600
4/21/2022	13	424	668	600
4/21/2022	14	437	668	600
4/21/2022	15	435	668	600
4/21/2022	16	427	668	600
4/21/2022	17	402	668	600
4/21/2022	18	371	668	600
4/21/2022	19	396	668	600
4/21/2022	20	391	668	600
4/21/2022	21	389	668	600
4/21/2022	22	380	668	600
4/21/2022	23	369	668	600
4/21/2022	24	380	668	600
4/22/2022	1	358	600	550
4/22/2022	2	345	600	550
4/22/2022	3	332	550	550
4/22/2022	4	323	550	450
4/22/2022	5	314	550	450
4/22/2022	6	317	550	450
4/22/2022	7	318	550	450
4/22/2022	8	326	550	500
4/22/2022	9	359	668	600
4/22/2022	10	390	668	600
4/22/2022	11	409	668	600
4/22/2022	12	424	668	600
4/22/2022	13	414	668	600
4/22/2022	14	422	668	600
4/22/2022	15	438	668	600
4/22/2022	16	432	668	600
4/22/2022	17	424	668	600
4/22/2022	18	401	668	600
4/22/2022	19	387	668	600
4/22/2022	20	401	668	600
4/22/2022	21	397	668	600
4/22/2022	22	395	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/22/2022	23	385	668	600
4/22/2022	24	373	668	600
4/23/2022	1	349	550	460
4/23/2022	2	341	460	450
4/23/2022	3	331	450	400
4/23/2022	4	319	450	400
4/23/2022	5	317	450	400
4/23/2022	6	311	450	400
4/23/2022	7	307	450	400
4/23/2022	8	325	500	455
4/23/2022	9	351	600	455
4/23/2022	10	371	600	455
4/23/2022	11	388	600	460
4/23/2022	12	384	600	460
4/23/2022	13	391	600	460
4/23/2022	14	404	600	460
4/23/2022	15	397	600	460
4/23/2022	16	380	600	460
4/23/2022	17	363	600	460
4/23/2022	18	356	600	460
4/23/2022	19	379	600	460
4/23/2022	20	379	600	460
4/23/2022	21	380	600	460
4/23/2022	22	378	600	460
4/23/2022	23	368	600	460
4/23/2022	24	375	600	460
4/24/2022	1	337	460	455
4/24/2022	2	329	460	455
4/24/2022	3	317	460	455
4/24/2022	4	309	460	455
4/24/2022	5	304	460	455
4/24/2022	6	293	460	421
4/24/2022	7	297	460	455
4/24/2022	8	307	460	455
4/24/2022	9	323	460	455
4/24/2022	10	341	460	455
4/24/2022	11	350	460	455
4/24/2022	12	347	460	455
4/24/2022	13	347	500	460
4/24/2022	14	351	550	460
4/24/2022	15	350	550	460
4/24/2022	16	343	550	460
4/24/2022	17	339	550	460
4/24/2022	18	351	550	460
4/24/2022	19	378	600	460
4/24/2022	20	379	600	460
4/24/2022	21	379	600	460
4/24/2022	22	374	600	460
4/24/2022	23	360	550	460
4/24/2022	24	345	520	460
4/25/2022	1	304	455	450
4/25/2022	2	295	450	400
4/25/2022	3	285	450	400
4/25/2022	4	280	450	400
4/25/2022	5	282	450	400
4/25/2022	6	290	450	400
4/25/2022	7	310	450	400
4/25/2022	8	346	500	455
4/25/2022	9	381	600	460
4/25/2022	10	407	600	460
4/25/2022	11	419	600	460
4/25/2022	12	417	600	460
4/25/2022	13	424	600	460
4/25/2022	14	443	600	460
4/25/2022	15	438	600	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/25/2022	16	432	600	460
4/25/2022	17	407	600	460
4/25/2022	18	391	600	460
4/25/2022	19	408	600	460
4/25/2022	20	403	600	460
4/25/2022	21	400	600	460
4/25/2022	22	390	600	460
4/25/2022	23	378	600	460
4/25/2022	24	363	600	460
4/26/2022	1	341	460	455
4/26/2022	2	329	450	420
4/26/2022	3	319	450	420
4/26/2022	4	313	450	420
4/26/2022	5	310	450	420
4/26/2022	6	311	450	420
4/26/2022	7	319	450	420
4/26/2022	8	354	500	455
4/26/2022	9	386	600	460
4/26/2022	10	412	600	460
4/26/2022	11	426	600	460
4/26/2022	12	423	600	460
4/26/2022	13	430	600	460
4/26/2022	14	447	600	460
4/26/2022	15	447	600	460
4/26/2022	16	434	600	460
4/26/2022	17	405	600	460
4/26/2022	18	383	600	460
4/26/2022	19	400	600	460
4/26/2022	20	387	600	460
4/26/2022	21	399	600	460
4/26/2022	22	390	600	460
4/26/2022	23	382	600	460
4/26/2022	24	368	600	460
4/27/2022	1	361	500	450
4/27/2022	2	347	500	450
4/27/2022	3	338	500	450
4/27/2022	4	329	500	450
4/27/2022	5	331	550	450
4/27/2022	6	332	550	450
4/27/2022	7	341	550	450
4/27/2022	8	376	668	500
4/27/2022	9	411	668	600
4/27/2022	10	434	668	600
4/27/2022	11	448	668	600
4/27/2022	12	438	668	600
4/27/2022	13	441	668	600
4/27/2022	14	455	668	600
4/27/2022	15	452	668	600
4/27/2022	16	444	668	600
4/27/2022	17	411	668	600
4/27/2022	18	401	668	600
4/27/2022	19	417	668	600
4/27/2022	20	412	668	600
4/27/2022	21	408	668	600
4/27/2022	22	399	668	600
4/27/2022	23	388	668	600
4/27/2022	24	369	668	600
4/28/2022	1	366	668	600
4/28/2022	2	355	668	600
4/28/2022	3	345	600	600
4/28/2022	4	336	550	500
4/28/2022	5	333	550	450
4/28/2022	6	329	550	450
4/28/2022	7	337	600	450
4/28/2022	8	374	668	500

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/28/2022	9	410	668	600
4/28/2022	10	434	668	600
4/28/2022	11	448	668	600
4/28/2022	12	442	668	600
4/28/2022	13	446	668	600
4/28/2022	14	457	668	600
4/28/2022	15	446	668	600
4/28/2022	16	436	668	600
4/28/2022	17	412	668	600
4/28/2022	18	393	668	600
4/28/2022	19	396	668	600
4/28/2022	20	398	668	600
4/28/2022	21	398	668	600
4/28/2022	22	391	668	600
4/28/2022	23	387	668	600
4/28/2022	24	364	668	600
4/29/2022	1	356	668	460
4/29/2022	2	345	550	460
4/29/2022	3	336	500	460
4/29/2022	4	329	500	460
4/29/2022	5	329	500	460
4/29/2022	6	334	500	460
4/29/2022	7	342	500	460
4/29/2022	8	372	550	500
4/29/2022	9	403	668	600
4/29/2022	10	427	668	600
4/29/2022	11	441	668	600
4/29/2022	12	435	668	600
4/29/2022	13	439	668	600
4/29/2022	14	454	668	600
4/29/2022	15	448	668	600
4/29/2022	16	444	668	600
4/29/2022	17	415	668	600
4/29/2022	18	408	668	600
4/29/2022	19	421	668	600
4/29/2022	20	414	668	600
4/29/2022	21	412	668	600
4/29/2022	22	402	668	600
4/29/2022	23	388	668	600
4/29/2022	24	368	668	600
4/30/2022	1	355	550	450
4/30/2022	2	342	500	450
4/30/2022	3	336	500	450
4/30/2022	4	326	500	450
4/30/2022	5	320	490	450
4/30/2022	6	306	490	450
4/30/2022	7	308	490	450
4/30/2022	8	332	490	450
4/30/2022	9	356	490	450
4/30/2022	10	380	550	500
4/30/2022	11	391	668	600
4/30/2022	12	388	668	600
4/30/2022	13	392	668	600
4/30/2022	14	398	668	600
4/30/2022	15	395	668	600
4/30/2022	16	390	668	600
4/30/2022	17	372	668	600
4/30/2022	18	371	668	600
4/30/2022	19	383	668	600
4/30/2022	20	381	668	600
4/30/2022	21	378	668	600
4/30/2022	22	370	668	600
4/30/2022	23	357	550	500
4/30/2022	24	299	500	450
5/1/2022	1	355	600	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/1/2022	2	343	550	460
5/1/2022	3	331	500	460
5/1/2022	4	320	455	450
5/1/2022	5	307	455	420
5/1/2022	6	302	450	431
5/1/2022	7	288	450	442
5/1/2022	8	284	420	411
5/1/2022	9	295	420	400
5/1/2022	10	312	420	400
5/1/2022	11	335	460	420
5/1/2022	12	346	460	450
5/1/2022	13	346	500	460
5/1/2022	14	350	500	500
5/1/2022	15	357	600	550
5/1/2022	16	358	600	550
5/1/2022	17	368	600	550
5/1/2022	18	359	600	550
5/1/2022	19	358	600	500
5/1/2022	20	383	668	600
5/1/2022	21	384	668	600
5/1/2022	22	390	668	600
5/1/2022	23	386	668	550
5/1/2022	24	376	668	520
5/2/2022	1	345	490	450
5/2/2022	2	334	490	450
5/2/2022	3	322	490	450
5/2/2022	4	311	490	450
5/2/2022	5	311	490	450
5/2/2022	6	311	490	450
5/2/2022	7	327	490	450
5/2/2022	8	364	550	500
5/2/2022	9	390	668	600
5/2/2022	10	411	668	600
5/2/2022	11	424	668	600
5/2/2022	12	422	668	600
5/2/2022	13	426	668	600
5/2/2022	14	443	668	600
5/2/2022	15	445	668	600
5/2/2022	16	436	668	600
5/2/2022	17	415	668	600
5/2/2022	18	398	668	600
5/2/2022	19	411	668	600
5/2/2022	20	408	668	600
5/2/2022	21	409	668	600
5/2/2022	22	401	668	600
5/2/2022	23	391	668	600
5/2/2022	24	377	668	600
5/3/2022	1	355	600	455
5/3/2022	2	340	550	455
5/3/2022	3	330	420	420
5/3/2022	4	322	420	400
5/3/2022	5	317	420	400
5/3/2022	6	308	420	400
5/3/2022	7	302	400	380
5/3/2022	8	322	420	400
5/3/2022	9	345	455	420
5/3/2022	10	366	455	420
5/3/2022	11	380	455	433
5/3/2022	12	374	455	450
5/3/2022	13	381	500	500
5/3/2022	14	390	550	500
5/3/2022	15	388	550	500
5/3/2022	16	372	500	500
5/3/2022	17	359	500	500
5/3/2022	18	356	500	500

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/3/2022	19	371	550	500
5/3/2022	20	367	500	455
5/3/2022	21	365	455	450
5/3/2022	22	359	455	450
5/3/2022	23	349	455	450
5/3/2022	24	374	455	450
5/4/2022	1	348	420	420
5/4/2022	2	336	420	420
5/4/2022	3	326	420	420
5/4/2022	4	318	420	420
5/4/2022	5	314	420	420
5/4/2022	6	311	450	420
5/4/2022	7	322	500	460
5/4/2022	8	358	550	500
5/4/2022	9	392	600	550
5/4/2022	10	413	668	600
5/4/2022	11	430	668	647
5/4/2022	12	425	668	647
5/4/2022	13	431	668	647
5/4/2022	14	447	668	647
5/4/2022	15	442	668	647
5/4/2022	16	431	668	647
5/4/2022	17	402	668	550
5/4/2022	18	386	668	550
5/4/2022	19	399	668	600
5/4/2022	20	396	668	600
5/4/2022	21	395	668	610
5/4/2022	22	387	668	600
5/4/2022	23	378	668	550
5/4/2022	24	366	668	520
5/5/2022	1	360	460	450
5/5/2022	2	347	460	450
5/5/2022	3	336	460	450
5/5/2022	4	328	460	450
5/5/2022	5	325	460	450
5/5/2022	6	326	460	450
5/5/2022	7	333	550	450
5/5/2022	8	368	600	550
5/5/2022	9	401	668	647
5/5/2022	10	425	668	647
5/5/2022	11	440	668	647
5/5/2022	12	433	668	647
5/5/2022	13	438	668	647
5/5/2022	14	454	668	647
5/5/2022	15	450	668	647
5/5/2022	16	441	668	647
5/5/2022	17	406	668	647
5/5/2022	18	392	668	647
5/5/2022	19	403	668	647
5/5/2022	20	401	668	647
5/5/2022	21	401	668	647
5/5/2022	22	395	668	647
5/5/2022	23	385	668	647
5/5/2022	24	371	668	647
5/6/2022	1	374	450	420
5/6/2022	2	361	450	420
5/6/2022	3	346	450	420
5/6/2022	4	334	450	420
5/6/2022	5	332	450	420
5/6/2022	6	324	450	420
5/6/2022	7	336	450	420
5/6/2022	8	374	550	520
5/6/2022	9	411	668	600
5/6/2022	10	434	668	600
5/6/2022	11	451	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/6/2022	12	438	668	600
5/6/2022	13	443	668	600
5/6/2022	14	460	668	600
5/6/2022	15	459	668	600
5/6/2022	16	448	668	600
5/6/2022	17	418	668	600
5/6/2022	18	400	668	600
5/6/2022	19	410	668	600
5/6/2022	20	407	668	600
5/6/2022	21	409	668	600
5/6/2022	22	403	668	600
5/6/2022	23	390	668	600
5/6/2022	24	386	668	600
5/7/2022	1	365	550	550
5/7/2022	2	352	550	550
5/7/2022	3	340	450	450
5/7/2022	4	329	450	450
5/7/2022	5	322	450	350
5/7/2022	6	314	450	320
5/7/2022	7	313	450	320
5/7/2022	8	335	550	350
5/7/2022	9	360	668	450
5/7/2022	10	384	668	550
5/7/2022	11	399	668	600
5/7/2022	12	392	668	600
5/7/2022	13	399	668	600
5/7/2022	14	411	668	600
5/7/2022	15	409	668	600
5/7/2022	16	393	668	600
5/7/2022	17	376	668	600
5/7/2022	18	370	668	600
5/7/2022	19	390	668	600
5/7/2022	20	389	668	600
5/7/2022	21	390	668	600
5/7/2022	22	384	668	600
5/7/2022	23	375	668	600
5/7/2022	24	364	668	600
5/8/2022	1	371	455	453
5/8/2022	2	357	455	450
5/8/2022	3	344	455	450
5/8/2022	4	333	455	450
5/8/2022	5	324	455	450
5/8/2022	6	305	450	400
5/8/2022	7	300	420	400
5/8/2022	8	310	431	400
5/8/2022	9	326	455	400
5/8/2022	10	347	455	429
5/8/2022	11	360	455	429
5/8/2022	12	357	455	450
5/8/2022	13	363	500	455
5/8/2022	14	373	500	455
5/8/2022	15	374	500	455
5/8/2022	16	372	500	455
5/8/2022	17	360	500	455
5/8/2022	18	360	500	455
5/8/2022	19	384	500	460
5/8/2022	20	386	500	500
5/8/2022	21	390	500	500
5/8/2022	22	387	500	500
5/8/2022	23	376	500	500
5/8/2022	24	364	500	500
5/9/2022	1	348	453	450
5/9/2022	2	333	450	425
5/9/2022	3	322	400	400
5/9/2022	4	313	400	400

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/9/2022	5	307	400	400
5/9/2022	6	289	350	350
5/9/2022	7	288	350	300
5/9/2022	8	300	350	320
5/9/2022	9	314	350	350
5/9/2022	10	330	400	400
5/9/2022	11	350	400	400
5/9/2022	12	359	450	450
5/9/2022	13	367	500	450
5/9/2022	14	377	500	450
5/9/2022	15	375	500	450
5/9/2022	16	366	450	400
5/9/2022	17	356	450	400
5/9/2022	18	361	450	400
5/9/2022	19	394	500	455
5/9/2022	20	398	500	500
5/9/2022	21	400	500	500
5/9/2022	22	390	500	500
5/9/2022	23	376	500	500
5/9/2022	24	362	500	500
5/10/2022	1	367	450	450
5/10/2022	2	356	450	450
5/10/2022	3	346	450	420
5/10/2022	4	337	450	380
5/10/2022	5	333	450	350
5/10/2022	6	330	450	450
5/10/2022	7	342	550	500
5/10/2022	8	380	668	600
5/10/2022	9	416	668	600
5/10/2022	10	440	668	600
5/10/2022	11	454	668	600
5/10/2022	12	448	668	600
5/10/2022	13	452	668	600
5/10/2022	14	464	668	600
5/10/2022	15	452	668	600
5/10/2022	16	442	668	600
5/10/2022	17	419	668	600
5/10/2022	18	406	668	600
5/10/2022	19	409	668	600
5/10/2022	20	412	668	600
5/10/2022	21	411	668	600
5/10/2022	22	405	668	600
5/10/2022	23	392	668	600
5/10/2022	24	380	668	600
5/11/2022	1	374	460	450
5/11/2022	2	361	450	450
5/11/2022	3	346	450	390
5/11/2022	4	335	450	390
5/11/2022	5	332	450	390
5/11/2022	6	324	450	450
5/11/2022	7	336	550	500
5/11/2022	8	375	668	600
5/11/2022	9	411	668	600
5/11/2022	10	434	668	600
5/11/2022	11	452	668	600
5/11/2022	12	444	668	600
5/11/2022	13	452	668	600
5/11/2022	14	464	668	600
5/11/2022	15	463	668	600
5/11/2022	16	456	668	600
5/11/2022	17	430	668	600
5/11/2022	18	409	668	600
5/11/2022	19	414	668	600
5/11/2022	20	411	668	600
5/11/2022	21	423	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/11/2022	22	416	668	600
5/11/2022	23	406	668	600
5/11/2022	24	393	668	600
5/12/2022	1	374	460	450
5/12/2022	2	361	450	450
5/12/2022	3	346	450	420
5/12/2022	4	334	450	420
5/12/2022	5	331	450	414
5/12/2022	6	324	450	450
5/12/2022	7	336	550	500
5/12/2022	8	375	668	600
5/12/2022	9	412	668	600
5/12/2022	10	436	668	600
5/12/2022	11	453	668	600
5/12/2022	12	446	668	600
5/12/2022	13	453	668	600
5/12/2022	14	465	668	600
5/12/2022	15	464	668	600
5/12/2022	16	457	668	600
5/12/2022	17	432	668	600
5/12/2022	18	410	668	600
5/12/2022	19	416	668	600
5/12/2022	20	413	668	600
5/12/2022	21	416	668	600
5/12/2022	22	417	668	600
5/12/2022	23	407	668	600
5/12/2022	24	392	668	600
5/13/2022	1	378	460	450
5/13/2022	2	361	450	450
5/13/2022	3	348	450	420
5/13/2022	4	336	450	420
5/13/2022	5	331	450	420
5/13/2022	6	323	450	450
5/13/2022	7	335	550	500
5/13/2022	8	373	668	600
5/13/2022	9	407	668	600
5/13/2022	10	432	668	600
5/13/2022	11	450	668	600
5/13/2022	12	443	668	600
5/13/2022	13	451	668	600
5/13/2022	14	466	668	600
5/13/2022	15	464	668	600
5/13/2022	16	454	668	600
5/13/2022	17	422	668	600
5/13/2022	18	404	668	600
5/13/2022	19	420	668	600
5/13/2022	20	419	668	600
5/13/2022	21	421	668	600
5/13/2022	22	415	668	600
5/13/2022	23	405	668	600
5/13/2022	24	394	668	600
5/14/2022	1	374	460	455
5/14/2022	2	360	450	450
5/14/2022	3	347	450	420
5/14/2022	4	336	450	420
5/14/2022	5	328	450	420
5/14/2022	6	319	450	420
5/14/2022	7	320	450	450
5/14/2022	8	344	450	450
5/14/2022	9	370	550	500
5/14/2022	10	394	668	545
5/14/2022	11	408	668	600
5/14/2022	12	403	668	600
5/14/2022	13	409	668	600
5/14/2022	14	421	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/14/2022	15	419	668	600
5/14/2022	16	406	668	600
5/14/2022	17	387	668	600
5/14/2022	18	372	550	530
5/14/2022	19	392	550	450
5/14/2022	20	391	550	450
5/14/2022	21	402	668	450
5/14/2022	22	398	550	450
5/14/2022	23	389	550	450
5/14/2022	24	360	550	450
5/15/2022	1	372	500	500
5/15/2022	2	358	450	450
5/15/2022	3	346	450	420
5/15/2022	4	335	450	420
5/15/2022	5	325	450	414
5/15/2022	6	307	450	400
5/15/2022	7	301	550	400
5/15/2022	8	311	668	450
5/15/2022	9	327	668	450
5/15/2022	10	349	668	450
5/15/2022	11	361	668	450
5/15/2022	12	358	668	450
5/15/2022	13	364	668	450
5/15/2022	14	375	668	460
5/15/2022	15	376	668	460
5/15/2022	16	373	668	460
5/15/2022	17	361	668	500
5/15/2022	18	361	668	550
5/15/2022	19	385	668	600
5/15/2022	20	387	668	600
5/15/2022	21	392	668	600
5/15/2022	22	389	668	550
5/15/2022	23	377	668	500
5/15/2022	24	366	668	500
5/16/2022	1	341	460	455
5/16/2022	2	327	450	450
5/16/2022	3	317	450	420
5/16/2022	4	306	450	420
5/16/2022	5	300	450	420
5/16/2022	6	300	450	450
5/16/2022	7	318	550	500
5/16/2022	8	359	668	545
5/16/2022	9	395	668	600
5/16/2022	10	420	668	600
5/16/2022	11	440	668	600
5/16/2022	12	436	668	600
5/16/2022	13	442	668	600
5/16/2022	14	459	668	600
5/16/2022	15	459	668	600
5/16/2022	16	450	668	600
5/16/2022	17	424	668	600
5/16/2022	18	403	668	600
5/16/2022	19	418	668	600
5/16/2022	20	420	668	600
5/16/2022	21	421	668	600
5/16/2022	22	415	668	600
5/16/2022	23	404	668	600
5/16/2022	24	390	668	600
5/17/2022	1	333	500	455
5/17/2022	2	324	500	450
5/17/2022	3	315	450	420
5/17/2022	4	307	450	420
5/17/2022	5	306	450	420
5/17/2022	6	307	450	420
5/17/2022	7	325	550	450

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/17/2022	8	361	668	500
5/17/2022	9	399	668	600
5/17/2022	10	427	668	600
5/17/2022	11	445	668	600
5/17/2022	12	443	668	600
5/17/2022	13	447	668	600
5/17/2022	14	464	668	600
5/17/2022	15	464	668	600
5/17/2022	16	455	668	600
5/17/2022	17	429	668	600
5/17/2022	18	401	668	600
5/17/2022	19	423	668	600
5/17/2022	20	425	668	600
5/17/2022	21	427	668	600
5/17/2022	22	420	668	600
5/17/2022	23	410	668	600
5/17/2022	24	405	668	600
5/18/2022	1	353	668	600
5/18/2022	2	340	580	550
5/18/2022	3	326	450	420
5/18/2022	4	315	450	420
5/18/2022	5	313	450	420
5/18/2022	6	315	450	420
5/18/2022	7	327	550	450
5/18/2022	8	365	668	500
5/18/2022	9	400	668	600
5/18/2022	10	423	668	600
5/18/2022	11	441	668	600
5/18/2022	12	434	668	600
5/18/2022	13	440	668	600
5/18/2022	14	458	668	600
5/18/2022	15	455	668	600
5/18/2022	16	445	668	600
5/18/2022	17	420	668	600
5/18/2022	18	405	668	600
5/18/2022	19	410	668	600
5/18/2022	20	409	668	600
5/18/2022	21	413	668	600
5/18/2022	22	413	668	600
5/18/2022	23	403	668	600
5/18/2022	24	406	668	600
5/19/2022	1	337	668	600
5/19/2022	2	328	550	550
5/19/2022	3	320	450	420
5/19/2022	4	314	450	420
5/19/2022	5	311	450	420
5/19/2022	6	311	450	420
5/19/2022	7	323	550	500
5/19/2022	8	367	668	500
5/19/2022	9	405	668	600
5/19/2022	10	428	668	600
5/19/2022	11	442	668	600
5/19/2022	12	434	668	600
5/19/2022	13	438	668	600
5/19/2022	14	451	668	600
5/19/2022	15	444	668	600
5/19/2022	16	422	668	600
5/19/2022	17	406	668	600
5/19/2022	18	395	668	600
5/19/2022	19	387	668	600
5/19/2022	20	384	668	600
5/19/2022	21	386	668	600
5/19/2022	22	375	668	600
5/19/2022	23	365	668	600
5/19/2022	24	353	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/20/2022	1	335	668	600
5/20/2022	2	326	550	550
5/20/2022	3	318	450	420
5/20/2022	4	311	450	420
5/20/2022	5	317	450	420
5/20/2022	6	310	450	420
5/20/2022	7	324	550	500
5/20/2022	8	360	668	500
5/20/2022	9	390	668	600
5/20/2022	10	421	668	600
5/20/2022	11	435	668	600
5/20/2022	12	428	668	600
5/20/2022	13	432	668	600
5/20/2022	14	436	668	600
5/20/2022	15	433	668	600
5/20/2022	16	417	668	600
5/20/2022	17	402	668	600
5/20/2022	18	391	668	600
5/20/2022	19	391	668	600
5/20/2022	20	388	668	600
5/20/2022	21	381	668	600
5/20/2022	22	371	668	600
5/20/2022	23	361	668	600
5/20/2022	24	371	668	600
5/21/2022	1	333	668	600
5/21/2022	2	320	550	550
5/21/2022	3	314	450	420
5/21/2022	4	304	450	420
5/21/2022	5	299	450	420
5/21/2022	6	286	450	420
5/21/2022	7	306	450	420
5/21/2022	8	330	450	420
5/21/2022	9	353	455	450
5/21/2022	10	377	550	500
5/21/2022	11	386	668	600
5/21/2022	12	384	668	600
5/21/2022	13	389	668	600
5/21/2022	14	393	668	600
5/21/2022	15	391	668	600
5/21/2022	16	385	668	600
5/21/2022	17	369	520	500
5/21/2022	18	357	520	500
5/21/2022	19	381	668	600
5/21/2022	20	379	668	600
5/21/2022	21	384	668	600
5/21/2022	22	368	668	600
5/21/2022	23	362	668	600
5/21/2022	24	392	668	600
5/22/2022	1	349	668	600
5/22/2022	2	336	500	500
5/22/2022	3	325	460	455
5/22/2022	4	314	460	455
5/22/2022	5	305	455	450
5/22/2022	6	288	460	455
5/22/2022	7	283	550	455
5/22/2022	8	292	550	455
5/22/2022	9	307	600	455
5/22/2022	10	327	600	500
5/22/2022	11	339	600	550
5/22/2022	12	336	600	550
5/22/2022	13	342	600	600
5/22/2022	14	352	600	600
5/22/2022	15	353	600	550
5/22/2022	16	350	600	500
5/22/2022	17	339	600	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/22/2022	18	339	668	550
5/22/2022	19	362	668	600
5/22/2022	20	364	668	600
5/22/2022	21	368	668	600
5/22/2022	22	365	668	600
5/22/2022	23	354	668	550
5/22/2022	24	343	668	500
5/23/2022	1	325	450	420
5/23/2022	2	316	450	420
5/23/2022	3	307	450	420
5/23/2022	4	299	450	420
5/23/2022	5	298	450	420
5/23/2022	6	303	450	420
5/23/2022	7	321	450	420
5/23/2022	8	357	550	500
5/23/2022	9	394	600	550
5/23/2022	10	421	600	600
5/23/2022	11	437	668	600
5/23/2022	12	435	668	600
5/23/2022	13	440	668	600
5/23/2022	14	448	668	600
5/23/2022	15	426	668	600
5/23/2022	16	413	668	600
5/23/2022	17	399	668	600
5/23/2022	18	390	668	600
5/23/2022	19	392	668	600
5/23/2022	20	388	668	600
5/23/2022	21	387	668	600
5/23/2022	22	376	668	600
5/23/2022	23	364	668	600
5/23/2022	24	350	668	600
5/24/2022	1	330	450	420
5/24/2022	2	321	450	420
5/24/2022	3	313	450	420
5/24/2022	4	305	450	420
5/24/2022	5	307	450	420
5/24/2022	6	307	450	420
5/24/2022	7	317	550	500
5/24/2022	8	353	668	600
5/24/2022	9	391	668	600
5/24/2022	10	412	668	600
5/24/2022	11	425	668	600
5/24/2022	12	418	668	600
5/24/2022	13	421	668	600
5/24/2022	14	434	668	600
5/24/2022	15	427	668	600
5/24/2022	16	407	668	600
5/24/2022	17	392	668	600
5/24/2022	18	381	668	600
5/24/2022	19	374	668	600
5/24/2022	20	372	668	600
5/24/2022	21	365	668	600
5/24/2022	22	355	668	600
5/24/2022	23	352	668	600
5/24/2022	24	347	668	600
5/25/2022	1	339	450	420
5/25/2022	2	330	450	420
5/25/2022	3	321	450	420
5/25/2022	4	316	450	420
5/25/2022	5	313	450	420
5/25/2022	6	314	450	420
5/25/2022	7	325	550	500
5/25/2022	8	365	668	600
5/25/2022	9	401	668	600
5/25/2022	10	427	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/25/2022	11	439	668	600
5/25/2022	12	433	668	600
5/25/2022	13	438	668	600
5/25/2022	14	440	668	600
5/25/2022	15	424	668	600
5/25/2022	16	415	668	600
5/25/2022	17	401	668	600
5/25/2022	18	386	668	600
5/25/2022	19	382	668	600
5/25/2022	20	379	668	600
5/25/2022	21	372	668	600
5/25/2022	22	370	668	600
5/25/2022	23	357	668	600
5/25/2022	24	349	668	600
5/26/2022	1	366	450	420
5/26/2022	2	351	450	420
5/26/2022	3	338	450	420
5/26/2022	4	329	450	420
5/26/2022	5	326	450	420
5/26/2022	6	322	450	420
5/26/2022	7	324	550	500
5/26/2022	8	363	668	600
5/26/2022	9	404	668	600
5/26/2022	10	430	668	600
5/26/2022	11	442	668	600
5/26/2022	12	436	668	600
5/26/2022	13	440	668	600
5/26/2022	14	430	668	600
5/26/2022	15	414	668	600
5/26/2022	16	405	668	600
5/26/2022	17	391	668	600
5/26/2022	18	377	668	600
5/26/2022	19	380	668	600
5/26/2022	20	377	668	600
5/26/2022	21	371	668	600
5/26/2022	22	362	668	600
5/26/2022	23	348	668	600
5/26/2022	24	341	668	600
5/27/2022	1	368	450	420
5/27/2022	2	354	450	420
5/27/2022	3	341	450	420
5/27/2022	4	331	450	420
5/27/2022	5	329	450	420
5/27/2022	6	325	450	420
5/27/2022	7	339	550	500
5/27/2022	8	379	668	600
5/27/2022	9	418	668	600
5/27/2022	10	443	668	600
5/27/2022	11	458	668	600
5/27/2022	12	450	668	600
5/27/2022	13	454	668	600
5/27/2022	14	450	668	600
5/27/2022	15	439	668	600
5/27/2022	16	431	668	600
5/27/2022	17	407	668	600
5/27/2022	18	395	668	600
5/27/2022	19	403	668	600
5/27/2022	20	412	668	600
5/27/2022	21	410	668	600
5/27/2022	22	400	668	600
5/27/2022	23	387	668	600
5/27/2022	24	323	668	600
5/28/2022	1	321	450	420
5/28/2022	2	311	450	420
5/28/2022	3	299	450	350

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/28/2022	4	292	350	320
5/28/2022	5	292	350	320
5/28/2022	6	287	420	350
5/28/2022	7	296	420	350
5/28/2022	8	315	450	420
5/28/2022	9	343	450	420
5/28/2022	10	367	550	500
5/28/2022	11	383	668	600
5/28/2022	12	370	668	600
5/28/2022	13	369	668	600
5/28/2022	14	377	668	600
5/28/2022	15	377	668	600
5/28/2022	16	367	668	600
5/28/2022	17	357	520	500
5/28/2022	18	357	520	500
5/28/2022	19	363	668	600
5/28/2022	20	370	668	600
5/28/2022	21	369	668	600
5/28/2022	22	359	668	600
5/28/2022	23	346	668	600
5/28/2022	24	338	668	600
5/29/2022	1	350	668	500
5/29/2022	2	337	500	455
5/29/2022	3	326	455	450
5/29/2022	4	315	455	450
5/29/2022	5	306	400	400
5/29/2022	6	289	400	400
5/29/2022	7	283	450	400
5/29/2022	8	293	500	450
5/29/2022	9	308	550	450
5/29/2022	10	328	600	455
5/29/2022	11	340	600	455
5/29/2022	12	337	600	455
5/29/2022	13	343	600	455
5/29/2022	14	353	600	455
5/29/2022	15	354	600	455
5/29/2022	16	351	600	455
5/29/2022	17	340	600	455
5/29/2022	18	340	600	455
5/29/2022	19	363	668	455
5/29/2022	20	365	668	500
5/29/2022	21	369	668	550
5/29/2022	22	366	668	500
5/29/2022	23	355	668	455
5/29/2022	24	344	668	455
5/30/2022	1	323	450	420
5/30/2022	2	312	450	420
5/30/2022	3	303	450	420
5/30/2022	4	296	420	390
5/30/2022	5	300	420	382
5/30/2022	6	304	450	420
5/30/2022	7	322	450	420
5/30/2022	8	365	550	500
5/30/2022	9	400	668	600
5/30/2022	10	429	668	600
5/30/2022	11	446	668	600
5/30/2022	12	440	668	600
5/30/2022	13	445	668	600
5/30/2022	14	457	668	600
5/30/2022	15	445	668	600
5/30/2022	16	432	668	600
5/30/2022	17	413	668	600
5/30/2022	18	406	668	600
5/30/2022	19	412	668	600
5/30/2022	20	406	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/30/2022	21	404	668	600
5/30/2022	22	392	668	600
5/30/2022	23	377	668	600
5/30/2022	24	365	668	600
5/31/2022	1	339	668	600
5/31/2022	2	330	550	500
5/31/2022	3	319	450	420
5/31/2022	4	310	450	420
5/31/2022	5	313	450	420
5/31/2022	6	310	450	420
5/31/2022	7	325	500	450
5/31/2022	8	366	550	550
5/31/2022	9	398	668	600
5/31/2022	10	422	668	600
5/31/2022	11	436	668	600
5/31/2022	12	430	668	600
5/31/2022	13	434	668	600
5/31/2022	14	450	668	600
5/31/2022	15	450	668	600
5/31/2022	16	442	668	600
5/31/2022	17	419	668	600
5/31/2022	18	395	668	600
5/31/2022	19	416	668	600
5/31/2022	20	414	668	600
5/31/2022	21	416	668	600
5/31/2022	22	408	668	600
5/31/2022	23	397	668	600
5/31/2022	24	382	668	600
6/1/2022	1	368	668	600
6/1/2022	2	353	668	600
6/1/2022	3	340	550	500
6/1/2022	4	330	460	455
6/1/2022	5	328	460	455
6/1/2022	6	324	460	455
6/1/2022	7	333	500	500
6/1/2022	8	373	550	500
6/1/2022	9	407	668	600
6/1/2022	10	430	668	600
6/1/2022	11	444	668	600
6/1/2022	12	436	668	600
6/1/2022	13	440	668	600
6/1/2022	14	449	668	600
6/1/2022	15	438	668	600
6/1/2022	16	431	668	600
6/1/2022	17	409	668	600
6/1/2022	18	397	668	600
6/1/2022	19	405	668	600
6/1/2022	20	405	668	600
6/1/2022	21	404	668	600
6/1/2022	22	394	668	600
6/1/2022	23	381	668	600
6/1/2022	24	376	668	600
6/2/2022	1	348	668	600
6/2/2022	2	334	668	600
6/2/2022	3	323	550	500
6/2/2022	4	316	455	450
6/2/2022	5	316	455	450
6/2/2022	6	315	455	450
6/2/2022	7	327	500	500
6/2/2022	8	365	550	500
6/2/2022	9	399	668	600
6/2/2022	10	422	668	600
6/2/2022	11	434	668	600
6/2/2022	12	426	668	600
6/2/2022	13	424	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/2/2022	14	438	668	600
6/2/2022	15	437	668	600
6/2/2022	16	427	668	600
6/2/2022	17	409	668	600
6/2/2022	18	395	668	600
6/2/2022	19	404	668	600
6/2/2022	20	403	668	600
6/2/2022	21	400	668	600
6/2/2022	22	392	668	600
6/2/2022	23	381	668	600
6/2/2022	24	368	668	600
6/3/2022	1	346	668	600
6/3/2022	2	332	668	600
6/3/2022	3	322	550	500
6/3/2022	4	316	455	450
6/3/2022	5	316	455	450
6/3/2022	6	315	455	450
6/3/2022	7	326	500	455
6/3/2022	8	361	550	500
6/3/2022	9	391	668	600
6/3/2022	10	415	668	600
6/3/2022	11	424	668	600
6/3/2022	12	416	668	600
6/3/2022	13	415	668	600
6/3/2022	14	423	668	600
6/3/2022	15	414	668	600
6/3/2022	16	404	668	600
6/3/2022	17	388	668	600
6/3/2022	18	379	668	600
6/3/2022	19	385	668	600
6/3/2022	20	383	668	600
6/3/2022	21	377	668	600
6/3/2022	22	365	668	600
6/3/2022	23	350	668	600
6/3/2022	24	334	668	600
6/4/2022	1	363	668	600
6/4/2022	2	350	668	600
6/4/2022	3	339	550	500
6/4/2022	4	330	455	450
6/4/2022	5	322	455	450
6/4/2022	6	314	455	450
6/4/2022	7	314	455	450
6/4/2022	8	335	455	450
6/4/2022	9	360	460	455
6/4/2022	10	380	600	550
6/4/2022	11	393	668	600
6/4/2022	12	386	668	600
6/4/2022	13	387	668	600
6/4/2022	14	397	668	600
6/4/2022	15	393	668	600
6/4/2022	16	379	668	600
6/4/2022	17	368	668	600
6/4/2022	18	366	668	600
6/4/2022	19	383	668	600
6/4/2022	20	383	668	600
6/4/2022	21	384	668	600
6/4/2022	22	377	668	600
6/4/2022	23	366	668	600
6/4/2022	24	356	668	600
6/5/2022	1	341	668	600
6/5/2022	2	331	600	550
6/5/2022	3	321	550	500
6/5/2022	4	312	500	455
6/5/2022	5	305	500	455
6/5/2022	6	294	500	455

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/5/2022	7	299	500	455
6/5/2022	8	314	500	455
6/5/2022	9	335	552	455
6/5/2022	10	353	600	494
6/5/2022	11	365	668	600
6/5/2022	12	361	668	600
6/5/2022	13	363	668	600
6/5/2022	14	368	668	600
6/5/2022	15	369	668	600
6/5/2022	16	366	668	600
6/5/2022	17	360	668	600
6/5/2022	18	359	668	600
6/5/2022	19	383	668	600
6/5/2022	20	385	668	600
6/5/2022	21	387	668	600
6/5/2022	22	384	668	600
6/5/2022	23	373	668	600
6/5/2022	24	362	668	600
6/6/2022	1	335	480	460
6/6/2022	2	324	480	460
6/6/2022	3	311	480	460
6/6/2022	4	303	480	460
6/6/2022	5	302	480	460
6/6/2022	6	305	480	460
6/6/2022	7	323	550	500
6/6/2022	8	363	668	600
6/6/2022	9	399	668	600
6/6/2022	10	426	668	600
6/6/2022	11	438	668	600
6/6/2022	12	433	668	600
6/6/2022	13	439	668	600
6/6/2022	14	453	668	600
6/6/2022	15	454	668	600
6/6/2022	16	440	668	600
6/6/2022	17	412	668	600
6/6/2022	18	396	668	600
6/6/2022	19	409	668	600
6/6/2022	20	413	668	600
6/6/2022	21	412	668	600
6/6/2022	22	404	668	600
6/6/2022	23	393	668	600
6/6/2022	24	378	668	600
6/7/2022	1	364	668	600
6/7/2022	2	345	550	500
6/7/2022	3	333	480	460
6/7/2022	4	324	480	460
6/7/2022	5	324	480	460
6/7/2022	6	318	480	460
6/7/2022	7	330	550	500
6/7/2022	8	367	668	600
6/7/2022	9	398	668	600
6/7/2022	10	421	668	600
6/7/2022	11	435	668	600
6/7/2022	12	430	668	600
6/7/2022	13	434	668	600
6/7/2022	14	451	668	600
6/7/2022	15	450	668	600
6/7/2022	16	442	668	600
6/7/2022	17	419	668	600
6/7/2022	18	402	668	600
6/7/2022	19	416	668	600
6/7/2022	20	414	668	600
6/7/2022	21	416	668	600
6/7/2022	22	408	668	600
6/7/2022	23	397	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/7/2022	24	381	668	600
6/8/2022	1	345	668	600
6/8/2022	2	333	550	500
6/8/2022	3	322	480	460
6/8/2022	4	312	480	460
6/8/2022	5	311	480	460
6/8/2022	6	310	480	460
6/8/2022	7	330	550	500
6/8/2022	8	370	668	600
6/8/2022	9	408	668	600
6/8/2022	10	434	668	600
6/8/2022	11	446	668	600
6/8/2022	12	441	668	600
6/8/2022	13	444	668	600
6/8/2022	14	457	668	600
6/8/2022	15	452	668	600
6/8/2022	16	442	668	600
6/8/2022	17	418	668	600
6/8/2022	18	406	668	600
6/8/2022	19	418	668	600
6/8/2022	20	419	668	600
6/8/2022	21	419	668	600
6/8/2022	22	407	668	600
6/8/2022	23	395	668	600
6/8/2022	24	376	668	600
6/9/2022	1	358	668	600
6/9/2022	2	344	550	500
6/9/2022	3	334	480	460
6/9/2022	4	325	480	460
6/9/2022	5	324	480	460
6/9/2022	6	318	480	460
6/9/2022	7	330	550	500
6/9/2022	8	370	668	600
6/9/2022	9	406	668	600
6/9/2022	10	427	668	600
6/9/2022	11	441	668	600
6/9/2022	12	436	668	600
6/9/2022	13	440	668	600
6/9/2022	14	452	668	600
6/9/2022	15	450	668	600
6/9/2022	16	440	668	600
6/9/2022	17	422	668	600
6/9/2022	18	405	668	600
6/9/2022	19	422	668	600
6/9/2022	20	409	668	600
6/9/2022	21	408	668	600
6/9/2022	22	402	668	600
6/9/2022	23	390	668	600
6/9/2022	24	345	668	600
6/10/2022	1	356	668	600
6/10/2022	2	342	550	500
6/10/2022	3	331	480	460
6/10/2022	4	322	480	460
6/10/2022	5	322	480	460
6/10/2022	6	316	480	460
6/10/2022	7	326	550	500
6/10/2022	8	366	668	600
6/10/2022	9	401	668	600
6/10/2022	10	420	668	600
6/10/2022	11	439	668	600
6/10/2022	12	433	668	600
6/10/2022	13	438	668	600
6/10/2022	14	455	668	600
6/10/2022	15	451	668	600
6/10/2022	16	438	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/10/2022	17	405	668	600
6/10/2022	18	391	668	600
6/10/2022	19	400	668	600
6/10/2022	20	403	668	600
6/10/2022	21	401	668	600
6/10/2022	22	395	668	600
6/10/2022	23	384	668	600
6/10/2022	24	376	668	600
6/11/2022	1	377	668	600
6/11/2022	2	364	668	600
6/11/2022	3	351	668	510
6/11/2022	4	339	550	455
6/11/2022	5	333	460	455
6/11/2022	6	320	460	455
6/11/2022	7	324	460	455
6/11/2022	8	355	460	455
6/11/2022	9	379	550	510
6/11/2022	10	400	668	600
6/11/2022	11	411	668	600
6/11/2022	12	407	668	600
6/11/2022	13	413	668	600
6/11/2022	14	424	668	600
6/11/2022	15	424	668	600
6/11/2022	16	415	668	600
6/11/2022	17	395	668	600
6/11/2022	18	388	668	600
6/11/2022	19	406	668	600
6/11/2022	20	404	668	600
6/11/2022	21	406	668	600
6/11/2022	22	398	668	600
6/11/2022	23	387	668	600
6/11/2022	24	369	668	600
6/12/2022	1	361	556	556
6/12/2022	2	347	480	464
6/12/2022	3	337	480	460
6/12/2022	4	325	480	460
6/12/2022	5	317	480	460
6/12/2022	6	303	480	455
6/12/2022	7	302	480	464
6/12/2022	8	317	480	464
6/12/2022	9	335	480	464
6/12/2022	10	357	510	480
6/12/2022	11	367	600	510
6/12/2022	12	366	556	550
6/12/2022	13	372	600	550
6/12/2022	14	379	600	550
6/12/2022	15	378	600	550
6/12/2022	16	366	556	550
6/12/2022	17	358	556	550
6/12/2022	18	363	668	600
6/12/2022	19	384	668	600
6/12/2022	20	393	668	600
6/12/2022	21	394	668	600
6/12/2022	22	390	668	600
6/12/2022	23	380	668	600
6/12/2022	24	363	668	556
6/13/2022	1	345	500	464
6/13/2022	2	332	460	460
6/13/2022	3	322	460	460
6/13/2022	4	313	460	455
6/13/2022	5	311	460	455
6/13/2022	6	311	460	455
6/13/2022	7	331	460	455
6/13/2022	8	371	550	510
6/13/2022	9	410	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/13/2022	10	437	668	600
6/13/2022	11	450	668	600
6/13/2022	12	445	668	600
6/13/2022	13	448	668	600
6/13/2022	14	462	668	600
6/13/2022	15	456	668	600
6/13/2022	16	446	668	600
6/13/2022	17	421	668	600
6/13/2022	18	407	668	600
6/13/2022	19	420	668	600
6/13/2022	20	422	668	600
6/13/2022	21	421	668	600
6/13/2022	22	408	668	600
6/13/2022	23	395	668	600
6/13/2022	24	379	668	600
6/14/2022	1	367	668	600
6/14/2022	2	355	550	510
6/14/2022	3	346	460	460
6/14/2022	4	337	460	460
6/14/2022	5	333	460	460
6/14/2022	6	329	460	460
6/14/2022	7	340	460	460
6/14/2022	8	380	550	510
6/14/2022	9	413	668	600
6/14/2022	10	430	668	600
6/14/2022	11	445	668	600
6/14/2022	12	444	668	600
6/14/2022	13	448	668	600
6/14/2022	14	459	668	600
6/14/2022	15	449	668	600
6/14/2022	16	450	668	600
6/14/2022	17	424	668	600
6/14/2022	18	407	668	600
6/14/2022	19	418	668	600
6/14/2022	20	424	668	600
6/14/2022	21	425	668	600
6/14/2022	22	418	668	600
6/14/2022	23	405	668	600
6/14/2022	24	390	668	600
6/15/2022	1	358	668	600
6/15/2022	2	345	550	510
6/15/2022	3	335	460	460
6/15/2022	4	327	460	460
6/15/2022	5	324	460	460
6/15/2022	6	322	460	460
6/15/2022	7	335	460	460
6/15/2022	8	376	550	510
6/15/2022	9	410	668	600
6/15/2022	10	432	668	600
6/15/2022	11	445	668	600
6/15/2022	12	442	668	600
6/15/2022	13	447	668	600
6/15/2022	14	461	668	600
6/15/2022	15	455	668	600
6/15/2022	16	448	668	600
6/15/2022	17	421	668	600
6/15/2022	18	407	668	600
6/15/2022	19	417	668	600
6/15/2022	20	419	668	600
6/15/2022	21	421	668	600
6/15/2022	22	413	668	600
6/15/2022	23	401	668	600
6/15/2022	24	374	668	600
6/16/2022	1	363	668	600
6/16/2022	2	350	550	510

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/16/2022	3	338	460	427
6/16/2022	4	315	460	427
6/16/2022	5	315	460	427
6/16/2022	6	315	460	427
6/16/2022	7	339	460	427
6/16/2022	8	375	550	510
6/16/2022	9	408	668	600
6/16/2022	10	426	668	600
6/16/2022	11	424	668	600
6/16/2022	12	424	668	600
6/16/2022	13	439	668	600
6/16/2022	14	452	668	600
6/16/2022	15	445	668	600
6/16/2022	16	395	668	600
6/16/2022	17	413	668	600
6/16/2022	18	397	668	600
6/16/2022	19	406	668	600
6/16/2022	20	409	668	600
6/16/2022	21	411	668	600
6/16/2022	22	402	668	600
6/16/2022	23	390	668	600
6/16/2022	24	354	668	600
6/17/2022	1	367	668	600
6/17/2022	2	353	550	510
6/17/2022	3	341	460	427
6/17/2022	4	332	460	427
6/17/2022	5	329	460	427
6/17/2022	6	325	460	427
6/17/2022	7	338	460	427
6/17/2022	8	373	550	510
6/17/2022	9	405	668	600
6/17/2022	10	427	668	600
6/17/2022	11	439	668	600
6/17/2022	12	437	668	600
6/17/2022	13	444	668	600
6/17/2022	14	462	668	600
6/17/2022	15	457	668	600
6/17/2022	16	450	668	600
6/17/2022	17	419	668	600
6/17/2022	18	403	668	600
6/17/2022	19	419	668	600
6/17/2022	20	421	668	600
6/17/2022	21	420	668	600
6/17/2022	22	412	668	600
6/17/2022	23	398	668	600
6/17/2022	24	388	668	600
6/18/2022	1	374	668	600
6/18/2022	2	362	600	600
6/18/2022	3	352	510	510
6/18/2022	4	339	460	460
6/18/2022	5	334	460	460
6/18/2022	6	320	460	460
6/18/2022	7	321	460	460
6/18/2022	8	346	550	460
6/18/2022	9	374	668	460
6/18/2022	10	398	668	510
6/18/2022	11	411	668	600
6/18/2022	12	405	668	600
6/18/2022	13	410	668	600
6/18/2022	14	421	668	600
6/18/2022	15	414	668	600
6/18/2022	16	399	668	600
6/18/2022	17	384	668	600
6/18/2022	18	380	668	600
6/18/2022	19	399	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/18/2022	20	404	668	600
6/18/2022	21	409	668	600
6/18/2022	22	403	668	600
6/18/2022	23	394	668	600
6/18/2022	24	381	668	600
6/19/2022	1	345	556	480
6/19/2022	2	335	480	464
6/19/2022	3	326	480	460
6/19/2022	4	316	480	425
6/19/2022	5	309	480	455
6/19/2022	6	297	480	433
6/19/2022	7	303	480	404
6/19/2022	8	318	480	455
6/19/2022	9	339	500	460
6/19/2022	10	357	550	464
6/19/2022	11	369	600	510
6/19/2022	12	366	550	510
6/19/2022	13	368	556	550
6/19/2022	14	373	556	510
6/19/2022	15	374	574	556
6/19/2022	16	370	600	556
6/19/2022	17	364	600	556
6/19/2022	18	363	600	600
6/19/2022	19	388	668	600
6/19/2022	20	390	668	600
6/19/2022	21	392	668	600
6/19/2022	22	389	668	600
6/19/2022	23	377	600	600
6/19/2022	24	366	619	600
6/20/2022	1	340	550	510
6/20/2022	2	328	460	460
6/20/2022	3	319	460	460
6/20/2022	4	311	460	460
6/20/2022	5	309	460	460
6/20/2022	6	309	460	460
6/20/2022	7	327	550	510
6/20/2022	8	370	668	600
6/20/2022	9	407	668	600
6/20/2022	10	431	668	600
6/20/2022	11	444	668	600
6/20/2022	12	439	668	600
6/20/2022	13	446	668	600
6/20/2022	14	462	668	600
6/20/2022	15	461	668	600
6/20/2022	16	450	668	600
6/20/2022	17	418	668	600
6/20/2022	18	406	668	600
6/20/2022	19	414	668	600
6/20/2022	20	418	668	600
6/20/2022	21	421	668	600
6/20/2022	22	412	668	600
6/20/2022	23	396	668	600
6/20/2022	24	378	668	600
6/21/2022	1	365	668	600
6/21/2022	2	352	668	600
6/21/2022	3	341	668	600
6/21/2022	4	330	668	600
6/21/2022	5	329	668	600
6/21/2022	6	327	668	556
6/21/2022	7	340	668	556
6/21/2022	8	379	668	600
6/21/2022	9	415	668	600
6/21/2022	10	453	668	600
6/21/2022	11	441	668	600
6/21/2022	12	455	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/21/2022	13	447	668	600
6/21/2022	14	454	668	600
6/21/2022	15	440	668	600
6/21/2022	16	429	668	600
6/21/2022	17	411	668	600
6/21/2022	18	399	668	600
6/21/2022	19	404	668	600
6/21/2022	20	404	668	600
6/21/2022	21	406	668	600
6/21/2022	22	395	668	600
6/21/2022	23	382	668	600
6/21/2022	24	382	668	600
6/22/2022	1	358	668	600
6/22/2022	2	348	668	600
6/22/2022	3	337	668	600
6/22/2022	4	327	668	600
6/22/2022	5	326	668	600
6/22/2022	6	321	668	600
6/22/2022	7	337	668	600
6/22/2022	8	375	668	600
6/22/2022	9	407	668	600
6/22/2022	10	430	668	600
6/22/2022	11	438	668	600
6/22/2022	12	436	668	600
6/22/2022	13	440	668	600
6/22/2022	14	446	668	600
6/22/2022	15	436	668	600
6/22/2022	16	423	668	600
6/22/2022	17	407	668	600
6/22/2022	18	396	668	600
6/22/2022	19	396	668	600
6/22/2022	20	397	668	600
6/22/2022	21	396	668	600
6/22/2022	22	395	668	600
6/22/2022	23	382	668	600
6/22/2022	24	376	668	600
6/23/2022	1	351	668	600
6/23/2022	2	338	668	600
6/23/2022	3	328	668	600
6/23/2022	4	321	668	600
6/23/2022	5	320	668	600
6/23/2022	6	317	668	600
6/23/2022	7	331	668	600
6/23/2022	8	369	668	600
6/23/2022	9	403	668	600
6/23/2022	10	427	668	600
6/23/2022	11	441	668	600
6/23/2022	12	433	668	600
6/23/2022	13	439	668	600
6/23/2022	14	443	668	600
6/23/2022	15	440	668	600
6/23/2022	16	439	668	600
6/23/2022	17	420	668	600
6/23/2022	18	405	668	600
6/23/2022	19	418	668	600
6/23/2022	20	411	668	600
6/23/2022	21	413	668	600
6/23/2022	22	405	668	600
6/23/2022	23	394	668	600
6/23/2022	24	380	668	600
6/24/2022	1	350	668	600
6/24/2022	2	337	668	600
6/24/2022	3	326	668	600
6/24/2022	4	317	668	600
6/24/2022	5	315	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/24/2022	6	311	668	600
6/24/2022	7	324	668	600
6/24/2022	8	361	668	600
6/24/2022	9	394	668	600
6/24/2022	10	415	668	600
6/24/2022	11	431	668	600
6/24/2022	12	422	668	600
6/24/2022	13	426	668	600
6/24/2022	14	433	668	600
6/24/2022	15	440	668	600
6/24/2022	16	431	668	600
6/24/2022	17	405	668	600
6/24/2022	18	388	668	600
6/24/2022	19	400	668	600
6/24/2022	20	402	668	600
6/24/2022	21	401	668	600
6/24/2022	22	393	668	600
6/24/2022	23	381	668	600
6/24/2022	24	369	668	600
6/25/2022	1	352	668	600
6/25/2022	2	341	580	510
6/25/2022	3	331	580	510
6/25/2022	4	323	580	510
6/25/2022	5	320	580	510
6/25/2022	6	319	580	510
6/25/2022	7	328	580	510
6/25/2022	8	339	580	510
6/25/2022	9	367	580	510
6/25/2022	10	390	668	600
6/25/2022	11	403	668	600
6/25/2022	12	397	668	600
6/25/2022	13	402	668	600
6/25/2022	14	412	668	600
6/25/2022	15	405	668	600
6/25/2022	16	391	668	600
6/25/2022	17	376	668	600
6/25/2022	18	365	668	600
6/25/2022	19	391	668	600
6/25/2022	20	396	668	600
6/25/2022	21	400	668	600
6/25/2022	22	395	668	600
6/25/2022	23	386	668	600
6/25/2022	24	367	668	600
6/26/2022	1	351	668	600
6/26/2022	2	341	614	600
6/26/2022	3	328	600	600
6/26/2022	4	320	600	600
6/26/2022	5	312	600	579
6/26/2022	6	300	556	548
6/26/2022	7	300	548	510
6/26/2022	8	313	556	548
6/26/2022	9	331	600	561
6/26/2022	10	353	600	600
6/26/2022	11	366	600	600
6/26/2022	12	363	668	600
6/26/2022	13	370	668	600
6/26/2022	14	381	668	600
6/26/2022	15	374	668	600
6/26/2022	16	354	668	600
6/26/2022	17	346	668	600
6/26/2022	18	351	668	600
6/26/2022	19	365	668	600
6/26/2022	20	369	668	600
6/26/2022	21	372	668	600
6/26/2022	22	370	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/26/2022	23	359	668	600
6/26/2022	24	347	668	600
6/27/2022	1	336	580	510
6/27/2022	2	324	580	510
6/27/2022	3	313	580	510
6/27/2022	4	306	580	510
6/27/2022	5	305	580	510
6/27/2022	6	307	580	510
6/27/2022	7	328	580	510
6/27/2022	8	366	668	600
6/27/2022	9	404	668	600
6/27/2022	10	429	668	600
6/27/2022	11	443	668	600
6/27/2022	12	439	668	600
6/27/2022	13	441	668	600
6/27/2022	14	455	668	600
6/27/2022	15	451	668	600
6/27/2022	16	447	668	600
6/27/2022	17	423	668	600
6/27/2022	18	405	668	600
6/27/2022	19	418	668	600
6/27/2022	20	416	668	600
6/27/2022	21	414	668	600
6/27/2022	22	407	668	600
6/27/2022	23	393	668	600
6/27/2022	24	377	668	600
6/28/2022	1	345	580	510
6/28/2022	2	334	580	510
6/28/2022	3	321	580	510
6/28/2022	4	312	580	510
6/28/2022	5	310	580	510
6/28/2022	6	307	580	510
6/28/2022	7	320	580	510
6/28/2022	8	356	668	600
6/28/2022	9	387	668	600
6/28/2022	10	410	668	600
6/28/2022	11	416	668	600
6/28/2022	12	412	668	600
6/28/2022	13	415	668	600
6/28/2022	14	428	668	600
6/28/2022	15	429	668	600
6/28/2022	16	423	668	600
6/28/2022	17	403	668	600
6/28/2022	18	385	668	600
6/28/2022	19	392	668	600
6/28/2022	20	391	668	600
6/28/2022	21	390	668	600
6/28/2022	22	381	668	600
6/28/2022	23	367	668	600
6/28/2022	24	370	668	600
6/29/2022	1	347	580	510
6/29/2022	2	336	580	510
6/29/2022	3	328	550	464
6/29/2022	4	320	550	464
6/29/2022	5	318	550	464
6/29/2022	6	316	550	464
6/29/2022	7	330	580	510
6/29/2022	8	369	668	600
6/29/2022	9	404	668	600
6/29/2022	10	428	668	600
6/29/2022	11	437	668	600
6/29/2022	12	431	668	600
6/29/2022	13	435	668	600
6/29/2022	14	444	668	600
6/29/2022	15	433	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/29/2022	16	421	668	600
6/29/2022	17	404	668	600
6/29/2022	18	391	668	600
6/29/2022	19	400	668	600
6/29/2022	20	399	668	600
6/29/2022	21	395	668	600
6/29/2022	22	385	668	600
6/29/2022	23	372	668	600
6/29/2022	24	365	668	600
6/30/2022	1	333	580	510
6/30/2022	2	319	580	510
6/30/2022	3	308	550	464
6/30/2022	4	300	550	464
6/30/2022	5	298	550	464
6/30/2022	6	295	550	464
6/30/2022	7	308	580	510
6/30/2022	8	342	668	600
6/30/2022	9	373	668	600
6/30/2022	10	397	668	600
6/30/2022	11	409	668	600
6/30/2022	12	404	668	600
6/30/2022	13	409	668	600
6/30/2022	14	423	668	600
6/30/2022	15	417	668	600
6/30/2022	16	405	668	600
6/30/2022	17	385	668	600
6/30/2022	18	371	668	600
6/30/2022	19	381	668	600
6/30/2022	20	378	668	600
6/30/2022	21	381	668	600
6/30/2022	22	373	668	600
6/30/2022	23	364	668	600
6/30/2022	24	366	668	600
7/1/2022	1	347	580	510
7/1/2022	2	337	580	510
7/1/2022	3	326	550	464
7/1/2022	4	318	550	464
7/1/2022	5	316	550	464
7/1/2022	6	313	550	464
7/1/2022	7	327	580	510
7/1/2022	8	357	668	600
7/1/2022	9	390	668	600
7/1/2022	10	413	668	600
7/1/2022	11	422	668	600
7/1/2022	12	415	668	600
7/1/2022	13	414	668	600
7/1/2022	14	427	668	600
7/1/2022	15	424	668	600
7/1/2022	16	418	668	600
7/1/2022	17	401	668	600
7/1/2022	18	390	668	600
7/1/2022	19	405	668	600
7/1/2022	20	406	668	600
7/1/2022	21	405	668	600
7/1/2022	22	395	668	600
7/1/2022	23	382	668	600
7/1/2022	24	367	668	600
7/2/2022	1	329	580	510
7/2/2022	2	318	580	510
7/2/2022	3	310	550	464
7/2/2022	4	304	550	464
7/2/2022	5	302	550	464
7/2/2022	6	302	550	464
7/2/2022	7	312	580	510
7/2/2022	8	330	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/2/2022	9	356	668	600
7/2/2022	10	377	668	600
7/2/2022	11	384	668	600
7/2/2022	12	378	668	600
7/2/2022	13	381	668	600
7/2/2022	14	383	668	600
7/2/2022	15	379	668	600
7/2/2022	16	369	668	600
7/2/2022	17	360	668	600
7/2/2022	18	354	668	600
7/2/2022	19	373	668	600
7/2/2022	20	375	668	600
7/2/2022	21	374	668	600
7/2/2022	22	366	668	600
7/2/2022	23	354	668	600
7/2/2022	24	344	668	600
7/3/2022	1	339	600	556
7/3/2022	2	329	600	556
7/3/2022	3	317	600	556
7/3/2022	4	310	600	556
7/3/2022	5	302	600	556
7/3/2022	6	290	600	600
7/3/2022	7	290	600	600
7/3/2022	8	303	600	600
7/3/2022	9	320	600	600
7/3/2022	10	341	600	600
7/3/2022	11	353	600	600
7/3/2022	12	351	600	600
7/3/2022	13	358	600	600
7/3/2022	14	369	600	600
7/3/2022	15	361	600	600
7/3/2022	16	342	600	600
7/3/2022	17	335	600	600
7/3/2022	18	339	600	600
7/3/2022	19	353	600	600
7/3/2022	20	356	600	600
7/3/2022	21	360	600	600
7/3/2022	22	358	600	600
7/3/2022	23	347	600	556
7/3/2022	24	335	600	556
7/4/2022	1	315	580	510
7/4/2022	2	304	580	510
7/4/2022	3	295	550	464
7/4/2022	4	290	550	464
7/4/2022	5	291	550	464
7/4/2022	6	296	550	464
7/4/2022	7	311	580	510
7/4/2022	8	346	668	600
7/4/2022	9	378	668	600
7/4/2022	10	400	668	600
7/4/2022	11	415	668	600
7/4/2022	12	409	668	600
7/4/2022	13	407	668	600
7/4/2022	14	422	668	600
7/4/2022	15	412	668	600
7/4/2022	16	403	668	600
7/4/2022	17	386	668	600
7/4/2022	18	376	668	600
7/4/2022	19	386	668	600
7/4/2022	20	388	668	600
7/4/2022	21	385	668	600
7/4/2022	22	374	668	600
7/4/2022	23	362	668	600
7/4/2022	24	347	668	600
7/5/2022	1	350	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/5/2022	2	340	668	510
7/5/2022	3	328	550	510
7/5/2022	4	320	550	464
7/5/2022	5	319	550	464
7/5/2022	6	320	550	464
7/5/2022	7	336	580	510
7/5/2022	8	371	668	600
7/5/2022	9	406	668	600
7/5/2022	10	429	668	600
7/5/2022	11	436	668	600
7/5/2022	12	431	668	600
7/5/2022	13	434	668	600
7/5/2022	14	434	668	600
7/5/2022	15	433	668	600
7/5/2022	16	427	668	600
7/5/2022	17	416	668	600
7/5/2022	18	398	668	600
7/5/2022	19	398	668	600
7/5/2022	20	397	668	600
7/5/2022	21	395	668	600
7/5/2022	22	394	668	600
7/5/2022	23	381	668	600
7/5/2022	24	353	668	600
7/6/2022	1	341	600	600
7/6/2022	2	331	550	510
7/6/2022	3	322	550	510
7/6/2022	4	313	550	464
7/6/2022	5	310	550	464
7/6/2022	6	310	550	464
7/6/2022	7	320	550	510
7/6/2022	8	349	668	600
7/6/2022	9	381	668	600
7/6/2022	10	407	668	600
7/6/2022	11	426	668	600
7/6/2022	12	412	668	600
7/6/2022	13	417	668	600
7/6/2022	14	424	668	600
7/6/2022	15	423	668	600
7/6/2022	16	420	668	600
7/6/2022	17	401	668	600
7/6/2022	18	381	668	600
7/6/2022	19	376	668	600
7/6/2022	20	377	668	600
7/6/2022	21	372	668	600
7/6/2022	22	364	668	600
7/6/2022	23	354	668	600
7/6/2022	24	354	668	600
7/7/2022	1	329	668	600
7/7/2022	2	319	550	510
7/7/2022	3	310	550	510
7/7/2022	4	304	500	464
7/7/2022	5	305	500	464
7/7/2022	6	305	500	464
7/7/2022	7	318	550	510
7/7/2022	8	350	668	600
7/7/2022	9	381	668	600
7/7/2022	10	402	668	600
7/7/2022	11	422	668	600
7/7/2022	12	410	668	600
7/7/2022	13	420	668	600
7/7/2022	14	428	668	600
7/7/2022	15	423	668	600
7/7/2022	16	412	668	600
7/7/2022	17	394	668	600
7/7/2022	18	383	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/7/2022	19	396	668	600
7/7/2022	20	395	668	600
7/7/2022	21	393	668	600
7/7/2022	22	383	668	600
7/7/2022	23	370	668	600
7/7/2022	24	350	668	600
7/8/2022	1	345	668	600
7/8/2022	2	334	550	510
7/8/2022	3	322	500	464
7/8/2022	4	311	500	464
7/8/2022	5	309	500	464
7/8/2022	6	309	500	464
7/8/2022	7	319	550	510
7/8/2022	8	345	668	600
7/8/2022	9	376	668	600
7/8/2022	10	397	668	600
7/8/2022	11	412	668	600
7/8/2022	12	405	668	600
7/8/2022	13	410	668	600
7/8/2022	14	423	668	600
7/8/2022	15	417	668	600
7/8/2022	16	406	668	600
7/8/2022	17	389	668	600
7/8/2022	18	378	668	600
7/8/2022	19	391	668	600
7/8/2022	20	390	668	600
7/8/2022	21	388	668	600
7/8/2022	22	377	668	600
7/8/2022	23	365	668	600
7/8/2022	24	353	668	600
7/9/2022	1	331	668	600
7/9/2022	2	319	550	510
7/9/2022	3	309	500	464
7/9/2022	4	303	500	464
7/9/2022	5	298	500	464
7/9/2022	6	291	500	464
7/9/2022	7	295	550	464
7/9/2022	8	319	668	464
7/9/2022	9	344	668	510
7/9/2022	10	362	668	510
7/9/2022	11	373	668	600
7/9/2022	12	367	668	600
7/9/2022	13	369	668	600
7/9/2022	14	378	668	600
7/9/2022	15	375	668	600
7/9/2022	16	368	668	600
7/9/2022	17	359	668	600
7/9/2022	18	355	668	600
7/9/2022	19	376	668	600
7/9/2022	20	378	668	600
7/9/2022	21	377	668	600
7/9/2022	22	369	668	600
7/9/2022	23	357	668	600
7/9/2022	24	350	668	600
7/10/2022	1	325	668	600
7/10/2022	2	314	668	600
7/10/2022	3	303	600	600
7/10/2022	4	293	600	566
7/10/2022	5	287	600	566
7/10/2022	6	278	600	556
7/10/2022	7	275	600	556
7/10/2022	8	288	600	556
7/10/2022	9	302	600	556
7/10/2022	10	319	600	600
7/10/2022	11	329	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/10/2022	12	330	668	600
7/10/2022	13	334	668	600
7/10/2022	14	340	668	600
7/10/2022	15	339	668	600
7/10/2022	16	334	668	600
7/10/2022	17	327	668	600
7/10/2022	18	337	668	600
7/10/2022	19	357	668	600
7/10/2022	20	362	668	600
7/10/2022	21	369	668	600
7/10/2022	22	364	668	600
7/10/2022	23	353	668	600
7/10/2022	24	338	668	600
7/11/2022	1	321	668	600
7/11/2022	2	310	550	510
7/11/2022	3	300	500	464
7/11/2022	4	291	500	464
7/11/2022	5	291	500	464
7/11/2022	6	292	500	464
7/11/2022	7	307	550	510
7/11/2022	8	338	668	600
7/11/2022	9	372	668	600
7/11/2022	10	394	668	600
7/11/2022	11	411	668	600
7/11/2022	12	409	668	600
7/11/2022	13	412	668	600
7/11/2022	14	423	668	600
7/11/2022	15	417	668	600
7/11/2022	16	394	668	600
7/11/2022	17	373	668	600
7/11/2022	18	362	668	600
7/11/2022	19	370	668	600
7/11/2022	20	369	668	600
7/11/2022	21	368	668	600
7/11/2022	22	357	668	600
7/11/2022	23	342	668	600
7/11/2022	24	330	668	600
7/12/2022	1	339	668	600
7/12/2022	2	329	550	510
7/12/2022	3	321	500	464
7/12/2022	4	314	500	464
7/12/2022	5	316	500	464
7/12/2022	6	310	500	464
7/12/2022	7	327	550	510
7/12/2022	8	361	668	600
7/12/2022	9	393	668	600
7/12/2022	10	411	668	600
7/12/2022	11	430	668	600
7/12/2022	12	424	668	600
7/12/2022	13	423	668	600
7/12/2022	14	433	668	600
7/12/2022	15	429	668	600
7/12/2022	16	420	668	600
7/12/2022	17	404	668	600
7/12/2022	18	391	668	600
7/12/2022	19	400	668	600
7/12/2022	20	400	668	600
7/12/2022	21	393	668	600
7/12/2022	22	374	668	600
7/12/2022	23	359	668	600
7/12/2022	24	339	668	600
7/13/2022	1	341	668	600
7/13/2022	2	331	550	510
7/13/2022	3	323	500	464
7/13/2022	4	316	500	464

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/13/2022	5	305	500	464
7/13/2022	6	307	500	464
7/13/2022	7	320	550	510
7/13/2022	8	356	668	600
7/13/2022	9	391	668	600
7/13/2022	10	419	668	600
7/13/2022	11	434	668	600
7/13/2022	12	428	668	600
7/13/2022	13	432	668	600
7/13/2022	14	427	668	600
7/13/2022	15	414	668	600
7/13/2022	16	411	668	600
7/13/2022	17	396	668	600
7/13/2022	18	385	668	600
7/13/2022	19	399	668	600
7/13/2022	20	398	668	600
7/13/2022	21	387	668	600
7/13/2022	22	385	668	600
7/13/2022	23	369	668	600
7/13/2022	24	354	668	600
7/14/2022	1	340	668	600
7/14/2022	2	329	550	510
7/14/2022	3	319	500	464
7/14/2022	4	312	500	464
7/14/2022	5	310	500	464
7/14/2022	6	310	500	464
7/14/2022	7	320	550	510
7/14/2022	8	350	668	600
7/14/2022	9	378	668	600
7/14/2022	10	405	668	600
7/14/2022	11	424	668	600
7/14/2022	12	413	668	600
7/14/2022	13	410	668	600
7/14/2022	14	422	668	600
7/14/2022	15	415	668	600
7/14/2022	16	404	668	600
7/14/2022	17	390	668	600
7/14/2022	18	383	668	600
7/14/2022	19	398	668	600
7/14/2022	20	395	668	600
7/14/2022	21	392	668	600
7/14/2022	22	380	668	600
7/14/2022	23	361	668	600
7/14/2022	24	340	668	600
7/15/2022	1	340	668	600
7/15/2022	2	328	550	510
7/15/2022	3	317	500	464
7/15/2022	4	309	500	464
7/15/2022	5	308	500	464
7/15/2022	6	308	500	464
7/15/2022	7	317	550	510
7/15/2022	8	345	668	600
7/15/2022	9	380	668	600
7/15/2022	10	400	668	600
7/15/2022	11	409	668	600
7/15/2022	12	403	668	600
7/15/2022	13	399	668	600
7/15/2022	14	414	668	600
7/15/2022	15	413	668	600
7/15/2022	16	406	668	600
7/15/2022	17	390	668	600
7/15/2022	18	380	668	600
7/15/2022	19	385	668	600
7/15/2022	20	383	668	600
7/15/2022	21	380	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/15/2022	22	378	668	600
7/15/2022	23	364	668	600
7/15/2022	24	349	668	600
7/16/2022	1	338	668	600
7/16/2022	2	326	550	510
7/16/2022	3	317	500	464
7/16/2022	4	309	500	464
7/16/2022	5	303	500	464
7/16/2022	6	294	500	464
7/16/2022	7	291	500	464
7/16/2022	8	308	500	464
7/16/2022	9	331	500	464
7/16/2022	10	354	550	510
7/16/2022	11	371	668	600
7/16/2022	12	368	668	600
7/16/2022	13	372	668	600
7/16/2022	14	373	668	600
7/16/2022	15	379	668	600
7/16/2022	16	372	668	600
7/16/2022	17	359	668	600
7/16/2022	18	358	668	600
7/16/2022	19	377	668	600
7/16/2022	20	372	668	600
7/16/2022	21	370	668	600
7/16/2022	22	372	668	600
7/16/2022	23	362	668	600
7/16/2022	24	348	668	600
7/17/2022	1	328	600	600
7/17/2022	2	318	600	600
7/17/2022	3	307	600	600
7/17/2022	4	296	600	556
7/17/2022	5	290	600	510
7/17/2022	6	281	600	464
7/17/2022	7	278	550	417
7/17/2022	8	291	550	464
7/17/2022	9	306	600	464
7/17/2022	10	323	600	574
7/17/2022	11	333	600	563
7/17/2022	12	333	600	600
7/17/2022	13	338	600	600
7/17/2022	14	344	600	600
7/17/2022	15	342	600	600
7/17/2022	16	338	600	600
7/17/2022	17	331	600	600
7/17/2022	18	340	600	600
7/17/2022	19	361	668	600
7/17/2022	20	366	668	600
7/17/2022	21	373	668	600
7/17/2022	22	368	668	600
7/17/2022	23	357	668	600
7/17/2022	24	342	600	600
7/18/2022	1	316	500	464
7/18/2022	2	304	500	464
7/18/2022	3	293	500	464
7/18/2022	4	287	500	464
7/18/2022	5	288	500	464
7/18/2022	6	290	500	464
7/18/2022	7	309	550	510
7/18/2022	8	341	668	600
7/18/2022	9	375	668	600
7/18/2022	10	401	668	600
7/18/2022	11	414	668	600
7/18/2022	12	412	668	600
7/18/2022	13	417	668	600
7/18/2022	14	433	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/18/2022	15	429	668	600
7/18/2022	16	414	668	600
7/18/2022	17	391	668	600
7/18/2022	18	378	668	600
7/18/2022	19	387	668	600
7/18/2022	20	388	668	600
7/18/2022	21	386	668	600
7/18/2022	22	377	668	600
7/18/2022	23	364	668	600
7/18/2022	24	349	668	600
7/19/2022	1	338	668	600
7/19/2022	2	325	550	510
7/19/2022	3	315	500	464
7/19/2022	4	308	500	464
7/19/2022	5	306	500	464
7/19/2022	6	304	500	464
7/19/2022	7	320	550	510
7/19/2022	8	358	668	600
7/19/2022	9	390	668	600
7/19/2022	10	416	668	600
7/19/2022	11	427	668	600
7/19/2022	12	420	668	600
7/19/2022	13	423	668	600
7/19/2022	14	434	668	600
7/19/2022	15	433	668	600
7/19/2022	16	422	668	600
7/19/2022	17	401	668	600
7/19/2022	18	392	668	600
7/19/2022	19	399	668	600
7/19/2022	20	397	668	600
7/19/2022	21	395	668	600
7/19/2022	22	384	668	600
7/19/2022	23	371	668	600
7/19/2022	24	339	668	600
7/20/2022	1	346	668	600
7/20/2022	2	332	550	510
7/20/2022	3	320	500	464
7/20/2022	4	314	500	464
7/20/2022	5	311	500	464
7/20/2022	6	309	500	464
7/20/2022	7	318	550	510
7/20/2022	8	354	668	600
7/20/2022	9	387	668	600
7/20/2022	10	409	668	600
7/20/2022	11	421	668	600
7/20/2022	12	417	668	600
7/20/2022	13	422	668	600
7/20/2022	14	437	668	600
7/20/2022	15	437	668	600
7/20/2022	16	428	668	600
7/20/2022	17	406	668	600
7/20/2022	18	392	668	600
7/20/2022	19	404	668	600
7/20/2022	20	406	668	600
7/20/2022	21	405	668	600
7/20/2022	22	387	668	600
7/20/2022	23	368	668	600
7/20/2022	24	352	668	600
7/21/2022	1	341	668	600
7/21/2022	2	328	550	510
7/21/2022	3	321	500	464
7/21/2022	4	313	500	464
7/21/2022	5	312	500	464
7/21/2022	6	313	500	464
7/21/2022	7	323	550	510

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/21/2022	8	354	668	600
7/21/2022	9	385	668	600
7/21/2022	10	407	668	600
7/21/2022	11	419	668	600
7/21/2022	12	411	668	600
7/21/2022	13	406	668	600
7/21/2022	14	412	668	600
7/21/2022	15	403	668	600
7/21/2022	16	397	668	600
7/21/2022	17	385	668	600
7/21/2022	18	377	668	600
7/21/2022	19	389	668	600
7/21/2022	20	384	668	600
7/21/2022	21	379	668	600
7/21/2022	22	366	668	600
7/21/2022	23	353	668	600
7/21/2022	24	368	668	600
7/22/2022	1	335	600	510
7/22/2022	2	324	550	464
7/22/2022	3	314	500	464
7/22/2022	4	306	500	464
7/22/2022	5	305	500	464
7/22/2022	6	308	500	464
7/22/2022	7	320	500	464
7/22/2022	8	349	550	510
7/22/2022	9	378	668	600
7/22/2022	10	401	668	600
7/22/2022	11	417	668	600
7/22/2022	12	412	668	600
7/22/2022	13	412	668	600
7/22/2022	14	424	668	600
7/22/2022	15	423	668	600
7/22/2022	16	417	668	600
7/22/2022	17	400	668	600
7/22/2022	18	385	668	600
7/22/2022	19	399	668	600
7/22/2022	20	400	668	600
7/22/2022	21	396	668	600
7/22/2022	22	384	668	600
7/22/2022	23	372	668	600
7/22/2022	24	365	668	600
7/23/2022	1	345	668	510
7/23/2022	2	334	668	464
7/23/2022	3	324	550	464
7/23/2022	4	316	500	464
7/23/2022	5	310	500	464
7/23/2022	6	300	500	464
7/23/2022	7	298	500	464
7/23/2022	8	314	500	464
7/23/2022	9	338	500	464
7/23/2022	10	362	550	510
7/23/2022	11	379	668	600
7/23/2022	12	376	668	600
7/23/2022	13	380	668	600
7/23/2022	14	389	668	600
7/23/2022	15	387	668	600
7/23/2022	16	379	668	600
7/23/2022	17	367	668	600
7/23/2022	18	366	668	600
7/23/2022	19	385	668	600
7/23/2022	20	388	668	600
7/23/2022	21	386	668	600
7/23/2022	22	380	668	600
7/23/2022	23	370	668	600
7/23/2022	24	348	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/24/2022	1	328	600	600
7/24/2022	2	318	600	563
7/24/2022	3	307	600	510
7/24/2022	4	296	600	464
7/24/2022	5	291	600	464
7/24/2022	6	281	600	464
7/24/2022	7	278	550	460
7/24/2022	8	291	550	464
7/24/2022	9	306	600	464
7/24/2022	10	323	668	600
7/24/2022	11	333	668	600
7/24/2022	12	334	668	600
7/24/2022	13	338	668	600
7/24/2022	14	344	668	600
7/24/2022	15	343	668	600
7/24/2022	16	338	668	600
7/24/2022	17	331	668	600
7/24/2022	18	341	668	600
7/24/2022	19	362	668	600
7/24/2022	20	366	668	600
7/24/2022	21	373	668	600
7/24/2022	22	368	668	600
7/24/2022	23	357	668	600
7/24/2022	24	342	668	600
7/25/2022	1	317	600	556
7/25/2022	2	308	600	556
7/25/2022	3	298	600	556
7/25/2022	4	292	600	556
7/25/2022	5	294	600	556
7/25/2022	6	300	600	556
7/25/2022	7	316	600	556
7/25/2022	8	354	668	600
7/25/2022	9	392	668	600
7/25/2022	10	415	668	600
7/25/2022	11	431	668	600
7/25/2022	12	424	668	600
7/25/2022	13	423	668	600
7/25/2022	14	436	668	600
7/25/2022	15	435	668	600
7/25/2022	16	422	668	600
7/25/2022	17	406	668	600
7/25/2022	18	394	668	600
7/25/2022	19	399	668	600
7/25/2022	20	395	668	600
7/25/2022	21	388	668	600
7/25/2022	22	376	668	600
7/25/2022	23	364	668	600
7/25/2022	24	349	668	600
7/26/2022	1	337	500	464
7/26/2022	2	327	500	464
7/26/2022	3	317	500	464
7/26/2022	4	311	500	464
7/26/2022	5	309	500	464
7/26/2022	6	311	500	464
7/26/2022	7	323	550	510
7/26/2022	8	357	668	600
7/26/2022	9	390	668	600
7/26/2022	10	411	668	600
7/26/2022	11	426	668	600
7/26/2022	12	420	668	600
7/26/2022	13	418	668	600
7/26/2022	14	434	668	600
7/26/2022	15	429	668	600
7/26/2022	16	418	668	600
7/26/2022	17	402	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/26/2022	18	390	668	600
7/26/2022	19	396	668	600
7/26/2022	20	392	668	600
7/26/2022	21	385	668	600
7/26/2022	22	373	668	600
7/26/2022	23	362	668	600
7/26/2022	24	370	668	600
7/27/2022	1	345	500	464
7/27/2022	2	335	500	464
7/27/2022	3	326	500	464
7/27/2022	4	319	500	464
7/27/2022	5	324	500	464
7/27/2022	6	319	500	464
7/27/2022	7	333	550	510
7/27/2022	8	370	668	600
7/27/2022	9	404	668	600
7/27/2022	10	426	668	600
7/27/2022	11	436	668	600
7/27/2022	12	428	668	600
7/27/2022	13	430	668	600
7/27/2022	14	429	668	600
7/27/2022	15	427	668	600
7/27/2022	16	421	668	600
7/27/2022	17	406	668	600
7/27/2022	18	391	668	600
7/27/2022	19	398	668	600
7/27/2022	20	398	668	600
7/27/2022	21	395	668	600
7/27/2022	22	388	668	600
7/27/2022	23	376	668	600
7/27/2022	24	350	668	600
7/28/2022	1	342	550	510
7/28/2022	2	333	550	464
7/28/2022	3	322	500	464
7/28/2022	4	316	500	464
7/28/2022	5	315	500	464
7/28/2022	6	312	500	464
7/28/2022	7	329	550	510
7/28/2022	8	362	668	600
7/28/2022	9	398	668	600
7/28/2022	10	419	668	600
7/28/2022	11	433	668	600
7/28/2022	12	432	668	600
7/28/2022	13	433	668	600
7/28/2022	14	429	668	600
7/28/2022	15	420	668	600
7/28/2022	16	411	668	600
7/28/2022	17	402	668	600
7/28/2022	18	381	668	600
7/28/2022	19	392	668	600
7/28/2022	20	391	668	600
7/28/2022	21	389	668	600
7/28/2022	22	375	668	600
7/28/2022	23	365	668	600
7/28/2022	24	324	668	600
7/29/2022	1	348	550	510
7/29/2022	2	334	500	464
7/29/2022	3	322	500	464
7/29/2022	4	316	500	464
7/29/2022	5	313	500	464
7/29/2022	6	312	500	464
7/29/2022	7	321	550	510
7/29/2022	8	357	668	600
7/29/2022	9	391	668	600
7/29/2022	10	413	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/29/2022	11	425	668	600
7/29/2022	12	422	668	600
7/29/2022	13	426	668	600
7/29/2022	14	428	668	600
7/29/2022	15	428	668	600
7/29/2022	16	420	668	600
7/29/2022	17	398	668	600
7/29/2022	18	384	668	600
7/29/2022	19	396	668	600
7/29/2022	20	398	668	600
7/29/2022	21	396	668	600
7/29/2022	22	379	668	600
7/29/2022	23	361	668	600
7/29/2022	24	348	668	600
7/30/2022	1	343	550	510
7/30/2022	2	330	500	464
7/30/2022	3	321	500	464
7/30/2022	4	312	500	464
7/30/2022	5	308	500	464
7/30/2022	6	300	500	464
7/30/2022	7	304	500	464
7/30/2022	8	330	500	464
7/30/2022	9	355	500	464
7/30/2022	10	382	550	510
7/30/2022	11	399	668	600
7/30/2022	12	396	668	600
7/30/2022	13	398	668	600
7/30/2022	14	390	668	600
7/30/2022	15	389	668	600
7/30/2022	16	372	668	600
7/30/2022	17	357	668	600
7/30/2022	18	357	668	600
7/30/2022	19	371	668	600
7/30/2022	20	372	668	600
7/30/2022	21	374	668	600
7/30/2022	22	370	668	600
7/30/2022	23	361	668	600
7/30/2022	24	330	668	600
7/31/2022	1	331	510	500
7/31/2022	2	320	500	464
7/31/2022	3	309	464	450
7/31/2022	4	298	464	450
7/31/2022	5	293	464	455
7/31/2022	6	283	510	500
7/31/2022	7	280	510	500
7/31/2022	8	294	510	500
7/31/2022	9	308	510	500
7/31/2022	10	325	510	500
7/31/2022	11	335	510	500
7/31/2022	12	336	510	500
7/31/2022	13	341	550	510
7/31/2022	14	347	550	510
7/31/2022	15	345	550	510
7/31/2022	16	341	668	600
7/31/2022	17	333	668	600
7/31/2022	18	343	668	600
7/31/2022	19	364	668	600
7/31/2022	20	369	668	600
7/31/2022	21	376	668	600
7/31/2022	22	371	668	600
7/31/2022	23	360	668	600
7/31/2022	24	345	668	600
8/1/2022	1	339	500	464
8/1/2022	2	325	500	464
8/1/2022	3	314	500	464

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/1/2022	4	306	500	464
8/1/2022	5	304	500	464
8/1/2022	6	306	510	500
8/1/2022	7	322	510	510
8/1/2022	8	359	600	600
8/1/2022	9	395	600	600
8/1/2022	10	418	600	600
8/1/2022	11	433	668	600
8/1/2022	12	429	668	600
8/1/2022	13	427	668	600
8/1/2022	14	435	668	600
8/1/2022	15	424	668	600
8/1/2022	16	411	668	600
8/1/2022	17	398	668	600
8/1/2022	18	382	668	600
8/1/2022	19	396	668	600
8/1/2022	20	397	668	600
8/1/2022	21	392	668	600
8/1/2022	22	378	668	600
8/1/2022	23	366	668	600
8/1/2022	24	348	668	600
8/2/2022	1	340	500	464
8/2/2022	2	329	500	464
8/2/2022	3	319	500	464
8/2/2022	4	311	500	464
8/2/2022	5	310	500	464
8/2/2022	6	310	500	464
8/2/2022	7	326	550	510
8/2/2022	8	352	668	600
8/2/2022	9	384	668	600
8/2/2022	10	408	668	600
8/2/2022	11	425	668	600
8/2/2022	12	419	668	600
8/2/2022	13	419	668	600
8/2/2022	14	420	668	600
8/2/2022	15	418	668	600
8/2/2022	16	412	668	600
8/2/2022	17	395	668	600
8/2/2022	18	380	668	600
8/2/2022	19	395	668	600
8/2/2022	20	395	668	600
8/2/2022	21	392	668	600
8/2/2022	22	380	668	600
8/2/2022	23	367	668	600
8/2/2022	24	354	668	600
8/3/2022	1	337	500	464
8/3/2022	2	324	500	464
8/3/2022	3	316	500	464
8/3/2022	4	308	500	464
8/3/2022	5	306	500	464
8/3/2022	6	305	500	464
8/3/2022	7	317	550	510
8/3/2022	8	351	668	600
8/3/2022	9	369	668	600
8/3/2022	10	402	668	600
8/3/2022	11	420	668	600
8/3/2022	12	416	668	600
8/3/2022	13	415	668	600
8/3/2022	14	417	668	600
8/3/2022	15	416	668	600
8/3/2022	16	407	668	600
8/3/2022	17	389	580	510
8/3/2022	18	376	580	510
8/3/2022	19	390	668	600
8/3/2022	20	391	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/3/2022	21	388	668	600
8/3/2022	22	377	668	600
8/3/2022	23	366	668	600
8/3/2022	24	347	668	600
8/4/2022	1	340	500	464
8/4/2022	2	327	500	464
8/4/2022	3	318	500	464
8/4/2022	4	310	500	464
8/4/2022	5	308	500	464
8/4/2022	6	310	500	464
8/4/2022	7	322	550	510
8/4/2022	8	357	668	600
8/4/2022	9	371	668	600
8/4/2022	10	404	668	600
8/4/2022	11	426	668	600
8/4/2022	12	422	668	600
8/4/2022	13	417	668	600
8/4/2022	14	423	668	600
8/4/2022	15	422	668	600
8/4/2022	16	422	668	600
8/4/2022	17	403	668	510
8/4/2022	18	381	580	510
8/4/2022	19	396	668	600
8/4/2022	20	397	668	600
8/4/2022	21	394	668	600
8/4/2022	22	383	668	600
8/4/2022	23	372	668	600
8/4/2022	24	347	668	600
8/5/2022	1	340	500	464
8/5/2022	2	329	500	464
8/5/2022	3	319	500	464
8/5/2022	4	311	500	464
8/5/2022	5	309	500	464
8/5/2022	6	310	500	464
8/5/2022	7	322	550	510
8/5/2022	8	357	668	600
8/5/2022	9	371	668	600
8/5/2022	10	404	668	600
8/5/2022	11	426	668	600
8/5/2022	12	422	668	600
8/5/2022	13	421	668	600
8/5/2022	14	423	668	600
8/5/2022	15	422	668	600
8/5/2022	16	413	668	600
8/5/2022	17	402	580	510
8/5/2022	18	390	580	510
8/5/2022	19	396	668	600
8/5/2022	20	397	668	600
8/5/2022	21	394	668	600
8/5/2022	22	383	668	600
8/5/2022	23	372	668	600
8/5/2022	24	354	668	600
8/6/2022	1	336	500	464
8/6/2022	2	321	500	464
8/6/2022	3	311	500	464
8/6/2022	4	305	500	464
8/6/2022	5	305	500	464
8/6/2022	6	307	500	464
8/6/2022	7	316	550	510
8/6/2022	8	332	550	510
8/6/2022	9	353	550	510
8/6/2022	10	375	668	600
8/6/2022	11	391	668	600
8/6/2022	12	377	668	600
8/6/2022	13	369	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/6/2022	14	363	668	600
8/6/2022	15	356	580	510
8/6/2022	16	347	580	510
8/6/2022	17	347	580	510
8/6/2022	18	347	580	510
8/6/2022	19	354	580	510
8/6/2022	20	353	580	510
8/6/2022	21	350	668	600
8/6/2022	22	340	668	600
8/6/2022	23	331	668	600
8/6/2022	24	317	668	600
8/7/2022	1	311	510	510
8/7/2022	2	301	510	464
8/7/2022	3	291	510	464
8/7/2022	4	280	510	420
8/7/2022	5	275	464	417
8/7/2022	6	266	464	450
8/7/2022	7	264	464	450
8/7/2022	8	276	464	450
8/7/2022	9	290	510	500
8/7/2022	10	306	510	500
8/7/2022	11	315	510	500
8/7/2022	12	316	510	500
8/7/2022	13	320	510	500
8/7/2022	14	326	510	500
8/7/2022	15	324	510	500
8/7/2022	16	320	550	510
8/7/2022	17	313	550	510
8/7/2022	18	323	550	510
8/7/2022	19	342	668	600
8/7/2022	20	347	668	600
8/7/2022	21	353	668	600
8/7/2022	22	349	668	600
8/7/2022	23	339	668	600
8/7/2022	24	324	668	600
8/8/2022	1	299	500	464
8/8/2022	2	289	500	464
8/8/2022	3	279	500	464
8/8/2022	4	274	500	464
8/8/2022	5	276	500	464
8/8/2022	6	285	500	464
8/8/2022	7	300	550	510
8/8/2022	8	333	668	600
8/8/2022	9	370	668	600
8/8/2022	10	390	668	600
8/8/2022	11	405	668	600
8/8/2022	12	402	668	600
8/8/2022	13	406	668	600
8/8/2022	14	414	668	600
8/8/2022	15	406	668	600
8/8/2022	16	397	668	600
8/8/2022	17	382	668	600
8/8/2022	18	375	668	600
8/8/2022	19	381	668	600
8/8/2022	20	377	668	600
8/8/2022	21	370	668	600
8/8/2022	22	356	668	600
8/8/2022	23	340	668	600
8/8/2022	24	325	668	600
8/9/2022	1	299	500	464
8/9/2022	2	289	500	464
8/9/2022	3	279	500	464
8/9/2022	4	274	500	464
8/9/2022	5	275	500	464
8/9/2022	6	287	500	464

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/9/2022	7	303	550	510
8/9/2022	8	340	668	600
8/9/2022	9	366	668	600
8/9/2022	10	382	668	600
8/9/2022	11	393	668	600
8/9/2022	12	387	668	600
8/9/2022	13	390	668	600
8/9/2022	14	398	668	600
8/9/2022	15	390	668	600
8/9/2022	16	381	668	600
8/9/2022	17	368	668	600
8/9/2022	18	360	668	600
8/9/2022	19	367	668	600
8/9/2022	20	362	668	600
8/9/2022	21	356	668	600
8/9/2022	22	342	668	600
8/9/2022	23	327	668	600
8/9/2022	24	355	668	600
8/10/2022	1	310	500	464
8/10/2022	2	296	500	464
8/10/2022	3	290	500	464
8/10/2022	4	284	500	464
8/10/2022	5	284	500	464
8/10/2022	6	283	500	464
8/10/2022	7	291	550	510
8/10/2022	8	321	668	600
8/10/2022	9	352	668	600
8/10/2022	10	371	668	600
8/10/2022	11	393	668	600
8/10/2022	12	388	668	600
8/10/2022	13	390	668	600
8/10/2022	14	394	668	600
8/10/2022	15	401	668	600
8/10/2022	16	394	668	600
8/10/2022	17	377	668	600
8/10/2022	18	359	668	600
8/10/2022	19	369	668	600
8/10/2022	20	368	668	600
8/10/2022	21	363	668	600
8/10/2022	22	360	668	600
8/10/2022	23	339	668	600
8/10/2022	24	359	668	600
8/11/2022	1	326	500	464
8/11/2022	2	316	500	464
8/11/2022	3	307	500	464
8/11/2022	4	300	500	464
8/11/2022	5	302	500	464
8/11/2022	6	305	500	464
8/11/2022	7	316	500	464
8/11/2022	8	347	550	510
8/11/2022	9	375	668	600
8/11/2022	10	396	668	600
8/11/2022	11	407	668	600
8/11/2022	12	400	668	600
8/11/2022	13	398	668	600
8/11/2022	14	408	668	600
8/11/2022	15	404	668	600
8/11/2022	16	397	668	600
8/11/2022	17	386	668	600
8/11/2022	18	367	668	600
8/11/2022	19	375	668	600
8/11/2022	20	378	668	600
8/11/2022	21	371	668	600
8/11/2022	22	358	668	600
8/11/2022	23	347	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/11/2022	24	333	668	600
8/12/2022	1	323	500	464
8/12/2022	2	312	500	464
8/12/2022	3	304	500	464
8/12/2022	4	297	500	464
8/12/2022	5	296	500	464
8/12/2022	6	302	500	464
8/12/2022	7	317	500	464
8/12/2022	8	351	550	510
8/12/2022	9	383	668	600
8/12/2022	10	402	668	600
8/12/2022	11	411	668	600
8/12/2022	12	402	668	600
8/12/2022	13	407	668	600
8/12/2022	14	411	668	600
8/12/2022	15	407	668	600
8/12/2022	16	399	668	600
8/12/2022	17	397	668	600
8/12/2022	18	381	668	600
8/12/2022	19	387	668	600
8/12/2022	20	388	668	600
8/12/2022	21	385	668	600
8/12/2022	22	371	668	600
8/12/2022	23	360	668	600
8/12/2022	24	354	668	600
8/13/2022	1	331	500	464
8/13/2022	2	322	500	464
8/13/2022	3	308	500	464
8/13/2022	4	305	500	464
8/13/2022	5	304	500	464
8/13/2022	6	304	500	464
8/13/2022	7	305	500	464
8/13/2022	8	329	500	464
8/13/2022	9	346	550	510
8/13/2022	10	372	668	510
8/13/2022	11	387	668	600
8/13/2022	12	384	668	600
8/13/2022	13	388	668	600
8/13/2022	14	379	668	600
8/13/2022	15	376	668	600
8/13/2022	16	362	668	600
8/13/2022	17	356	668	600
8/13/2022	18	353	668	600
8/13/2022	19	371	668	600
8/13/2022	20	366	668	600
8/13/2022	21	368	668	600
8/13/2022	22	361	668	600
8/13/2022	23	351	668	600
8/13/2022	24	343	668	600
8/14/2022	1	317	510	510
8/14/2022	2	307	510	464
8/14/2022	3	297	510	464
8/14/2022	4	286	510	420
8/14/2022	5	281	464	417
8/14/2022	6	272	464	450
8/14/2022	7	269	464	450
8/14/2022	8	282	464	450
8/14/2022	9	296	510	500
8/14/2022	10	312	510	500
8/14/2022	11	322	510	500
8/14/2022	12	323	510	500
8/14/2022	13	327	510	500
8/14/2022	14	333	510	500
8/14/2022	15	331	510	500
8/14/2022	16	327	550	510

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/14/2022	17	320	550	510
8/14/2022	18	329	550	510
8/14/2022	19	349	668	600
8/14/2022	20	354	668	556
8/14/2022	21	361	668	600
8/14/2022	22	356	668	600
8/14/2022	23	346	668	600
8/14/2022	24	331	668	600
8/15/2022	1	312	500	464
8/15/2022	2	301	500	464
8/15/2022	3	292	500	464
8/15/2022	4	287	500	464
8/15/2022	5	292	500	464
8/15/2022	6	305	500	464
8/15/2022	7	324	500	464
8/15/2022	8	356	550	510
8/15/2022	9	387	668	600
8/15/2022	10	406	668	600
8/15/2022	11	418	668	600
8/15/2022	12	410	668	600
8/15/2022	13	405	668	600
8/15/2022	14	414	668	600
8/15/2022	15	413	668	600
8/15/2022	16	408	668	600
8/15/2022	17	395	668	600
8/15/2022	18	390	668	600
8/15/2022	19	395	668	600
8/15/2022	20	386	668	600
8/15/2022	21	373	668	600
8/15/2022	22	358	668	600
8/15/2022	23	346	668	600
8/15/2022	24	332	668	600
8/16/2022	1	327	500	464
8/16/2022	2	319	500	464
8/16/2022	3	309	500	464
8/16/2022	4	304	500	464
8/16/2022	5	302	500	464
8/16/2022	6	302	500	464
8/16/2022	7	319	550	510
8/16/2022	8	354	668	600
8/16/2022	9	389	668	600
8/16/2022	10	401	668	600
8/16/2022	11	417	668	600
8/16/2022	12	413	668	600
8/16/2022	13	419	668	600
8/16/2022	14	419	668	600
8/16/2022	15	416	668	600
8/16/2022	16	410	668	600
8/16/2022	17	388	668	600
8/16/2022	18	373	668	600
8/16/2022	19	386	668	600
8/16/2022	20	388	668	600
8/16/2022	21	385	668	600
8/16/2022	22	375	668	600
8/16/2022	23	365	668	600
8/16/2022	24	347	668	600
8/17/2022	1	326	500	464
8/17/2022	2	314	464	450
8/17/2022	3	304	464	450
8/17/2022	4	299	464	450
8/17/2022	5	298	464	450
8/17/2022	6	302	500	464
8/17/2022	7	312	550	510
8/17/2022	8	342	550	510
8/17/2022	9	376	550	510

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/17/2022	10	396	668	600
8/17/2022	11	413	668	600
8/17/2022	12	407	668	600
8/17/2022	13	410	668	600
8/17/2022	14	425	668	600
8/17/2022	15	423	668	600
8/17/2022	16	415	668	600
8/17/2022	17	397	668	600
8/17/2022	18	387	668	600
8/17/2022	19	389	668	600
8/17/2022	20	386	668	600
8/17/2022	21	380	668	600
8/17/2022	22	377	668	600
8/17/2022	23	364	668	600
8/17/2022	24	342	668	600
8/18/2022	1	334	500	464
8/18/2022	2	322	464	464
8/18/2022	3	312	464	464
8/18/2022	4	306	464	464
8/18/2022	5	300	464	450
8/18/2022	6	301	500	464
8/18/2022	7	312	550	510
8/18/2022	8	345	550	510
8/18/2022	9	372	550	510
8/18/2022	10	395	668	600
8/18/2022	11	410	668	600
8/18/2022	12	406	668	600
8/18/2022	13	406	668	600
8/18/2022	14	418	668	600
8/18/2022	15	415	668	600
8/18/2022	16	405	668	600
8/18/2022	17	387	668	600
8/18/2022	18	377	668	600
8/18/2022	19	374	668	600
8/18/2022	20	371	668	600
8/18/2022	21	374	668	600
8/18/2022	22	363	668	600
8/18/2022	23	351	668	600
8/18/2022	24	346	668	600
8/19/2022	1	329	500	464
8/19/2022	2	315	464	464
8/19/2022	3	306	464	464
8/19/2022	4	300	464	464
8/19/2022	5	300	464	450
8/19/2022	6	303	500	464
8/19/2022	7	315	550	510
8/19/2022	8	350	550	510
8/19/2022	9	380	600	550
8/19/2022	10	395	668	600
8/19/2022	11	407	668	600
8/19/2022	12	398	668	600
8/19/2022	13	397	668	600
8/19/2022	14	409	668	600
8/19/2022	15	402	668	600
8/19/2022	16	396	668	600
8/19/2022	17	378	668	600
8/19/2022	18	370	668	600
8/19/2022	19	378	668	600
8/19/2022	20	374	668	600
8/19/2022	21	370	668	600
8/19/2022	22	357	668	600
8/19/2022	23	344	668	600
8/19/2022	24	316	668	600
8/20/2022	1	343	500	464
8/20/2022	2	334	464	464

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/20/2022	3	322	464	464
8/20/2022	4	317	464	464
8/20/2022	5	315	464	464
8/20/2022	6	307	464	455
8/20/2022	7	308	464	450
8/20/2022	8	333	464	455
8/20/2022	9	356	550	510
8/20/2022	10	378	668	600
8/20/2022	11	389	668	600
8/20/2022	12	385	668	600
8/20/2022	13	387	668	600
8/20/2022	14	400	668	600
8/20/2022	15	400	668	600
8/20/2022	16	393	668	600
8/20/2022	17	379	668	600
8/20/2022	18	374	668	600
8/20/2022	19	382	668	600
8/20/2022	20	379	668	600
8/20/2022	21	373	668	600
8/20/2022	22	359	668	600
8/20/2022	23	348	668	600
8/20/2022	24	336	668	600
8/21/2022	1	286	500	464
8/21/2022	2	277	464	450
8/21/2022	3	267	464	389
8/21/2022	4	258	464	389
8/21/2022	5	253	445	389
8/21/2022	6	245	389	389
8/21/2022	7	242	371	371
8/21/2022	8	253	445	389
8/21/2022	9	266	445	389
8/21/2022	10	281	445	420
8/21/2022	11	289	450	445
8/21/2022	12	290	450	445
8/21/2022	13	294	450	445
8/21/2022	14	299	450	445
8/21/2022	15	298	450	445
8/21/2022	16	294	450	445
8/21/2022	17	288	464	450
8/21/2022	18	296	500	464
8/21/2022	19	314	500	464
8/21/2022	20	319	500	464
8/21/2022	21	324	500	464
8/21/2022	22	320	500	464
8/21/2022	23	311	500	464
8/21/2022	24	298	500	464
8/22/2022	1	306	464	454
8/22/2022	2	297	464	450
8/22/2022	3	290	464	450
8/22/2022	4	284	464	450
8/22/2022	5	286	464	450
8/22/2022	6	295	464	455
8/22/2022	7	308	464	450
8/22/2022	8	345	510	500
8/22/2022	9	377	600	550
8/22/2022	10	398	668	600
8/22/2022	11	408	668	600
8/22/2022	12	400	668	600
8/22/2022	13	397	668	600
8/22/2022	14	401	668	600
8/22/2022	15	392	668	600
8/22/2022	16	385	668	600
8/22/2022	17	373	668	600
8/22/2022	18	367	668	600
8/22/2022	19	375	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/22/2022	20	371	668	600
8/22/2022	21	363	668	600
8/22/2022	22	348	668	600
8/22/2022	23	336	668	600
8/22/2022	24	323	668	600
8/23/2022	1	320	464	450
8/23/2022	2	309	464	450
8/23/2022	3	300	464	450
8/23/2022	4	296	464	450
8/23/2022	5	294	464	450
8/23/2022	6	300	464	450
8/23/2022	7	311	464	450
8/23/2022	8	341	550	510
8/23/2022	9	377	668	600
8/23/2022	10	396	668	600
8/23/2022	11	412	668	600
8/23/2022	12	406	668	600
8/23/2022	13	409	668	600
8/23/2022	14	412	668	600
8/23/2022	15	408	668	600
8/23/2022	16	399	668	600
8/23/2022	17	390	668	600
8/23/2022	18	373	668	600
8/23/2022	19	382	668	600
8/23/2022	20	377	668	600
8/23/2022	21	371	668	600
8/23/2022	22	359	668	600
8/23/2022	23	348	668	600
8/23/2022	24	337	668	600
8/24/2022	1	313	464	450
8/24/2022	2	304	464	450
8/24/2022	3	296	464	450
8/24/2022	4	291	464	450
8/24/2022	5	294	464	450
8/24/2022	6	299	464	450
8/24/2022	7	308	464	450
8/24/2022	8	339	550	510
8/24/2022	9	377	668	600
8/24/2022	10	394	668	600
8/24/2022	11	398	668	600
8/24/2022	12	385	668	600
8/24/2022	13	388	668	600
8/24/2022	14	402	668	600
8/24/2022	15	400	668	600
8/24/2022	16	394	668	600
8/24/2022	17	378	668	600
8/24/2022	18	367	668	600
8/24/2022	19	368	668	600
8/24/2022	20	363	668	600
8/24/2022	21	357	668	600
8/24/2022	22	354	668	600
8/24/2022	23	343	668	600
8/24/2022	24	341	668	600
8/25/2022	1	298	464	450
8/25/2022	2	291	464	450
8/25/2022	3	282	464	450
8/25/2022	4	279	464	450
8/25/2022	5	285	464	450
8/25/2022	6	290	464	450
8/25/2022	7	296	464	450
8/25/2022	8	326	550	510
8/25/2022	9	355	668	600
8/25/2022	10	375	668	600
8/25/2022	11	385	668	600
8/25/2022	12	376	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/25/2022	13	377	668	600
8/25/2022	14	387	668	600
8/25/2022	15	383	668	600
8/25/2022	16	374	668	600
8/25/2022	17	360	668	600
8/25/2022	18	346	668	600
8/25/2022	19	350	668	600
8/25/2022	20	351	668	600
8/25/2022	21	346	668	600
8/25/2022	22	334	668	600
8/25/2022	23	321	668	600
8/25/2022	24	311	668	600
8/26/2022	1	303	464	464
8/26/2022	2	293	464	464
8/26/2022	3	286	464	450
8/26/2022	4	281	464	450
8/26/2022	5	296	464	450
8/26/2022	6	298	464	450
8/26/2022	7	308	464	450
8/26/2022	8	339	550	510
8/26/2022	9	366	668	600
8/26/2022	10	386	668	600
8/26/2022	11	397	668	600
8/26/2022	12	386	668	600
8/26/2022	13	385	668	600
8/26/2022	14	394	668	600
8/26/2022	15	393	668	600
8/26/2022	16	383	668	600
8/26/2022	17	371	668	600
8/26/2022	18	357	668	600
8/26/2022	19	357	668	600
8/26/2022	20	361	668	600
8/26/2022	21	346	668	600
8/26/2022	22	340	668	600
8/26/2022	23	327	668	600
8/26/2022	24	328	668	600
8/27/2022	1	334	500	464
8/27/2022	2	325	500	464
8/27/2022	3	315	500	464
8/27/2022	4	309	480	455
8/27/2022	5	308	480	455
8/27/2022	6	305	480	455
8/27/2022	7	308	480	455
8/27/2022	8	330	500	455
8/27/2022	9	356	668	464
8/27/2022	10	378	668	510
8/27/2022	11	395	668	600
8/27/2022	12	387	668	600
8/27/2022	13	389	668	600
8/27/2022	14	396	668	600
8/27/2022	15	390	668	600
8/27/2022	16	379	668	600
8/27/2022	17	370	668	600
8/27/2022	18	371	668	600
8/27/2022	19	384	668	600
8/27/2022	20	383	668	600
8/27/2022	21	380	668	600
8/27/2022	22	368	668	600
8/27/2022	23	355	668	600
8/27/2022	24	328	668	600
8/28/2022	1	318	500	464
8/28/2022	2	308	464	460
8/28/2022	3	297	464	460
8/28/2022	4	287	464	400
8/28/2022	5	281	445	400

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/28/2022	6	272	451	389
8/28/2022	7	269	371	371
8/28/2022	8	282	445	414
8/28/2022	9	296	510	510
8/28/2022	10	312	600	600
8/28/2022	11	322	600	600
8/28/2022	12	323	600	600
8/28/2022	13	327	600	600
8/28/2022	14	333	668	600
8/28/2022	15	331	668	600
8/28/2022	16	327	668	600
8/28/2022	17	320	668	600
8/28/2022	18	330	668	600
8/28/2022	19	350	668	600
8/28/2022	20	355	668	600
8/28/2022	21	361	668	600
8/28/2022	22	356	668	600
8/28/2022	23	346	668	600
8/28/2022	24	331	668	600
8/29/2022	1	345	668	510
8/29/2022	2	334	668	464
8/29/2022	3	322	500	464
8/29/2022	4	313	500	464
8/29/2022	5	308	500	464
8/29/2022	6	300	464	455
8/29/2022	7	297	464	420
8/29/2022	8	305	464	445
8/29/2022	9	323	510	510
8/29/2022	10	345	600	600
8/29/2022	11	358	600	600
8/29/2022	12	357	600	600
8/29/2022	13	361	600	600
8/29/2022	14	364	600	600
8/29/2022	15	354	600	556
8/29/2022	16	340	600	556
8/29/2022	17	341	600	556
8/29/2022	18	349	600	556
8/29/2022	19	360	600	556
8/29/2022	20	361	600	556
8/29/2022	21	359	668	556
8/29/2022	22	354	600	556
8/29/2022	23	341	600	556
8/29/2022	24	331	600	600
8/30/2022	1	322	464	464
8/30/2022	2	312	460	455
8/30/2022	3	303	460	455
8/30/2022	4	300	460	455
8/30/2022	5	309	460	455
8/30/2022	6	316	460	455
8/30/2022	7	324	550	510
8/30/2022	8	358	668	600
8/30/2022	9	392	668	600
8/30/2022	10	410	668	600
8/30/2022	11	416	668	600
8/30/2022	12	405	668	600
8/30/2022	13	402	668	600
8/30/2022	14	411	668	600
8/30/2022	15	409	668	600
8/30/2022	16	401	668	600
8/30/2022	17	389	668	600
8/30/2022	18	379	668	600
8/30/2022	19	384	668	600
8/30/2022	20	376	668	600
8/30/2022	21	366	668	600
8/30/2022	22	350	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/30/2022	23	336	668	600
8/30/2022	24	325	668	600
8/31/2022	1	330	668	600
8/31/2022	2	319	550	510
8/31/2022	3	309	500	464
8/31/2022	4	302	500	460
8/31/2022	5	307	500	460
8/31/2022	6	308	500	460
8/31/2022	7	314	550	510
8/31/2022	8	347	668	600
8/31/2022	9	388	668	600
8/31/2022	10	403	668	600
8/31/2022	11	407	668	600
8/31/2022	12	401	668	600
8/31/2022	13	405	668	600
8/31/2022	14	398	668	600
8/31/2022	15	405	668	600
8/31/2022	16	400	668	600
8/31/2022	17	393	668	600
8/31/2022	18	380	668	600
8/31/2022	19	388	668	600
8/31/2022	20	383	668	600
8/31/2022	21	378	668	600
8/31/2022	22	365	668	600
8/31/2022	23	353	668	600
8/31/2022	24	337	668	600
9/1/2022	1	315	668	600
9/1/2022	2	304	550	510
9/1/2022	3	295	500	464
9/1/2022	4	290	500	455
9/1/2022	5	294	500	455
9/1/2022	6	298	500	455
9/1/2022	7	307	550	510
9/1/2022	8	340	668	600
9/1/2022	9	371	668	600
9/1/2022	10	392	668	600
9/1/2022	11	399	668	600
9/1/2022	12	390	584	556
9/1/2022	13	389	600	556
9/1/2022	14	400	668	600
9/1/2022	15	398	600	600
9/1/2022	16	389	600	600
9/1/2022	17	376	556	550
9/1/2022	18	368	556	550
9/1/2022	19	364	556	550
9/1/2022	20	363	556	550
9/1/2022	21	357	556	550
9/1/2022	22	343	556	550
9/1/2022	23	330	550	510
9/1/2022	24	323	550	510
9/2/2022	1	329	668	600
9/2/2022	2	318	550	510
9/2/2022	3	309	500	464
9/2/2022	4	299	500	455
9/2/2022	5	303	500	455
9/2/2022	6	304	500	455
9/2/2022	7	311	550	510
9/2/2022	8	343	668	600
9/2/2022	9	380	668	600
9/2/2022	10	403	668	600
9/2/2022	11	412	668	600
9/2/2022	12	405	584	556
9/2/2022	13	409	600	556
9/2/2022	14	425	668	600
9/2/2022	15	422	600	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/2/2022	16	409	600	600
9/2/2022	17	387	556	550
9/2/2022	18	379	556	550
9/2/2022	19	389	556	550
9/2/2022	20	377	556	550
9/2/2022	21	378	556	550
9/2/2022	22	368	556	550
9/2/2022	23	357	550	510
9/2/2022	24	344	550	510
9/3/2022	1	331	668	600
9/3/2022	2	316	550	510
9/3/2022	3	305	500	464
9/3/2022	4	297	500	464
9/3/2022	5	294	500	464
9/3/2022	6	292	500	464
9/3/2022	7	291	500	464
9/3/2022	8	311	500	464
9/3/2022	9	333	500	464
9/3/2022	10	354	550	510
9/3/2022	11	375	668	600
9/3/2022	12	364	668	600
9/3/2022	13	361	668	600
9/3/2022	14	369	668	600
9/3/2022	15	366	668	600
9/3/2022	16	360	668	600
9/3/2022	17	346	550	510
9/3/2022	18	346	550	510
9/3/2022	19	368	668	600
9/3/2022	20	365	668	600
9/3/2022	21	363	668	600
9/3/2022	22	354	668	600
9/3/2022	23	335	550	510
9/3/2022	24	318	500	464
9/4/2022	1	331	668	600
9/4/2022	2	320	550	510
9/4/2022	3	309	500	464
9/4/2022	4	299	500	455
9/4/2022	5	290	500	455
9/4/2022	6	284	500	455
9/4/2022	7	276	500	445
9/4/2022	8	272	500	445
9/4/2022	9	287	500	445
9/4/2022	10	306	510	500
9/4/2022	11	323	510	500
9/4/2022	12	337	510	500
9/4/2022	13	337	510	500
9/4/2022	14	344	510	500
9/4/2022	15	350	550	510
9/4/2022	16	343	510	510
9/4/2022	17	337	550	510
9/4/2022	18	334	550	510
9/4/2022	19	342	668	556
9/4/2022	20	360	668	556
9/4/2022	21	352	668	556
9/4/2022	22	345	668	556
9/4/2022	23	333	668	510
9/4/2022	24	322	668	510
9/5/2022	1	300	500	464
9/5/2022	2	290	500	464
9/5/2022	3	284	500	464
9/5/2022	4	277	500	464
9/5/2022	5	282	500	464
9/5/2022	6	290	500	464
9/5/2022	7	297	500	464
9/5/2022	8	330	550	510

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/5/2022	9	360	668	600
9/5/2022	10	380	668	600
9/5/2022	11	396	668	600
9/5/2022	12	387	668	600
9/5/2022	13	393	668	600
9/5/2022	14	411	668	600
9/5/2022	15	414	668	600
9/5/2022	16	407	668	600
9/5/2022	17	387	668	600
9/5/2022	18	378	668	600
9/5/2022	19	391	668	600
9/5/2022	20	388	668	600
9/5/2022	21	384	668	600
9/5/2022	22	372	668	600
9/5/2022	23	358	550	510
9/5/2022	24	345	550	510
9/6/2022	1	306	500	464
9/6/2022	2	298	500	464
9/6/2022	3	291	500	464
9/6/2022	4	285	500	464
9/6/2022	5	289	500	464
9/6/2022	6	293	500	464
9/6/2022	7	306	500	464
9/6/2022	8	338	550	510
9/6/2022	9	372	668	600
9/6/2022	10	397	668	600
9/6/2022	11	415	668	600
9/6/2022	12	404	668	600
9/6/2022	13	407	668	600
9/6/2022	14	412	668	600
9/6/2022	15	417	668	600
9/6/2022	16	413	668	600
9/6/2022	17	389	668	600
9/6/2022	18	378	668	600
9/6/2022	19	381	668	600
9/6/2022	20	386	668	600
9/6/2022	21	374	668	600
9/6/2022	22	372	668	600
9/6/2022	23	358	550	510
9/6/2022	24	353	550	510
9/7/2022	1	344	510	500
9/7/2022	2	327	500	464
9/7/2022	3	317	500	464
9/7/2022	4	311	500	464
9/7/2022	5	311	500	464
9/7/2022	6	314	500	464
9/7/2022	7	327	500	464
9/7/2022	8	364	550	510
9/7/2022	9	394	668	600
9/7/2022	10	409	668	600
9/7/2022	11	426	668	600
9/7/2022	12	412	668	600
9/7/2022	13	412	668	600
9/7/2022	14	424	668	600
9/7/2022	15	417	668	600
9/7/2022	16	411	668	600
9/7/2022	17	393	668	600
9/7/2022	18	385	668	600
9/7/2022	19	385	668	600
9/7/2022	20	389	668	600
9/7/2022	21	384	668	600
9/7/2022	22	371	668	600
9/7/2022	23	357	550	510
9/7/2022	24	344	550	510
9/8/2022	1	338	510	500

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/8/2022	2	327	500	464
9/8/2022	3	316	500	464
9/8/2022	4	311	500	464
9/8/2022	5	314	500	464
9/8/2022	6	316	500	464
9/8/2022	7	318	500	464
9/8/2022	8	355	550	510
9/8/2022	9	395	668	600
9/8/2022	10	418	668	600
9/8/2022	11	431	668	600
9/8/2022	12	420	668	600
9/8/2022	13	421	668	600
9/8/2022	14	424	668	600
9/8/2022	15	422	668	600
9/8/2022	16	416	668	600
9/8/2022	17	398	668	600
9/8/2022	18	391	668	600
9/8/2022	19	394	668	600
9/8/2022	20	389	668	600
9/8/2022	21	387	668	600
9/8/2022	22	382	668	600
9/8/2022	23	371	668	600
9/8/2022	24	354	550	510
9/9/2022	1	337	500	464
9/9/2022	2	327	500	464
9/9/2022	3	317	500	464
9/9/2022	4	310	500	464
9/9/2022	5	314	500	464
9/9/2022	6	315	500	464
9/9/2022	7	317	500	464
9/9/2022	8	357	550	510
9/9/2022	9	388	668	600
9/9/2022	10	418	668	600
9/9/2022	11	425	668	600
9/9/2022	12	414	668	600
9/9/2022	13	417	668	600
9/9/2022	14	423	668	600
9/9/2022	15	416	668	600
9/9/2022	16	411	668	600
9/9/2022	17	395	668	600
9/9/2022	18	384	668	600
9/9/2022	19	385	668	600
9/9/2022	20	380	668	600
9/9/2022	21	377	668	600
9/9/2022	22	364	668	600
9/9/2022	23	354	668	600
9/9/2022	24	344	550	510
9/10/2022	1	347	500	464
9/10/2022	2	335	455	464
9/10/2022	3	324	455	464
9/10/2022	4	315	455	464
9/10/2022	5	312	455	464
9/10/2022	6	306	455	464
9/10/2022	7	309	450	464
9/10/2022	8	331	450	464
9/10/2022	9	353	550	464
9/10/2022	10	376	668	510
9/10/2022	11	393	668	600
9/10/2022	12	386	668	600
9/10/2022	13	383	668	600
9/10/2022	14	380	668	600
9/10/2022	15	377	668	600
9/10/2022	16	370	668	510
9/10/2022	17	356	668	510
9/10/2022	18	356	668	510

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/10/2022	19	378	668	600
9/10/2022	20	376	668	600
9/10/2022	21	373	668	600
9/10/2022	22	364	668	600
9/10/2022	23	351	668	510
9/10/2022	24	325	550	464
9/11/2022	1	306	500	460
9/11/2022	2	296	455	450
9/11/2022	3	290	455	450
9/11/2022	4	283	455	450
9/11/2022	5	282	455	450
9/11/2022	6	278	455	450
9/11/2022	7	278	450	417
9/11/2022	8	292	450	417
9/11/2022	9	314	550	464
9/11/2022	10	334	668	464
9/11/2022	11	345	668	464
9/11/2022	12	341	668	464
9/11/2022	13	341	668	510
9/11/2022	14	343	668	510
9/11/2022	15	343	668	510
9/11/2022	16	338	668	510
9/11/2022	17	335	668	510
9/11/2022	18	348	668	556
9/11/2022	19	365	668	600
9/11/2022	20	363	668	600
9/11/2022	21	362	668	600
9/11/2022	22	349	668	600
9/11/2022	23	336	668	510
9/11/2022	24	323	550	510
9/12/2022	1	304	500	482
9/12/2022	2	295	500	464
9/12/2022	3	288	500	464
9/12/2022	4	286	500	464
9/12/2022	5	297	500	464
9/12/2022	6	303	500	464
9/12/2022	7	311	550	510
9/12/2022	8	351	668	600
9/12/2022	9	386	668	600
9/12/2022	10	410	668	600
9/12/2022	11	420	668	600
9/12/2022	12	410	668	600
9/12/2022	13	413	668	600
9/12/2022	14	423	668	600
9/12/2022	15	426	668	600
9/12/2022	16	422	668	600
9/12/2022	17	398	668	600
9/12/2022	18	392	668	600
9/12/2022	19	401	668	600
9/12/2022	20	397	668	600
9/12/2022	21	392	668	600
9/12/2022	22	378	668	600
9/12/2022	23	364	668	600
9/12/2022	24	348	668	600
9/13/2022	1	336	668	455
9/13/2022	2	324	668	455
9/13/2022	3	313	668	455
9/13/2022	4	311	668	455
9/13/2022	5	316	668	455
9/13/2022	6	315	668	455
9/13/2022	7	322	668	455
9/13/2022	8	355	668	455
9/13/2022	9	395	668	455
9/13/2022	10	415	668	455
9/13/2022	11	427	668	455

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/13/2022	12	420	668	455
9/13/2022	13	424	668	455
9/13/2022	14	430	668	455
9/13/2022	15	422	668	455
9/13/2022	16	410	668	455
9/13/2022	17	392	668	455
9/13/2022	18	378	668	455
9/13/2022	19	393	668	455
9/13/2022	20	391	668	455
9/13/2022	21	384	668	455
9/13/2022	22	363	668	455
9/13/2022	23	354	668	455
9/13/2022	24	342	668	455
9/14/2022	1	338	480	480
9/14/2022	2	327	480	480
9/14/2022	3	322	480	480
9/14/2022	4	315	480	480
9/14/2022	5	316	480	480
9/14/2022	6	319	480	480
9/14/2022	7	324	480	480
9/14/2022	8	360	480	480
9/14/2022	9	393	550	550
9/14/2022	10	415	668	668
9/14/2022	11	425	668	668
9/14/2022	12	420	668	668
9/14/2022	13	422	668	668
9/14/2022	14	429	668	668
9/14/2022	15	427	668	668
9/14/2022	16	419	668	668
9/14/2022	17	404	550	550
9/14/2022	18	399	550	550
9/14/2022	19	401	668	668
9/14/2022	20	406	668	668
9/14/2022	21	400	668	668
9/14/2022	22	380	668	668
9/14/2022	23	367	668	668
9/14/2022	24	366	668	668
9/15/2022	1	340	668	668
9/15/2022	2	326	668	620
9/15/2022	3	315	668	570
9/15/2022	4	309	668	570
9/15/2022	5	314	668	570
9/15/2022	6	311	668	570
9/15/2022	7	315	668	620
9/15/2022	8	354	668	650
9/15/2022	9	386	668	650
9/15/2022	10	408	668	668
9/15/2022	11	420	668	668
9/15/2022	12	413	668	668
9/15/2022	13	422	668	668
9/15/2022	14	427	668	668
9/15/2022	15	426	668	668
9/15/2022	16	418	668	668
9/15/2022	17	396	668	650
9/15/2022	18	384	668	650
9/15/2022	19	390	668	650
9/15/2022	20	384	668	650
9/15/2022	21	382	668	650
9/15/2022	22	364	668	650
9/15/2022	23	350	668	650
9/15/2022	24	336	668	650
9/16/2022	1	336	668	668
9/16/2022	2	325	650	620
9/16/2022	3	315	620	600
9/16/2022	4	305	580	570

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/16/2022	5	310	580	570
9/16/2022	6	311	580	570
9/16/2022	7	317	650	620
9/16/2022	8	350	668	650
9/16/2022	9	387	668	650
9/16/2022	10	410	668	668
9/16/2022	11	419	668	668
9/16/2022	12	412	668	668
9/16/2022	13	417	668	668
9/16/2022	14	421	668	668
9/16/2022	15	418	668	668
9/16/2022	16	405	668	668
9/16/2022	17	384	668	650
9/16/2022	18	375	590	570
9/16/2022	19	385	668	650
9/16/2022	20	381	668	650
9/16/2022	21	375	668	650
9/16/2022	22	365	668	650
9/16/2022	23	353	668	650
9/16/2022	24	318	550	520
9/17/2022	1	342	668	668
9/17/2022	2	327	650	620
9/17/2022	3	317	620	600
9/17/2022	4	310	580	570
9/17/2022	5	309	580	570
9/17/2022	6	304	580	570
9/17/2022	7	309	580	550
9/17/2022	8	328	580	550
9/17/2022	9	355	580	550
9/17/2022	10	375	668	600
9/17/2022	11	382	668	668
9/17/2022	12	368	580	550
9/17/2022	13	360	580	550
9/17/2022	14	363	580	550
9/17/2022	15	358	580	550
9/17/2022	16	355	580	550
9/17/2022	17	350	580	550
9/17/2022	18	351	580	550
9/17/2022	19	371	668	650
9/17/2022	20	368	668	650
9/17/2022	21	362	668	650
9/17/2022	22	352	580	550
9/17/2022	23	341	580	550
9/17/2022	24	307	580	550
9/18/2022	1	312	500	460
9/18/2022	2	302	460	455
9/18/2022	3	296	460	455
9/18/2022	4	288	455	450
9/18/2022	5	287	455	450
9/18/2022	6	283	455	450
9/18/2022	7	283	455	450
9/18/2022	8	297	668	600
9/18/2022	9	320	668	600
9/18/2022	10	341	668	600
9/18/2022	11	351	668	600
9/18/2022	12	348	668	600
9/18/2022	13	348	668	600
9/18/2022	14	350	668	600
9/18/2022	15	349	668	600
9/18/2022	16	344	668	600
9/18/2022	17	341	668	600
9/18/2022	18	355	668	600
9/18/2022	19	372	668	600
9/18/2022	20	370	668	600
9/18/2022	21	369	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/18/2022	22	356	668	556
9/18/2022	23	343	668	556
9/18/2022	24	329	556	550
9/19/2022	1	318	668	420
9/19/2022	2	306	650	420
9/19/2022	3	297	620	420
9/19/2022	4	295	580	420
9/19/2022	5	301	580	420
9/19/2022	6	307	580	420
9/19/2022	7	313	580	420
9/19/2022	8	345	668	510
9/19/2022	9	383	668	600
9/19/2022	10	409	668	600
9/19/2022	11	421	668	600
9/19/2022	12	412	668	600
9/19/2022	13	415	668	600
9/19/2022	14	427	668	600
9/19/2022	15	429	668	600
9/19/2022	16	422	668	600
9/19/2022	17	406	668	600
9/19/2022	18	396	668	600
9/19/2022	19	404	668	600
9/19/2022	20	400	668	600
9/19/2022	21	397	668	600
9/19/2022	22	386	668	600
9/19/2022	23	369	668	600
9/19/2022	24	355	668	600
9/20/2022	1	339	668	600
9/20/2022	2	330	650	600
9/20/2022	3	317	620	600
9/20/2022	4	312	600	580
9/20/2022	5	317	600	580
9/20/2022	6	317	580	562
9/20/2022	7	322	580	518
9/20/2022	8	361	668	600
9/20/2022	9	394	668	600
9/20/2022	10	419	668	600
9/20/2022	11	427	668	600
9/20/2022	12	418	668	600
9/20/2022	13	424	668	600
9/20/2022	14	421	668	600
9/20/2022	15	419	668	600
9/20/2022	16	413	668	600
9/20/2022	17	403	668	600
9/20/2022	18	396	668	600
9/20/2022	19	396	668	600
9/20/2022	20	394	668	600
9/20/2022	21	391	668	600
9/20/2022	22	379	668	600
9/20/2022	23	366	668	600
9/20/2022	24	353	668	600
9/21/2022	1	312	668	600
9/21/2022	2	303	668	600
9/21/2022	3	295	668	556
9/21/2022	4	291	668	538
9/21/2022	5	296	668	538
9/21/2022	6	300	668	538
9/21/2022	7	305	668	538
9/21/2022	8	342	668	600
9/21/2022	9	373	668	600
9/21/2022	10	397	668	600
9/21/2022	11	405	668	600
9/21/2022	12	398	668	600
9/21/2022	13	404	668	600
9/21/2022	14	416	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/21/2022	15	414	668	600
9/21/2022	16	408	668	600
9/21/2022	17	390	668	600
9/21/2022	18	374	668	600
9/21/2022	19	382	668	600
9/21/2022	20	380	668	600
9/21/2022	21	376	668	600
9/21/2022	22	365	668	600
9/21/2022	23	360	668	600
9/21/2022	24	343	668	600
9/22/2022	1	323	668	600
9/22/2022	2	311	668	600
9/22/2022	3	300	668	510
9/22/2022	4	295	668	510
9/22/2022	5	301	668	510
9/22/2022	6	303	668	510
9/22/2022	7	306	668	510
9/22/2022	8	339	668	510
9/22/2022	9	370	668	510
9/22/2022	10	393	668	510
9/22/2022	11	407	668	600
9/22/2022	12	401	668	600
9/22/2022	13	403	668	600
9/22/2022	14	415	668	600
9/22/2022	15	413	668	600
9/22/2022	16	401	668	600
9/22/2022	17	382	668	600
9/22/2022	18	375	668	600
9/22/2022	19	379	668	600
9/22/2022	20	378	668	600
9/22/2022	21	371	668	600
9/22/2022	22	361	668	600
9/22/2022	23	347	668	600
9/22/2022	24	339	668	600
9/23/2022	1	335	668	600
9/23/2022	2	325	668	556
9/23/2022	3	316	668	482
9/23/2022	4	311	668	454
9/23/2022	5	312	668	454
9/23/2022	6	315	668	454
9/23/2022	7	321	668	454
9/23/2022	8	355	668	510
9/23/2022	9	386	668	600
9/23/2022	10	412	668	600
9/23/2022	11	420	668	600
9/23/2022	12	414	668	600
9/23/2022	13	416	668	600
9/23/2022	14	415	668	600
9/23/2022	15	415	668	600
9/23/2022	16	410	668	600
9/23/2022	17	393	668	600
9/23/2022	18	384	668	600
9/23/2022	19	385	668	600
9/23/2022	20	383	668	600
9/23/2022	21	378	668	600
9/23/2022	22	367	668	600
9/23/2022	23	364	668	600
9/23/2022	24	346	668	600
9/24/2022	1	335	668	600
9/24/2022	2	323	668	556
9/24/2022	3	312	668	482
9/24/2022	4	307	668	454
9/24/2022	5	303	668	454
9/24/2022	6	299	668	454
9/24/2022	7	302	668	454

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/24/2022	8	320	668	454
9/24/2022	9	344	668	510
9/24/2022	10	367	668	600
9/24/2022	11	380	668	600
9/24/2022	12	370	668	600
9/24/2022	13	375	668	600
9/24/2022	14	383	668	600
9/24/2022	15	381	668	600
9/24/2022	16	373	668	600
9/24/2022	17	361	668	600
9/24/2022	18	359	668	600
9/24/2022	19	368	668	600
9/24/2022	20	362	668	600
9/24/2022	21	359	668	600
9/24/2022	22	351	668	600
9/24/2022	23	349	668	600
9/24/2022	24	330	668	600
9/25/2022	1	309	668	464
9/25/2022	2	299	535	464
9/25/2022	3	293	559	464
9/25/2022	4	286	487	464
9/25/2022	5	285	464	460
9/25/2022	6	281	464	460
9/25/2022	7	281	464	450
9/25/2022	8	295	668	510
9/25/2022	9	318	668	510
9/25/2022	10	338	668	535
9/25/2022	11	349	668	535
9/25/2022	12	345	600	556
9/25/2022	13	345	600	556
9/25/2022	14	347	600	556
9/25/2022	15	347	600	556
9/25/2022	16	342	600	556
9/25/2022	17	339	600	556
9/25/2022	18	352	668	600
9/25/2022	19	369	668	600
9/25/2022	20	367	668	600
9/25/2022	21	366	668	600
9/25/2022	22	353	668	600
9/25/2022	23	340	584	556
9/25/2022	24	326	550	539
9/26/2022	1	322	668	454
9/26/2022	2	312	668	454
9/26/2022	3	305	668	454
9/26/2022	4	299	668	454
9/26/2022	5	311	668	454
9/26/2022	6	317	668	454
9/26/2022	7	323	668	454
9/26/2022	8	361	668	510
9/26/2022	9	394	668	600
9/26/2022	10	416	668	600
9/26/2022	11	426	668	600
9/26/2022	12	410	668	600
9/26/2022	13	405	668	600
9/26/2022	14	412	668	600
9/26/2022	15	406	668	600
9/26/2022	16	396	668	600
9/26/2022	17	388	668	600
9/26/2022	18	389	668	600
9/26/2022	19	391	668	600
9/26/2022	20	384	668	600
9/26/2022	21	375	668	600
9/26/2022	22	361	668	600
9/26/2022	23	347	668	600
9/26/2022	24	334	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/27/2022	1	317	480	417
9/27/2022	2	305	480	417
9/27/2022	3	297	480	417
9/27/2022	4	295	480	417
9/27/2022	5	300	480	417
9/27/2022	6	302	480	417
9/27/2022	7	308	480	417
9/27/2022	8	340	480	417
9/27/2022	9	377	550	510
9/27/2022	10	402	668	600
9/27/2022	11	415	668	600
9/27/2022	12	406	668	600
9/27/2022	13	408	668	600
9/27/2022	14	412	668	600
9/27/2022	15	414	668	600
9/27/2022	16	407	668	600
9/27/2022	17	393	668	600
9/27/2022	18	384	668	600
9/27/2022	19	391	668	600
9/27/2022	20	388	668	600
9/27/2022	21	384	668	600
9/27/2022	22	374	668	600
9/27/2022	23	358	668	600
9/27/2022	24	353	668	600
9/28/2022	1	337	480	420
9/28/2022	2	326	450	389
9/28/2022	3	316	450	389
9/28/2022	4	311	450	389
9/28/2022	5	317	450	389
9/28/2022	6	317	450	389
9/28/2022	7	316	450	389
9/28/2022	8	353	480	420
9/28/2022	9	381	550	510
9/28/2022	10	415	668	600
9/28/2022	11	420	668	600
9/28/2022	12	413	668	600
9/28/2022	13	416	668	600
9/28/2022	14	414	668	600
9/28/2022	15	410	668	600
9/28/2022	16	403	668	600
9/28/2022	17	387	668	600
9/28/2022	18	387	668	600
9/28/2022	19	394	668	600
9/28/2022	20	383	668	600
9/28/2022	21	376	580	538
9/28/2022	22	369	550	460
9/28/2022	23	355	550	445
9/28/2022	24	333	550	445
9/29/2022	1	305	500	464
9/29/2022	2	296	490	445
9/29/2022	3	290	490	445
9/29/2022	4	289	490	445
9/29/2022	5	298	490	445
9/29/2022	6	303	490	445
9/29/2022	7	309	490	445
9/29/2022	8	345	550	510
9/29/2022	9	373	668	600
9/29/2022	10	399	668	600
9/29/2022	11	408	668	600
9/29/2022	12	402	668	600
9/29/2022	13	403	668	600
9/29/2022	14	414	668	600
9/29/2022	15	413	668	600
9/29/2022	16	404	668	600
9/29/2022	17	387	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/29/2022	18	388	668	600
9/29/2022	19	391	668	600
9/29/2022	20	389	668	600
9/29/2022	21	380	668	600
9/29/2022	22	363	668	600
9/29/2022	23	349	668	600
9/29/2022	24	351	668	600
9/30/2022	1	333	668	600
9/30/2022	2	322	668	600
9/30/2022	3	317	668	600
9/30/2022	4	311	668	600
9/30/2022	5	312	668	600
9/30/2022	6	312	668	600
9/30/2022	7	318	668	600
9/30/2022	8	353	668	600
9/30/2022	9	391	668	600
9/30/2022	10	414	668	600
9/30/2022	11	423	668	600
9/30/2022	12	412	668	600
9/30/2022	13	413	668	600
9/30/2022	14	416	668	600
9/30/2022	15	416	668	600
9/30/2022	16	411	668	600
9/30/2022	17	394	668	600
9/30/2022	18	393	668	600
9/30/2022	19	386	668	600
9/30/2022	20	384	668	600
9/30/2022	21	377	668	600
9/30/2022	22	365	668	600
9/30/2022	23	354	668	600
9/30/2022	24	343	668	600
10/1/2022	1	323	570	519
10/1/2022	2	313	570	519
10/1/2022	3	306	570	519
10/1/2022	4	300	550	510
10/1/2022	5	300	500	445
10/1/2022	6	300	500	445
10/1/2022	7	301	500	445
10/1/2022	8	326	550	510
10/1/2022	9	352	550	510
10/1/2022	10	372	668	600
10/1/2022	11	389	668	600
10/1/2022	12	382	668	600
10/1/2022	13	382	668	600
10/1/2022	14	382	668	600
10/1/2022	15	381	668	600
10/1/2022	16	376	668	600
10/1/2022	17	370	668	600
10/1/2022	18	367	668	600
10/1/2022	19	373	668	600
10/1/2022	20	371	668	600
10/1/2022	21	369	668	600
10/1/2022	22	357	668	600
10/1/2022	23	347	668	600
10/1/2022	24	338	668	600
10/2/2022	1	304	668	464
10/2/2022	2	295	550	464
10/2/2022	3	289	550	464
10/2/2022	4	282	600	464
10/2/2022	5	281	600	464
10/2/2022	6	277	550	464
10/2/2022	7	276	550	464
10/2/2022	8	290	550	510
10/2/2022	9	313	550	464
10/2/2022	10	333	668	535

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/2/2022	11	343	668	549
10/2/2022	12	340	668	556
10/2/2022	13	340	668	556
10/2/2022	14	342	668	556
10/2/2022	15	341	668	556
10/2/2022	16	336	668	556
10/2/2022	17	333	668	556
10/2/2022	18	347	668	600
10/2/2022	19	363	668	600
10/2/2022	20	361	668	600
10/2/2022	21	360	668	600
10/2/2022	22	347	668	600
10/2/2022	23	335	668	556
10/2/2022	24	321	668	539
10/3/2022	1	320	550	482
10/3/2022	2	309	500	464
10/3/2022	3	302	500	464
10/3/2022	4	297	500	460
10/3/2022	5	308	500	460
10/3/2022	6	315	500	460
10/3/2022	7	320	520	464
10/3/2022	8	358	550	510
10/3/2022	9	391	668	600
10/3/2022	10	413	668	600
10/3/2022	11	423	668	600
10/3/2022	12	407	668	600
10/3/2022	13	402	668	600
10/3/2022	14	408	668	600
10/3/2022	15	403	668	600
10/3/2022	16	393	668	600
10/3/2022	17	385	668	600
10/3/2022	18	386	668	600
10/3/2022	19	387	668	600
10/3/2022	20	381	668	600
10/3/2022	21	371	668	600
10/3/2022	22	358	668	600
10/3/2022	23	344	668	600
10/3/2022	24	331	668	600
10/4/2022	1	318	550	482
10/4/2022	2	307	500	464
10/4/2022	3	301	500	464
10/4/2022	4	297	500	445
10/4/2022	5	304	500	445
10/4/2022	6	305	500	445
10/4/2022	7	311	520	464
10/4/2022	8	344	550	510
10/4/2022	9	376	668	600
10/4/2022	10	395	668	600
10/4/2022	11	398	668	600
10/4/2022	12	403	668	600
10/4/2022	13	405	668	600
10/4/2022	14	400	668	600
10/4/2022	15	403	668	600
10/4/2022	16	398	668	600
10/4/2022	17	386	668	600
10/4/2022	18	385	668	600
10/4/2022	19	383	668	600
10/4/2022	20	378	668	600
10/4/2022	21	373	668	600
10/4/2022	22	359	668	600
10/4/2022	23	345	668	600
10/4/2022	24	356	668	600
10/5/2022	1	323	600	510
10/5/2022	2	314	550	482
10/5/2022	3	304	500	464

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/5/2022	4	300	500	445
10/5/2022	5	306	500	445
10/5/2022	6	310	500	445
10/5/2022	7	316	520	464
10/5/2022	8	350	550	510
10/5/2022	9	384	668	600
10/5/2022	10	406	668	600
10/5/2022	11	417	668	600
10/5/2022	12	403	668	600
10/5/2022	13	402	668	600
10/5/2022	14	405	668	600
10/5/2022	15	412	668	600
10/5/2022	16	408	668	600
10/5/2022	17	393	668	600
10/5/2022	18	398	668	600
10/5/2022	19	383	668	600
10/5/2022	20	377	668	600
10/5/2022	21	380	668	600
10/5/2022	22	359	668	600
10/5/2022	23	347	668	600
10/5/2022	24	348	668	600
10/6/2022	1	345	668	600
10/6/2022	2	329	668	600
10/6/2022	3	318	668	600
10/6/2022	4	312	668	600
10/6/2022	5	319	668	600
10/6/2022	6	320	668	600
10/6/2022	7	324	668	600
10/6/2022	8	359	668	600
10/6/2022	9	392	668	600
10/6/2022	10	423	668	600
10/6/2022	11	433	668	600
10/6/2022	12	423	668	600
10/6/2022	13	427	668	600
10/6/2022	14	431	668	600
10/6/2022	15	429	668	600
10/6/2022	16	421	668	600
10/6/2022	17	410	668	600
10/6/2022	18	398	668	600
10/6/2022	19	393	668	600
10/6/2022	20	392	668	600
10/6/2022	21	386	668	600
10/6/2022	22	375	668	600
10/6/2022	23	361	668	600
10/6/2022	24	345	668	600
10/7/2022	1	345	668	668
10/7/2022	2	333	668	668
10/7/2022	3	325	668	668
10/7/2022	4	319	668	668
10/7/2022	5	320	668	668
10/7/2022	6	320	668	668
10/7/2022	7	326	668	668
10/7/2022	8	366	668	668
10/7/2022	9	398	668	668
10/7/2022	10	421	668	668
10/7/2022	11	423	668	668
10/7/2022	12	425	668	668
10/7/2022	13	427	668	668
10/7/2022	14	417	668	668
10/7/2022	15	417	668	668
10/7/2022	16	412	668	668
10/7/2022	17	401	668	668
10/7/2022	18	392	668	668
10/7/2022	19	392	668	668
10/7/2022	20	390	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/7/2022	21	386	668	668
10/7/2022	22	374	668	668
10/7/2022	23	363	668	668
10/7/2022	24	328	668	668
10/8/2022	1	317	480	480
10/8/2022	2	310	480	480
10/8/2022	3	303	480	480
10/8/2022	4	297	480	480
10/8/2022	5	297	480	480
10/8/2022	6	293	480	480
10/8/2022	7	295	480	480
10/8/2022	8	322	480	480
10/8/2022	9	344	550	550
10/8/2022	10	369	668	668
10/8/2022	11	381	668	668
10/8/2022	12	374	668	668
10/8/2022	13	374	668	668
10/8/2022	14	385	668	668
10/8/2022	15	384	668	668
10/8/2022	16	379	668	668
10/8/2022	17	364	668	668
10/8/2022	18	363	668	668
10/8/2022	19	369	668	668
10/8/2022	20	367	668	668
10/8/2022	21	365	668	668
10/8/2022	22	353	668	668
10/8/2022	23	344	668	668
10/8/2022	24	335	668	668
10/9/2022	1	335	620	620
10/9/2022	2	321	550	550
10/9/2022	3	312	480	480
10/9/2022	4	305	480	480
10/9/2022	5	301	480	480
10/9/2022	6	293	480	480
10/9/2022	7	290	480	480
10/9/2022	8	297	480	480
10/9/2022	9	314	550	550
10/9/2022	10	337	668	668
10/9/2022	11	344	668	668
10/9/2022	12	343	668	668
10/9/2022	13	345	668	668
10/9/2022	14	346	668	668
10/9/2022	15	348	668	668
10/9/2022	16	344	668	668
10/9/2022	17	343	668	668
10/9/2022	18	363	668	668
10/9/2022	19	368	668	668
10/9/2022	20	367	668	668
10/9/2022	21	366	668	668
10/9/2022	22	358	668	668
10/9/2022	23	344	668	668
10/9/2022	24	328	668	668
10/10/2022	1	330	600	600
10/10/2022	2	320	550	550
10/10/2022	3	311	500	500
10/10/2022	4	307	500	500
10/10/2022	5	317	550	550
10/10/2022	6	325	668	668
10/10/2022	7	333	668	668
10/10/2022	8	367	668	668
10/10/2022	9	398	668	668
10/10/2022	10	419	668	668
10/10/2022	11	422	668	668
10/10/2022	12	414	668	668
10/10/2022	13	412	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/10/2022	14	430	668	668
10/10/2022	15	428	668	668
10/10/2022	16	424	668	668
10/10/2022	17	412	668	668
10/10/2022	18	417	668	668
10/10/2022	19	412	668	668
10/10/2022	20	406	668	668
10/10/2022	21	397	668	668
10/10/2022	22	382	668	668
10/10/2022	23	366	668	668
10/10/2022	24	352	668	668
10/11/2022	1	322	500	500
10/11/2022	2	312	500	500
10/11/2022	3	307	500	500
10/11/2022	4	302	500	500
10/11/2022	5	309	500	500
10/11/2022	6	316	500	500
10/11/2022	7	320	500	500
10/11/2022	8	356	550	550
10/11/2022	9	392	668	668
10/11/2022	10	413	668	668
10/11/2022	11	424	668	668
10/11/2022	12	418	668	668
10/11/2022	13	416	668	668
10/11/2022	14	417	668	668
10/11/2022	15	417	668	668
10/11/2022	16	412	668	668
10/11/2022	17	406	668	668
10/11/2022	18	401	668	668
10/11/2022	19	398	668	668
10/11/2022	20	395	668	668
10/11/2022	21	389	668	668
10/11/2022	22	377	668	668
10/11/2022	23	363	668	668
10/11/2022	24	342	668	668
10/12/2022	1	342	668	668
10/12/2022	2	327	668	668
10/12/2022	3	314	600	600
10/12/2022	4	312	550	550
10/12/2022	5	317	550	550
10/12/2022	6	320	500	500
10/12/2022	7	321	500	500
10/12/2022	8	357	600	600
10/12/2022	9	391	668	668
10/12/2022	10	415	668	668
10/12/2022	11	423	668	668
10/12/2022	12	417	668	668
10/12/2022	13	423	668	668
10/12/2022	14	436	668	668
10/12/2022	15	433	668	668
10/12/2022	16	427	668	668
10/12/2022	17	408	668	668
10/12/2022	18	405	668	668
10/12/2022	19	397	668	668
10/12/2022	20	400	668	668
10/12/2022	21	396	668	668
10/12/2022	22	383	668	668
10/12/2022	23	366	668	668
10/12/2022	24	342	668	668
10/13/2022	1	340	668	668
10/13/2022	2	329	668	668
10/13/2022	3	312	500	500
10/13/2022	4	310	500	500
10/13/2022	5	315	500	500
10/13/2022	6	317	500	500

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/13/2022	7	319	500	500
10/13/2022	8	355	600	600
10/13/2022	9	392	668	668
10/13/2022	10	417	668	668
10/13/2022	11	428	668	668
10/13/2022	12	430	668	668
10/13/2022	13	428	668	668
10/13/2022	14	444	668	668
10/13/2022	15	429	668	668
10/13/2022	16	424	668	668
10/13/2022	17	405	668	668
10/13/2022	18	404	668	668
10/13/2022	19	401	668	668
10/13/2022	20	398	668	668
10/13/2022	21	394	668	668
10/13/2022	22	378	668	668
10/13/2022	23	368	668	668
10/13/2022	24	354	668	668
10/14/2022	1	352	668	668
10/14/2022	2	343	668	668
10/14/2022	3	329	668	668
10/14/2022	4	323	668	668
10/14/2022	5	328	668	668
10/14/2022	6	328	668	668
10/14/2022	7	334	668	668
10/14/2022	8	365	668	668
10/14/2022	9	397	668	668
10/14/2022	10	419	668	668
10/14/2022	11	428	668	668
10/14/2022	12	421	668	668
10/14/2022	13	424	668	668
10/14/2022	14	439	668	668
10/14/2022	15	435	668	668
10/14/2022	16	426	668	668
10/14/2022	17	414	668	668
10/14/2022	18	408	668	668
10/14/2022	19	401	668	668
10/14/2022	20	406	668	668
10/14/2022	21	398	668	668
10/14/2022	22	387	668	668
10/14/2022	23	375	668	668
10/14/2022	24	360	668	668
10/15/2022	1	344	668	668
10/15/2022	2	333	600	600
10/15/2022	3	322	500	500
10/15/2022	4	316	500	500
10/15/2022	5	312	500	500
10/15/2022	6	308	500	500
10/15/2022	7	309	500	500
10/15/2022	8	326	500	500
10/15/2022	9	351	550	550
10/15/2022	10	378	668	668
10/15/2022	11	391	668	668
10/15/2022	12	384	668	668
10/15/2022	13	389	668	668
10/15/2022	14	382	668	668
10/15/2022	15	389	668	668
10/15/2022	16	382	668	668
10/15/2022	17	370	668	668
10/15/2022	18	373	668	668
10/15/2022	19	384	668	668
10/15/2022	20	382	668	668
10/15/2022	21	380	668	668
10/15/2022	22	368	668	668
10/15/2022	23	358	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/15/2022	24	346	668	668
10/16/2022	1	346	668	668
10/16/2022	2	334	600	600
10/16/2022	3	324	500	500
10/16/2022	4	315	480	480
10/16/2022	5	309	480	480
10/16/2022	6	300	420	420
10/16/2022	7	296	420	420
10/16/2022	8	310	480	480
10/16/2022	9	326	550	550
10/16/2022	10	347	668	668
10/16/2022	11	354	668	668
10/16/2022	12	359	668	668
10/16/2022	13	364	668	668
10/16/2022	14	370	668	668
10/16/2022	15	370	668	668
10/16/2022	16	365	668	668
10/16/2022	17	357	668	668
10/16/2022	18	376	668	668
10/16/2022	19	382	668	668
10/16/2022	20	382	668	668
10/16/2022	21	382	668	668
10/16/2022	22	375	668	668
10/16/2022	23	361	668	668
10/16/2022	24	347	668	668
10/17/2022	1	324	500	500
10/17/2022	2	312	480	480
10/17/2022	3	304	480	480
10/17/2022	4	300	480	480
10/17/2022	5	304	480	480
10/17/2022	6	309	480	480
10/17/2022	7	315	500	500
10/17/2022	8	356	668	668
10/17/2022	9	391	668	668
10/17/2022	10	417	668	668
10/17/2022	11	428	668	668
10/17/2022	12	421	668	668
10/17/2022	13	428	668	668
10/17/2022	14	444	668	668
10/17/2022	15	445	668	668
10/17/2022	16	435	668	668
10/17/2022	17	416	668	668
10/17/2022	18	416	668	668
10/17/2022	19	413	668	668
10/17/2022	20	409	668	668
10/17/2022	21	405	668	668
10/17/2022	22	394	668	668
10/17/2022	23	380	668	668
10/17/2022	24	364	668	668
10/18/2022	1	334	500	500
10/18/2022	2	324	500	500
10/18/2022	3	321	500	500
10/18/2022	4	316	500	500
10/18/2022	5	323	500	500
10/18/2022	6	328	500	500
10/18/2022	7	332	550	550
10/18/2022	8	369	668	668
10/18/2022	9	400	668	668
10/18/2022	10	420	668	668
10/18/2022	11	432	668	668
10/18/2022	12	403	668	668
10/18/2022	13	424	668	668
10/18/2022	14	431	668	668
10/18/2022	15	432	668	668
10/18/2022	16	427	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/18/2022	17	412	668	668
10/18/2022	18	414	668	668
10/18/2022	19	411	668	668
10/18/2022	20	408	668	668
10/18/2022	21	401	668	668
10/18/2022	22	390	668	668
10/18/2022	23	383	668	668
10/18/2022	24	344	668	668
10/19/2022	1	342	600	600
10/19/2022	2	330	550	550
10/19/2022	3	317	500	500
10/19/2022	4	314	500	500
10/19/2022	5	320	500	500
10/19/2022	6	322	500	500
10/19/2022	7	328	550	550
10/19/2022	8	357	600	600
10/19/2022	9	391	668	668
10/19/2022	10	411	668	668
10/19/2022	11	426	668	668
10/19/2022	12	415	668	668
10/19/2022	13	420	668	668
10/19/2022	14	433	668	668
10/19/2022	15	430	668	668
10/19/2022	16	423	668	668
10/19/2022	17	401	668	668
10/19/2022	18	403	668	668
10/19/2022	19	402	668	668
10/19/2022	20	399	668	668
10/19/2022	21	395	668	668
10/19/2022	22	381	668	668
10/19/2022	23	368	668	668
10/19/2022	24	359	668	668
10/20/2022	1	340	500	500
10/20/2022	2	329	500	500
10/20/2022	3	316	500	500
10/20/2022	4	312	500	500
10/20/2022	5	325	500	500
10/20/2022	6	328	500	500
10/20/2022	7	330	500	500
10/20/2022	8	362	550	550
10/20/2022	9	397	668	668
10/20/2022	10	422	668	668
10/20/2022	11	429	668	668
10/20/2022	12	425	668	668
10/20/2022	13	427	668	668
10/20/2022	14	432	668	668
10/20/2022	15	427	668	668
10/20/2022	16	421	668	668
10/20/2022	17	404	668	668
10/20/2022	18	413	668	668
10/20/2022	19	408	668	668
10/20/2022	20	405	668	668
10/20/2022	21	400	668	668
10/20/2022	22	389	668	668
10/20/2022	23	375	668	668
10/20/2022	24	360	668	668
10/21/2022	1	346	550	550
10/21/2022	2	339	500	500
10/21/2022	3	331	500	500
10/21/2022	4	326	500	500
10/21/2022	5	327	500	500
10/21/2022	6	326	500	500
10/21/2022	7	330	500	500
10/21/2022	8	366	550	550
10/21/2022	9	396	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/21/2022	10	411	668	668
10/21/2022	11	423	668	668
10/21/2022	12	417	668	668
10/21/2022	13	419	668	668
10/21/2022	14	428	668	668
10/21/2022	15	426	668	668
10/21/2022	16	417	668	668
10/21/2022	17	397	668	668
10/21/2022	18	399	668	668
10/21/2022	19	400	668	668
10/21/2022	20	397	668	668
10/21/2022	21	396	668	668
10/21/2022	22	386	668	668
10/21/2022	23	370	668	668
10/21/2022	24	355	668	668
10/22/2022	1	353	668	668
10/22/2022	2	341	600	600
10/22/2022	3	332	550	550
10/22/2022	4	323	500	500
10/22/2022	5	320	500	500
10/22/2022	6	313	500	500
10/22/2022	7	317	500	500
10/22/2022	8	336	500	500
10/22/2022	9	366	550	550
10/22/2022	10	391	668	668
10/22/2022	11	397	668	668
10/22/2022	12	392	668	668
10/22/2022	13	392	668	668
10/22/2022	14	403	668	668
10/22/2022	15	400	668	668
10/22/2022	16	390	668	668
10/22/2022	17	380	668	668
10/22/2022	18	393	668	668
10/22/2022	19	389	668	668
10/22/2022	20	388	668	668
10/22/2022	21	387	668	668
10/22/2022	22	378	668	668
10/22/2022	23	368	668	668
10/22/2022	24	353	668	668
10/23/2022	1	311	550	550
10/23/2022	2	301	500	500
10/23/2022	3	295	464	450
10/23/2022	4	288	464	450
10/23/2022	5	287	464	450
10/23/2022	6	283	450	450
10/23/2022	7	283	500	500
10/23/2022	8	297	550	550
10/23/2022	9	320	550	550
10/23/2022	10	341	600	600
10/23/2022	11	351	668	668
10/23/2022	12	348	600	600
10/23/2022	13	348	600	556
10/23/2022	14	350	668	600
10/23/2022	15	349	668	600
10/23/2022	16	344	668	600
10/23/2022	17	341	668	600
10/23/2022	18	355	600	600
10/23/2022	19	372	668	668
10/23/2022	20	370	668	668
10/23/2022	21	368	668	600
10/23/2022	22	355	668	668
10/23/2022	23	342	668	600
10/23/2022	24	329	550	550
10/24/2022	1	325	500	500
10/24/2022	2	310	480	480

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/24/2022	3	303	480	480
10/24/2022	4	299	480	480
10/24/2022	5	307	480	480
10/24/2022	6	312	480	480
10/24/2022	7	323	550	550
10/24/2022	8	363	668	668
10/24/2022	9	397	668	668
10/24/2022	10	421	668	668
10/24/2022	11	430	668	668
10/24/2022	12	422	668	668
10/24/2022	13	423	668	668
10/24/2022	14	434	668	668
10/24/2022	15	431	668	668
10/24/2022	16	424	668	668
10/24/2022	17	406	668	668
10/24/2022	18	411	668	668
10/24/2022	19	406	668	668
10/24/2022	20	401	668	668
10/24/2022	21	393	668	668
10/24/2022	22	383	668	668
10/24/2022	23	368	668	668
10/24/2022	24	354	668	668
10/25/2022	1	338	600	600
10/25/2022	2	327	500	500
10/25/2022	3	319	480	480
10/25/2022	4	314	480	480
10/25/2022	5	320	480	480
10/25/2022	6	324	480	480
10/25/2022	7	326	520	520
10/25/2022	8	365	600	600
10/25/2022	9	395	668	668
10/25/2022	10	417	668	668
10/25/2022	11	426	668	668
10/25/2022	12	418	668	668
10/25/2022	13	421	668	668
10/25/2022	14	429	668	668
10/25/2022	15	427	668	668
10/25/2022	16	419	668	668
10/25/2022	17	403	668	668
10/25/2022	18	411	668	668
10/25/2022	19	402	668	668
10/25/2022	20	401	668	668
10/25/2022	21	394	668	668
10/25/2022	22	375	668	668
10/25/2022	23	361	668	668
10/25/2022	24	357	668	668
10/26/2022	1	341	600	600
10/26/2022	2	333	500	500
10/26/2022	3	322	480	480
10/26/2022	4	317	480	480
10/26/2022	5	321	480	480
10/26/2022	6	322	480	480
10/26/2022	7	328	520	520
10/26/2022	8	358	600	600
10/26/2022	9	389	668	668
10/26/2022	10	410	668	668
10/26/2022	11	419	668	668
10/26/2022	12	412	668	668
10/26/2022	13	416	668	668
10/26/2022	14	426	668	668
10/26/2022	15	421	668	668
10/26/2022	16	413	668	668
10/26/2022	17	401	668	668
10/26/2022	18	403	668	668
10/26/2022	19	396	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/26/2022	20	394	668	668
10/26/2022	21	386	668	668
10/26/2022	22	369	668	668
10/26/2022	23	357	668	668
10/26/2022	24	331	668	668
10/27/2022	1	321	550	550
10/27/2022	2	310	480	480
10/27/2022	3	300	480	480
10/27/2022	4	296	480	480
10/27/2022	5	316	480	480
10/27/2022	6	319	480	480
10/27/2022	7	322	500	500
10/27/2022	8	358	600	600
10/27/2022	9	390	668	668
10/27/2022	10	406	668	668
10/27/2022	11	412	668	668
10/27/2022	12	410	668	668
10/27/2022	13	405	668	668
10/27/2022	14	409	668	668
10/27/2022	15	403	668	668
10/27/2022	16	400	668	668
10/27/2022	17	390	668	668
10/27/2022	18	398	668	668
10/27/2022	19	390	668	668
10/27/2022	20	385	668	668
10/27/2022	21	369	668	668
10/27/2022	22	358	668	668
10/27/2022	23	345	668	668
10/27/2022	24	330	668	668
10/28/2022	1	326	550	550
10/28/2022	2	316	480	480
10/28/2022	3	306	480	480
10/28/2022	4	302	480	480
10/28/2022	5	305	480	480
10/28/2022	6	310	480	480
10/28/2022	7	318	480	480
10/28/2022	8	349	550	550
10/28/2022	9	375	600	600
10/28/2022	10	395	668	668
10/28/2022	11	407	668	668
10/28/2022	12	401	668	668
10/28/2022	13	404	668	668
10/28/2022	14	406	668	668
10/28/2022	15	403	668	668
10/28/2022	16	398	668	668
10/28/2022	17	383	668	668
10/28/2022	18	388	668	668
10/28/2022	19	388	668	668
10/28/2022	20	380	668	668
10/28/2022	21	368	668	668
10/28/2022	22	357	668	668
10/28/2022	23	344	668	668
10/28/2022	24	340	668	668
10/29/2022	1	334	550	550
10/29/2022	2	326	480	480
10/29/2022	3	316	480	480
10/29/2022	4	308	480	480
10/29/2022	5	306	480	480
10/29/2022	6	304	480	480
10/29/2022	7	305	480	480
10/29/2022	8	327	480	480
10/29/2022	9	352	550	550
10/29/2022	10	374	600	600
10/29/2022	11	386	668	668
10/29/2022	12	379	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/29/2022	13	384	668	668
10/29/2022	14	390	668	668
10/29/2022	15	389	668	668
10/29/2022	16	382	668	668
10/29/2022	17	366	668	668
10/29/2022	18	371	668	668
10/29/2022	19	375	668	668
10/29/2022	20	374	668	668
10/29/2022	21	370	668	668
10/29/2022	22	357	668	668
10/29/2022	23	350	668	668
10/29/2022	24	349	668	668
10/30/2022	1	341	668	668
10/30/2022	2	330	550	550
10/30/2022	3	318	480	480
10/30/2022	4	308	480	480
10/30/2022	5	303	480	480
10/30/2022	6	297	480	480
10/30/2022	7	292	480	480
10/30/2022	8	303	480	480
10/30/2022	9	321	480	480
10/30/2022	10	339	550	550
10/30/2022	11	350	668	668
10/30/2022	12	350	668	668
10/30/2022	13	352	668	668
10/30/2022	14	363	668	668
10/30/2022	15	356	668	668
10/30/2022	16	347	668	668
10/30/2022	17	346	668	668
10/30/2022	18	373	668	668
10/30/2022	19	375	668	668
10/30/2022	20	378	668	668
10/30/2022	21	375	668	668
10/30/2022	22	366	668	668
10/30/2022	23	352	668	668
10/30/2022	24	337	668	668
10/31/2022	1	339	668	668
10/31/2022	2	327	550	550
10/31/2022	3	315	480	480
10/31/2022	4	306	480	480
10/31/2022	5	301	480	480
10/31/2022	6	295	480	480
10/31/2022	7	290	480	480
10/31/2022	8	301	480	480
10/31/2022	9	319	480	480
10/31/2022	10	336	550	550
10/31/2022	11	348	668	668
10/31/2022	12	347	668	668
10/31/2022	13	350	668	668
10/31/2022	14	360	668	668
10/31/2022	15	353	668	668
10/31/2022	16	345	668	668
10/31/2022	17	343	668	668
10/31/2022	18	370	668	668
10/31/2022	19	372	668	668
10/31/2022	20	375	668	668
10/31/2022	21	372	668	668
10/31/2022	22	364	668	668
10/31/2022	23	349	668	668
10/31/2022	24	334	668	668
11/1/2022	1	324	668	668
11/1/2022	2	313	550	550
11/1/2022	3	301	480	480
11/1/2022	4	292	480	480
11/1/2022	5	287	480	480

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/1/2022	6	282	480	480
11/1/2022	7	277	480	480
11/1/2022	8	288	480	480
11/1/2022	9	305	480	480
11/1/2022	10	321	550	550
11/1/2022	11	332	668	668
11/1/2022	12	332	668	668
11/1/2022	13	334	668	668
11/1/2022	14	344	668	668
11/1/2022	15	338	668	668
11/1/2022	16	330	668	668
11/1/2022	17	328	668	668
11/1/2022	18	353	668	668
11/1/2022	19	356	668	668
11/1/2022	20	359	668	668
11/1/2022	21	356	668	668
11/1/2022	22	348	668	668
11/1/2022	23	334	668	668
11/1/2022	24	320	668	668
11/2/2022	1	310	480	480
11/2/2022	2	299	480	480
11/2/2022	3	286	480	480
11/2/2022	4	283	480	480
11/2/2022	5	292	480	480
11/2/2022	6	300	480	480
11/2/2022	7	304	480	480
11/2/2022	8	343	550	550
11/2/2022	9	374	668	668
11/2/2022	10	400	668	668
11/2/2022	11	411	668	668
11/2/2022	12	407	668	668
11/2/2022	13	410	668	668
11/2/2022	14	426	668	668
11/2/2022	15	424	668	668
11/2/2022	16	417	668	668
11/2/2022	17	396	668	668
11/2/2022	18	402	668	668
11/2/2022	19	397	668	668
11/2/2022	20	395	668	668
11/2/2022	21	388	668	668
11/2/2022	22	376	668	668
11/2/2022	23	362	668	668
11/2/2022	24	347	668	668
11/3/2022	1	325	550	550
11/3/2022	2	314	480	480
11/3/2022	3	304	480	480
11/3/2022	4	302	480	480
11/3/2022	5	309	480	480
11/3/2022	6	314	480	480
11/3/2022	7	318	480	480
11/3/2022	8	348	550	550
11/3/2022	9	379	668	668
11/3/2022	10	403	668	668
11/3/2022	11	403	668	668
11/3/2022	12	400	668	668
11/3/2022	13	400	668	668
11/3/2022	14	407	668	668
11/3/2022	15	406	668	668
11/3/2022	16	402	668	668
11/3/2022	17	395	668	668
11/3/2022	18	402	668	668
11/3/2022	19	393	668	668
11/3/2022	20	390	668	668
11/3/2022	21	382	668	668
11/3/2022	22	370	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/3/2022	23	356	668	668
11/3/2022	24	339	668	668
11/4/2022	1	338	668	668
11/4/2022	2	325	668	668
11/4/2022	3	312	668	668
11/4/2022	4	306	668	668
11/4/2022	5	308	668	668
11/4/2022	6	309	668	668
11/4/2022	7	315	668	668
11/4/2022	8	350	668	668
11/4/2022	9	380	668	668
11/4/2022	10	405	668	668
11/4/2022	11	413	668	668
11/4/2022	12	409	668	668
11/4/2022	13	408	668	668
11/4/2022	14	418	668	668
11/4/2022	15	418	668	668
11/4/2022	16	404	668	668
11/4/2022	17	391	668	668
11/4/2022	18	395	668	668
11/4/2022	19	392	668	668
11/4/2022	20	389	668	668
11/4/2022	21	385	668	668
11/4/2022	22	373	668	668
11/4/2022	23	362	668	668
11/4/2022	24	343	668	668
11/5/2022	1	327	668	668
11/5/2022	2	319	668	668
11/5/2022	3	313	668	668
11/5/2022	4	305	668	668
11/5/2022	5	302	668	668
11/5/2022	6	301	668	668
11/5/2022	7	302	668	668
11/5/2022	8	324	668	668
11/5/2022	9	348	668	668
11/5/2022	10	372	668	668
11/5/2022	11	385	668	668
11/5/2022	12	380	668	668
11/5/2022	13	383	668	668
11/5/2022	14	399	668	668
11/5/2022	15	397	668	668
11/5/2022	16	386	668	668
11/5/2022	17	374	668	668
11/5/2022	18	388	668	668
11/5/2022	19	384	668	668
11/5/2022	20	382	668	668
11/5/2022	21	380	668	668
11/5/2022	22	370	668	668
11/5/2022	23	359	668	668
11/5/2022	24	336	668	668
11/6/2022	1	267	500	500
11/6/2022	2	258	500	500
11/6/2022	3	247	500	500
11/6/2022	4	244	500	500
11/6/2022	5	252	550	550
11/6/2022	6	258	550	550
11/6/2022	7	262	550	550
11/6/2022	8	295	600	600
11/6/2022	9	322	600	600
11/6/2022	10	345	650	650
11/6/2022	11	354	668	668
11/6/2022	12	351	668	668
11/6/2022	13	353	668	668
11/6/2022	14	367	668	668
11/6/2022	15	366	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/6/2022	16	360	668	668
11/6/2022	17	341	668	668
11/6/2022	18	347	668	668
11/6/2022	19	342	668	668
11/6/2022	20	340	600	600
11/6/2022	21	334	600	600
11/6/2022	22	324	600	600
11/6/2022	23	312	600	600
11/6/2022	24	299	556	556
11/7/2022	1	302	480	480
11/7/2022	2	292	480	480
11/7/2022	3	284	480	480
11/7/2022	4	279	480	480
11/7/2022	5	286	480	480
11/7/2022	6	289	480	480
11/7/2022	7	297	480	480
11/7/2022	8	328	580	580
11/7/2022	9	361	668	668
11/7/2022	10	386	668	668
11/7/2022	11	399	668	668
11/7/2022	12	387	668	668
11/7/2022	13	389	668	668
11/7/2022	14	407	668	668
11/7/2022	15	402	668	668
11/7/2022	16	395	668	668
11/7/2022	17	379	668	668
11/7/2022	18	385	668	668
11/7/2022	19	375	668	668
11/7/2022	20	371	668	668
11/7/2022	21	363	668	668
11/7/2022	22	351	668	668
11/7/2022	23	336	668	668
11/7/2022	24	322	668	668
11/8/2022	1	331	580	580
11/8/2022	2	319	480	480
11/8/2022	3	310	480	480
11/8/2022	4	305	480	480
11/8/2022	5	312	480	480
11/8/2022	6	315	480	480
11/8/2022	7	317	480	480
11/8/2022	8	355	580	580
11/8/2022	9	385	668	668
11/8/2022	10	412	668	668
11/8/2022	11	421	668	668
11/8/2022	12	409	668	668
11/8/2022	13	411	668	668
11/8/2022	14	424	668	668
11/8/2022	15	422	668	668
11/8/2022	16	413	668	668
11/8/2022	17	397	668	668
11/8/2022	18	388	668	668
11/8/2022	19	405	668	668
11/8/2022	20	397	668	668
11/8/2022	21	395	668	668
11/8/2022	22	376	668	668
11/8/2022	23	362	668	668
11/8/2022	24	348	668	668
11/9/2022	1	332	668	668
11/9/2022	2	320	668	668
11/9/2022	3	312	668	668
11/9/2022	4	307	668	668
11/9/2022	5	313	668	668
11/9/2022	6	317	668	668
11/9/2022	7	319	668	668
11/9/2022	8	357	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/9/2022	9	387	668	668
11/9/2022	10	414	668	668
11/9/2022	11	424	668	668
11/9/2022	12	411	668	668
11/9/2022	13	413	668	668
11/9/2022	14	426	668	668
11/9/2022	15	424	668	668
11/9/2022	16	416	668	668
11/9/2022	17	400	668	668
11/9/2022	18	407	668	668
11/9/2022	19	399	668	668
11/9/2022	20	398	668	668
11/9/2022	21	391	668	668
11/9/2022	22	378	668	668
11/9/2022	23	364	668	668
11/9/2022	24	338	668	668
11/10/2022	1	328	668	668
11/10/2022	2	317	668	668
11/10/2022	3	309	668	668
11/10/2022	4	304	668	668
11/10/2022	5	310	668	668
11/10/2022	6	312	668	668
11/10/2022	7	313	668	668
11/10/2022	8	353	668	668
11/10/2022	9	383	668	668
11/10/2022	10	409	668	668
11/10/2022	11	414	668	668
11/10/2022	12	406	668	668
11/10/2022	13	408	668	668
11/10/2022	14	416	668	668
11/10/2022	15	414	668	668
11/10/2022	16	407	668	668
11/10/2022	17	392	668	668
11/10/2022	18	399	668	668
11/10/2022	19	391	668	668
11/10/2022	20	389	668	668
11/10/2022	21	375	668	668
11/10/2022	22	363	668	668
11/10/2022	23	349	668	668
11/10/2022	24	329	668	668
11/11/2022	1	340	668	668
11/11/2022	2	328	668	668
11/11/2022	3	320	668	668
11/11/2022	4	315	668	668
11/11/2022	5	309	668	668
11/11/2022	6	313	668	668
11/11/2022	7	314	668	668
11/11/2022	8	354	668	668
11/11/2022	9	387	668	668
11/11/2022	10	413	668	668
11/11/2022	11	423	668	668
11/11/2022	12	411	668	668
11/11/2022	13	413	668	668
11/11/2022	14	424	668	668
11/11/2022	15	422	668	668
11/11/2022	16	413	668	668
11/11/2022	17	397	668	668
11/11/2022	18	405	668	668
11/11/2022	19	396	668	668
11/11/2022	20	395	668	668
11/11/2022	21	388	668	668
11/11/2022	22	367	668	668
11/11/2022	23	353	668	668
11/11/2022	24	333	668	668
11/12/2022	1	332	500	500

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/12/2022	2	323	550	550
11/12/2022	3	317	550	550
11/12/2022	4	312	556	556
11/12/2022	5	310	556	556
11/12/2022	6	308	600	600
11/12/2022	7	312	600	600
11/12/2022	8	332	668	668
11/12/2022	9	357	668	668
11/12/2022	10	382	668	668
11/12/2022	11	393	668	668
11/12/2022	12	388	668	668
11/12/2022	13	388	668	668
11/12/2022	14	400	668	668
11/12/2022	15	396	668	668
11/12/2022	16	387	668	668
11/12/2022	17	377	668	668
11/12/2022	18	389	668	668
11/12/2022	19	385	668	668
11/12/2022	20	384	668	668
11/12/2022	21	383	668	668
11/12/2022	22	374	668	668
11/12/2022	23	364	556	556
11/12/2022	24	355	510	510
11/13/2022	1	271	500	500
11/13/2022	2	262	500	500
11/13/2022	3	251	500	500
11/13/2022	4	248	500	500
11/13/2022	5	255	550	550
11/13/2022	6	262	550	550
11/13/2022	7	266	550	550
11/13/2022	8	300	600	600
11/13/2022	9	327	600	600
11/13/2022	10	350	650	650
11/13/2022	11	359	668	668
11/13/2022	12	356	668	668
11/13/2022	13	359	668	668
11/13/2022	14	372	668	668
11/13/2022	15	371	668	668
11/13/2022	16	365	668	668
11/13/2022	17	347	668	668
11/13/2022	18	352	668	668
11/13/2022	19	347	668	668
11/13/2022	20	345	668	668
11/13/2022	21	339	668	668
11/13/2022	22	329	600	600
11/13/2022	23	317	556	556
11/13/2022	24	303	510	510
11/14/2022	1	297	668	668
11/14/2022	2	285	668	668
11/14/2022	3	280	668	668
11/14/2022	4	278	668	668
11/14/2022	5	286	668	668
11/14/2022	6	296	668	668
11/14/2022	7	301	668	668
11/14/2022	8	337	668	668
11/14/2022	9	374	668	668
11/14/2022	10	399	668	668
11/14/2022	11	412	668	668
11/14/2022	12	405	668	668
11/14/2022	13	408	668	668
11/14/2022	14	418	668	668
11/14/2022	15	418	668	668
11/14/2022	16	415	668	668
11/14/2022	17	401	668	668
11/14/2022	18	412	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/14/2022	19	399	668	668
11/14/2022	20	394	668	668
11/14/2022	21	386	668	668
11/14/2022	22	374	668	668
11/14/2022	23	359	668	668
11/14/2022	24	344	668	668
11/15/2022	1	314	668	668
11/15/2022	2	305	668	668
11/15/2022	3	295	668	668
11/15/2022	4	293	668	668
11/15/2022	5	301	668	668
11/15/2022	6	306	668	668
11/15/2022	7	310	668	668
11/15/2022	8	342	668	668
11/15/2022	9	373	668	668
11/15/2022	10	399	668	668
11/15/2022	11	413	668	668
11/15/2022	12	405	668	668
11/15/2022	13	407	668	668
11/15/2022	14	427	668	668
11/15/2022	15	429	668	668
11/15/2022	16	423	668	668
11/15/2022	17	403	668	668
11/15/2022	18	415	668	668
11/15/2022	19	402	668	668
11/15/2022	20	399	668	668
11/15/2022	21	391	668	668
11/15/2022	22	379	668	668
11/15/2022	23	361	668	668
11/15/2022	24	348	668	668
11/16/2022	1	332	668	668
11/16/2022	2	321	668	668
11/16/2022	3	308	668	668
11/16/2022	4	305	668	668
11/16/2022	5	312	668	668
11/16/2022	6	315	668	668
11/16/2022	7	319	668	668
11/16/2022	8	348	668	668
11/16/2022	9	379	668	668
11/16/2022	10	404	668	668
11/16/2022	11	415	668	668
11/16/2022	12	403	668	668
11/16/2022	13	401	668	668
11/16/2022	14	416	668	668
11/16/2022	15	412	668	668
11/16/2022	16	399	668	668
11/16/2022	17	393	668	668
11/16/2022	18	394	668	668
11/16/2022	19	385	668	668
11/16/2022	20	380	668	668
11/16/2022	21	375	668	668
11/16/2022	22	362	668	668
11/16/2022	23	347	668	668
11/16/2022	24	343	668	668
11/17/2022	1	329	668	668
11/17/2022	2	319	668	668
11/17/2022	3	310	668	668
11/17/2022	4	306	668	668
11/17/2022	5	312	668	668
11/17/2022	6	318	668	668
11/17/2022	7	319	668	668
11/17/2022	8	353	668	668
11/17/2022	9	387	668	668
11/17/2022	10	410	668	668
11/17/2022	11	421	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/17/2022	12	414	668	668
11/17/2022	13	418	668	668
11/17/2022	14	430	668	668
11/17/2022	15	428	668	668
11/17/2022	16	421	668	668
11/17/2022	17	405	668	668
11/17/2022	18	414	668	668
11/17/2022	19	405	668	668
11/17/2022	20	400	668	668
11/17/2022	21	394	668	668
11/17/2022	22	383	668	668
11/17/2022	23	368	668	668
11/17/2022	24	342	668	668
11/18/2022	1	333	668	668
11/18/2022	2	321	668	668
11/18/2022	3	313	668	668
11/18/2022	4	310	668	668
11/18/2022	5	314	668	668
11/18/2022	6	320	668	668
11/18/2022	7	321	668	668
11/18/2022	8	349	668	668
11/18/2022	9	383	668	668
11/18/2022	10	402	668	668
11/18/2022	11	412	668	668
11/18/2022	12	407	668	668
11/18/2022	13	411	668	668
11/18/2022	14	421	668	668
11/18/2022	15	417	668	668
11/18/2022	16	412	668	668
11/18/2022	17	397	668	668
11/18/2022	18	398	668	668
11/18/2022	19	394	668	668
11/18/2022	20	392	668	668
11/18/2022	21	386	668	668
11/18/2022	22	364	668	668
11/18/2022	23	352	668	668
11/18/2022	24	340	668	668
11/19/2022	1	335	668	668
11/19/2022	2	323	668	668
11/19/2022	3	314	668	668
11/19/2022	4	307	668	668
11/19/2022	5	306	668	668
11/19/2022	6	302	668	668
11/19/2022	7	304	668	668
11/19/2022	8	330	668	668
11/19/2022	9	354	668	668
11/19/2022	10	372	668	668
11/19/2022	11	381	668	668
11/19/2022	12	374	668	668
11/19/2022	13	369	668	668
11/19/2022	14	375	668	668
11/19/2022	15	376	668	668
11/19/2022	16	367	668	668
11/19/2022	17	360	668	668
11/19/2022	18	374	668	668
11/19/2022	19	377	668	668
11/19/2022	20	373	668	668
11/19/2022	21	368	668	668
11/19/2022	22	355	668	668
11/19/2022	23	341	668	668
11/19/2022	24	337	668	668
11/20/2022	1	267	550	550
11/20/2022	2	259	550	550
11/20/2022	3	251	550	550
11/20/2022	4	247	550	550

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/20/2022	5	253	550	550
11/20/2022	6	256	550	550
11/20/2022	7	263	600	600
11/20/2022	8	290	600	600
11/20/2022	9	320	650	650
11/20/2022	10	343	650	650
11/20/2022	11	354	668	668
11/20/2022	12	343	668	668
11/20/2022	13	345	668	668
11/20/2022	14	360	668	668
11/20/2022	15	357	668	668
11/20/2022	16	350	668	668
11/20/2022	17	336	668	668
11/20/2022	18	341	668	668
11/20/2022	19	333	668	668
11/20/2022	20	329	668	668
11/20/2022	21	322	668	668
11/20/2022	22	311	600	600
11/20/2022	23	298	510	500
11/20/2022	24	285	500	500
11/21/2022	1	297	668	668
11/21/2022	2	288	668	668
11/21/2022	3	279	668	668
11/21/2022	4	274	668	668
11/21/2022	5	285	668	668
11/21/2022	6	294	668	668
11/21/2022	7	300	668	668
11/21/2022	8	335	668	668
11/21/2022	9	371	668	668
11/21/2022	10	395	668	668
11/21/2022	11	409	668	668
11/21/2022	12	404	668	668
11/21/2022	13	408	668	668
11/21/2022	14	423	668	668
11/21/2022	15	423	668	668
11/21/2022	16	414	668	668
11/21/2022	17	397	668	668
11/21/2022	18	404	668	668
11/21/2022	19	391	668	668
11/21/2022	20	385	668	668
11/21/2022	21	383	668	668
11/21/2022	22	371	668	668
11/21/2022	23	357	668	668
11/21/2022	24	339	668	668
11/22/2022	1	318	668	668
11/22/2022	2	304	668	668
11/22/2022	3	295	668	668
11/22/2022	4	291	668	668
11/22/2022	5	297	668	668
11/22/2022	6	302	668	668
11/22/2022	7	303	668	668
11/22/2022	8	331	668	668
11/22/2022	9	364	668	668
11/22/2022	10	388	668	668
11/22/2022	11	398	668	668
11/22/2022	12	383	668	668
11/22/2022	13	389	668	668
11/22/2022	14	400	668	668
11/22/2022	15	404	668	668
11/22/2022	16	396	668	668
11/22/2022	17	379	668	668
11/22/2022	18	389	668	668
11/22/2022	19	380	668	668
11/22/2022	20	371	668	668
11/22/2022	21	363	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/22/2022	22	349	668	668
11/22/2022	23	342	668	668
11/22/2022	24	333	668	668
11/23/2022	1	334	668	668
11/23/2022	2	320	668	668
11/23/2022	3	308	668	668
11/23/2022	4	305	668	668
11/23/2022	5	311	668	668
11/23/2022	6	317	668	668
11/23/2022	7	315	668	668
11/23/2022	8	353	668	668
11/23/2022	9	388	668	668
11/23/2022	10	412	668	668
11/23/2022	11	425	668	668
11/23/2022	12	415	668	668
11/23/2022	13	419	668	668
11/23/2022	14	417	668	668
11/23/2022	15	416	668	668
11/23/2022	16	414	668	668
11/23/2022	17	398	668	668
11/23/2022	18	403	668	668
11/23/2022	19	393	668	668
11/23/2022	20	389	668	668
11/23/2022	21	384	668	668
11/23/2022	22	371	668	668
11/23/2022	23	352	668	668
11/23/2022	24	336	668	668
11/24/2022	1	331	668	668
11/24/2022	2	315	668	668
11/24/2022	3	308	668	668
11/24/2022	4	305	668	668
11/24/2022	5	316	668	668
11/24/2022	6	317	668	668
11/24/2022	7	320	668	668
11/24/2022	8	353	668	668
11/24/2022	9	389	668	668
11/24/2022	10	413	668	668
11/24/2022	11	426	668	668
11/24/2022	12	411	668	668
11/24/2022	13	414	668	668
11/24/2022	14	418	668	668
11/24/2022	15	424	668	668
11/24/2022	16	416	668	668
11/24/2022	17	400	668	668
11/24/2022	18	411	668	668
11/24/2022	19	402	668	668
11/24/2022	20	390	668	668
11/24/2022	21	384	668	668
11/24/2022	22	372	668	668
11/24/2022	23	353	668	668
11/24/2022	24	340	668	668
11/25/2022	1	339	668	668
11/25/2022	2	328	668	668
11/25/2022	3	318	668	668
11/25/2022	4	315	668	668
11/25/2022	5	323	668	668
11/25/2022	6	322	668	668
11/25/2022	7	329	668	668
11/25/2022	8	359	668	668
11/25/2022	9	390	668	668
11/25/2022	10	415	668	668
11/25/2022	11	422	668	668
11/25/2022	12	416	668	668
11/25/2022	13	415	668	668
11/25/2022	14	417	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/25/2022	15	416	668	668
11/25/2022	16	410	668	668
11/25/2022	17	395	668	668
11/25/2022	18	407	668	668
11/25/2022	19	396	668	668
11/25/2022	20	395	668	668
11/25/2022	21	389	668	668
11/25/2022	22	375	668	668
11/25/2022	23	363	668	668
11/25/2022	24	348	668	668
11/26/2022	1	332	668	668
11/26/2022	2	320	668	668
11/26/2022	3	312	668	668
11/26/2022	4	305	668	668
11/26/2022	5	305	668	668
11/26/2022	6	304	668	668
11/26/2022	7	308	668	668
11/26/2022	8	331	668	668
11/26/2022	9	357	668	668
11/26/2022	10	378	668	668
11/26/2022	11	389	668	668
11/26/2022	12	382	668	668
11/26/2022	13	380	668	668
11/26/2022	14	373	668	668
11/26/2022	15	369	668	668
11/26/2022	16	366	668	668
11/26/2022	17	361	668	668
11/26/2022	18	374	668	668
11/26/2022	19	368	668	668
11/26/2022	20	370	668	668
11/26/2022	21	363	668	668
11/26/2022	22	345	600	600
11/26/2022	23	333	550	550
11/26/2022	24	322	500	500
11/27/2022	1	303	668	668
11/27/2022	2	294	668	668
11/27/2022	3	287	668	668
11/27/2022	4	284	668	668
11/27/2022	5	280	668	668
11/27/2022	6	279	668	668
11/27/2022	7	280	668	668
11/27/2022	8	294	668	668
11/27/2022	9	313	668	668
11/27/2022	10	330	668	668
11/27/2022	11	342	668	668
11/27/2022	12	340	668	668
11/27/2022	13	340	668	668
11/27/2022	14	342	668	668
11/27/2022	15	341	668	668
11/27/2022	16	334	668	668
11/27/2022	17	334	668	668
11/27/2022	18	361	668	668
11/27/2022	19	358	668	668
11/27/2022	20	357	668	668
11/27/2022	21	353	668	668
11/27/2022	22	343	668	668
11/27/2022	23	330	668	668
11/27/2022	24	315	668	668
11/28/2022	1	316	600	600
11/28/2022	2	306	600	600
11/28/2022	3	298	600	600
11/28/2022	4	292	600	600
11/28/2022	5	299	650	650
11/28/2022	6	303	668	668
11/28/2022	7	312	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/28/2022	8	343	668	668
11/28/2022	9	379	668	668
11/28/2022	10	405	668	668
11/28/2022	11	419	668	668
11/28/2022	12	406	668	668
11/28/2022	13	408	668	668
11/28/2022	14	426	668	668
11/28/2022	15	422	668	668
11/28/2022	16	414	668	668
11/28/2022	17	397	668	668
11/28/2022	18	404	668	668
11/28/2022	19	394	668	668
11/28/2022	20	389	668	668
11/28/2022	21	381	668	668
11/28/2022	22	368	668	668
11/28/2022	23	353	668	668
11/28/2022	24	337	668	668
11/29/2022	1	328	668	668
11/29/2022	2	318	668	668
11/29/2022	3	309	668	668
11/29/2022	4	307	668	668
11/29/2022	5	312	668	668
11/29/2022	6	318	668	668
11/29/2022	7	320	668	668
11/29/2022	8	350	668	668
11/29/2022	9	375	668	668
11/29/2022	10	399	668	668
11/29/2022	11	415	668	668
11/29/2022	12	408	668	668
11/29/2022	13	409	668	668
11/29/2022	14	411	668	668
11/29/2022	15	411	668	668
11/29/2022	16	407	668	668
11/29/2022	17	392	668	668
11/29/2022	18	401	668	668
11/29/2022	19	390	668	668
11/29/2022	20	386	668	668
11/29/2022	21	378	668	668
11/29/2022	22	365	668	668
11/29/2022	23	348	668	668
11/29/2022	24	331	668	668
11/30/2022	1	330	668	668
11/30/2022	2	317	668	668
11/30/2022	3	307	668	668
11/30/2022	4	302	668	668
11/30/2022	5	300	668	668
11/30/2022	6	292	668	668
11/30/2022	7	297	668	668
11/30/2022	8	319	668	668
11/30/2022	9	343	668	668
11/30/2022	10	367	668	668
11/30/2022	11	382	668	668
11/30/2022	12	379	668	668
11/30/2022	13	381	668	668
11/30/2022	14	381	668	668
11/30/2022	15	387	668	668
11/30/2022	16	379	668	668
11/30/2022	17	369	668	668
11/30/2022	18	380	668	668
11/30/2022	19	372	668	668
11/30/2022	20	371	668	668
11/30/2022	21	365	668	668
11/30/2022	22	354	668	668
11/30/2022	23	341	668	668
11/30/2022	24	332	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/1/2022	1	320	668	668
12/1/2022	2	309	668	668
12/1/2022	3	300	668	668
12/1/2022	4	297	668	668
12/1/2022	5	305	668	668
12/1/2022	6	311	668	668
12/1/2022	7	313	668	668
12/1/2022	8	342	668	668
12/1/2022	9	374	668	668
12/1/2022	10	395	668	668
12/1/2022	11	412	668	668
12/1/2022	12	403	668	668
12/1/2022	13	405	668	668
12/1/2022	14	421	668	668
12/1/2022	15	421	668	668
12/1/2022	16	415	668	668
12/1/2022	17	394	668	668
12/1/2022	18	405	668	668
12/1/2022	19	391	668	668
12/1/2022	20	387	668	668
12/1/2022	21	381	668	668
12/1/2022	22	369	668	668
12/1/2022	23	354	668	668
12/1/2022	24	340	668	668
12/2/2022	1	338	668	668
12/2/2022	2	327	668	668
12/2/2022	3	316	668	668
12/2/2022	4	313	668	668
12/2/2022	5	319	668	668
12/2/2022	6	321	668	668
12/2/2022	7	325	668	668
12/2/2022	8	353	668	668
12/2/2022	9	380	668	668
12/2/2022	10	399	668	668
12/2/2022	11	412	668	668
12/2/2022	12	403	668	668
12/2/2022	13	408	668	668
12/2/2022	14	411	668	668
12/2/2022	15	411	668	668
12/2/2022	16	404	668	668
12/2/2022	17	387	668	668
12/2/2022	18	397	668	668
12/2/2022	19	384	668	668
12/2/2022	20	379	668	668
12/2/2022	21	371	668	668
12/2/2022	22	359	668	668
12/2/2022	23	344	668	668
12/2/2022	24	331	668	668
12/3/2022	1	332	668	668
12/3/2022	2	315	668	668
12/3/2022	3	305	668	668
12/3/2022	4	299	668	668
12/3/2022	5	297	668	668
12/3/2022	6	294	668	668
12/3/2022	7	294	668	668
12/3/2022	8	315	668	668
12/3/2022	9	325	668	668
12/3/2022	10	361	668	668
12/3/2022	11	383	668	668
12/3/2022	12	375	668	668
12/3/2022	13	377	668	668
12/3/2022	14	383	668	668
12/3/2022	15	381	668	668
12/3/2022	16	380	668	668
12/3/2022	17	365	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/3/2022	18	382	668	668
12/3/2022	19	374	668	668
12/3/2022	20	378	668	668
12/3/2022	21	373	668	668
12/3/2022	22	356	668	668
12/3/2022	23	335	668	668
12/3/2022	24	328	668	668
12/4/2022	1	328	668	668
12/4/2022	2	314	668	668
12/4/2022	3	304	668	668
12/4/2022	4	296	668	668
12/4/2022	5	291	668	668
12/4/2022	6	286	668	668
12/4/2022	7	282	668	668
12/4/2022	8	296	668	668
12/4/2022	9	310	668	668
12/4/2022	10	331	668	668
12/4/2022	11	343	668	668
12/4/2022	12	342	668	668
12/4/2022	13	345	668	668
12/4/2022	14	350	668	668
12/4/2022	15	348	668	668
12/4/2022	16	344	668	668
12/4/2022	17	340	668	668
12/4/2022	18	362	668	668
12/4/2022	19	362	668	668
12/4/2022	20	363	668	668
12/4/2022	21	361	668	668
12/4/2022	22	350	668	668
12/4/2022	23	333	668	668
12/4/2022	24	318	668	668
12/5/2022	1	304	600	600
12/5/2022	2	294	600	600
12/5/2022	3	286	600	600
12/5/2022	4	281	650	650
12/5/2022	5	288	650	650
12/5/2022	6	291	668	668
12/5/2022	7	300	668	668
12/5/2022	8	330	668	668
12/5/2022	9	364	668	668
12/5/2022	10	390	668	668
12/5/2022	11	402	668	668
12/5/2022	12	390	668	668
12/5/2022	13	392	668	668
12/5/2022	14	410	668	668
12/5/2022	15	400	668	668
12/5/2022	16	398	668	668
12/5/2022	17	382	668	668
12/5/2022	18	388	668	668
12/5/2022	19	378	668	668
12/5/2022	20	374	668	668
12/5/2022	21	366	668	668
12/5/2022	22	354	668	668
12/5/2022	23	339	668	668
12/5/2022	24	324	668	668
12/6/2022	1	322	600	445
12/6/2022	2	316	600	445
12/6/2022	3	306	600	445
12/6/2022	4	303	650	445
12/6/2022	5	310	650	445
12/6/2022	6	313	668	445
12/6/2022	7	313	668	445
12/6/2022	8	343	668	445
12/6/2022	9	374	668	460
12/6/2022	10	400	668	460

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/6/2022	11	413	668	460
12/6/2022	12	409	668	460
12/6/2022	13	411	668	460
12/6/2022	14	425	668	460
12/6/2022	15	415	668	460
12/6/2022	16	409	668	460
12/6/2022	17	393	668	460
12/6/2022	18	402	668	460
12/6/2022	19	389	668	460
12/6/2022	20	386	668	460
12/6/2022	21	379	668	460
12/6/2022	22	368	668	460
12/6/2022	23	354	668	460
12/6/2022	24	335	668	460
12/7/2022	1	330	668	600
12/7/2022	2	314	668	600
12/7/2022	3	306	668	600
12/7/2022	4	303	668	600
12/7/2022	5	308	668	600
12/7/2022	6	316	668	600
12/7/2022	7	319	668	600
12/7/2022	8	351	668	600
12/7/2022	9	384	668	600
12/7/2022	10	401	668	600
12/7/2022	11	415	668	600
12/7/2022	12	407	668	600
12/7/2022	13	407	668	600
12/7/2022	14	416	668	600
12/7/2022	15	420	668	600
12/7/2022	16	413	668	600
12/7/2022	17	398	668	600
12/7/2022	18	400	668	600
12/7/2022	19	392	668	600
12/7/2022	20	386	668	600
12/7/2022	21	389	668	600
12/7/2022	22	375	668	600
12/7/2022	23	359	668	600
12/7/2022	24	353	668	600
12/8/2022	1	334	668	584
12/8/2022	2	323	668	584
12/8/2022	3	314	668	584
12/8/2022	4	306	668	584
12/8/2022	5	300	668	584
12/8/2022	6	297	668	600
12/8/2022	7	298	668	600
12/8/2022	8	311	668	600
12/8/2022	9	334	668	600
12/8/2022	10	359	668	600
12/8/2022	11	372	668	600
12/8/2022	12	364	668	600
12/8/2022	13	367	668	600
12/8/2022	14	377	668	600
12/8/2022	15	374	668	600
12/8/2022	16	367	668	600
12/8/2022	17	361	668	600
12/8/2022	18	386	668	600
12/8/2022	19	383	668	600
12/8/2022	20	382	668	600
12/8/2022	21	379	668	600
12/8/2022	22	369	668	600
12/8/2022	23	354	668	584
12/8/2022	24	335	668	584
12/9/2022	1	302	600	556
12/9/2022	2	293	600	556
12/9/2022	3	284	600	556

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/9/2022	4	279	668	556
12/9/2022	5	286	668	556
12/9/2022	6	290	668	556
12/9/2022	7	298	668	556
12/9/2022	8	328	668	556
12/9/2022	9	362	668	600
12/9/2022	10	387	668	600
12/9/2022	11	400	668	600
12/9/2022	12	388	668	600
12/9/2022	13	390	668	600
12/9/2022	14	408	668	600
12/9/2022	15	403	668	600
12/9/2022	16	396	668	600
12/9/2022	17	380	668	600
12/9/2022	18	386	668	600
12/9/2022	19	376	668	600
12/9/2022	20	372	668	600
12/9/2022	21	364	668	600
12/9/2022	22	352	668	600
12/9/2022	23	337	668	600
12/9/2022	24	322	668	600
12/10/2022	1	314	668	510
12/10/2022	2	303	668	510
12/10/2022	3	293	668	510
12/10/2022	4	293	668	510
12/10/2022	5	290	668	510
12/10/2022	6	285	668	510
12/10/2022	7	289	668	547
12/10/2022	8	308	668	600
12/10/2022	9	333	668	600
12/10/2022	10	355	668	600
12/10/2022	11	365	668	600
12/10/2022	12	359	668	600
12/10/2022	13	358	668	600
12/10/2022	14	370	668	600
12/10/2022	15	369	668	600
12/10/2022	16	360	668	600
12/10/2022	17	349	668	600
12/10/2022	18	369	668	600
12/10/2022	19	362	668	600
12/10/2022	20	359	668	600
12/10/2022	21	357	668	600
12/10/2022	22	349	668	600
12/10/2022	23	336	668	600
12/10/2022	24	332	668	600
12/11/2022	1	257	668	600
12/11/2022	2	249	668	600
12/11/2022	3	242	668	600
12/11/2022	4	237	668	600
12/11/2022	5	243	668	600
12/11/2022	6	246	668	600
12/11/2022	7	253	668	600
12/11/2022	8	279	668	600
12/11/2022	9	308	668	600
12/11/2022	10	329	668	600
12/11/2022	11	340	668	600
12/11/2022	12	330	668	600
12/11/2022	13	331	668	600
12/11/2022	14	346	668	600
12/11/2022	15	343	668	600
12/11/2022	16	336	668	600
12/11/2022	17	323	668	600
12/11/2022	18	328	668	600
12/11/2022	19	320	668	600
12/11/2022	20	316	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/11/2022	21	310	668	600
12/11/2022	22	299	668	600
12/11/2022	23	286	668	600
12/11/2022	24	274	668	600
12/12/2022	1	307	668	510
12/12/2022	2	296	668	510
12/12/2022	3	288	668	510
12/12/2022	4	286	668	510
12/12/2022	5	296	668	600
12/12/2022	6	306	668	600
12/12/2022	7	311	668	600
12/12/2022	8	341	668	600
12/12/2022	9	370	668	600
12/12/2022	10	392	668	600
12/12/2022	11	406	668	600
12/12/2022	12	395	668	600
12/12/2022	13	399	668	600
12/12/2022	14	409	668	600
12/12/2022	15	406	668	600
12/12/2022	16	401	668	600
12/12/2022	17	386	668	600
12/12/2022	18	399	668	600
12/12/2022	19	388	668	600
12/12/2022	20	382	668	600
12/12/2022	21	377	668	600
12/12/2022	22	364	668	600
12/12/2022	23	347	668	600
12/12/2022	24	331	668	600
12/13/2022	1	318	668	600
12/13/2022	2	308	668	600
12/13/2022	3	300	668	600
12/13/2022	4	298	668	600
12/13/2022	5	306	668	600
12/13/2022	6	313	668	600
12/13/2022	7	313	668	600
12/13/2022	8	344	668	600
12/13/2022	9	374	668	600
12/13/2022	10	397	668	600
12/13/2022	11	412	668	600
12/13/2022	12	403	668	600
12/13/2022	13	405	668	600
12/13/2022	14	406	668	600
12/13/2022	15	403	668	600
12/13/2022	16	398	668	600
12/13/2022	17	386	668	600
12/13/2022	18	392	668	600
12/13/2022	19	380	668	600
12/13/2022	20	376	668	600
12/13/2022	21	372	668	600
12/13/2022	22	359	668	600
12/13/2022	23	345	668	600
12/13/2022	24	325	668	600
12/14/2022	1	324	668	600
12/14/2022	2	314	668	600
12/14/2022	3	307	668	600
12/14/2022	4	304	668	600
12/14/2022	5	312	668	600
12/14/2022	6	320	668	600
12/14/2022	7	319	668	600
12/14/2022	8	351	668	600
12/14/2022	9	382	668	600
12/14/2022	10	404	668	600
12/14/2022	11	413	668	600
12/14/2022	12	403	668	600
12/14/2022	13	407	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/14/2022	14	404	668	600
12/14/2022	15	401	668	600
12/14/2022	16	397	668	600
12/14/2022	17	389	668	600
12/14/2022	18	395	668	600
12/14/2022	19	384	668	600
12/14/2022	20	379	668	600
12/14/2022	21	374	668	600
12/14/2022	22	361	668	600
12/14/2022	23	343	668	600
12/14/2022	24	325	668	600
12/15/2022	1	321	668	600
12/15/2022	2	313	668	600
12/15/2022	3	305	668	600
12/15/2022	4	302	668	600
12/15/2022	5	308	668	600
12/15/2022	6	310	668	600
12/15/2022	7	316	668	600
12/15/2022	8	347	668	600
12/15/2022	9	378	668	600
12/15/2022	10	400	668	600
12/15/2022	11	414	668	600
12/15/2022	12	405	668	600
12/15/2022	13	408	668	600
12/15/2022	14	409	668	600
12/15/2022	15	409	668	600
12/15/2022	16	403	668	600
12/15/2022	17	393	668	600
12/15/2022	18	395	668	600
12/15/2022	19	383	668	600
12/15/2022	20	377	668	600
12/15/2022	21	370	668	600
12/15/2022	22	358	668	600
12/15/2022	23	343	668	600
12/15/2022	24	335	668	600
12/16/2022	1	320	668	600
12/16/2022	2	309	668	590
12/16/2022	3	306	668	590
12/16/2022	4	303	668	590
12/16/2022	5	311	668	590
12/16/2022	6	314	668	590
12/16/2022	7	318	668	600
12/16/2022	8	350	668	600
12/16/2022	9	381	668	600
12/16/2022	10	404	668	600
12/16/2022	11	420	668	600
12/16/2022	12	404	668	600
12/16/2022	13	412	668	600
12/16/2022	14	419	668	600
12/16/2022	15	416	668	600
12/16/2022	16	411	668	600
12/16/2022	17	393	668	600
12/16/2022	18	399	668	600
12/16/2022	19	387	668	600
12/16/2022	20	383	668	600
12/16/2022	21	378	668	600
12/16/2022	22	365	668	600
12/16/2022	23	352	668	600
12/16/2022	24	336	668	600
12/17/2022	1	330	668	588
12/17/2022	2	322	668	588
12/17/2022	3	312	668	588
12/17/2022	4	307	668	588
12/17/2022	5	304	668	588
12/17/2022	6	304	668	588

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/17/2022	7	308	668	588
12/17/2022	8	323	668	588
12/17/2022	9	355	668	600
12/17/2022	10	370	668	600
12/17/2022	11	386	668	600
12/17/2022	12	375	668	600
12/17/2022	13	379	668	600
12/17/2022	14	380	668	600
12/17/2022	15	379	668	600
12/17/2022	16	369	668	600
12/17/2022	17	368	668	600
12/17/2022	18	378	668	600
12/17/2022	19	371	668	600
12/17/2022	20	368	668	600
12/17/2022	21	366	668	600
12/17/2022	22	358	668	600
12/17/2022	23	344	668	588
12/17/2022	24	332	668	588
12/18/2022	1	276	668	588
12/18/2022	2	269	668	588
12/18/2022	3	263	668	588
12/18/2022	4	256	668	588
12/18/2022	5	254	668	588
12/18/2022	6	253	668	588
12/18/2022	7	251	668	588
12/18/2022	8	262	668	588
12/18/2022	9	274	668	600
12/18/2022	10	287	668	600
12/18/2022	11	295	668	600
12/18/2022	12	291	668	600
12/18/2022	13	292	668	600
12/18/2022	14	297	668	600
12/18/2022	15	298	668	600
12/18/2022	16	294	668	600
12/18/2022	17	295	668	600
12/18/2022	18	321	668	600
12/18/2022	19	320	668	600
12/18/2022	20	318	668	600
12/18/2022	21	312	668	600
12/18/2022	22	305	668	600
12/18/2022	23	291	668	600
12/18/2022	24	278	668	600
12/19/2022	1	300	668	550
12/19/2022	2	290	668	600
12/19/2022	3	282	668	600
12/19/2022	4	277	668	600
12/19/2022	5	284	668	600
12/19/2022	6	287	668	600
12/19/2022	7	295	668	600
12/19/2022	8	325	668	600
12/19/2022	9	359	668	600
12/19/2022	10	384	668	600
12/19/2022	11	397	668	600
12/19/2022	12	385	668	600
12/19/2022	13	386	668	600
12/19/2022	14	404	668	600
12/19/2022	15	400	668	600
12/19/2022	16	392	668	600
12/19/2022	17	376	668	600
12/19/2022	18	383	668	600
12/19/2022	19	373	668	600
12/19/2022	20	369	668	600
12/19/2022	21	361	668	600
12/19/2022	22	349	668	600
12/19/2022	23	334	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/19/2022	24	320	668	600
12/20/2022	1	295	600	600
12/20/2022	2	287	600	600
12/20/2022	3	281	600	600
12/20/2022	4	274	600	600
12/20/2022	5	275	668	668
12/20/2022	6	275	668	668
12/20/2022	7	290	668	668
12/20/2022	8	312	668	668
12/20/2022	9	346	668	668
12/20/2022	10	363	668	668
12/20/2022	11	380	668	668
12/20/2022	12	376	668	668
12/20/2022	13	380	668	668
12/20/2022	14	381	668	668
12/20/2022	15	382	668	668
12/20/2022	16	376	668	668
12/20/2022	17	366	668	668
12/20/2022	18	372	668	668
12/20/2022	19	366	668	668
12/20/2022	20	361	668	668
12/20/2022	21	357	668	668
12/20/2022	22	344	668	668
12/20/2022	23	331	668	668
12/20/2022	24	333	668	668
12/21/2022	1	292	600	450
12/21/2022	2	281	600	450
12/21/2022	3	275	550	450
12/21/2022	4	271	550	450
12/21/2022	5	277	550	450
12/21/2022	6	282	550	450
12/21/2022	7	285	500	450
12/21/2022	8	312	550	450
12/21/2022	9	338	600	450
12/21/2022	10	361	600	450
12/21/2022	11	370	600	450
12/21/2022	12	363	600	450
12/21/2022	13	366	600	450
12/21/2022	14	379	600	450
12/21/2022	15	375	600	450
12/21/2022	16	370	600	450
12/21/2022	17	355	600	450
12/21/2022	18	365	600	450
12/21/2022	19	354	600	450
12/21/2022	20	348	600	450
12/21/2022	21	342	600	450
12/21/2022	22	330	600	450
12/21/2022	23	317	600	450
12/21/2022	24	333	600	450
12/22/2022	1	302	556	450
12/22/2022	2	290	556	450
12/22/2022	3	283	510	450
12/22/2022	4	279	510	450
12/22/2022	5	279	510	450
12/22/2022	6	283	510	450
12/22/2022	7	288	500	450
12/22/2022	8	311	510	450
12/22/2022	9	340	556	450
12/22/2022	10	361	556	450
12/22/2022	11	372	556	450
12/22/2022	12	366	556	450
12/22/2022	13	367	556	450
12/22/2022	14	379	556	450
12/22/2022	15	378	556	450
12/22/2022	16	372	556	450

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/22/2022	17	356	556	450
12/22/2022	18	365	570	450
12/22/2022	19	354	556	450
12/22/2022	20	350	556	450
12/22/2022	21	344	556	450
12/22/2022	22	334	556	450
12/22/2022	23	321	556	450
12/22/2022	24	327	556	450
12/23/2022	1	281	556	450
12/23/2022	2	295	556	450
12/23/2022	3	286	556	450
12/23/2022	4	282	556	450
12/23/2022	5	282	556	450
12/23/2022	6	288	556	450
12/23/2022	7	293	556	450
12/23/2022	8	316	556	450
12/23/2022	9	344	556	450
12/23/2022	10	366	600	500
12/23/2022	11	377	600	500
12/23/2022	12	370	556	500
12/23/2022	13	372	556	500
12/23/2022	14	383	582	500
12/23/2022	15	383	600	500
12/23/2022	16	377	556	500
12/23/2022	17	361	556	500
12/23/2022	18	369	556	500
12/23/2022	19	359	556	450
12/23/2022	20	354	556	450
12/23/2022	21	348	556	450
12/23/2022	22	338	600	450
12/23/2022	23	325	600	450
12/23/2022	24	327	600	450
12/24/2022	1	271	455	400
12/24/2022	2	262	455	400
12/24/2022	3	241	400	350
12/24/2022	4	256	420	350
12/24/2022	5	250	420	350
12/24/2022	6	245	400	350
12/24/2022	7	239	400	350
12/24/2022	8	252	400	350
12/24/2022	9	273	420	350
12/24/2022	10	288	455	350
12/24/2022	11	298	455	350
12/24/2022	12	295	455	350
12/24/2022	13	291	455	350
12/24/2022	14	293	455	350
12/24/2022	15	287	455	350
12/24/2022	16	281	455	350
12/24/2022	17	277	455	350
12/24/2022	18	295	455	350
12/24/2022	19	291	455	350
12/24/2022	20	277	455	350
12/24/2022	21	268	455	350
12/24/2022	22	262	455	350
12/24/2022	23	257	408	400
12/24/2022	24	313	464	400
12/25/2022	1	255	460	350
12/25/2022	2	249	460	350
12/25/2022	3	243	460	350
12/25/2022	4	236	422	350
12/25/2022	5	233	412	350
12/25/2022	6	232	412	350
12/25/2022	7	227	412	350
12/25/2022	8	232	371	350
12/25/2022	9	236	371	350

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/25/2022	10	246	371	350
12/25/2022	11	256	371	350
12/25/2022	12	259	440	350
12/25/2022	13	256	433	350
12/25/2022	14	254	430	350
12/25/2022	15	255	432	350
12/25/2022	16	257	450	350
12/25/2022	17	263	455	350
12/25/2022	18	290	455	350
12/25/2022	19	292	455	350
12/25/2022	20	289	455	350
12/25/2022	21	283	455	350
12/25/2022	22	274	455	350
12/25/2022	23	260	408	350
12/25/2022	24	251	455	350
12/26/2022	1	302	455	420
12/26/2022	2	292	455	420
12/26/2022	3	283	455	420
12/26/2022	4	276	455	420
12/26/2022	5	273	455	420
12/26/2022	6	271	455	420
12/26/2022	7	269	455	420
12/26/2022	8	280	455	420
12/26/2022	9	296	455	420
12/26/2022	10	311	455	412
12/26/2022	11	315	455	412
12/26/2022	12	311	455	412
12/26/2022	13	309	455	412
12/26/2022	14	311	455	412
12/26/2022	15	310	455	412
12/26/2022	16	309	455	412
12/26/2022	17	309	455	412
12/26/2022	18	331	455	412
12/26/2022	19	328	455	412
12/26/2022	20	326	455	412
12/26/2022	21	323	455	412
12/26/2022	22	313	455	420
12/26/2022	23	300	455	420
12/26/2022	24	287	455	420
12/27/2022	1	261	455	420
12/27/2022	2	253	455	420
12/27/2022	3	246	455	420
12/27/2022	4	243	455	420
12/27/2022	5	246	455	420
12/27/2022	6	254	455	420
12/27/2022	7	270	455	420
12/27/2022	8	295	455	420
12/27/2022	9	319	455	420
12/27/2022	10	338	455	420
12/27/2022	11	350	455	420
12/27/2022	12	339	455	420
12/27/2022	13	336	455	412
12/27/2022	14	346	455	420
12/27/2022	15	344	455	412
12/27/2022	16	339	455	412
12/27/2022	17	332	455	412
12/27/2022	18	344	455	420
12/27/2022	19	333	455	420
12/27/2022	20	326	455	420
12/27/2022	21	320	455	412
12/27/2022	22	309	455	420
12/27/2022	23	295	455	420
12/27/2022	24	285	455	420
12/28/2022	1	255	400	350
12/28/2022	2	248	400	350

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/28/2022	3	243	400	350
12/28/2022	4	241	400	350
12/28/2022	5	241	400	350
12/28/2022	6	247	400	350
12/28/2022	7	259	400	350
12/28/2022	8	278	400	350
12/28/2022	9	299	400	350
12/28/2022	10	317	400	350
12/28/2022	11	324	400	350
12/28/2022	12	315	400	350
12/28/2022	13	314	400	350
12/28/2022	14	322	400	350
12/28/2022	15	319	400	350
12/28/2022	16	317	400	350
12/28/2022	17	311	400	350
12/28/2022	18	322	400	350
12/28/2022	19	314	400	350
12/28/2022	20	307	400	350
12/28/2022	21	302	400	350
12/28/2022	22	289	400	350
12/28/2022	23	277	400	350
12/28/2022	24	282	400	350
12/29/2022	1	267	400	350
12/29/2022	2	257	400	350
12/29/2022	3	251	400	350
12/29/2022	4	247	400	350
12/29/2022	5	246	400	350
12/29/2022	6	251	400	350
12/29/2022	7	261	400	350
12/29/2022	8	277	400	350
12/29/2022	9	299	400	350
12/29/2022	10	316	400	350
12/29/2022	11	334	400	350
12/29/2022	12	327	400	350
12/29/2022	13	327	400	350
12/29/2022	14	337	400	350
12/29/2022	15	337	400	350
12/29/2022	16	330	400	350
12/29/2022	17	323	400	350
12/29/2022	18	334	400	350
12/29/2022	19	324	400	350
12/29/2022	20	316	400	350
12/29/2022	21	310	400	350
12/29/2022	22	297	400	350
12/29/2022	23	285	400	350
12/29/2022	24	287	400	350
12/30/2022	1	249	400	350
12/30/2022	2	242	400	350
12/30/2022	3	235	400	350
12/30/2022	4	230	400	350
12/30/2022	5	230	400	350
12/30/2022	6	233	400	350
12/30/2022	7	236	400	350
12/30/2022	8	248	400	350
12/30/2022	9	265	400	350
12/30/2022	10	281	400	350
12/30/2022	11	295	400	350
12/30/2022	12	291	400	350
12/30/2022	13	289	400	350
12/30/2022	14	294	400	350
12/30/2022	15	290	400	350
12/30/2022	16	285	400	350
12/30/2022	17	282	400	350
12/30/2022	18	300	400	350
12/30/2022	19	296	400	350

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/30/2022	20	291	400	350
12/30/2022	21	285	400	350
12/30/2022	22	276	400	350
12/30/2022	23	265	400	350
12/30/2022	24	263	400	350
12/31/2022	1	216	334	334
12/31/2022	2	210	334	334
12/31/2022	3	202	334	334
12/31/2022	4	197	334	334
12/31/2022	5	199	334	334
12/31/2022	6	200	334	334
12/31/2022	7	202	334	334
12/31/2022	8	212	334	334
12/31/2022	9	226	334	334
12/31/2022	10	239	334	334
12/31/2022	11	245	334	334
12/31/2022	12	245	334	334
12/31/2022	13	239	334	334
12/31/2022	14	240	334	334
12/31/2022	15	237	334	334
12/31/2022	16	235	334	334
12/31/2022	17	234	334	334
12/31/2022	18	255	334	334
12/31/2022	19	254	334	334
12/31/2022	20	242	334	334
12/31/2022	21	235	334	334
12/31/2022	22	228	334	334
12/31/2022	23	222	334	334
12/31/2022	24	214	334	334
1/1/2023	1	226	334	334
1/1/2023	2	218	334	334
1/1/2023	3	211	334	334
1/1/2023	4	205	334	334
1/1/2023	5	201	334	334
1/1/2023	6	198	334	334
1/1/2023	7	194	334	334
1/1/2023	8	196	334	334
1/1/2023	9	200	334	334
1/1/2023	10	207	334	334
1/1/2023	11	215	334	334
1/1/2023	12	222	334	334
1/1/2023	13	220	334	334
1/1/2023	14	220	334	334
1/1/2023	15	219	334	334
1/1/2023	16	216	334	334
1/1/2023	17	219	334	334
1/1/2023	18	245	334	334
1/1/2023	19	248	334	334
1/1/2023	20	244	334	334
1/1/2023	21	238	334	334
1/1/2023	22	229	334	334
1/1/2023	23	219	334	334
1/1/2023	24	211	334	334
1/2/2023	1	175	334	334
1/2/2023	2	172	334	334
1/2/2023	3	166	334	334
1/2/2023	4	160	334	334
1/2/2023	5	162	334	334
1/2/2023	6	170	334	334
1/2/2023	7	179	334	334
1/2/2023	8	191	334	334
1/2/2023	9	204	334	334
1/2/2023	10	239	334	334
1/2/2023	11	247	334	334
1/2/2023	12	246	334	334

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/2/2023	13	245	334	334
1/2/2023	14	246	334	334
1/2/2023	15	246	334	334
1/2/2023	16	246	334	334
1/2/2023	17	249	334	334
1/2/2023	18	270	334	334
1/2/2023	19	264	334	334
1/2/2023	20	255	334	334
1/2/2023	21	248	334	334
1/2/2023	22	237	334	334
1/2/2023	23	226	334	334
1/2/2023	24	216	334	334
1/3/2023	1	225	394	334
1/3/2023	2	219	334	334
1/3/2023	3	215	334	334
1/3/2023	4	212	334	334
1/3/2023	5	217	334	334
1/3/2023	6	228	334	334
1/3/2023	7	246	362	362
1/3/2023	8	271	362	362
1/3/2023	9	295	450	450
1/3/2023	10	317	590	590
1/3/2023	11	331	668	600
1/3/2023	12	326	668	600
1/3/2023	13	323	668	600
1/3/2023	14	332	668	600
1/3/2023	15	330	668	600
1/3/2023	16	328	668	600
1/3/2023	17	316	668	600
1/3/2023	18	327	668	600
1/3/2023	19	321	668	600
1/3/2023	20	310	668	600
1/3/2023	21	298	668	600
1/3/2023	22	287	668	600
1/3/2023	23	275	590	590
1/3/2023	24	265	450	450
1/4/2023	1	281	668	668
1/4/2023	2	273	668	668
1/4/2023	3	266	668	668
1/4/2023	4	263	668	550
1/4/2023	5	265	668	550
1/4/2023	6	273	668	550
1/4/2023	7	287	668	668
1/4/2023	8	309	668	668
1/4/2023	9	334	668	668
1/4/2023	10	356	668	668
1/4/2023	11	367	668	668
1/4/2023	12	358	668	668
1/4/2023	13	358	668	668
1/4/2023	14	371	668	668
1/4/2023	15	368	668	668
1/4/2023	16	367	668	668
1/4/2023	17	353	668	668
1/4/2023	18	364	668	668
1/4/2023	19	358	668	668
1/4/2023	20	347	668	668
1/4/2023	21	339	668	668
1/4/2023	22	325	668	668
1/4/2023	23	312	668	668
1/4/2023	24	343	668	668
1/5/2023	1	295	668	650
1/5/2023	2	285	668	600
1/5/2023	3	277	668	500
1/5/2023	4	275	668	450
1/5/2023	5	278	668	450

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/5/2023	6	285	668	450
1/5/2023	7	289	668	450
1/5/2023	8	313	668	550
1/5/2023	9	335	668	550
1/5/2023	10	358	668	600
1/5/2023	11	369	668	650
1/5/2023	12	358	668	650
1/5/2023	13	359	668	650
1/5/2023	14	372	668	650
1/5/2023	15	370	668	650
1/5/2023	16	364	668	650
1/5/2023	17	352	668	650
1/5/2023	18	362	668	650
1/5/2023	19	352	668	650
1/5/2023	20	348	668	650
1/5/2023	21	336	668	650
1/5/2023	22	325	668	650
1/5/2023	23	312	668	650
1/5/2023	24	304	668	650
1/6/2023	1	289	650	650
1/6/2023	2	282	650	590
1/6/2023	3	272	500	500
1/6/2023	4	271	485	450
1/6/2023	5	282	500	485
1/6/2023	6	289	580	500
1/6/2023	7	303	650	500
1/6/2023	8	321	650	550
1/6/2023	9	347	668	668
1/6/2023	10	365	668	668
1/6/2023	11	375	668	668
1/6/2023	12	363	668	668
1/6/2023	13	362	668	668
1/6/2023	14	373	668	668
1/6/2023	15	371	668	668
1/6/2023	16	368	668	668
1/6/2023	17	360	668	668
1/6/2023	18	362	668	668
1/6/2023	19	355	668	668
1/6/2023	20	351	668	668
1/6/2023	21	341	668	668
1/6/2023	22	326	668	620
1/6/2023	23	318	668	620
1/6/2023	24	311	668	620
1/7/2023	1	298	550	550
1/7/2023	2	293	485	485
1/7/2023	3	286	485	485
1/7/2023	4	283	485	485
1/7/2023	5	282	485	485
1/7/2023	6	284	485	485
1/7/2023	7	284	485	485
1/7/2023	8	301	550	550
1/7/2023	9	319	668	668
1/7/2023	10	334	668	668
1/7/2023	11	346	668	668
1/7/2023	12	338	668	668
1/7/2023	13	336	668	668
1/7/2023	14	343	668	668
1/7/2023	15	340	668	668
1/7/2023	16	334	668	668
1/7/2023	17	333	668	668
1/7/2023	18	349	668	668
1/7/2023	19	343	668	668
1/7/2023	20	338	668	668
1/7/2023	21	332	668	668
1/7/2023	22	323	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/7/2023	23	317	550	550
1/7/2023	24	321	550	550
1/8/2023	1	260	550	550
1/8/2023	2	251	485	485
1/8/2023	3	246	485	485
1/8/2023	4	240	485	485
1/8/2023	5	236	485	485
1/8/2023	6	237	485	485
1/8/2023	7	237	485	485
1/8/2023	8	246	485	485
1/8/2023	9	258	550	550
1/8/2023	10	273	668	668
1/8/2023	11	285	668	668
1/8/2023	12	281	668	668
1/8/2023	13	284	668	668
1/8/2023	14	289	668	668
1/8/2023	15	290	668	668
1/8/2023	16	288	668	668
1/8/2023	17	287	668	668
1/8/2023	18	307	668	668
1/8/2023	19	311	668	668
1/8/2023	20	303	668	668
1/8/2023	21	299	668	668
1/8/2023	22	289	668	668
1/8/2023	23	277	550	550
1/8/2023	24	266	550	550
1/9/2023	1	269	650	650
1/9/2023	2	260	600	590
1/9/2023	3	253	500	500
1/9/2023	4	249	485	450
1/9/2023	5	255	500	485
1/9/2023	6	258	550	500
1/9/2023	7	265	550	500
1/9/2023	8	292	650	550
1/9/2023	9	322	668	650
1/9/2023	10	345	668	650
1/9/2023	11	356	668	650
1/9/2023	12	345	668	650
1/9/2023	13	347	668	650
1/9/2023	14	363	668	650
1/9/2023	15	359	668	650
1/9/2023	16	352	668	650
1/9/2023	17	338	668	650
1/9/2023	18	344	668	650
1/9/2023	19	335	668	650
1/9/2023	20	331	668	650
1/9/2023	21	324	668	650
1/9/2023	22	313	650	650
1/9/2023	23	300	650	650
1/9/2023	24	287	650	650
1/10/2023	1	281	550	455
1/10/2023	2	275	485	455
1/10/2023	3	268	485	455
1/10/2023	4	262	485	455
1/10/2023	5	264	485	455
1/10/2023	6	273	485	455
1/10/2023	7	290	485	464
1/10/2023	8	317	485	464
1/10/2023	9	339	550	550
1/10/2023	10	354	668	668
1/10/2023	11	367	668	668
1/10/2023	12	364	668	668
1/10/2023	13	364	668	668
1/10/2023	14	368	668	668
1/10/2023	15	366	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/10/2023	16	365	668	668
1/10/2023	17	354	668	668
1/10/2023	18	363	668	668
1/10/2023	19	356	668	668
1/10/2023	20	346	668	668
1/10/2023	21	336	668	668
1/10/2023	22	317	550	550
1/10/2023	23	304	550	550
1/10/2023	24	314	550	550
1/11/2023	1	282	550	550
1/11/2023	2	274	485	455
1/11/2023	3	266	485	455
1/11/2023	4	266	485	455
1/11/2023	5	277	485	455
1/11/2023	6	285	485	455
1/11/2023	7	293	485	455
1/11/2023	8	318	485	455
1/11/2023	9	342	550	550
1/11/2023	10	361	668	668
1/11/2023	11	368	668	668
1/11/2023	12	354	668	668
1/11/2023	13	352	668	668
1/11/2023	14	364	668	668
1/11/2023	15	363	668	668
1/11/2023	16	357	668	668
1/11/2023	17	352	668	668
1/11/2023	18	362	668	668
1/11/2023	19	354	668	668
1/11/2023	20	343	668	668
1/11/2023	21	333	668	668
1/11/2023	22	317	668	668
1/11/2023	23	302	668	668
1/11/2023	24	329	668	668
1/12/2023	1	284	550	550
1/12/2023	2	272	485	485
1/12/2023	3	271	485	485
1/12/2023	4	269	485	485
1/12/2023	5	279	485	485
1/12/2023	6	288	485	485
1/12/2023	7	290	485	485
1/12/2023	8	313	485	485
1/12/2023	9	343	550	550
1/12/2023	10	363	668	668
1/12/2023	11	366	668	668
1/12/2023	12	358	668	668
1/12/2023	13	358	668	668
1/12/2023	14	364	668	668
1/12/2023	15	361	668	668
1/12/2023	16	359	668	668
1/12/2023	17	350	668	668
1/12/2023	18	351	668	668
1/12/2023	19	345	668	668
1/12/2023	20	336	668	668
1/12/2023	21	326	668	668
1/12/2023	22	311	668	668
1/12/2023	23	298	668	668
1/12/2023	24	289	668	668
1/13/2023	1	289	550	550
1/13/2023	2	280	550	550
1/13/2023	3	271	550	550
1/13/2023	4	268	550	550
1/13/2023	5	276	550	550
1/13/2023	6	282	550	550
1/13/2023	7	281	550	550
1/13/2023	8	309	550	550

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/13/2023	9	337	550	550
1/13/2023	10	350	668	668
1/13/2023	11	365	668	668
1/13/2023	12	356	668	668
1/13/2023	13	357	668	668
1/13/2023	14	369	668	668
1/13/2023	15	367	668	668
1/13/2023	16	362	668	668
1/13/2023	17	345	668	668
1/13/2023	18	356	668	668
1/13/2023	19	346	668	668
1/13/2023	20	341	668	668
1/13/2023	21	338	668	668
1/13/2023	22	320	668	668
1/13/2023	23	308	668	668
1/13/2023	24	285	668	668
1/14/2023	1	278	550	550
1/14/2023	2	269	550	550
1/14/2023	3	263	550	550
1/14/2023	4	261	550	550
1/14/2023	5	262	550	550
1/14/2023	6	267	550	550
1/14/2023	7	273	550	550
1/14/2023	8	287	550	550
1/14/2023	9	310	550	550
1/14/2023	10	329	668	668
1/14/2023	11	340	668	668
1/14/2023	12	332	668	668
1/14/2023	13	328	668	668
1/14/2023	14	337	668	668
1/14/2023	15	332	668	668
1/14/2023	16	328	668	668
1/14/2023	17	324	668	668
1/14/2023	18	338	668	668
1/14/2023	19	333	668	668
1/14/2023	20	324	668	668
1/14/2023	21	314	668	668
1/14/2023	22	302	668	668
1/14/2023	23	290	600	600
1/14/2023	24	268	550	550
1/15/2023	1	271	550	550
1/15/2023	2	263	550	500
1/15/2023	3	257	550	455
1/15/2023	4	251	550	455
1/15/2023	5	249	550	455
1/15/2023	6	250	550	455
1/15/2023	7	255	550	550
1/15/2023	8	264	550	550
1/15/2023	9	278	550	550
1/15/2023	10	293	668	668
1/15/2023	11	299	668	668
1/15/2023	12	297	668	668
1/15/2023	13	290	668	668
1/15/2023	14	291	668	668
1/15/2023	15	288	668	668
1/15/2023	16	290	668	668
1/15/2023	17	294	668	668
1/15/2023	18	314	668	668
1/15/2023	19	316	668	668
1/15/2023	20	309	668	668
1/15/2023	21	302	668	668
1/15/2023	22	287	668	668
1/15/2023	23	274	668	500
1/15/2023	24	263	668	480
1/16/2023	1	275	550	550

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/16/2023	2	266	550	550
1/16/2023	3	259	550	550
1/16/2023	4	254	550	550
1/16/2023	5	261	550	550
1/16/2023	6	264	550	550
1/16/2023	7	271	550	550
1/16/2023	8	299	550	550
1/16/2023	9	330	550	550
1/16/2023	10	353	668	668
1/16/2023	11	364	668	668
1/16/2023	12	353	668	668
1/16/2023	13	355	668	668
1/16/2023	14	371	668	668
1/16/2023	15	367	668	668
1/16/2023	16	360	668	668
1/16/2023	17	346	668	668
1/16/2023	18	352	668	668
1/16/2023	19	343	668	668
1/16/2023	20	339	668	668
1/16/2023	21	332	668	668
1/16/2023	22	320	668	668
1/16/2023	23	307	668	668
1/16/2023	24	294	668	668
1/17/2023	1	291	668	668
1/17/2023	2	284	668	668
1/17/2023	3	280	668	550
1/17/2023	4	277	668	455
1/17/2023	5	290	668	455
1/17/2023	6	299	668	455
1/17/2023	7	307	668	550
1/17/2023	8	327	668	550
1/17/2023	9	353	668	668
1/17/2023	10	374	668	668
1/17/2023	11	383	668	668
1/17/2023	12	371	668	668
1/17/2023	13	372	668	668
1/17/2023	14	383	668	668
1/17/2023	15	381	668	668
1/17/2023	16	380	668	668
1/17/2023	17	371	668	668
1/17/2023	18	376	668	668
1/17/2023	19	369	668	668
1/17/2023	20	358	668	668
1/17/2023	21	349	668	668
1/17/2023	22	330	668	668
1/17/2023	23	317	668	668
1/17/2023	24	287	668	668
1/18/2023	1	286	668	668
1/18/2023	2	278	668	668
1/18/2023	3	273	668	550
1/18/2023	4	275	668	455
1/18/2023	5	285	668	455
1/18/2023	6	299	668	455
1/18/2023	7	303	668	550
1/18/2023	8	325	668	550
1/18/2023	9	350	668	668
1/18/2023	10	369	668	668
1/18/2023	11	376	668	668
1/18/2023	12	365	668	668
1/18/2023	13	366	668	668
1/18/2023	14	381	668	668
1/18/2023	15	379	668	668
1/18/2023	16	377	668	668
1/18/2023	17	368	668	668
1/18/2023	18	374	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/18/2023	19	367	668	668
1/18/2023	20	354	668	668
1/18/2023	21	345	668	668
1/18/2023	22	329	668	668
1/18/2023	23	314	668	668
1/18/2023	24	292	668	668
1/19/2023	1	283	668	668
1/19/2023	2	274	668	668
1/19/2023	3	269	668	550
1/19/2023	4	269	668	455
1/19/2023	5	280	668	455
1/19/2023	6	293	668	455
1/19/2023	7	295	668	550
1/19/2023	8	318	668	550
1/19/2023	9	344	668	668
1/19/2023	10	361	668	668
1/19/2023	11	369	668	668
1/19/2023	12	359	668	668
1/19/2023	13	359	668	668
1/19/2023	14	376	668	668
1/19/2023	15	377	668	668
1/19/2023	16	373	668	668
1/19/2023	17	361	668	668
1/19/2023	18	367	668	668
1/19/2023	19	363	668	668
1/19/2023	20	353	668	668
1/19/2023	21	343	668	668
1/19/2023	22	326	668	668
1/19/2023	23	314	668	668
1/19/2023	24	305	668	668
1/20/2023	1	292	668	668
1/20/2023	2	282	668	668
1/20/2023	3	275	668	550
1/20/2023	4	273	668	455
1/20/2023	5	283	668	455
1/20/2023	6	292	668	455
1/20/2023	7	299	668	550
1/20/2023	8	317	668	550
1/20/2023	9	340	668	668
1/20/2023	10	360	668	668
1/20/2023	11	371	668	668
1/20/2023	12	361	668	668
1/20/2023	13	368	668	668
1/20/2023	14	379	668	668
1/20/2023	15	379	668	668
1/20/2023	16	374	668	668
1/20/2023	17	364	668	668
1/20/2023	18	368	668	668
1/20/2023	19	363	668	668
1/20/2023	20	353	668	668
1/20/2023	21	343	668	668
1/20/2023	22	327	668	668
1/20/2023	23	314	668	668
1/20/2023	24	295	668	668
1/21/2023	1	285	668	668
1/21/2023	2	278	668	668
1/21/2023	3	276	668	550
1/21/2023	4	271	668	455
1/21/2023	5	271	668	455
1/21/2023	6	272	668	455
1/21/2023	7	280	668	550
1/21/2023	8	300	668	550
1/21/2023	9	318	668	668
1/21/2023	10	339	668	668
1/21/2023	11	350	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/21/2023	12	341	668	668
1/21/2023	13	340	668	668
1/21/2023	14	351	668	668
1/21/2023	15	347	668	668
1/21/2023	16	337	668	668
1/21/2023	17	333	668	668
1/21/2023	18	350	668	668
1/21/2023	19	346	668	668
1/21/2023	20	339	668	668
1/21/2023	21	333	668	550
1/21/2023	22	319	668	455
1/21/2023	23	308	668	455
1/21/2023	24	297	668	455
1/22/2023	1	242	478	338
1/22/2023	2	234	455	338
1/22/2023	3	227	400	338
1/22/2023	4	223	455	338
1/22/2023	5	229	455	338
1/22/2023	6	232	455	338
1/22/2023	7	238	455	338
1/22/2023	8	263	510	338
1/22/2023	9	290	600	400
1/22/2023	10	310	600	450
1/22/2023	11	320	600	500
1/22/2023	12	310	600	500
1/22/2023	13	312	600	500
1/22/2023	14	326	600	500
1/22/2023	15	323	600	500
1/22/2023	16	317	600	500
1/22/2023	17	304	600	500
1/22/2023	18	309	600	500
1/22/2023	19	301	600	500
1/22/2023	20	298	600	500
1/22/2023	21	291	600	500
1/22/2023	22	281	600	500
1/22/2023	23	270	600	500
1/22/2023	24	258	600	450
1/23/2023	1	283	600	600
1/23/2023	2	273	600	600
1/23/2023	3	266	550	550
1/23/2023	4	261	500	500
1/23/2023	5	268	455	450
1/23/2023	6	271	500	500
1/23/2023	7	278	500	500
1/23/2023	8	307	550	550
1/23/2023	9	338	650	650
1/23/2023	10	362	668	668
1/23/2023	11	374	668	668
1/23/2023	12	363	668	668
1/23/2023	13	364	668	668
1/23/2023	14	381	668	668
1/23/2023	15	377	668	668
1/23/2023	16	370	668	668
1/23/2023	17	355	668	668
1/23/2023	18	361	668	668
1/23/2023	19	352	668	668
1/23/2023	20	348	668	668
1/23/2023	21	340	668	668
1/23/2023	22	329	668	668
1/23/2023	23	315	668	668
1/23/2023	24	301	668	668
1/24/2023	1	298	668	668
1/24/2023	2	286	668	668
1/24/2023	3	278	668	668
1/24/2023	4	276	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/24/2023	5	274	668	668
1/24/2023	6	280	668	668
1/24/2023	7	294	668	668
1/24/2023	8	316	668	668
1/24/2023	9	340	668	668
1/24/2023	10	366	668	668
1/24/2023	11	375	668	668
1/24/2023	12	368	668	668
1/24/2023	13	365	668	668
1/24/2023	14	377	668	668
1/24/2023	15	375	668	668
1/24/2023	16	373	668	668
1/24/2023	17	357	668	668
1/24/2023	18	356	668	668
1/24/2023	19	355	668	668
1/24/2023	20	347	668	668
1/24/2023	21	340	668	668
1/24/2023	22	333	668	668
1/24/2023	23	321	668	668
1/24/2023	24	299	668	668
1/25/2023	1	291	668	668
1/25/2023	2	283	668	668
1/25/2023	3	278	668	668
1/25/2023	4	279	668	668
1/25/2023	5	290	668	668
1/25/2023	6	304	668	668
1/25/2023	7	308	668	668
1/25/2023	8	330	668	668
1/25/2023	9	356	668	668
1/25/2023	10	376	668	668
1/25/2023	11	382	668	668
1/25/2023	12	370	668	668
1/25/2023	13	372	668	668
1/25/2023	14	387	668	668
1/25/2023	15	384	668	668
1/25/2023	16	383	668	668
1/25/2023	17	374	668	668
1/25/2023	18	380	668	668
1/25/2023	19	372	668	668
1/25/2023	20	360	668	668
1/25/2023	21	351	668	668
1/25/2023	22	335	668	668
1/25/2023	23	320	668	668
1/25/2023	24	308	668	668
1/26/2023	1	293	668	668
1/26/2023	2	282	668	668
1/26/2023	3	276	668	668
1/26/2023	4	277	668	668
1/26/2023	5	283	668	668
1/26/2023	6	295	668	668
1/26/2023	7	297	668	668
1/26/2023	8	313	668	668
1/26/2023	9	339	668	668
1/26/2023	10	360	668	668
1/26/2023	11	368	668	668
1/26/2023	12	354	668	668
1/26/2023	13	354	668	668
1/26/2023	14	366	668	668
1/26/2023	15	364	668	668
1/26/2023	16	361	668	668
1/26/2023	17	349	668	668
1/26/2023	18	352	668	668
1/26/2023	19	349	668	668
1/26/2023	20	340	668	668
1/26/2023	21	333	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/26/2023	22	317	668	668
1/26/2023	23	307	668	668
1/26/2023	24	299	668	668
1/27/2023	1	287	668	668
1/27/2023	2	278	668	668
1/27/2023	3	271	668	668
1/27/2023	4	269	668	668
1/27/2023	5	279	668	668
1/27/2023	6	288	668	668
1/27/2023	7	295	668	668
1/27/2023	8	313	668	668
1/27/2023	9	336	668	668
1/27/2023	10	355	668	668
1/27/2023	11	366	668	668
1/27/2023	12	356	668	668
1/27/2023	13	362	668	668
1/27/2023	14	374	668	668
1/27/2023	15	372	668	668
1/27/2023	16	369	668	668
1/27/2023	17	359	668	668
1/27/2023	18	362	668	668
1/27/2023	19	358	668	668
1/27/2023	20	349	668	668
1/27/2023	21	339	668	668
1/27/2023	22	323	668	668
1/27/2023	23	310	668	668
1/27/2023	24	295	668	668
1/28/2023	1	285	668	668
1/28/2023	2	277	668	668
1/28/2023	3	271	668	668
1/28/2023	4	266	668	668
1/28/2023	5	267	668	668
1/28/2023	6	272	550	550
1/28/2023	7	275	550	550
1/28/2023	8	292	550	550
1/28/2023	9	314	600	600
1/28/2023	10	333	600	600
1/28/2023	11	342	600	600
1/28/2023	12	331	600	600
1/28/2023	13	326	600	600
1/28/2023	14	327	600	600
1/28/2023	15	322	600	600
1/28/2023	16	319	600	600
1/28/2023	17	310	550	550
1/28/2023	18	327	550	550
1/28/2023	19	329	668	668
1/28/2023	20	321	668	668
1/28/2023	21	320	668	668
1/28/2023	22	308	668	668
1/28/2023	23	295	550	550
1/28/2023	24	286	455	450
1/29/2023	1	242	550	550
1/29/2023	2	234	500	500
1/29/2023	3	228	500	410
1/29/2023	4	224	500	410
1/29/2023	5	229	500	410
1/29/2023	6	232	500	410
1/29/2023	7	239	500	500
1/29/2023	8	263	500	500
1/29/2023	9	290	550	550
1/29/2023	10	310	650	650
1/29/2023	11	321	650	650
1/29/2023	12	311	650	650
1/29/2023	13	312	650	650
1/29/2023	14	327	650	650

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
1/29/2023	15	323	650	650
1/29/2023	16	317	650	650
1/29/2023	17	304	650	650
1/29/2023	18	309	650	650
1/29/2023	19	301	650	650
1/29/2023	20	298	650	650
1/29/2023	21	292	650	650
1/29/2023	22	282	650	600
1/29/2023	23	270	650	500
1/29/2023	24	258	650	480
1/30/2023	1	283	668	600
1/30/2023	2	274	668	600
1/30/2023	3	266	668	550
1/30/2023	4	261	668	500
1/30/2023	5	268	668	450
1/30/2023	6	271	650	500
1/30/2023	7	279	650	500
1/30/2023	8	307	650	550
1/30/2023	9	339	668	650
1/30/2023	10	362	668	668
1/30/2023	11	374	668	668
1/30/2023	12	363	668	668
1/30/2023	13	365	668	668
1/30/2023	14	381	668	668
1/30/2023	15	377	668	668
1/30/2023	16	370	668	668
1/30/2023	17	355	668	668
1/30/2023	18	361	668	668
1/30/2023	19	352	668	668
1/30/2023	20	348	668	668
1/30/2023	21	341	668	668
1/30/2023	22	329	668	668
1/30/2023	23	315	668	668
1/30/2023	24	301	668	668
1/31/2023	1	283	668	668
1/31/2023	2	275	668	668
1/31/2023	3	268	668	668
1/31/2023	4	266	668	668
1/31/2023	5	270	668	668
1/31/2023	6	278	668	668
1/31/2023	7	288	668	668
1/31/2023	8	311	668	668
1/31/2023	9	335	668	668
1/31/2023	10	352	668	668
1/31/2023	11	364	668	668
1/31/2023	12	354	668	668
1/31/2023	13	353	668	668
1/31/2023	14	364	668	668
1/31/2023	15	362	668	668
1/31/2023	16	358	668	668
1/31/2023	17	346	668	668
1/31/2023	18	352	668	668
1/31/2023	19	349	668	668
1/31/2023	20	338	668	668
1/31/2023	21	329	668	668
1/31/2023	22	318	668	668
1/31/2023	23	304	668	668
1/31/2023	24	291	668	668
2/1/2023	1	282	668	668
2/1/2023	2	276	668	668
2/1/2023	3	268	668	668
2/1/2023	4	261	668	668
2/1/2023	5	276	668	668
2/1/2023	6	288	668	668
2/1/2023	7	295	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/1/2023	8	312	668	668
2/1/2023	9	343	668	668
2/1/2023	10	366	668	668
2/1/2023	11	371	668	668
2/1/2023	12	361	668	668
2/1/2023	13	360	668	668
2/1/2023	14	369	668	668
2/1/2023	15	365	668	668
2/1/2023	16	367	668	668
2/1/2023	17	345	668	668
2/1/2023	18	354	668	668
2/1/2023	19	347	668	668
2/1/2023	20	337	668	668
2/1/2023	21	326	668	668
2/1/2023	22	314	668	668
2/1/2023	23	300	668	668
2/1/2023	24	287	668	668
2/2/2023	1	262	668	668
2/2/2023	2	254	668	668
2/2/2023	3	251	668	668
2/2/2023	4	252	668	668
2/2/2023	5	265	668	668
2/2/2023	6	281	668	668
2/2/2023	7	283	668	668
2/2/2023	8	306	668	668
2/2/2023	9	330	668	668
2/2/2023	10	350	668	668
2/2/2023	11	368	668	668
2/2/2023	12	360	668	668
2/2/2023	13	364	668	668
2/2/2023	14	379	668	668
2/2/2023	15	376	668	668
2/2/2023	16	375	668	668
2/2/2023	17	360	668	668
2/2/2023	18	370	668	668
2/2/2023	19	367	668	668
2/2/2023	20	358	668	668
2/2/2023	21	349	668	668
2/2/2023	22	335	668	668
2/2/2023	23	322	668	668
2/2/2023	24	297	668	668
2/3/2023	1	299	668	668
2/3/2023	2	289	668	668
2/3/2023	3	282	668	668
2/3/2023	4	283	668	640
2/3/2023	5	295	668	640
2/3/2023	6	307	668	640
2/3/2023	7	310	668	640
2/3/2023	8	327	668	668
2/3/2023	9	356	668	668
2/3/2023	10	378	668	668
2/3/2023	11	385	668	668
2/3/2023	12	375	668	668
2/3/2023	13	376	668	668
2/3/2023	14	386	668	668
2/3/2023	15	382	668	668
2/3/2023	16	379	668	668
2/3/2023	17	369	668	668
2/3/2023	18	374	668	668
2/3/2023	19	373	668	668
2/3/2023	20	364	668	668
2/3/2023	21	352	668	668
2/3/2023	22	339	668	668
2/3/2023	23	327	668	668
2/3/2023	24	299	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/4/2023	1	288	668	668
2/4/2023	2	280	668	668
2/4/2023	3	274	668	668
2/4/2023	4	269	668	640
2/4/2023	5	270	668	640
2/4/2023	6	275	668	640
2/4/2023	7	278	668	640
2/4/2023	8	295	668	668
2/4/2023	9	317	668	668
2/4/2023	10	337	668	668
2/4/2023	11	346	668	668
2/4/2023	12	335	668	668
2/4/2023	13	329	668	668
2/4/2023	14	337	668	668
2/4/2023	15	333	668	668
2/4/2023	16	330	668	668
2/4/2023	17	321	668	668
2/4/2023	18	338	668	668
2/4/2023	19	340	668	668
2/4/2023	20	331	668	668
2/4/2023	21	324	668	668
2/4/2023	22	312	668	668
2/4/2023	23	298	668	668
2/4/2023	24	281	668	668
2/5/2023	1	238	550	550
2/5/2023	2	230	500	500
2/5/2023	3	224	500	410
2/5/2023	4	220	500	410
2/5/2023	5	225	500	410
2/5/2023	6	228	500	410
2/5/2023	7	235	500	500
2/5/2023	8	258	500	500
2/5/2023	9	285	550	550
2/5/2023	10	305	650	650
2/5/2023	11	315	650	650
2/5/2023	12	306	650	650
2/5/2023	13	307	650	650
2/5/2023	14	321	650	650
2/5/2023	15	318	650	650
2/5/2023	16	312	650	650
2/5/2023	17	299	650	650
2/5/2023	18	304	650	650
2/5/2023	19	296	650	650
2/5/2023	20	293	650	650
2/5/2023	21	287	650	650
2/5/2023	22	277	650	600
2/5/2023	23	265	650	500
2/5/2023	24	254	650	480
2/6/2023	1	299	668	668
2/6/2023	2	289	668	668
2/6/2023	3	281	668	550
2/6/2023	4	276	668	550
2/6/2023	5	283	668	550
2/6/2023	6	286	668	600
2/6/2023	7	294	668	668
2/6/2023	8	324	668	668
2/6/2023	9	358	668	668
2/6/2023	10	383	668	668
2/6/2023	11	395	668	668
2/6/2023	12	383	668	668
2/6/2023	13	385	668	668
2/6/2023	14	402	668	668
2/6/2023	15	398	668	668
2/6/2023	16	391	668	668
2/6/2023	17	375	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/6/2023	18	381	668	668
2/6/2023	19	371	668	668
2/6/2023	20	367	668	668
2/6/2023	21	360	668	668
2/6/2023	22	347	668	668
2/6/2023	23	333	668	668
2/6/2023	24	318	668	668
2/7/2023	1	304	668	668
2/7/2023	2	294	668	600
2/7/2023	3	287	600	500
2/7/2023	4	284	668	500
2/7/2023	5	296	668	500
2/7/2023	6	309	668	600
2/7/2023	7	313	668	668
2/7/2023	8	334	668	668
2/7/2023	9	361	668	668
2/7/2023	10	383	668	668
2/7/2023	11	396	668	668
2/7/2023	12	384	668	668
2/7/2023	13	386	668	668
2/7/2023	14	389	668	668
2/7/2023	15	387	668	668
2/7/2023	16	393	668	668
2/7/2023	17	378	668	668
2/7/2023	18	366	668	668
2/7/2023	19	369	668	668
2/7/2023	20	368	668	668
2/7/2023	21	358	668	668
2/7/2023	22	333	668	668
2/7/2023	23	321	668	600
2/7/2023	24	291	668	550
2/8/2023	1	319	668	668
2/8/2023	2	309	668	668
2/8/2023	3	301	668	668
2/8/2023	4	299	668	668
2/8/2023	5	311	668	668
2/8/2023	6	322	668	668
2/8/2023	7	328	668	668
2/8/2023	8	354	668	668
2/8/2023	9	382	668	668
2/8/2023	10	405	668	668
2/8/2023	11	412	668	668
2/8/2023	12	400	668	668
2/8/2023	13	399	668	668
2/8/2023	14	401	668	668
2/8/2023	15	410	668	668
2/8/2023	16	406	668	668
2/8/2023	17	393	668	668
2/8/2023	18	399	668	668
2/8/2023	19	394	668	668
2/8/2023	20	382	668	668
2/8/2023	21	371	668	668
2/8/2023	22	355	668	668
2/8/2023	23	339	668	668
2/8/2023	24	325	668	668
2/9/2023	1	299	668	668
2/9/2023	2	294	668	668
2/9/2023	3	285	668	668
2/9/2023	4	284	668	668
2/9/2023	5	297	668	668
2/9/2023	6	310	668	668
2/9/2023	7	307	668	668
2/9/2023	8	335	668	668
2/9/2023	9	361	668	668
2/9/2023	10	385	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/9/2023	11	395	668	668
2/9/2023	12	388	668	668
2/9/2023	13	392	668	668
2/9/2023	14	395	668	668
2/9/2023	15	392	668	668
2/9/2023	16	389	668	668
2/9/2023	17	371	668	668
2/9/2023	18	371	668	668
2/9/2023	19	378	668	668
2/9/2023	20	369	668	668
2/9/2023	21	361	668	668
2/9/2023	22	346	668	668
2/9/2023	23	332	668	668
2/9/2023	24	296	668	668
2/10/2023	1	301	668	668
2/10/2023	2	290	668	668
2/10/2023	3	282	668	668
2/10/2023	4	278	668	668
2/10/2023	5	283	668	668
2/10/2023	6	290	668	668
2/10/2023	7	298	668	668
2/10/2023	8	328	668	668
2/10/2023	9	352	668	668
2/10/2023	10	374	668	668
2/10/2023	11	385	668	668
2/10/2023	12	377	668	668
2/10/2023	13	378	668	668
2/10/2023	14	388	668	668
2/10/2023	15	387	668	668
2/10/2023	16	381	668	668
2/10/2023	17	361	668	668
2/10/2023	18	362	668	668
2/10/2023	19	362	668	668
2/10/2023	20	353	668	668
2/10/2023	21	345	668	668
2/10/2023	22	330	668	668
2/10/2023	23	317	668	668
2/10/2023	24	302	668	668
2/11/2023	1	306	668	600
2/11/2023	2	295	668	600
2/11/2023	3	288	668	600
2/11/2023	4	284	668	600
2/11/2023	5	284	668	600
2/11/2023	6	284	668	600
2/11/2023	7	286	668	600
2/11/2023	8	309	668	600
2/11/2023	9	326	668	600
2/11/2023	10	349	668	600
2/11/2023	11	361	668	600
2/11/2023	12	351	668	600
2/11/2023	13	350	668	600
2/11/2023	14	347	668	600
2/11/2023	15	351	668	600
2/11/2023	16	342	668	600
2/11/2023	17	333	668	600
2/11/2023	18	338	668	600
2/11/2023	19	339	668	600
2/11/2023	20	339	668	600
2/11/2023	21	330	668	600
2/11/2023	22	316	668	600
2/11/2023	23	306	668	600
2/11/2023	24	288	668	600
2/12/2023	1	246	550	550
2/12/2023	2	238	450	500
2/12/2023	3	231	450	410

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/12/2023	4	227	450	410
2/12/2023	5	233	450	410
2/12/2023	6	236	450	410
2/12/2023	7	242	450	500
2/12/2023	8	267	500	500
2/12/2023	9	295	550	550
2/12/2023	10	315	650	650
2/12/2023	11	325	650	650
2/12/2023	12	316	650	650
2/12/2023	13	317	650	650
2/12/2023	14	332	650	650
2/12/2023	15	328	650	650
2/12/2023	16	322	650	650
2/12/2023	17	309	650	650
2/12/2023	18	314	650	650
2/12/2023	19	306	650	650
2/12/2023	20	303	650	650
2/12/2023	21	296	650	650
2/12/2023	22	286	650	600
2/12/2023	23	274	650	500
2/12/2023	24	262	650	480
2/13/2023	1	297	668	668
2/13/2023	2	287	600	600
2/13/2023	3	279	600	600
2/13/2023	4	274	600	600
2/13/2023	5	281	600	600
2/13/2023	6	285	668	600
2/13/2023	7	293	668	600
2/13/2023	8	323	668	668
2/13/2023	9	356	668	668
2/13/2023	10	381	668	668
2/13/2023	11	393	668	668
2/13/2023	12	381	668	668
2/13/2023	13	383	668	668
2/13/2023	14	400	668	668
2/13/2023	15	396	668	668
2/13/2023	16	389	668	668
2/13/2023	17	373	668	668
2/13/2023	18	379	668	668
2/13/2023	19	370	668	668
2/13/2023	20	366	668	668
2/13/2023	21	358	668	668
2/13/2023	22	346	668	668
2/13/2023	23	331	668	668
2/13/2023	24	317	668	668
2/14/2023	1	305	668	668
2/14/2023	2	293	668	668
2/14/2023	3	285	668	668
2/14/2023	4	282	668	668
2/14/2023	5	294	668	668
2/14/2023	6	307	668	668
2/14/2023	7	310	668	668
2/14/2023	8	331	668	668
2/14/2023	9	359	668	668
2/14/2023	10	381	668	668
2/14/2023	11	395	668	668
2/14/2023	12	382	668	668
2/14/2023	13	384	668	668
2/14/2023	14	398	668	668
2/14/2023	15	397	668	668
2/14/2023	16	393	668	668
2/14/2023	17	377	668	668
2/14/2023	18	376	668	668
2/14/2023	19	378	668	668
2/14/2023	20	367	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/14/2023	21	357	668	668
2/14/2023	22	340	668	668
2/14/2023	23	329	668	668
2/14/2023	24	325	668	668
2/15/2023	1	315	668	668
2/15/2023	2	303	668	668
2/15/2023	3	294	668	668
2/15/2023	4	291	668	668
2/15/2023	5	296	668	668
2/15/2023	6	303	668	668
2/15/2023	7	311	668	668
2/15/2023	8	339	668	668
2/15/2023	9	370	668	668
2/15/2023	10	394	668	668
2/15/2023	11	405	668	668
2/15/2023	12	397	668	668
2/15/2023	13	398	668	668
2/15/2023	14	395	668	668
2/15/2023	15	406	668	668
2/15/2023	16	399	668	668
2/15/2023	17	378	668	668
2/15/2023	18	379	668	668
2/15/2023	19	380	668	668
2/15/2023	20	370	668	668
2/15/2023	21	362	668	668
2/15/2023	22	338	668	668
2/15/2023	23	333	668	668
2/15/2023	24	312	668	668
2/16/2023	1	304	668	668
2/16/2023	2	292	668	668
2/16/2023	3	284	668	668
2/16/2023	4	282	668	668
2/16/2023	5	286	668	668
2/16/2023	6	297	668	668
2/16/2023	7	306	668	668
2/16/2023	8	330	668	668
2/16/2023	9	354	668	668
2/16/2023	10	377	668	668
2/16/2023	11	396	668	668
2/16/2023	12	378	668	668
2/16/2023	13	379	668	668
2/16/2023	14	380	668	668
2/16/2023	15	385	668	668
2/16/2023	16	379	668	668
2/16/2023	17	357	668	668
2/16/2023	18	364	668	668
2/16/2023	19	368	668	668
2/16/2023	20	358	668	668
2/16/2023	21	349	668	668
2/16/2023	22	334	668	668
2/16/2023	23	313	668	668
2/16/2023	24	318	668	668
2/17/2023	1	302	668	668
2/17/2023	2	293	668	668
2/17/2023	3	285	668	668
2/17/2023	4	281	668	668
2/17/2023	5	292	668	668
2/17/2023	6	302	668	668
2/17/2023	7	302	668	668
2/17/2023	8	327	668	668
2/17/2023	9	354	668	668
2/17/2023	10	375	668	668
2/17/2023	11	383	668	668
2/17/2023	12	372	668	668
2/17/2023	13	369	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/17/2023	14	387	668	668
2/17/2023	15	389	668	668
2/17/2023	16	386	668	668
2/17/2023	17	369	668	668
2/17/2023	18	364	668	668
2/17/2023	19	372	668	668
2/17/2023	20	354	668	668
2/17/2023	21	353	668	668
2/17/2023	22	339	668	668
2/17/2023	23	327	668	668
2/17/2023	24	307	668	668
2/18/2023	1	286	668	668
2/18/2023	2	277	668	550
2/18/2023	3	270	580	455
2/18/2023	4	265	520	455
2/18/2023	5	266	580	455
2/18/2023	6	270	668	550
2/18/2023	7	273	668	668
2/18/2023	8	291	668	668
2/18/2023	9	310	668	668
2/18/2023	10	330	668	668
2/18/2023	11	339	668	668
2/18/2023	12	330	668	668
2/18/2023	13	327	668	668
2/18/2023	14	335	668	668
2/18/2023	15	332	668	668
2/18/2023	16	327	668	668
2/18/2023	17	319	668	668
2/18/2023	18	328	668	668
2/18/2023	19	332	668	668
2/18/2023	20	326	668	668
2/18/2023	21	318	668	668
2/18/2023	22	305	668	668
2/18/2023	23	293	668	668
2/18/2023	24	302	668	668
2/19/2023	1	253	550	550
2/19/2023	2	244	450	500
2/19/2023	3	238	450	410
2/19/2023	4	233	450	410
2/19/2023	5	239	450	410
2/19/2023	6	242	450	410
2/19/2023	7	249	450	500
2/19/2023	8	274	500	500
2/19/2023	9	303	550	550
2/19/2023	10	324	650	650
2/19/2023	11	334	650	650
2/19/2023	12	324	650	650
2/19/2023	13	326	650	650
2/19/2023	14	341	650	650
2/19/2023	15	337	650	650
2/19/2023	16	331	650	650
2/19/2023	17	317	650	650
2/19/2023	18	323	650	650
2/19/2023	19	314	650	650
2/19/2023	20	311	650	650
2/19/2023	21	304	650	650
2/19/2023	22	294	650	600
2/19/2023	23	282	650	500
2/19/2023	24	269	650	480
2/20/2023	1	288	650	650
2/20/2023	2	279	650	650
2/20/2023	3	271	650	600
2/20/2023	4	266	650	600
2/20/2023	5	273	650	600
2/20/2023	6	276	650	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/20/2023	7	284	650	650
2/20/2023	8	313	650	650
2/20/2023	9	345	650	650
2/20/2023	10	369	650	650
2/20/2023	11	381	650	650
2/20/2023	12	370	650	650
2/20/2023	13	372	650	650
2/20/2023	14	388	650	650
2/20/2023	15	384	650	650
2/20/2023	16	377	650	650
2/20/2023	17	362	650	650
2/20/2023	18	368	650	650
2/20/2023	19	359	650	650
2/20/2023	20	355	650	650
2/20/2023	21	347	650	650
2/20/2023	22	335	650	650
2/20/2023	23	321	650	650
2/20/2023	24	307	650	650
2/21/2023	1	307	668	668
2/21/2023	2	297	668	550
2/21/2023	3	290	580	455
2/21/2023	4	284	520	455
2/21/2023	5	290	580	455
2/21/2023	6	302	668	550
2/21/2023	7	311	668	668
2/21/2023	8	334	668	668
2/21/2023	9	364	668	668
2/21/2023	10	386	668	668
2/21/2023	11	400	668	668
2/21/2023	12	390	668	668
2/21/2023	13	389	668	668
2/21/2023	14	404	668	668
2/21/2023	15	401	668	668
2/21/2023	16	397	668	668
2/21/2023	17	382	668	668
2/21/2023	18	377	668	668
2/21/2023	19	374	668	668
2/21/2023	20	374	668	668
2/21/2023	21	364	668	668
2/21/2023	22	348	668	668
2/21/2023	23	335	668	668
2/21/2023	24	309	668	668
2/22/2023	1	303	668	668
2/22/2023	2	295	668	668
2/22/2023	3	287	668	668
2/22/2023	4	283	668	668
2/22/2023	5	294	668	668
2/22/2023	6	304	668	668
2/22/2023	7	304	668	668
2/22/2023	8	329	668	668
2/22/2023	9	357	668	668
2/22/2023	10	378	668	668
2/22/2023	11	386	668	668
2/22/2023	12	375	668	668
2/22/2023	13	372	668	668
2/22/2023	14	391	668	668
2/22/2023	15	392	668	668
2/22/2023	16	389	668	668
2/22/2023	17	371	668	668
2/22/2023	18	366	668	668
2/22/2023	19	366	668	668
2/22/2023	20	357	668	668
2/22/2023	21	355	668	668
2/22/2023	22	342	668	668
2/22/2023	23	329	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/22/2023	24	315	668	668
2/23/2023	1	295	668	668
2/23/2023	2	282	668	668
2/23/2023	3	275	668	668
2/23/2023	4	273	668	668
2/23/2023	5	277	668	668
2/23/2023	6	287	668	668
2/23/2023	7	295	668	668
2/23/2023	8	318	668	668
2/23/2023	9	342	668	668
2/23/2023	10	363	668	668
2/23/2023	11	382	668	668
2/23/2023	12	365	668	668
2/23/2023	13	365	668	668
2/23/2023	14	378	668	668
2/23/2023	15	374	668	668
2/23/2023	16	368	668	668
2/23/2023	17	346	668	668
2/23/2023	18	352	668	668
2/23/2023	19	356	668	668
2/23/2023	20	346	668	668
2/23/2023	21	338	668	668
2/23/2023	22	323	668	668
2/23/2023	23	312	668	668
2/23/2023	24	316	668	668
2/24/2023	1	298	668	668
2/24/2023	2	289	668	600
2/24/2023	3	281	668	550
2/24/2023	4	278	668	500
2/24/2023	5	287	668	550
2/24/2023	6	297	668	600
2/24/2023	7	301	668	668
2/24/2023	8	324	668	668
2/24/2023	9	358	668	668
2/24/2023	10	379	668	668
2/24/2023	11	390	668	668
2/24/2023	12	380	668	668
2/24/2023	13	381	668	668
2/24/2023	14	385	668	668
2/24/2023	15	384	668	668
2/24/2023	16	381	668	668
2/24/2023	17	366	668	668
2/24/2023	18	362	668	668
2/24/2023	19	368	668	668
2/24/2023	20	358	668	668
2/24/2023	21	345	668	668
2/24/2023	22	332	668	668
2/24/2023	23	319	668	668
2/24/2023	24	299	668	668
2/25/2023	1	298	647	455
2/25/2023	2	291	647	455
2/25/2023	3	282	647	455
2/25/2023	4	278	647	455
2/25/2023	5	282	647	455
2/25/2023	6	283	647	455
2/25/2023	7	289	647	455
2/25/2023	8	301	647	455
2/25/2023	9	321	647	455
2/25/2023	10	340	647	455
2/25/2023	11	353	647	455
2/25/2023	12	348	647	455
2/25/2023	13	346	647	455
2/25/2023	14	344	647	455
2/25/2023	15	340	647	455
2/25/2023	16	342	647	455

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/25/2023	17	336	647	455
2/25/2023	18	341	647	455
2/25/2023	19	344	647	455
2/25/2023	20	344	647	455
2/25/2023	21	336	647	455
2/25/2023	22	326	647	455
2/25/2023	23	308	647	455
2/25/2023	24	305	647	455
2/26/2023	1	242	647	455
2/26/2023	2	234	647	455
2/26/2023	3	227	600	455
2/26/2023	4	223	550	455
2/26/2023	5	229	555	455
2/26/2023	6	231	622	455
2/26/2023	7	238	647	455
2/26/2023	8	262	647	455
2/26/2023	9	289	647	455
2/26/2023	10	309	647	455
2/26/2023	11	320	647	455
2/26/2023	12	310	647	455
2/26/2023	13	311	647	455
2/26/2023	14	326	647	455
2/26/2023	15	322	647	455
2/26/2023	16	316	647	455
2/26/2023	17	303	647	455
2/26/2023	18	308	647	455
2/26/2023	19	301	647	455
2/26/2023	20	297	647	455
2/26/2023	21	291	647	455
2/26/2023	22	281	647	455
2/26/2023	23	269	647	455
2/26/2023	24	258	647	455
2/27/2023	1	286	668	668
2/27/2023	2	277	668	600
2/27/2023	3	269	668	550
2/27/2023	4	264	668	500
2/27/2023	5	271	668	500
2/27/2023	6	274	668	550
2/27/2023	7	282	668	600
2/27/2023	8	311	668	650
2/27/2023	9	343	668	668
2/27/2023	10	367	668	668
2/27/2023	11	378	668	668
2/27/2023	12	367	668	668
2/27/2023	13	369	668	668
2/27/2023	14	386	668	668
2/27/2023	15	382	668	668
2/27/2023	16	375	668	668
2/27/2023	17	359	668	668
2/27/2023	18	365	668	668
2/27/2023	19	356	668	668
2/27/2023	20	352	668	668
2/27/2023	21	345	668	668
2/27/2023	22	333	668	668
2/27/2023	23	319	668	668
2/27/2023	24	305	668	668
2/28/2023	1	303	668	668
2/28/2023	2	294	668	600
2/28/2023	3	284	668	550
2/28/2023	4	280	668	500
2/28/2023	5	292	668	500
2/28/2023	6	303	668	550
2/28/2023	7	302	668	600
2/28/2023	8	328	668	650
2/28/2023	9	354	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
2/28/2023	10	380	668	668
2/28/2023	11	389	668	668
2/28/2023	12	381	668	668
2/28/2023	13	386	668	668
2/28/2023	14	399	668	668
2/28/2023	15	398	668	668
2/28/2023	16	391	668	668
2/28/2023	17	373	668	668
2/28/2023	18	366	668	668
2/28/2023	19	368	668	668
2/28/2023	20	359	668	668
2/28/2023	21	350	668	668
2/28/2023	22	340	668	668
2/28/2023	23	327	668	668
2/28/2023	24	325	668	668
3/1/2023	1	287	668	668
3/1/2023	2	277	668	600
3/1/2023	3	270	668	550
3/1/2023	4	269	668	500
3/1/2023	5	283	668	500
3/1/2023	6	294	668	550
3/1/2023	7	292	668	600
3/1/2023	8	317	668	650
3/1/2023	9	345	668	668
3/1/2023	10	363	668	668
3/1/2023	11	376	668	668
3/1/2023	12	367	668	668
3/1/2023	13	370	668	668
3/1/2023	14	388	668	668
3/1/2023	15	388	668	668
3/1/2023	16	386	668	668
3/1/2023	17	372	668	668
3/1/2023	18	365	668	668
3/1/2023	19	373	668	668
3/1/2023	20	363	668	668
3/1/2023	21	352	668	668
3/1/2023	22	339	668	668
3/1/2023	23	325	668	668
3/1/2023	24	313	668	668
3/2/2023	1	296	668	668
3/2/2023	2	288	668	600
3/2/2023	3	279	668	550
3/2/2023	4	276	668	500
3/2/2023	5	286	668	500
3/2/2023	6	295	668	550
3/2/2023	7	296	668	600
3/2/2023	8	319	668	650
3/2/2023	9	351	668	668
3/2/2023	10	372	668	668
3/2/2023	11	382	668	668
3/2/2023	12	376	668	668
3/2/2023	13	381	668	668
3/2/2023	14	395	668	668
3/2/2023	15	397	668	668
3/2/2023	16	395	668	668
3/2/2023	17	378	668	668
3/2/2023	18	372	668	668
3/2/2023	19	381	668	668
3/2/2023	20	374	668	668
3/2/2023	21	363	668	668
3/2/2023	22	352	668	668
3/2/2023	23	337	668	668
3/2/2023	24	300	668	600
3/3/2023	1	305	668	668
3/3/2023	2	294	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/3/2023	3	283	668	550
3/3/2023	4	281	668	500
3/3/2023	5	283	668	500
3/3/2023	6	285	668	550
3/3/2023	7	290	668	600
3/3/2023	8	312	668	650
3/3/2023	9	343	668	668
3/3/2023	10	360	668	668
3/3/2023	11	376	668	668
3/3/2023	12	370	668	668
3/3/2023	13	375	668	668
3/3/2023	14	391	668	668
3/3/2023	15	392	668	668
3/3/2023	16	387	668	668
3/3/2023	17	368	668	668
3/3/2023	18	363	668	668
3/3/2023	19	371	668	668
3/3/2023	20	359	668	668
3/3/2023	21	351	668	668
3/3/2023	22	337	668	668
3/3/2023	23	323	668	668
3/3/2023	24	311	668	600
3/4/2023	1	300	647	500
3/4/2023	2	289	647	500
3/4/2023	3	282	647	500
3/4/2023	4	276	613	500
3/4/2023	5	276	617	500
3/4/2023	6	280	558	500
3/4/2023	7	282	550	500
3/4/2023	8	303	550	500
3/4/2023	9	325	600	500
3/4/2023	10	347	647	500
3/4/2023	11	361	647	500
3/4/2023	12	355	647	500
3/4/2023	13	354	647	500
3/4/2023	14	364	647	500
3/4/2023	15	361	647	500
3/4/2023	16	356	647	500
3/4/2023	17	347	647	500
3/4/2023	18	350	647	550
3/4/2023	19	361	647	550
3/4/2023	20	354	647	550
3/4/2023	21	347	647	500
3/4/2023	22	336	647	500
3/4/2023	23	322	647	500
3/4/2023	24	314	647	500
3/5/2023	1	253	550	500
3/5/2023	2	245	450	450
3/5/2023	3	238	450	410
3/5/2023	4	234	450	410
3/5/2023	5	240	450	410
3/5/2023	6	243	450	410
3/5/2023	7	250	450	500
3/5/2023	8	275	500	500
3/5/2023	9	303	550	550
3/5/2023	10	325	600	600
3/5/2023	11	335	600	600
3/5/2023	12	325	600	600
3/5/2023	13	327	600	600
3/5/2023	14	341	600	600
3/5/2023	15	338	600	600
3/5/2023	16	332	600	600
3/5/2023	17	318	600	600
3/5/2023	18	323	600	600
3/5/2023	19	315	600	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/5/2023	20	312	600	600
3/5/2023	21	305	600	600
3/5/2023	22	295	600	600
3/5/2023	23	282	600	500
3/5/2023	24	270	600	480
3/6/2023	1	289	647	500
3/6/2023	2	279	647	450
3/6/2023	3	271	600	450
3/6/2023	4	267	550	450
3/6/2023	5	273	647	450
3/6/2023	6	276	622	450
3/6/2023	7	284	647	500
3/6/2023	8	313	647	500
3/6/2023	9	346	647	500
3/6/2023	10	370	647	500
3/6/2023	11	382	647	500
3/6/2023	12	370	647	500
3/6/2023	13	372	647	500
3/6/2023	14	389	647	500
3/6/2023	15	385	647	500
3/6/2023	16	378	647	500
3/6/2023	17	362	647	500
3/6/2023	18	369	647	500
3/6/2023	19	359	647	500
3/6/2023	20	355	647	500
3/6/2023	21	348	647	500
3/6/2023	22	336	647	500
3/6/2023	23	322	647	500
3/6/2023	24	308	647	500
3/7/2023	1	266	550	550
3/7/2023	2	258	500	500
3/7/2023	3	251	450	500
3/7/2023	4	248	500	500
3/7/2023	5	256	500	500
3/7/2023	6	276	500	550
3/7/2023	7	282	550	550
3/7/2023	8	308	600	550
3/7/2023	9	335	668	550
3/7/2023	10	358	668	550
3/7/2023	11	370	668	600
3/7/2023	12	368	668	647
3/7/2023	13	370	668	647
3/7/2023	14	380	668	647
3/7/2023	15	376	668	647
3/7/2023	16	376	668	647
3/7/2023	17	365	668	647
3/7/2023	18	368	668	647
3/7/2023	19	372	668	647
3/7/2023	20	361	668	647
3/7/2023	21	349	668	647
3/7/2023	22	332	668	647
3/7/2023	23	318	600	647
3/7/2023	24	306	550	600
3/8/2023	1	295	550	600
3/8/2023	2	287	500	600
3/8/2023	3	280	450	600
3/8/2023	4	278	500	500
3/8/2023	5	290	500	550
3/8/2023	6	299	500	600
3/8/2023	7	299	550	600
3/8/2023	8	322	600	600
3/8/2023	9	349	668	600
3/8/2023	10	369	668	600
3/8/2023	11	381	668	600
3/8/2023	12	370	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/8/2023	13	372	668	600
3/8/2023	14	386	668	600
3/8/2023	15	385	668	600
3/8/2023	16	380	668	600
3/8/2023	17	369	668	600
3/8/2023	18	364	668	600
3/8/2023	19	374	668	600
3/8/2023	20	362	668	600
3/8/2023	21	352	668	600
3/8/2023	22	337	668	600
3/8/2023	23	323	600	600
3/8/2023	24	318	550	600
3/9/2023	1	305	550	600
3/9/2023	2	297	500	600
3/9/2023	3	289	450	600
3/9/2023	4	292	500	500
3/9/2023	5	303	500	550
3/9/2023	6	312	500	600
3/9/2023	7	308	550	600
3/9/2023	8	332	600	600
3/9/2023	9	357	668	600
3/9/2023	10	380	668	600
3/9/2023	11	390	668	600
3/9/2023	12	374	668	600
3/9/2023	13	374	668	600
3/9/2023	14	390	668	600
3/9/2023	15	390	668	600
3/9/2023	16	384	668	600
3/9/2023	17	370	668	600
3/9/2023	18	365	668	600
3/9/2023	19	370	668	600
3/9/2023	20	364	668	600
3/9/2023	21	352	668	600
3/9/2023	22	336	668	600
3/9/2023	23	323	600	600
3/9/2023	24	304	550	550
3/10/2023	1	300	550	550
3/10/2023	2	293	500	500
3/10/2023	3	283	450	450
3/10/2023	4	279	450	450
3/10/2023	5	290	500	500
3/10/2023	6	300	500	500
3/10/2023	7	302	550	550
3/10/2023	8	327	600	600
3/10/2023	9	350	668	668
3/10/2023	10	370	668	668
3/10/2023	11	382	668	668
3/10/2023	12	374	668	668
3/10/2023	13	377	668	668
3/10/2023	14	393	668	668
3/10/2023	15	392	668	668
3/10/2023	16	395	668	668
3/10/2023	17	376	668	668
3/10/2023	18	370	668	668
3/10/2023	19	381	668	668
3/10/2023	20	371	668	668
3/10/2023	21	359	668	668
3/10/2023	22	344	668	668
3/10/2023	23	331	600	600
3/10/2023	24	304	550	550
3/11/2023	1	321	647	600
3/11/2023	2	311	647	550
3/11/2023	3	304	600	500
3/11/2023	4	297	600	450
3/11/2023	5	296	600	550

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/11/2023	6	293	600	550
3/11/2023	7	293	550	550
3/11/2023	8	306	550	550
3/11/2023	9	333	550	550
3/11/2023	10	353	550	550
3/11/2023	11	365	600	600
3/11/2023	12	360	647	600
3/11/2023	13	361	647	600
3/11/2023	14	359	647	600
3/11/2023	15	363	647	600
3/11/2023	16	358	647	600
3/11/2023	17	348	647	600
3/11/2023	18	352	647	600
3/11/2023	19	364	647	600
3/11/2023	20	360	647	600
3/11/2023	21	355	647	600
3/11/2023	22	347	647	600
3/11/2023	23	338	647	600
3/11/2023	24	324	647	600
3/12/2023	1	228	500	500
3/12/2023	2	234	500	500
3/12/2023	3	236	500	500
3/12/2023	4	243	450	450
3/12/2023	5	268	500	500
3/12/2023	6	296	500	500
3/12/2023	7	316	500	500
3/12/2023	8	326	550	550
3/12/2023	9	317	550	550
3/12/2023	10	318	550	550
3/12/2023	11	333	550	550
3/12/2023	12	329	550	550
3/12/2023	13	323	550	550
3/12/2023	14	310	600	600
3/12/2023	15	315	600	600
3/12/2023	16	307	600	600
3/12/2023	17	304	600	600
3/12/2023	18	297	600	600
3/12/2023	19	287	600	600
3/12/2023	20	275	600	600
3/12/2023	21	263	600	600
3/12/2023	22	336	600	600
3/12/2023	23	323	550	550
3/12/2023	24	304	500	500
3/13/2023	1	287	550	500
3/13/2023	2	278	500	500
3/13/2023	3	270	450	450
3/13/2023	4	265	450	450
3/13/2023	5	272	500	500
3/13/2023	6	275	500	500
3/13/2023	7	283	550	550
3/13/2023	8	312	600	600
3/13/2023	9	344	600	600
3/13/2023	10	368	600	600
3/13/2023	11	380	600	600
3/13/2023	12	369	600	600
3/13/2023	13	370	600	600
3/13/2023	14	387	600	600
3/13/2023	15	383	600	600
3/13/2023	16	376	600	600
3/13/2023	17	361	600	600
3/13/2023	18	367	600	600
3/13/2023	19	357	600	600
3/13/2023	20	353	600	600
3/13/2023	21	346	600	600
3/13/2023	22	334	600	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/13/2023	23	320	600	600
3/13/2023	24	306	550	550
3/14/2023	1	281	550	550
3/14/2023	2	271	500	500
3/14/2023	3	264	450	450
3/14/2023	4	263	450	450
3/14/2023	5	276	500	500
3/14/2023	6	287	500	500
3/14/2023	7	286	550	550
3/14/2023	8	310	600	600
3/14/2023	9	338	600	600
3/14/2023	10	355	600	600
3/14/2023	11	369	600	600
3/14/2023	12	360	600	600
3/14/2023	13	362	600	600
3/14/2023	14	380	600	600
3/14/2023	15	380	600	600
3/14/2023	16	378	600	600
3/14/2023	17	355	600	600
3/14/2023	18	364	600	600
3/14/2023	19	357	600	600
3/14/2023	20	365	600	600
3/14/2023	21	345	600	600
3/14/2023	22	332	600	600
3/14/2023	23	318	600	600
3/14/2023	24	306	550	550
3/15/2023	1	301	550	500
3/15/2023	2	293	500	500
3/15/2023	3	285	450	450
3/15/2023	4	282	450	450
3/15/2023	5	293	500	500
3/15/2023	6	303	500	500
3/15/2023	7	303	550	550
3/15/2023	8	327	600	600
3/15/2023	9	354	600	600
3/15/2023	10	375	600	600
3/15/2023	11	383	600	600
3/15/2023	12	372	600	600
3/15/2023	13	369	600	600
3/15/2023	14	387	600	600
3/15/2023	15	388	600	600
3/15/2023	16	386	600	600
3/15/2023	17	369	600	600
3/15/2023	18	364	600	600
3/15/2023	19	371	600	600
3/15/2023	20	362	600	600
3/15/2023	21	352	600	600
3/15/2023	22	339	600	600
3/15/2023	23	327	600	600
3/15/2023	24	318	550	550
3/16/2023	1	305	550	500
3/16/2023	2	298	500	500
3/16/2023	3	290	450	450
3/16/2023	4	288	450	450
3/16/2023	5	299	500	500
3/16/2023	6	308	500	500
3/16/2023	7	304	550	550
3/16/2023	8	328	600	600
3/16/2023	9	352	600	600
3/16/2023	10	370	600	600
3/16/2023	11	379	600	600
3/16/2023	12	372	600	600
3/16/2023	13	377	600	600
3/16/2023	14	395	600	600
3/16/2023	15	396	600	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/16/2023	16	391	600	600
3/16/2023	17	374	600	600
3/16/2023	18	364	600	600
3/16/2023	19	375	600	600
3/16/2023	20	363	600	600
3/16/2023	21	356	600	600
3/16/2023	22	339	600	600
3/16/2023	23	326	600	600
3/16/2023	24	314	550	550
3/17/2023	1	289	500	500
3/17/2023	2	280	500	500
3/17/2023	3	271	450	450
3/17/2023	4	273	450	450
3/17/2023	5	285	500	500
3/17/2023	6	294	500	500
3/17/2023	7	294	550	550
3/17/2023	8	319	600	600
3/17/2023	9	348	600	600
3/17/2023	10	367	600	600
3/17/2023	11	379	600	600
3/17/2023	12	373	600	600
3/17/2023	13	377	600	600
3/17/2023	14	396	600	600
3/17/2023	15	390	600	600
3/17/2023	16	391	668	668
3/17/2023	17	374	600	600
3/17/2023	18	364	600	600
3/17/2023	19	375	600	600
3/17/2023	20	364	600	600
3/17/2023	21	351	600	600
3/17/2023	22	335	600	600
3/17/2023	23	326	600	600
3/17/2023	24	310	550	550
3/18/2023	1	291	600	600
3/18/2023	2	282	550	550
3/18/2023	3	278	550	550
3/18/2023	4	280	500	500
3/18/2023	5	282	450	450
3/18/2023	6	286	450	450
3/18/2023	7	306	450	450
3/18/2023	8	325	500	500
3/18/2023	9	343	550	550
3/18/2023	10	358	600	600
3/18/2023	11	349	647	600
3/18/2023	12	349	647	600
3/18/2023	13	363	647	600
3/18/2023	14	360	647	600
3/18/2023	15	355	647	600
3/18/2023	16	343	647	600
3/18/2023	17	343	647	600
3/18/2023	18	352	647	600
3/18/2023	19	344	647	600
3/18/2023	20	335	647	600
3/18/2023	21	323	647	600
3/18/2023	22	311	647	600
3/18/2023	23	308	600	600
3/18/2023	24	310	600	600
3/19/2023	1	249	500	500
3/19/2023	2	242	500	500
3/19/2023	3	237	450	450
3/19/2023	4	243	450	450
3/19/2023	5	246	450	450
3/19/2023	6	253	450	450
3/19/2023	7	279	500	500
3/19/2023	8	308	550	550

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/19/2023	9	329	550	550
3/19/2023	10	340	550	550
3/19/2023	11	330	600	600
3/19/2023	12	331	600	600
3/19/2023	13	346	600	600
3/19/2023	14	343	600	600
3/19/2023	15	337	600	600
3/19/2023	16	323	600	600
3/19/2023	17	328	600	600
3/19/2023	18	320	600	600
3/19/2023	19	316	600	600
3/19/2023	20	310	600	600
3/19/2023	21	299	600	600
3/19/2023	22	287	500	500
3/19/2023	23	274	450	450
3/19/2023	24	314	450	450
3/20/2023	1	295	500	500
3/20/2023	2	285	500	500
3/20/2023	3	277	450	450
3/20/2023	4	272	450	450
3/20/2023	5	279	500	500
3/20/2023	6	283	500	500
3/20/2023	7	291	550	550
3/20/2023	8	320	600	600
3/20/2023	9	353	600	600
3/20/2023	10	378	668	600
3/20/2023	11	390	668	668
3/20/2023	12	378	668	668
3/20/2023	13	380	668	668
3/20/2023	14	398	668	668
3/20/2023	15	393	668	668
3/20/2023	16	386	668	668
3/20/2023	17	370	668	668
3/20/2023	18	377	668	668
3/20/2023	19	367	650	600
3/20/2023	20	363	650	600
3/20/2023	21	355	650	600
3/20/2023	22	343	650	600
3/20/2023	23	329	650	600
3/20/2023	24	314	600	600
3/21/2023	1	302	500	500
3/21/2023	2	292	500	500
3/21/2023	3	286	450	450
3/21/2023	4	284	450	450
3/21/2023	5	293	500	500
3/21/2023	6	304	500	500
3/21/2023	7	303	550	550
3/21/2023	8	329	600	600
3/21/2023	9	358	600	600
3/21/2023	10	383	668	668
3/21/2023	11	396	668	668
3/21/2023	12	386	668	668
3/21/2023	13	391	668	668
3/21/2023	14	410	668	668
3/21/2023	15	408	668	668
3/21/2023	16	403	668	668
3/21/2023	17	381	668	668
3/21/2023	18	369	668	668
3/21/2023	19	381	650	600
3/21/2023	20	373	650	600
3/21/2023	21	364	650	600
3/21/2023	22	350	650	600
3/21/2023	23	336	650	600
3/21/2023	24	307	600	600
3/22/2023	1	310	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/22/2023	2	324	668	600
3/22/2023	3	325	668	600
3/22/2023	4	354	668	600
3/22/2023	5	384	668	600
3/22/2023	6	407	668	600
3/22/2023	7	420	668	600
3/22/2023	8	410	668	668
3/22/2023	9	413	668	668
3/22/2023	10	430	668	668
3/22/2023	11	429	668	668
3/22/2023	12	426	668	668
3/22/2023	13	406	668	668
3/22/2023	14	398	668	668
3/22/2023	15	403	668	668
3/22/2023	16	400	668	668
3/22/2023	17	389	668	668
3/22/2023	18	373	668	668
3/22/2023	19	358	668	668
3/22/2023	20	336	668	668
3/22/2023	21	364	668	668
3/22/2023	22	350	668	668
3/22/2023	23	336	668	668
3/22/2023	24	307	668	668
3/23/2023	1	332	600	600
3/23/2023	2	322	600	600
3/23/2023	3	313	600	600
3/23/2023	4	307	600	600
3/23/2023	5	308	600	600
3/23/2023	6	312	600	668
3/23/2023	7	316	600	668
3/23/2023	8	348	668	668
3/23/2023	9	377	668	668
3/23/2023	10	400	668	668
3/23/2023	11	413	668	668
3/23/2023	12	404	668	668
3/23/2023	13	409	668	668
3/23/2023	14	424	668	668
3/23/2023	15	421	668	668
3/23/2023	16	414	668	668
3/23/2023	17	393	668	668
3/23/2023	18	383	668	668
3/23/2023	19	395	668	668
3/23/2023	20	388	668	668
3/23/2023	21	384	668	668
3/23/2023	22	372	668	668
3/23/2023	23	359	668	668
3/23/2023	24	339	668	668
3/24/2023	1	337	668	600
3/24/2023	2	324	668	600
3/24/2023	3	312	668	600
3/24/2023	4	309	668	600
3/24/2023	5	319	668	600
3/24/2023	6	329	668	600
3/24/2023	7	326	668	600
3/24/2023	8	356	668	668
3/24/2023	9	386	668	668
3/24/2023	10	410	668	668
3/24/2023	11	425	668	668
3/24/2023	12	417	668	668
3/24/2023	13	424	668	668
3/24/2023	14	431	668	668
3/24/2023	15	435	668	668
3/24/2023	16	430	668	668
3/24/2023	17	411	668	668
3/24/2023	18	397	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/24/2023	19	413	668	668
3/24/2023	20	403	668	668
3/24/2023	21	395	668	668
3/24/2023	22	379	668	668
3/24/2023	23	364	668	668
3/24/2023	24	335	668	668
3/25/2023	1	338	668	600
3/25/2023	2	322	668	600
3/25/2023	3	314	668	550
3/25/2023	4	308	600	500
3/25/2023	5	304	550	500
3/25/2023	6	307	500	550
3/25/2023	7	309	500	550
3/25/2023	8	330	600	600
3/25/2023	9	355	600	600
3/25/2023	10	382	600	600
3/25/2023	11	400	600	600
3/25/2023	12	394	600	600
3/25/2023	13	391	600	600
3/25/2023	14	401	600	600
3/25/2023	15	408	600	600
3/25/2023	16	397	600	600
3/25/2023	17	381	600	600
3/25/2023	18	377	600	600
3/25/2023	19	386	600	600
3/25/2023	20	387	600	600
3/25/2023	21	380	600	600
3/25/2023	22	370	600	600
3/25/2023	23	350	600	600
3/25/2023	24	330	600	600
3/26/2023	1	274	600	600
3/26/2023	2	265	600	600
3/26/2023	3	258	600	600
3/26/2023	4	253	600	600
3/26/2023	5	259	600	600
3/26/2023	6	262	600	600
3/26/2023	7	270	600	600
3/26/2023	8	297	600	600
3/26/2023	9	328	600	600
3/26/2023	10	351	600	600
3/26/2023	11	362	600	600
3/26/2023	12	352	600	600
3/26/2023	13	353	600	600
3/26/2023	14	369	600	600
3/26/2023	15	365	600	600
3/26/2023	16	359	600	600
3/26/2023	17	344	600	600
3/26/2023	18	350	600	600
3/26/2023	19	341	600	600
3/26/2023	20	337	600	600
3/26/2023	21	330	600	600
3/26/2023	22	319	600	600
3/26/2023	23	305	600	600
3/26/2023	24	292	600	600
3/27/2023	1	328	668	600
3/27/2023	2	318	668	600
3/27/2023	3	309	668	600
3/27/2023	4	303	668	600
3/27/2023	5	311	668	600
3/27/2023	6	314	668	600
3/27/2023	7	323	668	600
3/27/2023	8	356	668	668
3/27/2023	9	393	668	668
3/27/2023	10	420	668	668
3/27/2023	11	434	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/27/2023	12	421	668	668
3/27/2023	13	423	668	668
3/27/2023	14	442	668	668
3/27/2023	15	438	668	668
3/27/2023	16	430	668	668
3/27/2023	17	412	668	668
3/27/2023	18	419	668	668
3/27/2023	19	408	668	668
3/27/2023	20	404	668	668
3/27/2023	21	395	668	668
3/27/2023	22	382	668	668
3/27/2023	23	366	668	668
3/27/2023	24	350	668	668
3/28/2023	1	351	668	600
3/28/2023	2	336	668	600
3/28/2023	3	326	668	600
3/28/2023	4	323	668	500
3/28/2023	5	324	668	500
3/28/2023	6	331	668	600
3/28/2023	7	330	668	647
3/28/2023	8	359	668	647
3/28/2023	9	392	668	647
3/28/2023	10	419	668	647
3/28/2023	11	434	668	647
3/28/2023	12	428	668	647
3/28/2023	13	438	668	647
3/28/2023	14	457	668	647
3/28/2023	15	457	668	647
3/28/2023	16	449	668	647
3/28/2023	17	426	668	647
3/28/2023	18	412	668	647
3/28/2023	19	424	668	647
3/28/2023	20	418	668	647
3/28/2023	21	416	668	647
3/28/2023	22	408	668	647
3/28/2023	23	396	668	647
3/28/2023	24	340	668	647
3/29/2023	1	357	668	600
3/29/2023	2	341	668	600
3/29/2023	3	334	668	600
3/29/2023	4	329	668	500
3/29/2023	5	336	668	500
3/29/2023	6	334	668	600
3/29/2023	7	331	668	600
3/29/2023	8	364	668	647
3/29/2023	9	399	668	647
3/29/2023	10	437	668	647
3/29/2023	11	449	668	647
3/29/2023	12	436	668	647
3/29/2023	13	455	668	647
3/29/2023	14	457	668	647
3/29/2023	15	458	668	647
3/29/2023	16	447	668	647
3/29/2023	17	426	668	647
3/29/2023	18	416	668	647
3/29/2023	19	423	668	647
3/29/2023	20	418	668	647
3/29/2023	21	412	668	647
3/29/2023	22	400	668	647
3/29/2023	23	389	668	647
3/29/2023	24	355	668	647
3/30/2023	1	353	668	600
3/30/2023	2	341	668	600
3/30/2023	3	331	668	600
3/30/2023	4	323	668	500

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
3/30/2023	5	327	668	500
3/30/2023	6	333	668	600
3/30/2023	7	330	668	600
3/30/2023	8	367	668	600
3/30/2023	9	403	668	647
3/30/2023	10	433	668	647
3/30/2023	11	446	668	647
3/30/2023	12	427	668	647
3/30/2023	13	435	668	647
3/30/2023	14	453	668	647
3/30/2023	15	454	668	647
3/30/2023	16	443	668	647
3/30/2023	17	425	668	647
3/30/2023	18	408	668	647
3/30/2023	19	421	668	647
3/30/2023	20	416	668	647
3/30/2023	21	411	668	647
3/30/2023	22	400	668	647
3/30/2023	23	388	668	647
3/30/2023	24	361	668	647
3/31/2023	1	354	668	600
3/31/2023	2	332	668	600
3/31/2023	3	325	668	600
3/31/2023	4	321	668	500
3/31/2023	5	323	668	500
3/31/2023	6	333	668	600
3/31/2023	7	330	668	600
3/31/2023	8	367	668	647
3/31/2023	9	400	668	647
3/31/2023	10	419	668	647
3/31/2023	11	440	668	647
3/31/2023	12	418	668	647
3/31/2023	13	426	668	647
3/31/2023	14	451	668	647
3/31/2023	15	453	668	647
3/31/2023	16	443	668	647
3/31/2023	17	419	668	647
3/31/2023	18	414	668	647
3/31/2023	19	427	668	647
3/31/2023	20	418	668	647
3/31/2023	21	412	668	647
3/31/2023	22	397	668	647
3/31/2023	23	385	668	647
3/31/2023	24	377	668	647
4/1/2023	1	370	600	647
4/1/2023	2	357	600	647
4/1/2023	3	347	600	647
4/1/2023	4	340	600	600
4/1/2023	5	334	600	500
4/1/2023	6	329	600	600
4/1/2023	7	325	600	600
4/1/2023	8	349	600	600
4/1/2023	9	372	600	600
4/1/2023	10	401	600	647
4/1/2023	11	408	600	647
4/1/2023	12	407	600	647
4/1/2023	13	408	600	647
4/1/2023	14	413	600	647
4/1/2023	15	420	668	647
4/1/2023	16	410	668	647
4/1/2023	17	393	668	647
4/1/2023	18	386	668	647
4/1/2023	19	408	668	647
4/1/2023	20	404	668	647
4/1/2023	21	397	668	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/1/2023	22	390	668	647
4/1/2023	23	384	668	647
4/1/2023	24	363	668	647
4/2/2023	1	295	550	550
4/2/2023	2	285	550	500
4/2/2023	3	277	500	450
4/2/2023	4	272	450	400
4/2/2023	5	279	450	400
4/2/2023	6	282	450	500
4/2/2023	7	290	500	550
4/2/2023	8	320	550	600
4/2/2023	9	353	608	600
4/2/2023	10	377	668	600
4/2/2023	11	390	668	600
4/2/2023	12	378	668	600
4/2/2023	13	380	668	600
4/2/2023	14	397	668	600
4/2/2023	15	393	668	600
4/2/2023	16	386	668	600
4/2/2023	17	370	668	600
4/2/2023	18	376	668	647
4/2/2023	19	366	668	600
4/2/2023	20	362	600	600
4/2/2023	21	355	600	600
4/2/2023	22	343	600	600
4/2/2023	23	328	550	600
4/2/2023	24	314	500	550
4/3/2023	1	324	600	600
4/3/2023	2	313	600	600
4/3/2023	3	304	550	550
4/3/2023	4	299	500	500
4/3/2023	5	306	450	450
4/3/2023	6	310	450	450
4/3/2023	7	319	500	500
4/3/2023	8	351	550	550
4/3/2023	9	387	600	600
4/3/2023	10	414	668	668
4/3/2023	11	428	668	668
4/3/2023	12	415	668	668
4/3/2023	13	417	668	668
4/3/2023	14	436	668	668
4/3/2023	15	432	668	668
4/3/2023	16	424	668	668
4/3/2023	17	406	668	668
4/3/2023	18	413	668	668
4/3/2023	19	402	668	668
4/3/2023	20	398	668	668
4/3/2023	21	390	600	600
4/3/2023	22	376	550	550
4/3/2023	23	361	550	550
4/3/2023	24	345	550	550
4/4/2023	1	357	600	600
4/4/2023	2	344	600	600
4/4/2023	3	332	550	550
4/4/2023	4	329	500	500
4/4/2023	5	333	450	450
4/4/2023	6	333	450	450
4/4/2023	7	332	500	500
4/4/2023	8	367	550	550
4/4/2023	9	403	600	600
4/4/2023	10	428	668	668
4/4/2023	11	441	668	668
4/4/2023	12	435	668	668
4/4/2023	13	445	668	668
4/4/2023	14	446	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/4/2023	15	447	668	668
4/4/2023	16	436	668	668
4/4/2023	17	412	668	668
4/4/2023	18	397	668	668
4/4/2023	19	409	668	668
4/4/2023	20	403	668	668
4/4/2023	21	399	600	600
4/4/2023	22	390	600	600
4/4/2023	23	379	600	600
4/4/2023	24	358	550	550
4/5/2023	1	354	600	600
4/5/2023	2	344	600	600
4/5/2023	3	328	550	550
4/5/2023	4	320	500	500
4/5/2023	5	318	450	450
4/5/2023	6	318	450	450
4/5/2023	7	324	500	500
4/5/2023	8	352	550	550
4/5/2023	9	386	600	600
4/5/2023	10	411	600	600
4/5/2023	11	427	600	600
4/5/2023	12	415	600	600
4/5/2023	13	414	600	600
4/5/2023	14	412	600	600
4/5/2023	15	408	600	600
4/5/2023	16	405	600	600
4/5/2023	17	382	600	600
4/5/2023	18	378	600	600
4/5/2023	19	388	600	600
4/5/2023	20	391	600	600
4/5/2023	21	387	600	600
4/5/2023	22	378	600	600
4/5/2023	23	361	600	600
4/5/2023	24	361	550	550
4/6/2023	1	317	600	600
4/6/2023	2	308	600	600
4/6/2023	3	299	550	550
4/6/2023	4	295	500	500
4/6/2023	5	294	450	450
4/6/2023	6	299	450	450
4/6/2023	7	308	500	500
4/6/2023	8	337	550	550
4/6/2023	9	368	600	600
4/6/2023	10	388	600	600
4/6/2023	11	398	600	600
4/6/2023	12	396	600	600
4/6/2023	13	395	600	600
4/6/2023	14	397	600	600
4/6/2023	15	393	600	600
4/6/2023	16	385	600	600
4/6/2023	17	379	600	600
4/6/2023	18	370	600	600
4/6/2023	19	379	600	600
4/6/2023	20	376	600	600
4/6/2023	21	371	600	600
4/6/2023	22	361	600	600
4/6/2023	23	348	600	600
4/6/2023	24	354	550	550
4/7/2023	1	253	500	500
4/7/2023	2	245	500	500
4/7/2023	3	238	450	450
4/7/2023	4	234	400	400
4/7/2023	5	240	450	450
4/7/2023	6	243	450	450
4/7/2023	7	250	450	450

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/7/2023	8	275	500	500
4/7/2023	9	304	500	500
4/7/2023	10	325	550	500
4/7/2023	11	335	550	500
4/7/2023	12	325	550	500
4/7/2023	13	327	550	500
4/7/2023	14	342	550	500
4/7/2023	15	338	550	500
4/7/2023	16	332	550	500
4/7/2023	17	318	550	500
4/7/2023	18	324	550	500
4/7/2023	19	315	550	500
4/7/2023	20	312	550	500
4/7/2023	21	305	500	500
4/7/2023	22	295	500	500
4/7/2023	23	283	500	500
4/7/2023	24	270	500	500
4/8/2023	1	264	500	500
4/8/2023	2	255	500	500
4/8/2023	3	248	450	450
4/8/2023	4	244	400	400
4/8/2023	5	250	450	450
4/8/2023	6	253	450	450
4/8/2023	7	260	450	450
4/8/2023	8	286	500	500
4/8/2023	9	316	500	500
4/8/2023	10	338	550	500
4/8/2023	11	349	550	500
4/8/2023	12	338	550	500
4/8/2023	13	340	550	500
4/8/2023	14	355	550	500
4/8/2023	15	352	550	500
4/8/2023	16	345	550	500
4/8/2023	17	331	550	500
4/8/2023	18	337	550	500
4/8/2023	19	328	550	500
4/8/2023	20	325	550	500
4/8/2023	21	318	500	500
4/8/2023	22	307	500	500
4/8/2023	23	294	500	500
4/8/2023	24	281	500	500
4/9/2023	1	264	450	450
4/9/2023	2	255	450	450
4/9/2023	3	248	450	450
4/9/2023	4	244	450	450
4/9/2023	5	250	450	450
4/9/2023	6	253	450	450
4/9/2023	7	260	450	450
4/9/2023	8	287	500	550
4/9/2023	9	316	600	600
4/9/2023	10	338	600	600
4/9/2023	11	349	600	600
4/9/2023	12	339	600	600
4/9/2023	13	340	600	600
4/9/2023	14	356	600	600
4/9/2023	15	352	600	600
4/9/2023	16	346	600	600
4/9/2023	17	331	600	600
4/9/2023	18	337	600	600
4/9/2023	19	328	600	600
4/9/2023	20	325	600	600
4/9/2023	21	318	550	550
4/9/2023	22	307	500	500
4/9/2023	23	294	450	450
4/9/2023	24	281	450	450

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/10/2023	1	292	500	500
4/10/2023	2	283	450	500
4/10/2023	3	275	450	450
4/10/2023	4	270	450	450
4/10/2023	5	277	450	450
4/10/2023	6	280	450	450
4/10/2023	7	288	500	500
4/10/2023	8	317	550	550
4/10/2023	9	350	600	600
4/10/2023	10	374	600	600
4/10/2023	11	387	600	600
4/10/2023	12	375	600	600
4/10/2023	13	377	600	600
4/10/2023	14	394	600	600
4/10/2023	15	390	600	600
4/10/2023	16	383	600	600
4/10/2023	17	367	600	600
4/10/2023	18	373	600	600
4/10/2023	19	364	600	600
4/10/2023	20	360	600	600
4/10/2023	21	352	600	600
4/10/2023	22	340	550	550
4/10/2023	23	326	500	500
4/10/2023	24	312	500	500
4/11/2023	1	333	600	600
4/11/2023	2	322	550	550
4/11/2023	3	313	550	550
4/11/2023	4	308	500	500
4/11/2023	5	315	450	450
4/11/2023	6	319	500	500
4/11/2023	7	328	500	500
4/11/2023	8	362	600	600
4/11/2023	9	399	600	600
4/11/2023	10	427	600	600
4/11/2023	11	441	668	668
4/11/2023	12	428	668	668
4/11/2023	13	430	668	668
4/11/2023	14	449	668	668
4/11/2023	15	445	668	668
4/11/2023	16	436	668	668
4/11/2023	17	418	668	668
4/11/2023	18	426	668	668
4/11/2023	19	415	668	668
4/11/2023	20	410	668	668
4/11/2023	21	401	668	668
4/11/2023	22	388	668	668
4/11/2023	23	372	668	668
4/11/2023	24	355	600	600
4/12/2023	1	359	668	600
4/12/2023	2	346	668	550
4/12/2023	3	336	668	550
4/12/2023	4	332	668	500
4/12/2023	5	337	668	450
4/12/2023	6	337	668	500
4/12/2023	7	335	668	500
4/12/2023	8	372	668	600
4/12/2023	9	408	668	600
4/12/2023	10	432	668	600
4/12/2023	11	444	668	668
4/12/2023	12	439	668	668
4/12/2023	13	448	668	668
4/12/2023	14	446	668	668
4/12/2023	15	446	668	668
4/12/2023	16	436	668	668
4/12/2023	17	426	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/12/2023	18	400	668	668
4/12/2023	19	412	668	668
4/12/2023	20	407	668	668
4/12/2023	21	403	668	668
4/12/2023	22	393	668	668
4/12/2023	23	382	668	668
4/12/2023	24	356	600	600
4/13/2023	1	354	668	600
4/13/2023	2	339	600	550
4/13/2023	3	330	600	550
4/13/2023	4	324	600	550
4/13/2023	5	330	600	550
4/13/2023	6	332	600	600
4/13/2023	7	340	668	600
4/13/2023	8	374	668	600
4/13/2023	9	403	668	600
4/13/2023	10	430	668	668
4/13/2023	11	438	668	668
4/13/2023	12	430	668	668
4/13/2023	13	441	668	668
4/13/2023	14	441	668	668
4/13/2023	15	441	668	668
4/13/2023	16	435	668	668
4/13/2023	17	414	668	668
4/13/2023	18	408	668	668
4/13/2023	19	420	668	668
4/13/2023	20	409	668	668
4/13/2023	21	406	668	668
4/13/2023	22	399	668	668
4/13/2023	23	384	668	668
4/13/2023	24	367	600	600
4/14/2023	1	344	600	600
4/14/2023	2	332	550	550
4/14/2023	3	324	550	550
4/14/2023	4	318	550	550
4/14/2023	5	323	550	550
4/14/2023	6	326	600	600
4/14/2023	7	331	600	600
4/14/2023	8	366	600	600
4/14/2023	9	393	600	600
4/14/2023	10	418	600	600
4/14/2023	11	425	600	600
4/14/2023	12	415	600	600
4/14/2023	13	414	600	600
4/14/2023	14	425	600	600
4/14/2023	15	419	600	600
4/14/2023	16	413	600	600
4/14/2023	17	398	600	600
4/14/2023	18	392	600	600
4/14/2023	19	396	600	600
4/14/2023	20	392	600	600
4/14/2023	21	395	600	600
4/14/2023	22	381	600	600
4/14/2023	23	370	600	600
4/14/2023	24	353	600	600
4/15/2023	1	342	600	600
4/15/2023	2	330	550	550
4/15/2023	3	317	550	550
4/15/2023	4	311	550	550
4/15/2023	5	305	550	550
4/15/2023	6	304	550	550
4/15/2023	7	301	550	550
4/15/2023	8	323	550	550
4/15/2023	9	345	600	600
4/15/2023	10	371	600	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/15/2023	11	381	600	600
4/15/2023	12	380	600	600
4/15/2023	13	381	600	600
4/15/2023	14	394	600	600
4/15/2023	15	395	600	600
4/15/2023	16	386	600	600
4/15/2023	17	370	600	600
4/15/2023	18	366	600	600
4/15/2023	19	381	600	600
4/15/2023	20	377	600	600
4/15/2023	21	372	600	600
4/15/2023	22	366	600	600
4/15/2023	23	354	600	600
4/15/2023	24	353	600	600
4/16/2023	1	269	450	450
4/16/2023	2	260	450	450
4/16/2023	3	253	450	450
4/16/2023	4	248	450	450
4/16/2023	5	254	450	450
4/16/2023	6	257	450	450
4/16/2023	7	265	450	450
4/16/2023	8	292	500	550
4/16/2023	9	322	600	600
4/16/2023	10	344	600	600
4/16/2023	11	355	600	600
4/16/2023	12	345	600	600
4/16/2023	13	346	600	600
4/16/2023	14	362	600	600
4/16/2023	15	358	600	600
4/16/2023	16	352	600	600
4/16/2023	17	337	600	600
4/16/2023	18	343	600	600
4/16/2023	19	334	600	600
4/16/2023	20	331	600	600
4/16/2023	21	324	550	550
4/16/2023	22	313	500	500
4/16/2023	23	300	450	450
4/16/2023	24	286	450	450
4/17/2023	1	326	668	480
4/17/2023	2	315	600	480
4/17/2023	3	304	550	480
4/17/2023	4	297	500	480
4/17/2023	5	295	500	380
4/17/2023	6	294	500	380
4/17/2023	7	308	550	380
4/17/2023	8	349	600	380
4/17/2023	9	386	650	540
4/17/2023	10	409	650	600
4/17/2023	11	423	650	647
4/17/2023	12	421	540	647
4/17/2023	13	421	540	647
4/17/2023	14	435	630	647
4/17/2023	15	432	620	647
4/17/2023	16	427	620	647
4/17/2023	17	405	620	647
4/17/2023	18	374	550	450
4/17/2023	19	393	550	500
4/17/2023	20	389	550	500
4/17/2023	21	386	575	500
4/17/2023	22	379	560	500
4/17/2023	23	365	551	515
4/17/2023	24	349	560	500
4/18/2023	1	367	600	600
4/18/2023	2	353	550	550
4/18/2023	3	345	550	550

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/18/2023	4	339	550	550
4/18/2023	5	346	600	600
4/18/2023	6	346	600	600
4/18/2023	7	346	600	600
4/18/2023	8	384	668	668
4/18/2023	9	425	668	668
4/18/2023	10	443	668	668
4/18/2023	11	446	668	668
4/18/2023	12	438	668	668
4/18/2023	13	452	668	668
4/18/2023	14	451	668	668
4/18/2023	15	450	668	668
4/18/2023	16	450	668	668
4/18/2023	17	426	668	668
4/18/2023	18	411	668	668
4/18/2023	19	423	668	668
4/18/2023	20	418	668	668
4/18/2023	21	414	668	668
4/18/2023	22	405	668	668
4/18/2023	23	394	668	668
4/18/2023	24	373	600	600
4/19/2023	1	367	600	600
4/19/2023	2	354	550	550
4/19/2023	3	343	550	550
4/19/2023	4	338	550	550
4/19/2023	5	343	600	600
4/19/2023	6	343	600	600
4/19/2023	7	341	600	600
4/19/2023	8	379	668	668
4/19/2023	9	415	668	668
4/19/2023	10	438	668	668
4/19/2023	11	452	668	668
4/19/2023	12	446	668	668
4/19/2023	13	457	668	668
4/19/2023	14	457	668	668
4/19/2023	15	456	668	668
4/19/2023	16	446	668	668
4/19/2023	17	432	668	668
4/19/2023	18	407	668	668
4/19/2023	19	420	668	668
4/19/2023	20	414	668	668
4/19/2023	21	411	668	668
4/19/2023	22	402	668	668
4/19/2023	23	391	668	668
4/19/2023	24	367	600	600
4/20/2023	1	377	600	600
4/20/2023	2	359	550	550
4/20/2023	3	346	550	550
4/20/2023	4	338	550	550
4/20/2023	5	344	600	600
4/20/2023	6	346	600	600
4/20/2023	7	348	600	600
4/20/2023	8	384	668	668
4/20/2023	9	425	668	668
4/20/2023	10	449	668	668
4/20/2023	11	462	668	668
4/20/2023	12	451	668	668
4/20/2023	13	462	668	668
4/20/2023	14	468	668	668
4/20/2023	15	469	668	668
4/20/2023	16	467	668	668
4/20/2023	17	445	668	668
4/20/2023	18	422	668	668
4/20/2023	19	428	668	668
4/20/2023	20	423	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/20/2023	21	420	668	668
4/20/2023	22	409	668	668
4/20/2023	23	398	668	668
4/20/2023	24	374	668	668
4/21/2023	1	359	568	647
4/21/2023	2	346	568	547
4/21/2023	3	335	568	547
4/21/2023	4	327	563	547
4/21/2023	5	324	502	547
4/21/2023	6	324	500	527
4/21/2023	7	339	530	547
4/21/2023	8	384	568	647
4/21/2023	9	425	668	647
4/21/2023	10	450	668	647
4/21/2023	11	466	668	647
4/21/2023	12	463	668	647
4/21/2023	13	463	668	647
4/21/2023	14	479	668	647
4/21/2023	15	476	668	647
4/21/2023	16	470	668	647
4/21/2023	17	446	668	647
4/21/2023	18	412	668	547
4/21/2023	19	432	668	547
4/21/2023	20	428	668	547
4/21/2023	21	425	668	547
4/21/2023	22	417	668	647
4/21/2023	23	402	668	647
4/21/2023	24	384	668	647
4/22/2023	1	331	550	550
4/22/2023	2	320	550	550
4/22/2023	3	310	550	545
4/22/2023	4	302	550	550
4/22/2023	5	297	550	450
4/22/2023	6	289	400	450
4/22/2023	7	292	400	450
4/22/2023	8	319	400	450
4/22/2023	9	348	400	450
4/22/2023	10	370	500	450
4/22/2023	11	384	668	450
4/22/2023	12	378	643	440
4/22/2023	13	382	668	450
4/22/2023	14	394	668	540
4/22/2023	15	390	668	540
4/22/2023	16	381	668	540
4/22/2023	17	363	668	450
4/22/2023	18	354	590	444
4/22/2023	19	373	600	600
4/22/2023	20	374	600	600
4/22/2023	21	374	550	550
4/22/2023	22	366	550	550
4/22/2023	23	354	500	550
4/22/2023	24	340	500	550
4/23/2023	1	331	550	550
4/23/2023	2	320	550	550
4/23/2023	3	310	550	545
4/23/2023	4	302	550	550
4/23/2023	5	297	550	450
4/23/2023	6	289	400	450
4/23/2023	7	292	400	450
4/23/2023	8	319	400	450
4/23/2023	9	348	400	450
4/23/2023	10	370	500	450
4/23/2023	11	384	668	450
4/23/2023	12	378	643	440
4/23/2023	13	382	668	450

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/23/2023	14	394	668	540
4/23/2023	15	390	668	540
4/23/2023	16	381	668	540
4/23/2023	17	363	668	450
4/23/2023	18	354	590	444
4/23/2023	19	373	600	600
4/23/2023	20	374	600	600
4/23/2023	21	374	550	550
4/23/2023	22	366	550	550
4/23/2023	23	354	500	550
4/23/2023	24	340	500	550
4/24/2023	1	359	568	647
4/24/2023	2	346	568	547
4/24/2023	3	335	568	547
4/24/2023	4	327	563	547
4/24/2023	5	324	502	547
4/24/2023	6	324	500	527
4/24/2023	7	339	530	547
4/24/2023	8	384	568	647
4/24/2023	9	425	668	647
4/24/2023	10	450	668	647
4/24/2023	11	466	668	647
4/24/2023	12	463	668	647
4/24/2023	13	463	668	647
4/24/2023	14	479	668	647
4/24/2023	15	476	668	647
4/24/2023	16	470	668	647
4/24/2023	17	446	668	647
4/24/2023	18	412	668	547
4/24/2023	19	432	668	547
4/24/2023	20	428	668	547
4/24/2023	21	425	668	547
4/24/2023	22	417	668	647
4/24/2023	23	402	668	647
4/24/2023	24	384	668	647
4/25/2023	1	367	580	580
4/25/2023	2	354	550	550
4/25/2023	3	342	450	450
4/25/2023	4	334	400	400
4/25/2023	5	341	450	450
4/25/2023	6	340	500	500
4/25/2023	7	343	550	550
4/25/2023	8	379	600	600
4/25/2023	9	419	668	668
4/25/2023	10	443	668	668
4/25/2023	11	455	668	668
4/25/2023	12	447	668	668
4/25/2023	13	458	668	668
4/25/2023	14	472	668	668
4/25/2023	15	477	668	668
4/25/2023	16	469	668	668
4/25/2023	17	443	668	668
4/25/2023	18	429	668	668
4/25/2023	19	442	668	668
4/25/2023	20	440	668	668
4/25/2023	21	435	668	668
4/25/2023	22	424	668	668
4/25/2023	23	414	668	668
4/25/2023	24	394	668	668
4/26/2023	1	380	662	647
4/26/2023	2	367	662	647
4/26/2023	3	353	662	513
4/26/2023	4	345	662	513
4/26/2023	5	349	662	568
4/26/2023	6	346	605	570

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/26/2023	7	351	569	570
4/26/2023	8	386	662	570
4/26/2023	9	423	662	647
4/26/2023	10	447	662	647
4/26/2023	11	458	662	647
4/26/2023	12	454	662	647
4/26/2023	13	465	662	647
4/26/2023	14	475	662	647
4/26/2023	15	474	662	640
4/26/2023	16	472	662	640
4/26/2023	17	449	662	640
4/26/2023	18	435	662	585
4/26/2023	19	447	662	556
4/26/2023	20	441	662	529
4/26/2023	21	440	662	529
4/26/2023	22	432	662	529
4/26/2023	23	419	662	565
4/26/2023	24	412	662	624
4/27/2023	1	389	580	580
4/27/2023	2	376	550	550
4/27/2023	3	360	450	450
4/27/2023	4	351	400	400
4/27/2023	5	353	450	450
4/27/2023	6	350	500	500
4/27/2023	7	352	550	550
4/27/2023	8	389	600	600
4/27/2023	9	426	668	668
4/27/2023	10	450	668	668
4/27/2023	11	461	668	668
4/27/2023	12	449	668	668
4/27/2023	13	463	668	668
4/27/2023	14	466	668	668
4/27/2023	15	467	668	668
4/27/2023	16	462	668	668
4/27/2023	17	448	668	668
4/27/2023	18	422	668	668
4/27/2023	19	440	668	668
4/27/2023	20	437	668	668
4/27/2023	21	436	668	668
4/27/2023	22	428	668	668
4/27/2023	23	417	668	668
4/27/2023	24	402	668	668
4/28/2023	1	388	600	600
4/28/2023	2	374	550	550
4/28/2023	3	359	450	450
4/28/2023	4	352	400	400
4/28/2023	5	354	450	450
4/28/2023	6	347	500	500
4/28/2023	7	352	550	550
4/28/2023	8	390	600	600
4/28/2023	9	425	668	668
4/28/2023	10	447	668	668
4/28/2023	11	464	668	668
4/28/2023	12	458	668	668
4/28/2023	13	464	668	668
4/28/2023	14	479	668	668
4/28/2023	15	478	668	668
4/28/2023	16	471	668	668
4/28/2023	17	452	668	668
4/28/2023	18	428	668	668
4/28/2023	19	441	668	668
4/28/2023	20	445	668	668
4/28/2023	21	444	668	668
4/28/2023	22	427	668	668
4/28/2023	23	422	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
4/28/2023	24	401	668	668
4/29/2023	1	378	668	668
4/29/2023	2	362	600	600
4/29/2023	3	349	550	550
4/29/2023	4	339	550	550
4/29/2023	5	335	550	550
4/29/2023	6	331	550	550
4/29/2023	7	328	550	550
4/29/2023	8	346	550	550
4/29/2023	9	385	600	600
4/29/2023	10	403	600	600
4/29/2023	11	420	600	600
4/29/2023	12	416	600	600
4/29/2023	13	422	600	600
4/29/2023	14	430	668	668
4/29/2023	15	429	668	668
4/29/2023	16	419	668	668
4/29/2023	17	405	668	668
4/29/2023	18	392	668	668
4/29/2023	19	409	668	668
4/29/2023	20	407	668	668
4/29/2023	21	405	668	668
4/29/2023	22	401	668	668
4/29/2023	23	391	600	600
4/29/2023	24	380	600	600
4/30/2023	1	367	668	647
4/30/2023	2	353	668	647
4/30/2023	3	341	668	647
4/30/2023	4	332	668	647
4/30/2023	5	323	668	647
4/30/2023	6	309	668	647
4/30/2023	7	308	668	647
4/30/2023	8	325	668	647
4/30/2023	9	351	668	647
4/30/2023	10	373	668	647
4/30/2023	11	386	668	647
4/30/2023	12	386	668	647
4/30/2023	13	392	668	647
4/30/2023	14	399	668	647
4/30/2023	15	398	668	647
4/30/2023	16	391	668	647
4/30/2023	17	378	668	647
4/30/2023	18	377	668	647
4/30/2023	19	407	668	647
4/30/2023	20	411	668	647
4/30/2023	21	415	668	647
4/30/2023	22	410	668	647
4/30/2023	23	400	668	647
4/30/2023	24	383	668	647
5/1/2023	1	329	613	547
5/1/2023	2	317	540	447
5/1/2023	3	306	448	400
5/1/2023	4	298	420	400
5/1/2023	5	295	420	400
5/1/2023	6	291	400	400
5/1/2023	7	307	420	400
5/1/2023	8	342	448	400
5/1/2023	9	374	540	447
5/1/2023	10	395	613	547
5/1/2023	11	410	668	647
5/1/2023	12	408	668	647
5/1/2023	13	408	668	647
5/1/2023	14	416	668	647
5/1/2023	15	410	668	647
5/1/2023	16	403	668	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/1/2023	17	386	668	647
5/1/2023	18	377	668	647
5/1/2023	19	395	668	647
5/1/2023	20	396	668	647
5/1/2023	21	394	668	647
5/1/2023	22	384	668	647
5/1/2023	23	370	668	647
5/1/2023	24	354	668	647
5/2/2023	1	365	668	647
5/2/2023	2	353	668	647
5/2/2023	3	342	668	647
5/2/2023	4	334	668	647
5/2/2023	5	332	668	647
5/2/2023	6	329	668	647
5/2/2023	7	347	668	647
5/2/2023	8	392	668	647
5/2/2023	9	433	648	647
5/2/2023	10	458	668	647
5/2/2023	11	472	668	647
5/2/2023	12	468	668	647
5/2/2023	13	468	668	647
5/2/2023	14	483	668	647
5/2/2023	15	474	668	647
5/2/2023	16	465	668	647
5/2/2023	17	441	668	647
5/2/2023	18	429	638	647
5/2/2023	19	440	668	647
5/2/2023	20	437	638	647
5/2/2023	21	434	668	647
5/2/2023	22	425	668	647
5/2/2023	23	409	668	647
5/2/2023	24	392	668	647
5/3/2023	1	375	668	668
5/3/2023	2	363	600	600
5/3/2023	3	350	550	550
5/3/2023	4	343	500	500
5/3/2023	5	345	500	500
5/3/2023	6	342	550	550
5/3/2023	7	346	600	600
5/3/2023	8	386	668	668
5/3/2023	9	418	668	668
5/3/2023	10	443	668	668
5/3/2023	11	456	668	668
5/3/2023	12	450	668	668
5/3/2023	13	460	668	668
5/3/2023	14	477	668	668
5/3/2023	15	477	668	668
5/3/2023	16	467	668	668
5/3/2023	17	445	668	668
5/3/2023	18	420	668	668
5/3/2023	19	436	668	668
5/3/2023	20	439	668	668
5/3/2023	21	437	668	668
5/3/2023	22	431	668	668
5/3/2023	23	419	600	600
5/3/2023	24	387	600	600
5/4/2023	1	357	600	600
5/4/2023	2	343	600	600
5/4/2023	3	335	550	550
5/4/2023	4	328	500	500
5/4/2023	5	330	500	500
5/4/2023	6	329	500	550
5/4/2023	7	340	550	550
5/4/2023	8	387	600	600
5/4/2023	9	420	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/4/2023	10	439	668	600
5/4/2023	11	452	668	668
5/4/2023	12	448	668	668
5/4/2023	13	460	668	668
5/4/2023	14	475	668	668
5/4/2023	15	474	668	668
5/4/2023	16	472	668	668
5/4/2023	17	450	668	668
5/4/2023	18	428	668	668
5/4/2023	19	440	668	668
5/4/2023	20	437	668	668
5/4/2023	21	440	668	668
5/4/2023	22	434	668	668
5/4/2023	23	423	600	600
5/4/2023	24	394	600	600
5/5/2023	1	368	600	600
5/5/2023	2	355	600	600
5/5/2023	3	345	550	550
5/5/2023	4	337	500	500
5/5/2023	5	337	500	500
5/5/2023	6	333	500	500
5/5/2023	7	340	550	550
5/5/2023	8	380	600	600
5/5/2023	9	409	600	600
5/5/2023	10	430	668	668
5/5/2023	11	443	668	668
5/5/2023	12	440	668	668
5/5/2023	13	452	668	668
5/5/2023	14	466	668	668
5/5/2023	15	453	668	668
5/5/2023	16	446	668	668
5/5/2023	17	425	668	668
5/5/2023	18	416	668	668
5/5/2023	19	429	668	668
5/5/2023	20	426	668	668
5/5/2023	21	424	668	668
5/5/2023	22	418	668	668
5/5/2023	23	406	600	600
5/5/2023	24	388	600	600
5/6/2023	1	392	668	668
5/6/2023	2	377	668	668
5/6/2023	3	364	668	668
5/6/2023	4	351	600	600
5/6/2023	5	343	550	550
5/6/2023	6	332	550	550
5/6/2023	7	336	550	550
5/6/2023	8	362	600	600
5/6/2023	9	386	600	600
5/6/2023	10	411	600	600
5/6/2023	11	423	668	668
5/6/2023	12	419	668	668
5/6/2023	13	425	668	668
5/6/2023	14	440	668	668
5/6/2023	15	438	668	668
5/6/2023	16	426	668	668
5/6/2023	17	404	668	668
5/6/2023	18	394	668	668
5/6/2023	19	416	668	668
5/6/2023	20	417	668	668
5/6/2023	21	420	668	668
5/6/2023	22	417	668	668
5/6/2023	23	410	668	668
5/6/2023	24	387	668	668
5/7/2023	1	386	668	647
5/7/2023	2	373	668	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/7/2023	3	360	668	647
5/7/2023	4	349	668	647
5/7/2023	5	343	668	647
5/7/2023	6	325	668	647
5/7/2023	7	327	668	647
5/7/2023	8	348	668	647
5/7/2023	9	374	668	647
5/7/2023	10	395	644	625
5/7/2023	11	409	668	647
5/7/2023	12	406	668	647
5/7/2023	13	407	668	647
5/7/2023	14	412	668	647
5/7/2023	15	408	668	647
5/7/2023	16	396	668	647
5/7/2023	17	386	668	647
5/7/2023	18	388	668	647
5/7/2023	19	414	668	647
5/7/2023	20	418	668	647
5/7/2023	21	421	668	647
5/7/2023	22	416	668	647
5/7/2023	23	403	668	647
5/7/2023	24	385	668	647
5/8/2023	1	385	668	647
5/8/2023	2	373	668	647
5/8/2023	3	361	668	647
5/8/2023	4	352	668	642
5/8/2023	5	353	668	647
5/8/2023	6	354	668	647
5/8/2023	7	358	668	647
5/8/2023	8	400	668	647
5/8/2023	9	433	668	647
5/8/2023	10	457	668	647
5/8/2023	11	472	668	647
5/8/2023	12	469	668	647
5/8/2023	13	477	668	647
5/8/2023	14	489	668	647
5/8/2023	15	492	668	647
5/8/2023	16	480	668	647
5/8/2023	17	453	668	647
5/8/2023	18	441	668	647
5/8/2023	19	453	668	647
5/8/2023	20	445	668	647
5/8/2023	21	444	668	647
5/8/2023	22	434	668	647
5/8/2023	23	422	660	640
5/8/2023	24	394	642	624
5/9/2023	1	385	668	647
5/9/2023	2	373	668	647
5/9/2023	3	361	668	647
5/9/2023	4	352	668	642
5/9/2023	5	353	668	647
5/9/2023	6	354	668	647
5/9/2023	7	358	668	647
5/9/2023	8	400	668	647
5/9/2023	9	433	668	647
5/9/2023	10	457	668	647
5/9/2023	11	472	668	647
5/9/2023	12	469	668	647
5/9/2023	13	477	668	647
5/9/2023	14	489	668	647
5/9/2023	15	492	668	647
5/9/2023	16	480	668	647
5/9/2023	17	453	668	647
5/9/2023	18	441	668	647
5/9/2023	19	453	668	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/9/2023	20	445	668	647
5/9/2023	21	444	668	647
5/9/2023	22	434	668	647
5/9/2023	23	422	660	640
5/9/2023	24	394	642	624
5/10/2023	1	382	668	647
5/10/2023	2	372	668	647
5/10/2023	3	361	668	647
5/10/2023	4	358	668	647
5/10/2023	5	356	668	647
5/10/2023	6	346	668	647
5/10/2023	7	350	624	620
5/10/2023	8	387	668	647
5/10/2023	9	419	668	647
5/10/2023	10	448	668	647
5/10/2023	11	461	668	647
5/10/2023	12	452	668	647
5/10/2023	13	463	668	647
5/10/2023	14	485	668	647
5/10/2023	15	484	668	647
5/10/2023	16	479	668	647
5/10/2023	17	456	668	647
5/10/2023	18	424	668	647
5/10/2023	19	436	668	647
5/10/2023	20	442	668	647
5/10/2023	21	439	668	647
5/10/2023	22	434	668	647
5/10/2023	23	422	668	647
5/10/2023	24	398	668	647
5/11/2023	1	394	668	647
5/11/2023	2	378	668	647
5/11/2023	3	366	668	647
5/11/2023	4	359	668	647
5/11/2023	5	361	668	647
5/11/2023	6	357	605	584
5/11/2023	7	359	550	528
5/11/2023	8	399	668	647
5/11/2023	9	425	668	647
5/11/2023	10	448	668	647
5/11/2023	11	458	668	647
5/11/2023	12	452	668	647
5/11/2023	13	463	668	647
5/11/2023	14	480	668	647
5/11/2023	15	479	668	647
5/11/2023	16	468	668	647
5/11/2023	17	445	668	647
5/11/2023	18	430	668	647
5/11/2023	19	443	668	647
5/11/2023	20	441	668	647
5/11/2023	21	442	668	647
5/11/2023	22	439	668	647
5/11/2023	23	425	668	647
5/11/2023	24	397	668	647
5/12/2023	1	368	668	647
5/12/2023	2	354	668	647
5/12/2023	3	344	668	647
5/12/2023	4	337	668	647
5/12/2023	5	339	668	647
5/12/2023	6	333	668	647
5/12/2023	7	339	668	647
5/12/2023	8	377	668	647
5/12/2023	9	410	668	647
5/12/2023	10	457	668	647
5/12/2023	11	430	668	647
5/12/2023	12	447	668	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/12/2023	13	443	668	647
5/12/2023	14	469	668	647
5/12/2023	15	467	668	647
5/12/2023	16	462	668	647
5/12/2023	17	432	668	647
5/12/2023	18	413	668	647
5/12/2023	19	424	668	647
5/12/2023	20	422	668	647
5/12/2023	21	423	668	647
5/12/2023	22	415	668	647
5/12/2023	23	407	668	647
5/12/2023	24	402	668	647
5/13/2023	1	385	668	647
5/13/2023	2	372	668	647
5/13/2023	3	361	668	647
5/13/2023	4	349	668	647
5/13/2023	5	343	668	647
5/13/2023	6	333	668	647
5/13/2023	7	341	668	647
5/13/2023	8	363	668	647
5/13/2023	9	389	668	647
5/13/2023	10	406	668	647
5/13/2023	11	422	668	647
5/13/2023	12	422	668	647
5/13/2023	13	430	668	647
5/13/2023	14	447	668	647
5/13/2023	15	448	668	647
5/13/2023	16	436	668	647
5/13/2023	17	421	668	647
5/13/2023	18	407	668	647
5/13/2023	19	425	668	647
5/13/2023	20	425	668	647
5/13/2023	21	431	668	647
5/13/2023	22	428	668	647
5/13/2023	23	417	668	647
5/13/2023	24	388	668	647
5/14/2023	1	392	600	600
5/14/2023	2	379	600	600
5/14/2023	3	366	600	600
5/14/2023	4	355	600	600
5/14/2023	5	348	550	550
5/14/2023	6	331	500	500
5/14/2023	7	333	550	550
5/14/2023	8	354	600	600
5/14/2023	9	380	600	600
5/14/2023	10	402	600	600
5/14/2023	11	415	600	600
5/14/2023	12	413	600	600
5/14/2023	13	414	600	600
5/14/2023	14	419	600	600
5/14/2023	15	415	600	600
5/14/2023	16	403	600	600
5/14/2023	17	393	600	600
5/14/2023	18	395	600	600
5/14/2023	19	421	668	668
5/14/2023	20	425	668	668
5/14/2023	21	428	668	668
5/14/2023	22	423	668	668
5/14/2023	23	410	668	668
5/14/2023	24	391	600	600
5/15/2023	1	363	600	600
5/15/2023	2	351	550	550
5/15/2023	3	341	550	550
5/15/2023	4	335	550	550
5/15/2023	5	343	550	550

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/15/2023	6	347	550	550
5/15/2023	7	357	550	550
5/15/2023	8	394	600	600
5/15/2023	9	434	668	668
5/15/2023	10	465	668	668
5/15/2023	11	480	668	668
5/15/2023	12	465	668	668
5/15/2023	13	468	668	668
5/15/2023	14	489	668	668
5/15/2023	15	484	668	668
5/15/2023	16	475	668	668
5/15/2023	17	455	668	668
5/15/2023	18	463	668	668
5/15/2023	19	451	668	668
5/15/2023	20	446	668	668
5/15/2023	21	437	668	668
5/15/2023	22	422	668	668
5/15/2023	23	404	668	668
5/15/2023	24	387	600	600
5/16/2023	1	368	668	580
5/16/2023	2	355	668	580
5/16/2023	3	343	668	580
5/16/2023	4	336	668	580
5/16/2023	5	336	668	580
5/16/2023	6	334	668	580
5/16/2023	7	341	668	580
5/16/2023	8	387	668	580
5/16/2023	9	419	668	580
5/16/2023	10	439	668	580
5/16/2023	11	452	668	580
5/16/2023	12	447	668	580
5/16/2023	13	459	668	580
5/16/2023	14	483	668	580
5/16/2023	15	483	668	580
5/16/2023	16	472	668	580
5/16/2023	17	449	668	580
5/16/2023	18	419	668	580
5/16/2023	19	430	668	580
5/16/2023	20	427	668	580
5/16/2023	21	437	668	580
5/16/2023	22	431	668	580
5/16/2023	23	420	668	580
5/16/2023	24	402	668	580
5/17/2023	1	382	668	647
5/17/2023	2	369	668	647
5/17/2023	3	359	668	647
5/17/2023	4	352	668	647
5/17/2023	5	353	668	647
5/17/2023	6	349	668	647
5/17/2023	7	354	668	647
5/17/2023	8	395	668	647
5/17/2023	9	426	668	647
5/17/2023	10	451	668	647
5/17/2023	11	466	668	647
5/17/2023	12	459	668	647
5/17/2023	13	468	668	647
5/17/2023	14	485	668	647
5/17/2023	15	482	668	647
5/17/2023	16	476	668	647
5/17/2023	17	451	668	647
5/17/2023	18	430	668	647
5/17/2023	19	443	668	647
5/17/2023	20	440	668	647
5/17/2023	21	439	668	647
5/17/2023	22	434	668	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/17/2023	23	422	668	647
5/17/2023	24	399	668	647
5/18/2023	1	382	668	647
5/18/2023	2	369	668	647
5/18/2023	3	359	668	647
5/18/2023	4	352	668	647
5/18/2023	5	353	668	647
5/18/2023	6	349	668	647
5/18/2023	7	354	668	647
5/18/2023	8	395	668	647
5/18/2023	9	426	668	647
5/18/2023	10	451	668	647
5/18/2023	11	466	668	647
5/18/2023	12	459	668	647
5/18/2023	13	468	668	647
5/18/2023	14	485	668	647
5/18/2023	15	482	668	647
5/18/2023	16	476	668	647
5/18/2023	17	451	668	647
5/18/2023	18	430	668	647
5/18/2023	19	443	668	647
5/18/2023	20	440	668	647
5/18/2023	21	439	668	647
5/18/2023	22	434	668	647
5/18/2023	23	422	668	647
5/18/2023	24	399	668	647
5/19/2023	1	399	668	668
5/19/2023	2	388	668	668
5/19/2023	3	374	668	668
5/19/2023	4	369	668	668
5/19/2023	5	368	668	668
5/19/2023	6	362	668	668
5/19/2023	7	369	668	668
5/19/2023	8	407	668	668
5/19/2023	9	439	668	668
5/19/2023	10	467	668	668
5/19/2023	11	476	668	668
5/19/2023	12	470	668	668
5/19/2023	13	478	668	668
5/19/2023	14	492	668	668
5/19/2023	15	488	668	668
5/19/2023	16	473	668	668
5/19/2023	17	446	668	668
5/19/2023	18	434	668	668
5/19/2023	19	444	668	668
5/19/2023	20	442	668	668
5/19/2023	21	441	668	668
5/19/2023	22	433	668	668
5/19/2023	23	422	668	668
5/19/2023	24	403	668	668
5/20/2023	1	374	668	668
5/20/2023	2	361	668	668
5/20/2023	3	353	668	668
5/20/2023	4	345	668	668
5/20/2023	5	342	600	600
5/20/2023	6	327	550	550
5/20/2023	7	335	550	550
5/20/2023	8	361	600	600
5/20/2023	9	388	600	600
5/20/2023	10	414	600	600
5/20/2023	11	429	668	668
5/20/2023	12	428	668	668
5/20/2023	13	433	668	668
5/20/2023	14	451	668	668
5/20/2023	15	448	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/20/2023	16	437	668	668
5/20/2023	17	415	668	668
5/20/2023	18	407	668	668
5/20/2023	19	419	668	668
5/20/2023	20	419	668	668
5/20/2023	21	431	668	668
5/20/2023	22	430	668	668
5/20/2023	23	417	668	668
5/20/2023	24	403	668	668
5/21/2023	1	394	668	647
5/21/2023	2	380	668	647
5/21/2023	3	367	668	647
5/21/2023	4	356	654	568
5/21/2023	5	349	635	550
5/21/2023	6	332	648	562
5/21/2023	7	334	650	564
5/21/2023	8	354	642	622
5/21/2023	9	381	668	647
5/21/2023	10	403	668	647
5/21/2023	11	416	668	647
5/21/2023	12	414	668	629
5/21/2023	13	415	668	647
5/21/2023	14	420	668	647
5/21/2023	15	416	668	647
5/21/2023	16	404	668	647
5/21/2023	17	394	668	647
5/21/2023	18	396	668	647
5/21/2023	19	422	668	647
5/21/2023	20	426	668	647
5/21/2023	21	429	668	647
5/21/2023	22	424	668	647
5/21/2023	23	411	668	647
5/21/2023	24	392	668	647
5/22/2023	1	376	668	647
5/22/2023	2	363	668	647
5/22/2023	3	348	668	647
5/22/2023	4	338	668	647
5/22/2023	5	337	668	647
5/22/2023	6	335	668	647
5/22/2023	7	350	668	647
5/22/2023	8	390	668	647
5/22/2023	9	428	668	647
5/22/2023	10	452	668	647
5/22/2023	11	468	668	647
5/22/2023	12	463	668	647
5/22/2023	13	471	668	647
5/22/2023	14	492	668	647
5/22/2023	15	485	668	647
5/22/2023	16	477	668	647
5/22/2023	17	447	668	647
5/22/2023	18	430	668	647
5/22/2023	19	444	668	647
5/22/2023	20	444	668	647
5/22/2023	21	446	668	647
5/22/2023	22	441	668	647
5/22/2023	23	429	668	647
5/22/2023	24	411	668	647
5/23/2023	1	391	668	647
5/23/2023	2	376	668	647
5/23/2023	3	365	668	647
5/23/2023	4	356	668	647
5/23/2023	5	356	668	647
5/23/2023	6	346	668	647
5/23/2023	7	352	668	647
5/23/2023	8	384	668	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/23/2023	9	415	668	647
5/23/2023	10	441	668	647
5/23/2023	11	454	668	647
5/23/2023	12	454	668	647
5/23/2023	13	463	668	647
5/23/2023	14	477	668	647
5/23/2023	15	478	668	647
5/23/2023	16	463	668	647
5/23/2023	17	436	668	647
5/23/2023	18	421	668	647
5/23/2023	19	439	668	647
5/23/2023	20	438	668	647
5/23/2023	21	439	668	647
5/23/2023	22	435	668	647
5/23/2023	23	419	668	647
5/23/2023	24	403	668	647
5/24/2023	1	387	668	647
5/24/2023	2	374	668	647
5/24/2023	3	364	668	647
5/24/2023	4	357	668	647
5/24/2023	5	357	668	647
5/24/2023	6	351	668	647
5/24/2023	7	360	668	647
5/24/2023	8	402	668	647
5/24/2023	9	430	668	647
5/24/2023	10	452	668	647
5/24/2023	11	463	668	647
5/24/2023	12	463	668	647
5/24/2023	13	475	668	647
5/24/2023	14	485	668	647
5/24/2023	15	478	668	647
5/24/2023	16	455	668	647
5/24/2023	17	432	668	647
5/24/2023	18	419	668	647
5/24/2023	19	427	668	647
5/24/2023	20	429	668	647
5/24/2023	21	425	668	647
5/24/2023	22	418	668	647
5/24/2023	23	408	668	647
5/24/2023	24	409	668	647
5/25/2023	1	390	668	647
5/25/2023	2	377	668	647
5/25/2023	3	364	668	647
5/25/2023	4	356	668	647
5/25/2023	5	357	668	647
5/25/2023	6	348	668	647
5/25/2023	7	356	668	647
5/25/2023	8	397	668	647
5/25/2023	9	429	668	647
5/25/2023	10	454	668	647
5/25/2023	11	465	668	647
5/25/2023	12	461	668	647
5/25/2023	13	466	668	647
5/25/2023	14	485	668	647
5/25/2023	15	482	668	647
5/25/2023	16	465	668	647
5/25/2023	17	444	668	647
5/25/2023	18	430	668	647
5/25/2023	19	443	668	647
5/25/2023	20	442	668	647
5/25/2023	21	435	668	647
5/25/2023	22	429	668	647
5/25/2023	23	414	668	647
5/25/2023	24	404	668	647
5/26/2023	1	385	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/26/2023	2	376	668	668
5/26/2023	3	363	668	668
5/26/2023	4	358	668	668
5/26/2023	5	355	600	600
5/26/2023	6	350	550	550
5/26/2023	7	361	550	550
5/26/2023	8	399	600	600
5/26/2023	9	430	600	600
5/26/2023	10	453	600	600
5/26/2023	11	467	668	668
5/26/2023	12	462	668	668
5/26/2023	13	469	668	668
5/26/2023	14	484	668	668
5/26/2023	15	483	668	668
5/26/2023	16	472	668	668
5/26/2023	17	448	668	668
5/26/2023	18	433	668	668
5/26/2023	19	443	668	668
5/26/2023	20	441	668	668
5/26/2023	21	440	668	668
5/26/2023	22	433	668	668
5/26/2023	23	421	668	668
5/26/2023	24	389	668	668
5/27/2023	1	360	668	668
5/27/2023	2	347	668	668
5/27/2023	3	339	668	668
5/27/2023	4	328	668	668
5/27/2023	5	326	600	600
5/27/2023	6	314	550	550
5/27/2023	7	321	550	550
5/27/2023	8	347	600	600
5/27/2023	9	373	600	600
5/27/2023	10	397	600	600
5/27/2023	11	417	668	668
5/27/2023	12	411	668	668
5/27/2023	13	415	668	668
5/27/2023	14	433	668	668
5/27/2023	15	430	668	668
5/27/2023	16	420	668	668
5/27/2023	17	399	668	668
5/27/2023	18	383	668	668
5/27/2023	19	410	668	668
5/27/2023	20	411	668	668
5/27/2023	21	414	668	668
5/27/2023	22	413	668	668
5/27/2023	23	401	668	668
5/27/2023	24	405	668	668
5/28/2023	1	359	668	647
5/28/2023	2	345	668	647
5/28/2023	3	333	668	647
5/28/2023	4	321	668	647
5/28/2023	5	315	668	647
5/28/2023	6	302	668	647
5/28/2023	7	304	658	636
5/28/2023	8	316	659	638
5/28/2023	9	337	668	647
5/28/2023	10	359	668	647
5/28/2023	11	370	668	647
5/28/2023	12	373	668	647
5/28/2023	13	379	668	647
5/28/2023	14	388	668	647
5/28/2023	15	390	668	647
5/28/2023	16	380	668	647
5/28/2023	17	367	668	647
5/28/2023	18	370	668	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/28/2023	19	387	668	647
5/28/2023	20	392	668	647
5/28/2023	21	397	668	647
5/28/2023	22	393	668	647
5/28/2023	23	382	668	647
5/28/2023	24	368	668	647
5/29/2023	1	351	668	647
5/29/2023	2	339	668	647
5/29/2023	3	327	668	647
5/29/2023	4	319	668	647
5/29/2023	5	322	600	581
5/29/2023	6	321	582	561
5/29/2023	7	338	603	571
5/29/2023	8	381	659	647
5/29/2023	9	415	668	647
5/29/2023	10	439	668	647
5/29/2023	11	448	668	647
5/29/2023	12	446	668	647
5/29/2023	13	455	668	647
5/29/2023	14	465	668	647
5/29/2023	15	460	668	647
5/29/2023	16	447	668	647
5/29/2023	17	423	668	647
5/29/2023	18	409	668	647
5/29/2023	19	426	668	647
5/29/2023	20	427	668	647
5/29/2023	21	428	668	647
5/29/2023	22	418	668	647
5/29/2023	23	404	668	647
5/29/2023	24	385	668	647
5/30/2023	1	381	668	668
5/30/2023	2	369	668	668
5/30/2023	3	359	668	668
5/30/2023	4	350	668	668
5/30/2023	5	350	668	668
5/30/2023	6	346	668	668
5/30/2023	7	357	668	668
5/30/2023	8	394	668	668
5/30/2023	9	428	668	668
5/30/2023	10	453	668	668
5/30/2023	11	461	668	668
5/30/2023	12	483	668	668
5/30/2023	13	459	668	668
5/30/2023	14	468	668	668
5/30/2023	15	485	668	668
5/30/2023	16	470	668	668
5/30/2023	17	445	668	668
5/30/2023	18	428	668	668
5/30/2023	19	440	668	668
5/30/2023	20	438	668	668
5/30/2023	21	436	668	668
5/30/2023	22	437	668	668
5/30/2023	23	415	668	668
5/30/2023	24	400	668	668
5/31/2023	1	375	668	668
5/31/2023	2	363	668	668
5/31/2023	3	351	668	668
5/31/2023	4	345	668	668
5/31/2023	5	346	668	668
5/31/2023	6	338	668	668
5/31/2023	7	350	668	668
5/31/2023	8	393	668	668
5/31/2023	9	428	668	668
5/31/2023	10	449	668	668
5/31/2023	11	453	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
5/31/2023	12	455	668	668
5/31/2023	13	465	668	668
5/31/2023	14	478	668	668
5/31/2023	15	476	668	668
5/31/2023	16	464	668	668
5/31/2023	17	438	668	668
5/31/2023	18	422	668	668
5/31/2023	19	430	668	668
5/31/2023	20	418	668	668
5/31/2023	21	417	668	668
5/31/2023	22	407	668	668
5/31/2023	23	392	668	668
5/31/2023	24	392	668	668
6/1/2023	1	372	668	668
6/1/2023	2	359	668	668
6/1/2023	3	348	668	668
6/1/2023	4	342	668	668
6/1/2023	5	344	600	600
6/1/2023	6	339	550	550
6/1/2023	7	345	550	550
6/1/2023	8	387	600	600
6/1/2023	9	423	668	668
6/1/2023	10	443	668	668
6/1/2023	11	455	668	668
6/1/2023	12	452	668	668
6/1/2023	13	463	668	668
6/1/2023	14	480	668	668
6/1/2023	15	475	668	668
6/1/2023	16	458	668	668
6/1/2023	17	429	668	668
6/1/2023	18	413	668	668
6/1/2023	19	416	668	668
6/1/2023	20	417	668	668
6/1/2023	21	412	668	668
6/1/2023	22	404	668	668
6/1/2023	23	391	668	668
6/1/2023	24	382	668	668
6/2/2023	1	374	600	600
6/2/2023	2	361	600	600
6/2/2023	3	352	600	600
6/2/2023	4	345	550	550
6/2/2023	5	345	500	500
6/2/2023	6	340	500	500
6/2/2023	7	351	540	540
6/2/2023	8	390	600	600
6/2/2023	9	419	668	668
6/2/2023	10	441	668	668
6/2/2023	11	452	668	668
6/2/2023	12	453	668	668
6/2/2023	13	461	668	668
6/2/2023	14	472	668	668
6/2/2023	15	468	668	668
6/2/2023	16	460	668	668
6/2/2023	17	438	668	668
6/2/2023	18	423	668	668
6/2/2023	19	435	668	668
6/2/2023	20	433	668	668
6/2/2023	21	435	668	668
6/2/2023	22	430	668	668
6/2/2023	23	416	668	668
6/2/2023	24	395	668	668
6/3/2023	1	378	600	600
6/3/2023	2	365	600	600
6/3/2023	3	354	600	600
6/3/2023	4	342	550	550

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/3/2023	5	355	550	550
6/3/2023	6	333	500	500
6/3/2023	7	323	540	540
6/3/2023	8	330	550	550
6/3/2023	9	381	600	600
6/3/2023	10	404	668	668
6/3/2023	11	417	668	668
6/3/2023	12	414	668	668
6/3/2023	13	415	668	668
6/3/2023	14	431	668	668
6/3/2023	15	426	668	668
6/3/2023	16	417	668	668
6/3/2023	17	401	668	668
6/3/2023	18	392	668	668
6/3/2023	19	408	668	668
6/3/2023	20	408	668	668
6/3/2023	21	408	668	668
6/3/2023	22	402	668	668
6/3/2023	23	391	668	668
6/3/2023	24	379	668	668
6/4/2023	1	338	668	668
6/4/2023	2	326	668	668
6/4/2023	3	315	668	668
6/4/2023	4	306	668	668
6/4/2023	5	304	668	668
6/4/2023	6	301	668	668
6/4/2023	7	309	668	668
6/4/2023	8	339	668	668
6/4/2023	9	366	668	668
6/4/2023	10	385	668	668
6/4/2023	11	390	668	668
6/4/2023	12	385	668	668
6/4/2023	13	388	668	668
6/4/2023	14	403	668	668
6/4/2023	15	401	668	668
6/4/2023	16	393	668	668
6/4/2023	17	372	668	668
6/4/2023	18	357	668	668
6/4/2023	19	371	668	668
6/4/2023	20	371	668	668
6/4/2023	21	374	668	668
6/4/2023	22	370	668	668
6/4/2023	23	360	668	668
6/4/2023	24	347	668	668
6/5/2023	1	362	668	668
6/5/2023	2	348	668	668
6/5/2023	3	339	668	668
6/5/2023	4	333	668	668
6/5/2023	5	333	668	668
6/5/2023	6	334	668	668
6/5/2023	7	348	668	668
6/5/2023	8	392	668	668
6/5/2023	9	421	668	668
6/5/2023	10	446	668	668
6/5/2023	11	457	668	668
6/5/2023	12	459	668	668
6/5/2023	13	462	668	668
6/5/2023	14	477	668	668
6/5/2023	15	473	668	668
6/5/2023	16	457	668	668
6/5/2023	17	436	668	668
6/5/2023	18	422	668	668
6/5/2023	19	437	668	668
6/5/2023	20	441	668	668
6/5/2023	21	442	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/5/2023	22	438	668	668
6/5/2023	23	424	668	668
6/5/2023	24	409	668	668
6/6/2023	1	379	668	668
6/6/2023	2	367	668	668
6/6/2023	3	355	668	668
6/6/2023	4	354	668	668
6/6/2023	5	358	668	668
6/6/2023	6	359	668	668
6/6/2023	7	364	668	668
6/6/2023	8	396	668	668
6/6/2023	9	427	668	668
6/6/2023	10	449	668	668
6/6/2023	11	455	668	668
6/6/2023	12	449	668	668
6/6/2023	13	453	668	668
6/6/2023	14	470	668	668
6/6/2023	15	467	668	668
6/6/2023	16	458	668	668
6/6/2023	17	434	668	668
6/6/2023	18	417	668	668
6/6/2023	19	432	668	668
6/6/2023	20	433	668	668
6/6/2023	21	436	668	668
6/6/2023	22	431	668	668
6/6/2023	23	420	668	668
6/6/2023	24	406	668	668
6/7/2023	1	390	668	668
6/7/2023	2	376	668	668
6/7/2023	3	366	668	668
6/7/2023	4	356	668	668
6/7/2023	5	356	668	668
6/7/2023	6	352	668	668
6/7/2023	7	364	668	668
6/7/2023	8	401	668	668
6/7/2023	9	431	668	668
6/7/2023	10	452	668	668
6/7/2023	11	463	668	668
6/7/2023	12	458	668	668
6/7/2023	13	460	668	668
6/7/2023	14	472	668	668
6/7/2023	15	469	668	668
6/7/2023	16	455	668	668
6/7/2023	17	423	668	668
6/7/2023	18	418	668	668
6/7/2023	19	430	668	668
6/7/2023	20	433	668	668
6/7/2023	21	433	668	668
6/7/2023	22	427	668	668
6/7/2023	23	414	668	668
6/7/2023	24	397	668	668
6/8/2023	1	348	668	668
6/8/2023	2	339	600	600
6/8/2023	3	326	600	600
6/8/2023	4	322	550	550
6/8/2023	5	324	600	600
6/8/2023	6	326	600	600
6/8/2023	7	329	600	600
6/8/2023	8	369	668	668
6/8/2023	9	408	668	668
6/8/2023	10	430	668	668
6/8/2023	11	444	668	668
6/8/2023	12	442	668	668
6/8/2023	13	451	668	668
6/8/2023	14	465	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/8/2023	15	473	668	668
6/8/2023	16	455	668	668
6/8/2023	17	430	668	668
6/8/2023	18	405	668	668
6/8/2023	19	408	668	668
6/8/2023	20	409	668	668
6/8/2023	21	405	668	668
6/8/2023	22	400	668	668
6/8/2023	23	392	668	668
6/8/2023	24	395	668	668
6/9/2023	1	367	668	668
6/9/2023	2	354	600	600
6/9/2023	3	344	500	500
6/9/2023	4	336	450	450
6/9/2023	5	341	450	450
6/9/2023	6	344	550	550
6/9/2023	7	350	600	600
6/9/2023	8	385	668	668
6/9/2023	9	414	668	668
6/9/2023	10	437	668	668
6/9/2023	11	447	668	668
6/9/2023	12	443	668	668
6/9/2023	13	449	668	668
6/9/2023	14	455	668	668
6/9/2023	15	460	668	668
6/9/2023	16	450	668	668
6/9/2023	17	425	668	668
6/9/2023	18	415	668	668
6/9/2023	19	425	668	668
6/9/2023	20	424	668	668
6/9/2023	21	424	668	668
6/9/2023	22	419	668	668
6/9/2023	23	404	600	600
6/9/2023	24	392	600	600
6/10/2023	1	372	668	668
6/10/2023	2	359	600	600
6/10/2023	3	348	500	500
6/10/2023	4	336	450	450
6/10/2023	5	329	400	400
6/10/2023	6	319	450	450
6/10/2023	7	325	500	500
6/10/2023	8	350	550	550
6/10/2023	9	376	600	600
6/10/2023	10	399	668	668
6/10/2023	11	412	668	668
6/10/2023	12	408	668	668
6/10/2023	13	409	668	668
6/10/2023	14	424	668	668
6/10/2023	15	419	668	668
6/10/2023	16	411	668	668
6/10/2023	17	395	668	668
6/10/2023	18	386	668	668
6/10/2023	19	402	668	668
6/10/2023	20	403	668	668
6/10/2023	21	402	668	668
6/10/2023	22	397	668	668
6/10/2023	23	385	600	600
6/10/2023	24	378	600	600
6/11/2023	1	380	668	668
6/11/2023	2	364	668	668
6/11/2023	3	352	668	668
6/11/2023	4	342	668	668
6/11/2023	5	335	668	668
6/11/2023	6	323	668	668
6/11/2023	7	322	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/11/2023	8	338	668	668
6/11/2023	9	356	668	668
6/11/2023	10	378	668	668
6/11/2023	11	391	668	668
6/11/2023	12	388	668	668
6/11/2023	13	396	668	668
6/11/2023	14	402	668	668
6/11/2023	15	399	668	668
6/11/2023	16	389	668	668
6/11/2023	17	377	668	668
6/11/2023	18	382	668	668
6/11/2023	19	406	668	668
6/11/2023	20	410	668	668
6/11/2023	21	411	668	668
6/11/2023	22	404	668	668
6/11/2023	23	391	668	668
6/11/2023	24	374	668	668
6/12/2023	1	362	668	668
6/12/2023	2	346	518	518
6/12/2023	3	335	428	428
6/12/2023	4	325	428	428
6/12/2023	5	319	428	428
6/12/2023	6	308	428	428
6/12/2023	7	306	428	428
6/12/2023	8	322	518	518
6/12/2023	9	339	668	668
6/12/2023	10	360	668	668
6/12/2023	11	372	668	668
6/12/2023	12	369	628	627
6/12/2023	13	376	668	668
6/12/2023	14	383	668	668
6/12/2023	15	379	668	668
6/12/2023	16	370	668	668
6/12/2023	17	359	668	668
6/12/2023	18	364	668	668
6/12/2023	19	386	668	668
6/12/2023	20	390	668	668
6/12/2023	21	391	668	668
6/12/2023	22	384	668	668
6/12/2023	23	372	668	668
6/12/2023	24	356	668	668
6/13/2023	1	370	668	668
6/13/2023	2	354	518	518
6/13/2023	3	345	428	428
6/13/2023	4	339	428	428
6/13/2023	5	339	428	428
6/13/2023	6	335	428	428
6/13/2023	7	346	428	428
6/13/2023	8	389	428	428
6/13/2023	9	421	518	518
6/13/2023	10	444	668	668
6/13/2023	11	457	668	668
6/13/2023	12	451	668	668
6/13/2023	13	456	668	668
6/13/2023	14	466	668	668
6/13/2023	15	450	668	668
6/13/2023	16	438	668	668
6/13/2023	17	422	668	668
6/13/2023	18	407	668	668
6/13/2023	19	417	668	668
6/13/2023	20	416	668	668
6/13/2023	21	408	668	668
6/13/2023	22	400	668	668
6/13/2023	23	385	668	668
6/13/2023	24	372	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/14/2023	1	361	668	668
6/14/2023	2	347	518	518
6/14/2023	3	338	428	428
6/14/2023	4	331	428	428
6/14/2023	5	338	428	428
6/14/2023	6	334	428	428
6/14/2023	7	345	428	428
6/14/2023	8	388	428	428
6/14/2023	9	418	518	518
6/14/2023	10	439	668	668
6/14/2023	11	454	668	668
6/14/2023	12	452	668	668
6/14/2023	13	456	668	668
6/14/2023	14	471	668	668
6/14/2023	15	469	668	668
6/14/2023	16	462	668	668
6/14/2023	17	437	668	668
6/14/2023	18	417	668	668
6/14/2023	19	433	668	668
6/14/2023	20	432	668	668
6/14/2023	21	428	668	668
6/14/2023	22	423	668	668
6/14/2023	23	400	668	668
6/14/2023	24	382	668	668
6/15/2023	1	354	668	668
6/15/2023	2	329	668	668
6/15/2023	3	346	668	668
6/15/2023	4	333	668	668
6/15/2023	5	331	668	668
6/15/2023	6	330	668	668
6/15/2023	7	337	668	668
6/15/2023	8	376	668	668
6/15/2023	9	409	668	668
6/15/2023	10	440	668	668
6/15/2023	11	445	668	668
6/15/2023	12	445	668	668
6/15/2023	13	457	668	668
6/15/2023	14	470	668	668
6/15/2023	15	456	668	668
6/15/2023	16	458	668	668
6/15/2023	17	438	668	668
6/15/2023	18	415	668	668
6/15/2023	19	427	668	668
6/15/2023	20	427	668	668
6/15/2023	21	426	668	668
6/15/2023	22	419	668	668
6/15/2023	23	401	668	668
6/15/2023	24	390	668	668
6/16/2023	1	378	668	668
6/16/2023	2	364	668	668
6/16/2023	3	356	600	600
6/16/2023	4	349	600	600
6/16/2023	5	350	550	550
6/16/2023	6	344	600	600
6/16/2023	7	351	600	600
6/16/2023	8	379	668	668
6/16/2023	9	404	668	668
6/16/2023	10	433	668	668
6/16/2023	11	446	668	668
6/16/2023	12	451	668	668
6/16/2023	13	459	668	668
6/16/2023	14	473	668	668
6/16/2023	15	471	668	668
6/16/2023	16	463	668	668
6/16/2023	17	434	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/16/2023	18	419	668	668
6/16/2023	19	432	668	668
6/16/2023	20	426	668	668
6/16/2023	21	426	668	668
6/16/2023	22	418	668	668
6/16/2023	23	403	600	600
6/16/2023	24	393	600	600
6/17/2023	1	372	668	668
6/17/2023	2	359	668	668
6/17/2023	3	349	600	600
6/17/2023	4	337	600	600
6/17/2023	5	331	550	550
6/17/2023	6	323	600	600
6/17/2023	7	329	600	600
6/17/2023	8	354	668	668
6/17/2023	9	380	668	668
6/17/2023	10	402	668	668
6/17/2023	11	415	668	668
6/17/2023	12	412	668	668
6/17/2023	13	412	668	668
6/17/2023	14	429	668	668
6/17/2023	15	423	668	668
6/17/2023	16	415	668	668
6/17/2023	17	399	668	668
6/17/2023	18	390	668	668
6/17/2023	19	405	668	668
6/17/2023	20	406	668	668
6/17/2023	21	406	668	668
6/17/2023	22	400	668	668
6/17/2023	23	389	668	668
6/17/2023	24	378	668	668
6/18/2023	1	391	668	668
6/18/2023	2	381	668	668
6/18/2023	3	373	643	643
6/18/2023	4	361	508	485
6/18/2023	5	355	428	428
6/18/2023	6	347	416	416
6/18/2023	7	344	428	428
6/18/2023	8	363	508	507
6/18/2023	9	369	518	518
6/18/2023	10	390	668	668
6/18/2023	11	396	668	668
6/18/2023	12	385	608	609
6/18/2023	13	382	608	609
6/18/2023	14	381	608	609
6/18/2023	15	382	608	609
6/18/2023	16	378	608	609
6/18/2023	17	379	668	663
6/18/2023	18	393	668	668
6/18/2023	19	407	668	668
6/18/2023	20	407	668	668
6/18/2023	21	405	668	668
6/18/2023	22	396	668	668
6/18/2023	23	379	668	668
6/18/2023	24	367	668	668
6/19/2023	1	400	668	668
6/19/2023	2	388	668	668
6/19/2023	3	376	668	668
6/19/2023	4	365	668	668
6/19/2023	5	368	668	668
6/19/2023	6	357	668	668
6/19/2023	7	365	668	668
6/19/2023	8	387	668	668
6/19/2023	9	409	668	668
6/19/2023	10	438	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/19/2023	11	450	668	668
6/19/2023	12	447	668	668
6/19/2023	13	448	668	668
6/19/2023	14	461	668	668
6/19/2023	15	462	668	668
6/19/2023	16	457	668	668
6/19/2023	17	448	668	668
6/19/2023	18	449	668	668
6/19/2023	19	470	668	668
6/19/2023	20	471	668	668
6/19/2023	21	463	668	668
6/19/2023	22	448	668	668
6/19/2023	23	431	668	668
6/19/2023	24	415	668	668
6/20/2023	1	379	668	668
6/20/2023	2	365	668	668
6/20/2023	3	354	600	600
6/20/2023	4	346	600	428
6/20/2023	5	343	600	428
6/20/2023	6	341	600	428
6/20/2023	7	352	600	428
6/20/2023	8	396	600	431
6/20/2023	9	416	600	518
6/20/2023	10	437	668	668
6/20/2023	11	438	668	668
6/20/2023	12	433	668	668
6/20/2023	13	445	668	668
6/20/2023	14	468	668	668
6/20/2023	15	467	668	668
6/20/2023	16	457	668	668
6/20/2023	17	434	668	668
6/20/2023	18	411	668	668
6/20/2023	19	422	668	668
6/20/2023	20	419	668	668
6/20/2023	21	422	668	668
6/20/2023	22	416	668	668
6/20/2023	23	405	668	668
6/20/2023	24	394	668	668
6/21/2023	1	379	668	668
6/21/2023	2	367	623	623
6/21/2023	3	352	527	527
6/21/2023	4	343	527	527
6/21/2023	5	345	527	527
6/21/2023	6	340	527	527
6/21/2023	7	348	527	527
6/21/2023	8	387	553	553
6/21/2023	9	420	668	668
6/21/2023	10	447	668	668
6/21/2023	11	441	668	668
6/21/2023	12	450	668	668
6/21/2023	13	446	668	668
6/21/2023	14	467	668	668
6/21/2023	15	464	668	668
6/21/2023	16	452	668	668
6/21/2023	17	424	668	668
6/21/2023	18	408	668	668
6/21/2023	19	418	668	668
6/21/2023	20	418	668	668
6/21/2023	21	419	668	668
6/21/2023	22	414	668	668
6/21/2023	23	402	668	668
6/21/2023	24	385	668	668
6/22/2023	1	374	668	668
6/22/2023	2	359	623	623
6/22/2023	3	347	527	527

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/22/2023	4	338	527	527
6/22/2023	5	340	527	527
6/22/2023	6	334	527	527
6/22/2023	7	340	527	527
6/22/2023	8	381	553	553
6/22/2023	9	412	668	668
6/22/2023	10	436	668	668
6/22/2023	11	442	668	668
6/22/2023	12	443	668	668
6/22/2023	13	449	668	668
6/22/2023	14	463	668	668
6/22/2023	15	456	668	668
6/22/2023	16	443	668	668
6/22/2023	17	420	668	668
6/22/2023	18	403	668	668
6/22/2023	19	409	668	668
6/22/2023	20	408	668	668
6/22/2023	21	401	640	640
6/22/2023	22	395	668	668
6/22/2023	23	380	668	668
6/22/2023	24	388	668	668
6/23/2023	1	383	668	668
6/23/2023	2	368	600	600
6/23/2023	3	358	600	600
6/23/2023	4	350	600	600
6/23/2023	5	350	550	550
6/23/2023	6	345	600	600
6/23/2023	7	353	600	600
6/23/2023	8	393	668	668
6/23/2023	9	427	668	668
6/23/2023	10	451	668	668
6/23/2023	11	464	668	668
6/23/2023	12	456	668	668
6/23/2023	13	460	668	668
6/23/2023	14	473	668	668
6/23/2023	15	468	668	668
6/23/2023	16	459	668	668
6/23/2023	17	435	668	668
6/23/2023	18	419	668	668
6/23/2023	19	433	668	668
6/23/2023	20	433	668	668
6/23/2023	21	431	668	668
6/23/2023	22	423	668	668
6/23/2023	23	409	668	668
6/23/2023	24	389	668	668
6/24/2023	1	370	668	668
6/24/2023	2	358	600	600
6/24/2023	3	347	600	600
6/24/2023	4	335	550	550
6/24/2023	5	334	500	500
6/24/2023	6	320	500	500
6/24/2023	7	327	550	550
6/24/2023	8	353	600	600
6/24/2023	9	382	668	668
6/24/2023	10	405	668	668
6/24/2023	11	420	668	668
6/24/2023	12	415	668	668
6/24/2023	13	424	668	668
6/24/2023	14	432	668	668
6/24/2023	15	420	668	668
6/24/2023	16	409	668	668
6/24/2023	17	394	668	668
6/24/2023	18	387	668	668
6/24/2023	19	402	668	668
6/24/2023	20	402	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/24/2023	21	403	668	668
6/24/2023	22	397	668	668
6/24/2023	23	385	668	668
6/24/2023	24	374	668	668
6/25/2023	1	376	668	668
6/25/2023	2	359	623	623
6/25/2023	3	349	527	527
6/25/2023	4	338	527	527
6/25/2023	5	330	527	527
6/25/2023	6	315	527	527
6/25/2023	7	315	527	527
6/25/2023	8	332	553	553
6/25/2023	9	345	668	668
6/25/2023	10	364	611	611
6/25/2023	11	380	668	668
6/25/2023	12	380	668	668
6/25/2023	13	385	668	668
6/25/2023	14	394	668	668
6/25/2023	15	395	668	668
6/25/2023	16	384	668	668
6/25/2023	17	371	668	668
6/25/2023	18	372	668	668
6/25/2023	19	391	668	668
6/25/2023	20	399	668	668
6/25/2023	21	403	640	640
6/25/2023	22	393	668	668
6/25/2023	23	384	668	668
6/25/2023	24	371	668	668
6/26/2023	1	356	668	668
6/26/2023	2	344	623	623
6/26/2023	3	330	527	527
6/26/2023	4	324	527	527
6/26/2023	5	325	527	527
6/26/2023	6	324	527	527
6/26/2023	7	338	527	527
6/26/2023	8	378	623	623
6/26/2023	9	413	668	668
6/26/2023	10	441	668	668
6/26/2023	11	454	668	668
6/26/2023	12	453	668	668
6/26/2023	13	461	668	668
6/26/2023	14	479	668	668
6/26/2023	15	479	668	668
6/26/2023	16	468	668	668
6/26/2023	17	443	668	668
6/26/2023	18	421	668	668
6/26/2023	19	436	668	668
6/26/2023	20	435	668	668
6/26/2023	21	434	668	668
6/26/2023	22	426	668	668
6/26/2023	23	412	668	668
6/26/2023	24	393	668	668
6/27/2023	1	363	668	668
6/27/2023	2	347	623	623
6/27/2023	3	337	527	527
6/27/2023	4	329	527	527
6/27/2023	5	328	527	527
6/27/2023	6	326	527	527
6/27/2023	7	338	527	527
6/27/2023	8	379	623	623
6/27/2023	9	411	668	668
6/27/2023	10	436	668	668
6/27/2023	11	449	668	668
6/27/2023	12	442	668	668
6/27/2023	13	446	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/27/2023	14	458	668	668
6/27/2023	15	453	668	668
6/27/2023	16	445	668	668
6/27/2023	17	422	668	668
6/27/2023	18	408	668	668
6/27/2023	19	419	668	668
6/27/2023	20	419	668	668
6/27/2023	21	416	668	668
6/27/2023	22	408	668	668
6/27/2023	23	394	668	668
6/27/2023	24	391	668	668
6/28/2023	1	368	668	668
6/28/2023	2	357	600	600
6/28/2023	3	343	600	600
6/28/2023	4	334	550	550
6/28/2023	5	324	500	500
6/28/2023	6	314	500	500
6/28/2023	7	312	550	550
6/28/2023	8	333	550	550
6/28/2023	9	356	600	600
6/28/2023	10	382	668	668
6/28/2023	11	395	668	668
6/28/2023	12	391	668	668
6/28/2023	13	400	668	668
6/28/2023	14	416	668	668
6/28/2023	15	415	668	668
6/28/2023	16	406	668	668
6/28/2023	17	389	668	668
6/28/2023	18	383	668	668
6/28/2023	19	404	668	668
6/28/2023	20	403	668	668
6/28/2023	21	378	668	668
6/28/2023	22	402	668	668
6/28/2023	23	398	668	668
6/28/2023	24	388	668	668
6/29/2023	1	368	668	668
6/29/2023	2	355	623	623
6/29/2023	3	345	527	527
6/29/2023	4	336	527	527
6/29/2023	5	336	527	527
6/29/2023	6	331	527	527
6/29/2023	7	338	527	527
6/29/2023	8	377	623	623
6/29/2023	9	413	668	668
6/29/2023	10	436	668	668
6/29/2023	11	449	668	668
6/29/2023	12	446	668	668
6/29/2023	13	454	668	668
6/29/2023	14	472	668	668
6/29/2023	15	470	668	668
6/29/2023	16	456	668	668
6/29/2023	17	425	668	668
6/29/2023	18	401	668	668
6/29/2023	19	406	668	668
6/29/2023	20	407	668	668
6/29/2023	21	401	668	668
6/29/2023	22	399	668	668
6/29/2023	23	386	668	668
6/29/2023	24	371	668	668
6/30/2023	1	354	668	668
6/30/2023	2	341	600	600
6/30/2023	3	329	600	600
6/30/2023	4	325	550	550
6/30/2023	5	326	500	500
6/30/2023	6	325	500	500

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
6/30/2023	7	337	550	550
6/30/2023	8	374	550	550
6/30/2023	9	407	600	600
6/30/2023	10	429	668	668
6/30/2023	11	438	668	668
6/30/2023	12	433	668	668
6/30/2023	13	438	668	668
6/30/2023	14	451	668	668
6/30/2023	15	449	668	668
6/30/2023	16	439	668	668
6/30/2023	17	421	668	668
6/30/2023	18	404	668	668
6/30/2023	19	414	668	668
6/30/2023	20	414	668	668
6/30/2023	21	410	668	668
6/30/2023	22	401	668	668
6/30/2023	23	389	668	668
6/30/2023	24	387	668	668
7/1/2023	1	359	668	668
7/1/2023	2	347	668	668
7/1/2023	3	332	600	600
7/1/2023	4	323	550	550
7/1/2023	5	319	500	500
7/1/2023	6	311	500	500
7/1/2023	7	314	550	550
7/1/2023	8	334	550	550
7/1/2023	9	362	600	600
7/1/2023	10	380	668	668
7/1/2023	11	391	668	668
7/1/2023	12	385	668	668
7/1/2023	13	392	668	668
7/1/2023	14	406	668	668
7/1/2023	15	405	668	668
7/1/2023	16	393	668	668
7/1/2023	17	374	668	668
7/1/2023	18	366	668	668
7/1/2023	19	385	668	668
7/1/2023	20	385	668	668
7/1/2023	21	384	668	668
7/1/2023	22	381	668	668
7/1/2023	23	368	668	668
7/1/2023	24	362	668	668
7/2/2023	1	382	668	668
7/2/2023	2	364	668	668
7/2/2023	3	354	668	668
7/2/2023	4	343	668	668
7/2/2023	5	334	668	668
7/2/2023	6	319	668	668
7/2/2023	7	320	668	668
7/2/2023	8	337	668	668
7/2/2023	9	351	668	668
7/2/2023	10	370	668	668
7/2/2023	11	387	668	668
7/2/2023	12	387	668	668
7/2/2023	13	391	668	668
7/2/2023	14	401	668	668
7/2/2023	15	401	668	668
7/2/2023	16	390	668	668
7/2/2023	17	370	668	668
7/2/2023	18	371	668	668
7/2/2023	19	390	668	668
7/2/2023	20	406	668	668
7/2/2023	21	409	668	668
7/2/2023	22	391	668	668
7/2/2023	23	382	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/2/2023	24	385	668	668
7/3/2023	1	347	668	668
7/3/2023	2	338	528	528
7/3/2023	3	326	428	428
7/3/2023	4	319	428	428
7/3/2023	5	323	428	428
7/3/2023	6	325	428	428
7/3/2023	7	338	428	428
7/3/2023	8	374	528	528
7/3/2023	9	404	668	668
7/3/2023	10	428	668	668
7/3/2023	11	436	668	668
7/3/2023	12	434	668	668
7/3/2023	13	444	668	668
7/3/2023	14	458	668	668
7/3/2023	15	457	668	668
7/3/2023	16	445	668	668
7/3/2023	17	423	668	668
7/3/2023	18	410	668	668
7/3/2023	19	418	668	668
7/3/2023	20	417	668	668
7/3/2023	21	412	668	668
7/3/2023	22	402	668	668
7/3/2023	23	387	668	668
7/3/2023	24	372	668	668
7/4/2023	1	372	668	668
7/4/2023	2	358	528	528
7/4/2023	3	345	428	428
7/4/2023	4	341	428	428
7/4/2023	5	342	428	428
7/4/2023	6	341	428	428
7/4/2023	7	353	428	428
7/4/2023	8	392	528	528
7/4/2023	9	426	668	668
7/4/2023	10	450	668	668
7/4/2023	11	459	668	668
7/4/2023	12	455	668	668
7/4/2023	13	459	668	668
7/4/2023	14	473	668	668
7/4/2023	15	471	668	668
7/4/2023	16	462	668	668
7/4/2023	17	442	668	668
7/4/2023	18	425	668	668
7/4/2023	19	434	668	668
7/4/2023	20	434	668	668
7/4/2023	21	431	668	668
7/4/2023	22	421	668	668
7/4/2023	23	409	668	668
7/4/2023	24	383	668	668
7/5/2023	1	376	668	647
7/5/2023	2	361	668	647
7/5/2023	3	349	668	647
7/5/2023	4	343	668	647
7/5/2023	5	345	668	647
7/5/2023	6	344	668	647
7/5/2023	7	356	668	647
7/5/2023	8	395	668	647
7/5/2023	9	430	668	647
7/5/2023	10	455	668	647
7/5/2023	11	464	668	647
7/5/2023	12	460	668	647
7/5/2023	13	465	668	647
7/5/2023	14	479	668	647
7/5/2023	15	477	668	647
7/5/2023	16	467	668	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/5/2023	17	447	668	647
7/5/2023	18	430	668	647
7/5/2023	19	440	668	647
7/5/2023	20	440	668	647
7/5/2023	21	436	668	647
7/5/2023	22	427	668	647
7/5/2023	23	414	668	647
7/5/2023	24	375	668	647
7/6/2023	1	377	668	668
7/6/2023	2	367	668	668
7/6/2023	3	353	668	668
7/6/2023	4	346	668	668
7/6/2023	5	346	668	668
7/6/2023	6	341	668	668
7/6/2023	7	350	668	668
7/6/2023	8	389	668	668
7/6/2023	9	422	668	668
7/6/2023	10	449	668	668
7/6/2023	11	461	668	668
7/6/2023	12	483	668	668
7/6/2023	13	458	668	668
7/6/2023	14	465	668	668
7/6/2023	15	486	668	668
7/6/2023	16	474	668	668
7/6/2023	17	448	668	668
7/6/2023	18	433	668	668
7/6/2023	19	439	668	668
7/6/2023	20	438	668	668
7/6/2023	21	435	668	668
7/6/2023	22	426	668	668
7/6/2023	23	411	668	668
7/6/2023	24	369	668	668
7/7/2023	1	393	668	668
7/7/2023	2	375	600	600
7/7/2023	3	363	600	600
7/7/2023	4	353	550	550
7/7/2023	5	351	500	500
7/7/2023	6	347	500	500
7/7/2023	7	356	550	550
7/7/2023	8	395	600	600
7/7/2023	9	429	668	668
7/7/2023	10	453	668	668
7/7/2023	11	467	668	668
7/7/2023	12	462	668	668
7/7/2023	13	468	668	668
7/7/2023	14	491	668	668
7/7/2023	15	488	668	668
7/7/2023	16	477	668	668
7/7/2023	17	448	668	668
7/7/2023	18	433	668	668
7/7/2023	19	439	668	668
7/7/2023	20	449	668	668
7/7/2023	21	448	668	668
7/7/2023	22	445	668	668
7/7/2023	23	425	668	668
7/7/2023	24	381	668	668
7/8/2023	1	374	668	668
7/8/2023	2	362	668	668
7/8/2023	3	347	668	668
7/8/2023	4	337	600	600
7/8/2023	5	332	550	550
7/8/2023	6	323	500	500
7/8/2023	7	327	550	550
7/8/2023	8	347	600	600
7/8/2023	9	377	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/8/2023	10	396	668	668
7/8/2023	11	408	668	668
7/8/2023	12	402	668	668
7/8/2023	13	409	668	668
7/8/2023	14	424	668	668
7/8/2023	15	425	668	668
7/8/2023	16	410	668	668
7/8/2023	17	390	668	668
7/8/2023	18	382	668	668
7/8/2023	19	402	668	668
7/8/2023	20	402	668	668
7/8/2023	21	401	668	668
7/8/2023	22	398	668	668
7/8/2023	23	384	668	668
7/8/2023	24	361	668	668
7/9/2023	1	396	668	668
7/9/2023	2	383	668	668
7/9/2023	3	366	668	668
7/9/2023	4	356	613	613
7/9/2023	5	351	613	613
7/9/2023	6	340	613	613
7/9/2023	7	340	613	613
7/9/2023	8	354	613	613
7/9/2023	9	376	668	668
7/9/2023	10	398	668	668
7/9/2023	11	413	668	668
7/9/2023	12	413	668	668
7/9/2023	13	415	668	668
7/9/2023	14	416	668	668
7/9/2023	15	404	668	668
7/9/2023	16	393	668	668
7/9/2023	17	387	668	668
7/9/2023	18	398	668	668
7/9/2023	19	411	668	668
7/9/2023	20	417	668	668
7/9/2023	21	420	668	668
7/9/2023	22	410	668	668
7/9/2023	23	395	668	668
7/9/2023	24	381	668	668
7/10/2023	1	340	668	668
7/10/2023	2	329	668	668
7/10/2023	3	317	668	668
7/10/2023	4	312	598	598
7/10/2023	5	316	621	621
7/10/2023	6	320	575	575
7/10/2023	7	339	668	668
7/10/2023	8	383	668	668
7/10/2023	9	424	668	668
7/10/2023	10	452	668	668
7/10/2023	11	468	668	668
7/10/2023	12	463	668	668
7/10/2023	13	474	668	668
7/10/2023	14	493	668	668
7/10/2023	15	491	668	668
7/10/2023	16	483	668	668
7/10/2023	17	459	668	668
7/10/2023	18	434	668	668
7/10/2023	19	443	668	668
7/10/2023	20	444	668	668
7/10/2023	21	442	668	668
7/10/2023	22	435	668	668
7/10/2023	23	422	668	668
7/10/2023	24	406	668	668
7/11/2023	1	374	668	668
7/11/2023	2	360	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/11/2023	3	348	668	668
7/11/2023	4	339	668	668
7/11/2023	5	338	668	668
7/11/2023	6	335	668	668
7/11/2023	7	346	668	668
7/11/2023	8	388	668	668
7/11/2023	9	418	668	668
7/11/2023	10	440	668	668
7/11/2023	11	453	668	668
7/11/2023	12	453	668	668
7/11/2023	13	458	668	668
7/11/2023	14	475	668	668
7/11/2023	15	472	668	668
7/11/2023	16	463	668	668
7/11/2023	17	439	668	668
7/11/2023	18	415	668	668
7/11/2023	19	431	668	668
7/11/2023	20	433	668	668
7/11/2023	21	433	668	668
7/11/2023	22	428	668	668
7/11/2023	23	415	668	668
7/11/2023	24	397	668	668
7/12/2023	1	387	668	668
7/12/2023	2	374	668	668
7/12/2023	3	361	668	668
7/12/2023	4	352	668	668
7/12/2023	5	348	668	668
7/12/2023	6	340	668	668
7/12/2023	7	352	668	668
7/12/2023	8	392	668	668
7/12/2023	9	425	668	668
7/12/2023	10	450	668	668
7/12/2023	11	462	668	668
7/12/2023	12	459	668	668
7/12/2023	13	465	668	668
7/12/2023	14	482	668	668
7/12/2023	15	479	668	668
7/12/2023	16	470	668	668
7/12/2023	17	450	668	668
7/12/2023	18	433	668	668
7/12/2023	19	443	668	668
7/12/2023	20	443	668	668
7/12/2023	21	439	668	668
7/12/2023	22	430	668	668
7/12/2023	23	418	668	668
7/12/2023	24	404	668	668
7/13/2023	1	385	668	668
7/13/2023	2	365	668	668
7/13/2023	3	352	668	668
7/13/2023	4	343	668	668
7/13/2023	5	341	668	668
7/13/2023	6	335	668	668
7/13/2023	7	348	668	668
7/13/2023	8	390	668	668
7/13/2023	9	423	668	668
7/13/2023	10	447	668	668
7/13/2023	11	459	668	668
7/13/2023	12	458	668	668
7/13/2023	13	466	668	668
7/13/2023	14	479	668	668
7/13/2023	15	477	668	668
7/13/2023	16	467	668	668
7/13/2023	17	445	668	668
7/13/2023	18	421	668	668
7/13/2023	19	436	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/13/2023	20	440	668	668
7/13/2023	21	438	668	668
7/13/2023	22	436	668	668
7/13/2023	23	420	668	668
7/13/2023	24	409	668	668
7/14/2023	1	391	668	668
7/14/2023	2	377	668	668
7/14/2023	3	362	600	600
7/14/2023	4	351	550	550
7/14/2023	5	347	550	550
7/14/2023	6	340	550	550
7/14/2023	7	351	600	600
7/14/2023	8	390	668	668
7/14/2023	9	417	668	668
7/14/2023	10	445	668	668
7/14/2023	11	460	668	668
7/14/2023	12	457	668	668
7/14/2023	13	463	668	668
7/14/2023	14	475	668	668
7/14/2023	15	467	668	668
7/14/2023	16	449	668	668
7/14/2023	17	420	668	668
7/14/2023	18	404	668	668
7/14/2023	19	413	668	668
7/14/2023	20	415	668	668
7/14/2023	21	419	668	668
7/14/2023	22	413	668	668
7/14/2023	23	403	668	668
7/14/2023	24	394	600	600
7/15/2023	1	335	668	668
7/15/2023	2	323	668	668
7/15/2023	3	311	600	600
7/15/2023	4	300	550	550
7/15/2023	5	295	500	500
7/15/2023	6	285	450	450
7/15/2023	7	290	500	500
7/15/2023	8	313	550	550
7/15/2023	9	339	600	600
7/15/2023	10	360	668	668
7/15/2023	11	372	668	668
7/15/2023	12	368	668	668
7/15/2023	13	375	668	668
7/15/2023	14	388	668	668
7/15/2023	15	387	668	668
7/15/2023	16	373	668	668
7/15/2023	17	359	668	668
7/15/2023	18	345	668	668
7/15/2023	19	358	668	668
7/15/2023	20	361	668	668
7/15/2023	21	363	668	668
7/15/2023	22	359	668	668
7/15/2023	23	350	668	668
7/15/2023	24	395	668	668
7/16/2023	1	379	668	668
7/16/2023	2	367	668	668
7/16/2023	3	351	668	668
7/16/2023	4	341	668	668
7/16/2023	5	337	668	668
7/16/2023	6	326	668	668
7/16/2023	7	326	668	668
7/16/2023	8	339	668	668
7/16/2023	9	361	668	668
7/16/2023	10	382	668	668
7/16/2023	11	396	668	668
7/16/2023	12	396	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/16/2023	13	398	668	668
7/16/2023	14	399	668	668
7/16/2023	15	387	668	668
7/16/2023	16	376	668	668
7/16/2023	17	371	668	668
7/16/2023	18	381	668	668
7/16/2023	19	395	668	668
7/16/2023	20	400	668	668
7/16/2023	21	402	668	668
7/16/2023	22	393	668	668
7/16/2023	23	379	668	668
7/16/2023	24	365	668	668
7/17/2023	1	314	668	668
7/17/2023	2	303	668	668
7/17/2023	3	292	668	668
7/17/2023	4	287	668	668
7/17/2023	5	291	668	668
7/17/2023	6	295	668	668
7/17/2023	7	312	668	668
7/17/2023	8	352	668	668
7/17/2023	9	391	668	668
7/17/2023	10	416	668	668
7/17/2023	11	431	668	668
7/17/2023	12	427	668	668
7/17/2023	13	437	668	668
7/17/2023	14	454	668	668
7/17/2023	15	453	668	668
7/17/2023	16	445	668	668
7/17/2023	17	423	668	668
7/17/2023	18	400	668	668
7/17/2023	19	408	668	668
7/17/2023	20	409	668	668
7/17/2023	21	407	668	668
7/17/2023	22	401	668	668
7/17/2023	23	388	668	668
7/17/2023	24	374	668	668
7/18/2023	1	379	668	668
7/18/2023	2	367	668	668
7/18/2023	3	351	668	668
7/18/2023	4	341	668	668
7/18/2023	5	337	668	668
7/18/2023	6	326	668	668
7/18/2023	7	326	668	668
7/18/2023	8	339	668	668
7/18/2023	9	361	668	668
7/18/2023	10	382	668	668
7/18/2023	11	396	668	668
7/18/2023	12	396	668	668
7/18/2023	13	398	668	668
7/18/2023	14	399	668	668
7/18/2023	15	387	668	668
7/18/2023	16	376	668	668
7/18/2023	17	371	668	668
7/18/2023	18	381	668	668
7/18/2023	19	395	668	668
7/18/2023	20	400	668	668
7/18/2023	21	402	668	668
7/18/2023	22	393	668	668
7/18/2023	23	379	668	668
7/18/2023	24	365	668	668
7/19/2023	1	373	668	668
7/19/2023	2	357	668	668
7/19/2023	3	346	668	668
7/19/2023	4	337	668	668
7/19/2023	5	339	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/19/2023	6	332	668	668
7/19/2023	7	338	668	668
7/19/2023	8	379	668	668
7/19/2023	9	410	668	668
7/19/2023	10	440	668	668
7/19/2023	11	447	668	668
7/19/2023	12	442	668	668
7/19/2023	13	448	668	668
7/19/2023	14	463	668	668
7/19/2023	15	456	668	668
7/19/2023	16	443	668	668
7/19/2023	17	412	668	668
7/19/2023	18	396	668	668
7/19/2023	19	401	668	668
7/19/2023	20	400	668	668
7/19/2023	21	395	668	668
7/19/2023	22	388	668	668
7/19/2023	23	374	668	668
7/19/2023	24	360	668	668
7/20/2023	1	372	668	668
7/20/2023	2	358	668	668
7/20/2023	3	347	668	668
7/20/2023	4	338	668	668
7/20/2023	5	325	668	668
7/20/2023	6	319	668	668
7/20/2023	7	329	668	668
7/20/2023	8	369	668	668
7/20/2023	9	403	668	668
7/20/2023	10	425	668	668
7/20/2023	11	440	668	668
7/20/2023	12	438	668	668
7/20/2023	13	445	668	668
7/20/2023	14	460	668	668
7/20/2023	15	454	668	668
7/20/2023	16	442	668	668
7/20/2023	17	418	668	668
7/20/2023	18	397	668	668
7/20/2023	19	413	668	668
7/20/2023	20	415	668	668
7/20/2023	21	412	668	668
7/20/2023	22	406	668	668
7/20/2023	23	386	668	668
7/20/2023	24	380	668	668
7/21/2023	1	353	668	668
7/21/2023	2	339	668	668
7/21/2023	3	329	600	600
7/21/2023	4	322	550	550
7/21/2023	5	321	500	500
7/21/2023	6	320	450	450
7/21/2023	7	333	500	500
7/21/2023	8	375	550	550
7/21/2023	9	408	600	600
7/21/2023	10	431	668	668
7/21/2023	11	445	668	668
7/21/2023	12	434	668	668
7/21/2023	13	441	668	668
7/21/2023	14	453	668	668
7/21/2023	15	446	668	668
7/21/2023	16	437	668	668
7/21/2023	17	417	668	668
7/21/2023	18	391	668	668
7/21/2023	19	409	668	668
7/21/2023	20	395	668	668
7/21/2023	21	391	668	668
7/21/2023	22	384	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/21/2023	23	379	668	668
7/21/2023	24	390	668	668
7/22/2023	1	365	668	668
7/22/2023	2	353	668	668
7/22/2023	3	342	600	600
7/22/2023	4	331	550	550
7/22/2023	5	328	500	500
7/22/2023	6	319	450	450
7/22/2023	7	323	500	500
7/22/2023	8	348	550	550
7/22/2023	9	374	600	600
7/22/2023	10	397	668	668
7/22/2023	11	412	668	668
7/22/2023	12	407	668	668
7/22/2023	13	412	668	668
7/22/2023	14	425	668	668
7/22/2023	15	424	668	668
7/22/2023	16	409	668	668
7/22/2023	17	395	668	668
7/22/2023	18	381	668	668
7/22/2023	19	396	668	668
7/22/2023	20	396	668	668
7/22/2023	21	398	668	668
7/22/2023	22	391	668	668
7/22/2023	23	389	668	668
7/22/2023	24	386	668	668
7/23/2023	1	335	668	668
7/23/2023	2	315	642	642
7/23/2023	3	302	642	642
7/23/2023	4	295	642	642
7/23/2023	5	294	642	642
7/23/2023	6	284	642	642
7/23/2023	7	288	642	642
7/23/2023	8	297	642	642
7/23/2023	9	310	668	668
7/23/2023	10	324	668	668
7/23/2023	11	334	668	668
7/23/2023	12	335	668	668
7/23/2023	13	336	668	668
7/23/2023	14	335	668	668
7/23/2023	15	335	668	668
7/23/2023	16	334	668	668
7/23/2023	17	336	668	668
7/23/2023	18	344	668	668
7/23/2023	19	359	668	668
7/23/2023	20	362	668	668
7/23/2023	21	357	668	668
7/23/2023	22	351	668	668
7/23/2023	23	336	668	668
7/23/2023	24	320	626	625
7/24/2023	1	323	668	668
7/24/2023	2	312	642	642
7/24/2023	3	306	642	642
7/24/2023	4	304	642	642
7/24/2023	5	306	642	642
7/24/2023	6	313	642	642
7/24/2023	7	336	642	642
7/24/2023	8	374	642	642
7/24/2023	9	408	668	668
7/24/2023	10	437	668	668
7/24/2023	11	451	668	668
7/24/2023	12	448	668	668
7/24/2023	13	444	668	668
7/24/2023	14	456	668	668
7/24/2023	15	450	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/24/2023	16	449	668	668
7/24/2023	17	436	668	668
7/24/2023	18	421	668	668
7/24/2023	19	437	668	668
7/24/2023	20	429	668	668
7/24/2023	21	423	668	668
7/24/2023	22	413	668	668
7/24/2023	23	399	668	668
7/24/2023	24	386	626	625
7/25/2023	1	337	668	668
7/25/2023	2	325	614	613
7/25/2023	3	317	580	580
7/25/2023	4	311	580	580
7/25/2023	5	309	580	580
7/25/2023	6	311	580	580
7/25/2023	7	326	620	620
7/25/2023	8	367	668	668
7/25/2023	9	399	618	618
7/25/2023	10	425	668	668
7/25/2023	11	438	668	668
7/25/2023	12	436	668	668
7/25/2023	13	433	668	668
7/25/2023	14	448	668	668
7/25/2023	15	448	668	668
7/25/2023	16	436	668	668
7/25/2023	17	415	668	668
7/25/2023	18	398	668	668
7/25/2023	19	411	668	668
7/25/2023	20	406	668	668
7/25/2023	21	405	668	668
7/25/2023	22	397	668	668
7/25/2023	23	382	668	668
7/25/2023	24	365	668	668
7/26/2023	1	352	668	668
7/26/2023	2	341	668	668
7/26/2023	3	330	600	600
7/26/2023	4	321	550	550
7/26/2023	5	321	500	500
7/26/2023	6	322	450	450
7/26/2023	7	335	500	500
7/26/2023	8	373	550	550
7/26/2023	9	403	600	600
7/26/2023	10	423	668	668
7/26/2023	11	435	668	668
7/26/2023	12	432	668	668
7/26/2023	13	436	668	668
7/26/2023	14	446	668	668
7/26/2023	15	433	668	668
7/26/2023	16	426	668	668
7/26/2023	17	409	668	668
7/26/2023	18	403	668	668
7/26/2023	19	393	668	668
7/26/2023	20	406	668	668
7/26/2023	21	406	668	668
7/26/2023	22	400	668	668
7/26/2023	23	386	668	668
7/26/2023	24	373	668	668
7/27/2023	1	314	668	668
7/27/2023	2	304	668	668
7/27/2023	3	295	600	600
7/27/2023	4	286	550	550
7/27/2023	5	286	500	500
7/27/2023	6	287	450	450
7/27/2023	7	299	500	500
7/27/2023	8	332	550	550

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/27/2023	9	360	600	600
7/27/2023	10	382	668	668
7/27/2023	11	393	668	668
7/27/2023	12	390	668	668
7/27/2023	13	394	668	668
7/27/2023	14	402	668	668
7/27/2023	15	391	668	668
7/27/2023	16	384	668	668
7/27/2023	17	369	668	668
7/27/2023	18	354	668	668
7/27/2023	19	367	668	668
7/27/2023	20	367	668	668
7/27/2023	21	364	668	668
7/27/2023	22	358	668	668
7/27/2023	23	345	668	668
7/27/2023	24	380	668	668
7/28/2023	1	327	650	650
7/28/2023	2	316	550	550
7/28/2023	3	309	500	500
7/28/2023	4	301	500	500
7/28/2023	5	302	500	500
7/28/2023	6	304	500	500
7/28/2023	7	322	500	500
7/28/2023	8	355	550	550
7/28/2023	9	383	650	650
7/28/2023	10	406	650	650
7/28/2023	11	415	650	650
7/28/2023	12	413	650	650
7/28/2023	13	412	650	650
7/28/2023	14	420	650	650
7/28/2023	15	412	650	650
7/28/2023	16	404	650	650
7/28/2023	17	388	650	650
7/28/2023	18	381	650	650
7/28/2023	19	388	650	650
7/28/2023	20	379	650	650
7/28/2023	21	372	650	650
7/28/2023	22	349	650	650
7/28/2023	23	342	650	650
7/28/2023	24	372	668	668
7/29/2023	1	338	650	650
7/29/2023	2	327	600	600
7/29/2023	3	320	500	500
7/29/2023	4	311	450	450
7/29/2023	5	310	450	450
7/29/2023	6	305	450	450
7/29/2023	7	311	478	450
7/29/2023	8	334	615	612
7/29/2023	9	356	599	600
7/29/2023	10	377	610	613
7/29/2023	11	391	668	668
7/29/2023	12	384	668	668
7/29/2023	13	387	668	668
7/29/2023	14	393	668	668
7/29/2023	15	389	668	668
7/29/2023	16	382	656	653
7/29/2023	17	370	539	553
7/29/2023	18	362	567	567
7/29/2023	19	374	668	668
7/29/2023	20	370	621	620
7/29/2023	21	367	579	579
7/29/2023	22	367	668	668
7/29/2023	23	356	668	668
7/29/2023	24	366	650	650
7/30/2023	1	356	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
7/30/2023	2	335	668	668
7/30/2023	3	321	668	668
7/30/2023	4	314	668	668
7/30/2023	5	312	668	668
7/30/2023	6	302	553	553
7/30/2023	7	306	565	564
7/30/2023	8	316	626	625
7/30/2023	9	329	668	668
7/30/2023	10	344	668	668
7/30/2023	11	355	668	668
7/30/2023	12	356	668	668
7/30/2023	13	357	668	668
7/30/2023	14	356	668	668
7/30/2023	15	356	668	668
7/30/2023	16	355	668	668
7/30/2023	17	358	668	668
7/30/2023	18	365	668	668
7/30/2023	19	382	668	668
7/30/2023	20	385	668	668
7/30/2023	21	380	668	668
7/30/2023	22	373	668	668
7/30/2023	23	357	668	668
7/30/2023	24	340	668	668
7/31/2023	1	308	668	668
7/31/2023	2	297	668	668
7/31/2023	3	291	668	668
7/31/2023	4	290	668	668
7/31/2023	5	291	668	668
7/31/2023	6	298	553	553
7/31/2023	7	320	565	564
7/31/2023	8	356	626	625
7/31/2023	9	389	668	668
7/31/2023	10	416	668	668
7/31/2023	11	430	668	668
7/31/2023	12	426	668	668
7/31/2023	13	423	668	668
7/31/2023	14	434	668	668
7/31/2023	15	429	668	668
7/31/2023	16	427	668	668
7/31/2023	17	415	668	668
7/31/2023	18	401	668	668
7/31/2023	19	416	668	668
7/31/2023	20	409	668	668
7/31/2023	21	403	668	668
7/31/2023	22	393	668	668
7/31/2023	23	380	668	668
7/31/2023	24	367	668	668
8/1/2023	1	318	600	600
8/1/2023	2	309	550	550
8/1/2023	3	302	500	500
8/1/2023	4	295	500	500
8/1/2023	5	299	500	500
8/1/2023	6	301	500	500
8/1/2023	7	313	500	500
8/1/2023	8	347	500	500
8/1/2023	9	376	500	500
8/1/2023	10	397	668	668
8/1/2023	11	410	668	668
8/1/2023	12	404	668	668
8/1/2023	13	403	668	668
8/1/2023	14	412	668	668
8/1/2023	15	404	668	668
8/1/2023	16	398	668	668
8/1/2023	17	370	618	607
8/1/2023	18	383	668	661

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/1/2023	19	372	549	542
8/1/2023	20	377	606	599
8/1/2023	21	360	500	493
8/1/2023	22	346	628	620
8/1/2023	23	336	578	571
8/1/2023	24	326	534	533
8/2/2023	1	318	650	650
8/2/2023	2	307	630	630
8/2/2023	3	299	530	527
8/2/2023	4	293	500	500
8/2/2023	5	294	500	500
8/2/2023	6	300	500	500
8/2/2023	7	316	500	500
8/2/2023	8	348	656	653
8/2/2023	9	374	650	650
8/2/2023	10	396	650	650
8/2/2023	11	406	650	650
8/2/2023	12	398	605	604
8/2/2023	13	392	543	544
8/2/2023	14	398	635	635
8/2/2023	15	393	618	618
8/2/2023	16	389	650	650
8/2/2023	17	378	650	650
8/2/2023	18	372	650	650
8/2/2023	19	378	650	650
8/2/2023	20	372	650	650
8/2/2023	21	365	650	650
8/2/2023	22	354	668	668
8/2/2023	23	339	668	668
8/2/2023	24	335	668	668
8/3/2023	1	325	600	600
8/3/2023	2	319	550	550
8/3/2023	3	311	550	550
8/3/2023	4	304	550	550
8/3/2023	5	305	550	550
8/3/2023	6	309	550	550
8/3/2023	7	326	550	550
8/3/2023	8	351	600	600
8/3/2023	9	376	650	650
8/3/2023	10	398	650	650
8/3/2023	11	410	650	650
8/3/2023	12	402	650	650
8/3/2023	13	397	650	650
8/3/2023	14	401	650	650
8/3/2023	15	394	650	650
8/3/2023	16	389	650	650
8/3/2023	17	378	650	650
8/3/2023	18	374	650	650
8/3/2023	19	382	650	650
8/3/2023	20	375	650	650
8/3/2023	21	369	650	650
8/3/2023	22	359	650	650
8/3/2023	23	346	650	650
8/3/2023	24	332	651	650
8/4/2023	1	323	668	668
8/4/2023	2	315	668	668
8/4/2023	3	309	600	600
8/4/2023	4	308	600	600
8/4/2023	5	310	600	600
8/4/2023	6	316	600	600
8/4/2023	7	326	600	600
8/4/2023	8	357	600	600
8/4/2023	9	382	550	550
8/4/2023	10	404	600	600
8/4/2023	11	414	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/4/2023	12	408	668	668
8/4/2023	13	400	668	668
8/4/2023	14	411	668	668
8/4/2023	15	405	668	668
8/4/2023	16	399	668	668
8/4/2023	17	389	668	668
8/4/2023	18	380	668	668
8/4/2023	19	383	668	668
8/4/2023	20	375	668	668
8/4/2023	21	367	668	668
8/4/2023	22	358	668	668
8/4/2023	23	347	668	668
8/4/2023	24	323	668	668
8/5/2023	1	308	668	668
8/5/2023	2	302	668	668
8/5/2023	3	293	600	600
8/5/2023	4	286	600	600
8/5/2023	5	287	600	600
8/5/2023	6	287	600	600
8/5/2023	7	294	600	600
8/5/2023	8	317	600	600
8/5/2023	9	342	550	550
8/5/2023	10	368	600	600
8/5/2023	11	379	600	600
8/5/2023	12	373	600	600
8/5/2023	13	363	600	600
8/5/2023	14	364	600	600
8/5/2023	15	361	600	600
8/5/2023	16	354	600	600
8/5/2023	17	350	600	600
8/5/2023	18	349	600	600
8/5/2023	19	329	600	600
8/5/2023	20	355	600	600
8/5/2023	21	350	600	600
8/5/2023	22	338	600	600
8/5/2023	23	317	600	600
8/5/2023	24	294	600	600
8/6/2023	1	306	600	600
8/6/2023	2	297	550	550
8/6/2023	3	289	500	499
8/6/2023	4	283	442	442
8/6/2023	5	281	415	414
8/6/2023	6	277	365	365
8/6/2023	7	280	354	354
8/6/2023	8	289	411	410
8/6/2023	9	308	411	410
8/6/2023	10	328	400	402
8/6/2023	11	335	432	431
8/6/2023	12	333	454	454
8/6/2023	13	330	433	433
8/6/2023	14	327	414	413
8/6/2023	15	328	472	472
8/6/2023	16	327	490	490
8/6/2023	17	330	582	581
8/6/2023	18	340	634	633
8/6/2023	19	356	668	667
8/6/2023	20	356	668	667
8/6/2023	21	353	668	667
8/6/2023	22	344	668	668
8/6/2023	23	331	650	649
8/6/2023	24	314	600	599
8/7/2023	1	314	668	667
8/7/2023	2	305	600	599
8/7/2023	3	296	550	549
8/7/2023	4	294	550	549

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/7/2023	5	297	550	549
8/7/2023	6	309	550	549
8/7/2023	7	327	550	536
8/7/2023	8	363	600	570
8/7/2023	9	394	668	624
8/7/2023	10	420	668	632
8/7/2023	11	435	668	663
8/7/2023	12	432	668	661
8/7/2023	13	425	668	652
8/7/2023	14	425	668	652
8/7/2023	15	422	668	659
8/7/2023	16	418	668	663
8/7/2023	17	407	668	668
8/7/2023	18	401	668	668
8/7/2023	19	406	668	668
8/7/2023	20	402	668	668
8/7/2023	21	393	668	668
8/7/2023	22	381	668	666
8/7/2023	23	365	668	667
8/7/2023	24	353	668	668
8/8/2023	1	357	650	650
8/8/2023	2	345	568	568
8/8/2023	3	335	500	500
8/8/2023	4	329	500	500
8/8/2023	5	329	500	500
8/8/2023	6	331	500	500
8/8/2023	7	342	500	500
8/8/2023	8	377	568	568
8/8/2023	9	410	650	650
8/8/2023	10	434	650	650
8/8/2023	11	448	650	650
8/8/2023	12	449	650	650
8/8/2023	13	438	650	650
8/8/2023	14	438	650	650
8/8/2023	15	453	650	650
8/8/2023	16	440	668	668
8/8/2023	17	420	650	650
8/8/2023	18	410	650	650
8/8/2023	19	421	650	650
8/8/2023	20	417	650	650
8/8/2023	21	415	650	650
8/8/2023	22	403	668	668
8/8/2023	23	389	668	668
8/8/2023	24	351	650	650
8/9/2023	1	366	650	650
8/9/2023	2	356	600	600
8/9/2023	3	346	550	550
8/9/2023	4	339	550	550
8/9/2023	5	338	550	550
8/9/2023	6	338	550	550
8/9/2023	7	346	550	550
8/9/2023	8	383	600	600
8/9/2023	9	415	650	650
8/9/2023	10	437	650	650
8/9/2023	11	449	650	650
8/9/2023	12	445	650	650
8/9/2023	13	449	650	650
8/9/2023	14	464	668	668
8/9/2023	15	462	668	668
8/9/2023	16	451	668	668
8/9/2023	17	429	650	650
8/9/2023	18	411	650	650
8/9/2023	19	420	650	650
8/9/2023	20	416	650	650
8/9/2023	21	414	650	650

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/9/2023	22	407	658	658
8/9/2023	23	398	668	668
8/9/2023	24	352	650	650
8/10/2023	1	384	658	658
8/10/2023	2	371	600	600
8/10/2023	3	362	550	550
8/10/2023	4	353	550	550
8/10/2023	5	354	550	550
8/10/2023	6	353	550	550
8/10/2023	7	360	555	555
8/10/2023	8	397	600	600
8/10/2023	9	424	657	656
8/10/2023	10	450	668	668
8/10/2023	11	462	668	668
8/10/2023	12	451	668	668
8/10/2023	13	454	668	668
8/10/2023	14	474	668	668
8/10/2023	15	469	668	668
8/10/2023	16	459	668	668
8/10/2023	17	432	658	658
8/10/2023	18	412	650	650
8/10/2023	19	426	658	658
8/10/2023	20	425	650	650
8/10/2023	21	421	658	658
8/10/2023	22	412	650	650
8/10/2023	23	403	650	650
8/10/2023	24	387	658	658
8/11/2023	1	372	668	668
8/11/2023	2	361	668	668
8/11/2023	3	350	600	600
8/11/2023	4	342	550	550
8/11/2023	5	345	500	500
8/11/2023	6	347	450	450
8/11/2023	7	359	500	500
8/11/2023	8	394	550	550
8/11/2023	9	433	600	600
8/11/2023	10	452	668	668
8/11/2023	11	462	668	668
8/11/2023	12	448	668	668
8/11/2023	13	442	668	668
8/11/2023	14	449	668	668
8/11/2023	15	446	668	668
8/11/2023	16	440	668	668
8/11/2023	17	427	668	668
8/11/2023	18	413	668	668
8/11/2023	19	415	668	668
8/11/2023	20	407	668	668
8/11/2023	21	399	668	668
8/11/2023	22	389	668	668
8/11/2023	23	377	668	668
8/11/2023	24	365	668	668
8/12/2023	1	349	668	668
8/12/2023	2	339	668	668
8/12/2023	3	328	600	600
8/12/2023	4	321	550	550
8/12/2023	5	318	500	500
8/12/2023	6	315	450	450
8/12/2023	7	319	500	500
8/12/2023	8	347	550	550
8/12/2023	9	367	600	600
8/12/2023	10	391	668	668
8/12/2023	11	405	668	668
8/12/2023	12	402	668	668
8/12/2023	13	404	668	668
8/12/2023	14	420	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/12/2023	15	417	668	668
8/12/2023	16	405	668	668
8/12/2023	17	393	668	668
8/12/2023	18	386	668	668
8/12/2023	19	407	668	668
8/12/2023	20	406	668	668
8/12/2023	21	405	668	668
8/12/2023	22	400	668	668
8/12/2023	23	389	668	668
8/12/2023	24	377	668	668
8/13/2023	1	390	668	668
8/13/2023	2	377	668	668
8/13/2023	3	362	668	668
8/13/2023	4	354	668	668
8/13/2023	5	348	668	668
8/13/2023	6	336	650	650
8/13/2023	7	329	550	550
8/13/2023	8	342	600	600
8/13/2023	9	362	650	650
8/13/2023	10	384	650	650
8/13/2023	11	390	668	668
8/13/2023	12	391	668	668
8/13/2023	13	395	668	668
8/13/2023	14	400	668	668
8/13/2023	15	397	668	668
8/13/2023	16	393	668	668
8/13/2023	17	386	668	668
8/13/2023	18	387	668	668
8/13/2023	19	417	668	668
8/13/2023	20	423	668	668
8/13/2023	21	424	668	668
8/13/2023	22	421	668	668
8/13/2023	23	410	668	668
8/13/2023	24	395	668	668
8/14/2023	1	363	668	668
8/14/2023	2	351	668	668
8/14/2023	3	337	668	668
8/14/2023	4	330	630	630
8/14/2023	5	331	630	630
8/14/2023	6	337	630	630
8/14/2023	7	352	668	668
8/14/2023	8	392	668	668
8/14/2023	9	424	668	668
8/14/2023	10	449	668	668
8/14/2023	11	461	668	668
8/14/2023	12	452	668	668
8/14/2023	13	461	668	668
8/14/2023	14	472	668	668
8/14/2023	15	471	668	668
8/14/2023	16	458	668	668
8/14/2023	17	437	668	668
8/14/2023	18	419	668	668
8/14/2023	19	433	668	668
8/14/2023	20	432	668	668
8/14/2023	21	432	668	668
8/14/2023	22	427	668	668
8/14/2023	23	415	668	668
8/14/2023	24	400	668	668
8/15/2023	1	369	668	668
8/15/2023	2	356	668	668
8/15/2023	3	346	600	600
8/15/2023	4	340	550	550
8/15/2023	5	338	550	550
8/15/2023	6	340	550	550
8/15/2023	7	355	600	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/15/2023	8	393	668	668
8/15/2023	9	426	668	668
8/15/2023	10	446	668	668
8/15/2023	11	455	668	668
8/15/2023	12	446	668	668
8/15/2023	13	448	668	668
8/15/2023	14	465	668	668
8/15/2023	15	464	668	668
8/15/2023	16	449	668	668
8/15/2023	17	434	668	668
8/15/2023	18	414	668	668
8/15/2023	19	424	668	668
8/15/2023	20	410	668	668
8/15/2023	21	409	668	668
8/15/2023	22	400	668	668
8/15/2023	23	388	668	668
8/15/2023	24	374	668	668
8/16/2023	1	368	668	668
8/16/2023	2	353	668	668
8/16/2023	3	342	600	600
8/16/2023	4	333	550	550
8/16/2023	5	330	550	550
8/16/2023	6	335	550	550
8/16/2023	7	347	600	600
8/16/2023	8	381	668	668
8/16/2023	9	410	668	668
8/16/2023	10	431	668	668
8/16/2023	11	451	668	668
8/16/2023	12	449	668	668
8/16/2023	13	459	668	668
8/16/2023	14	473	668	668
8/16/2023	15	473	668	668
8/16/2023	16	467	668	668
8/16/2023	17	440	668	668
8/16/2023	18	421	668	668
8/16/2023	19	433	668	668
8/16/2023	20	428	668	668
8/16/2023	21	429	668	668
8/16/2023	22	424	668	668
8/16/2023	23	410	668	668
8/16/2023	24	372	668	668
8/17/2023	1	372	668	668
8/17/2023	2	360	668	668
8/17/2023	3	351	600	600
8/17/2023	4	342	550	550
8/17/2023	5	343	500	500
8/17/2023	6	343	450	450
8/17/2023	7	353	500	500
8/17/2023	8	389	550	550
8/17/2023	9	419	600	600
8/17/2023	10	446	668	668
8/17/2023	11	458	668	668
8/17/2023	12	452	668	668
8/17/2023	13	455	668	668
8/17/2023	14	474	668	668
8/17/2023	15	472	668	668
8/17/2023	16	463	668	668
8/17/2023	17	438	668	668
8/17/2023	18	418	668	668
8/17/2023	19	435	668	668
8/17/2023	20	434	668	668
8/17/2023	21	432	668	668
8/17/2023	22	425	668	668
8/17/2023	23	415	668	668
8/17/2023	24	394	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/18/2023	1	387	668	668
8/18/2023	2	373	668	668
8/18/2023	3	363	600	600
8/18/2023	4	354	550	550
8/18/2023	5	350	500	500
8/18/2023	6	346	450	450
8/18/2023	7	354	500	500
8/18/2023	8	392	550	550
8/18/2023	9	421	600	600
8/18/2023	10	439	668	668
8/18/2023	11	454	668	668
8/18/2023	12	452	668	668
8/18/2023	13	459	668	668
8/18/2023	14	474	668	668
8/18/2023	15	473	668	668
8/18/2023	16	463	668	668
8/18/2023	17	438	668	668
8/18/2023	18	418	668	668
8/18/2023	19	434	668	668
8/18/2023	20	431	668	668
8/18/2023	21	428	668	668
8/18/2023	22	425	668	668
8/18/2023	23	413	668	668
8/18/2023	24	390	668	668
8/19/2023	1	377	668	668
8/19/2023	2	362	668	668
8/19/2023	3	348	600	600
8/19/2023	4	338	550	550
8/19/2023	5	331	500	500
8/19/2023	6	325	450	450
8/19/2023	7	326	500	500
8/19/2023	8	345	550	550
8/19/2023	9	373	600	600
8/19/2023	10	396	668	668
8/19/2023	11	410	668	668
8/19/2023	12	408	668	668
8/19/2023	13	412	668	668
8/19/2023	14	425	668	668
8/19/2023	15	421	668	668
8/19/2023	16	410	668	668
8/19/2023	17	395	668	668
8/19/2023	18	385	668	668
8/19/2023	19	407	668	668
8/19/2023	20	408	668	668
8/19/2023	21	411	668	668
8/19/2023	22	411	668	668
8/19/2023	23	399	668	668
8/19/2023	24	381	668	668
8/20/2023	1	369	668	668
8/20/2023	2	356	668	668
8/20/2023	3	342	600	600
8/20/2023	4	335	550	550
8/20/2023	5	329	550	550
8/20/2023	6	318	550	550
8/20/2023	7	311	600	600
8/20/2023	8	323	668	668
8/20/2023	9	342	668	668
8/20/2023	10	363	668	668
8/20/2023	11	369	668	668
8/20/2023	12	369	668	668
8/20/2023	13	374	668	668
8/20/2023	14	378	668	668
8/20/2023	15	376	668	668
8/20/2023	16	372	668	668
8/20/2023	17	365	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/20/2023	18	366	668	668
8/20/2023	19	394	668	668
8/20/2023	20	400	668	668
8/20/2023	21	400	668	668
8/20/2023	22	398	668	668
8/20/2023	23	387	668	668
8/20/2023	24	373	668	668
8/21/2023	1	395	668	668
8/21/2023	2	382	668	668
8/21/2023	3	367	668	668
8/21/2023	4	359	668	668
8/21/2023	5	353	668	668
8/21/2023	6	341	600	600
8/21/2023	7	334	600	600
8/21/2023	8	347	600	600
8/21/2023	9	367	600	600
8/21/2023	10	390	600	600
8/21/2023	11	396	600	600
8/21/2023	12	396	600	600
8/21/2023	13	400	600	600
8/21/2023	14	405	600	600
8/21/2023	15	403	600	600
8/21/2023	16	399	600	600
8/21/2023	17	391	600	600
8/21/2023	18	392	600	600
8/21/2023	19	423	668	668
8/21/2023	20	429	668	668
8/21/2023	21	429	668	668
8/21/2023	22	426	668	668
8/21/2023	23	415	668	668
8/21/2023	24	400	668	668
8/22/2023	1	376	668	668
8/22/2023	2	364	668	668
8/22/2023	3	353	668	668
8/22/2023	4	347	668	668
8/22/2023	5	345	668	668
8/22/2023	6	347	668	668
8/22/2023	7	362	668	668
8/22/2023	8	401	668	668
8/22/2023	9	434	668	668
8/22/2023	10	455	668	668
8/22/2023	11	464	668	668
8/22/2023	12	456	668	668
8/22/2023	13	457	668	668
8/22/2023	14	474	668	668
8/22/2023	15	473	668	668
8/22/2023	16	458	668	668
8/22/2023	17	443	668	668
8/22/2023	18	422	668	668
8/22/2023	19	432	668	668
8/22/2023	20	418	668	668
8/22/2023	21	417	668	668
8/22/2023	22	408	668	668
8/22/2023	23	396	668	668
8/22/2023	24	381	668	668
8/23/2023	1	375	668	668
8/23/2023	2	361	650	650
8/23/2023	3	351	600	600
8/23/2023	4	342	600	600
8/23/2023	5	339	600	600
8/23/2023	6	338	600	600
8/23/2023	7	351	600	600
8/23/2023	8	387	650	650
8/23/2023	9	423	668	668
8/23/2023	10	444	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/23/2023	11	458	668	668
8/23/2023	12	454	668	668
8/23/2023	13	458	668	668
8/23/2023	14	477	668	668
8/23/2023	15	475	668	668
8/23/2023	16	464	668	668
8/23/2023	17	441	668	668
8/23/2023	18	415	668	668
8/23/2023	19	432	668	668
8/23/2023	20	428	668	668
8/23/2023	21	430	668	668
8/23/2023	22	426	668	668
8/23/2023	23	414	668	668
8/23/2023	24	405	668	668
8/24/2023	1	372	668	668
8/24/2023	2	360	600	600
8/24/2023	3	347	550	550
8/24/2023	4	339	500	500
8/24/2023	5	336	450	450
8/24/2023	6	334	500	500
8/24/2023	7	341	550	550
8/24/2023	8	375	600	600
8/24/2023	9	408	668	668
8/24/2023	10	428	668	668
8/24/2023	11	441	668	668
8/24/2023	12	440	668	668
8/24/2023	13	447	668	668
8/24/2023	14	462	668	668
8/24/2023	15	457	668	668
8/24/2023	16	446	668	668
8/24/2023	17	423	668	668
8/24/2023	18	415	668	668
8/24/2023	19	405	668	668
8/24/2023	20	418	668	668
8/24/2023	21	416	668	668
8/24/2023	22	410	668	668
8/24/2023	23	399	668	668
8/24/2023	24	387	668	668
8/25/2023	1	375	668	668
8/25/2023	2	361	600	600
8/25/2023	3	351	550	550
8/25/2023	4	343	500	500
8/25/2023	5	338	450	450
8/25/2023	6	335	500	500
8/25/2023	7	343	550	550
8/25/2023	8	379	600	600
8/25/2023	9	406	668	668
8/25/2023	10	425	668	668
8/25/2023	11	439	668	668
8/25/2023	12	437	668	668
8/25/2023	13	444	668	668
8/25/2023	14	458	668	668
8/25/2023	15	457	668	668
8/25/2023	16	447	668	668
8/25/2023	17	424	668	668
8/25/2023	18	404	668	668
8/25/2023	19	420	668	668
8/25/2023	20	417	668	668
8/25/2023	21	414	668	668
8/25/2023	22	411	668	668
8/25/2023	23	400	668	668
8/25/2023	24	386	668	668
8/26/2023	1	372	668	668
8/26/2023	2	359	647	647
8/26/2023	3	347	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/26/2023	4	339	647	647
8/26/2023	5	334	647	647
8/26/2023	6	327	647	647
8/26/2023	7	328	600	600
8/26/2023	8	353	600	600
8/26/2023	9	379	668	668
8/26/2023	10	401	668	668
8/26/2023	11	416	668	668
8/26/2023	12	411	668	668
8/26/2023	13	417	668	668
8/26/2023	14	429	668	668
8/26/2023	15	423	668	668
8/26/2023	16	406	668	668
8/26/2023	17	391	668	668
8/26/2023	18	387	668	668
8/26/2023	19	401	668	668
8/26/2023	20	401	668	668
8/26/2023	21	402	668	668
8/26/2023	22	398	668	668
8/26/2023	23	384	668	668
8/26/2023	24	372	668	668
8/27/2023	1	376	668	668
8/27/2023	2	363	654	654
8/27/2023	3	349	600	600
8/27/2023	4	341	600	600
8/27/2023	5	335	600	600
8/27/2023	6	324	600	600
8/27/2023	7	317	600	600
8/27/2023	8	329	650	650
8/27/2023	9	349	668	668
8/27/2023	10	370	668	668
8/27/2023	11	376	668	668
8/27/2023	12	376	668	668
8/27/2023	13	381	668	668
8/27/2023	14	385	668	668
8/27/2023	15	383	668	668
8/27/2023	16	379	668	668
8/27/2023	17	372	668	668
8/27/2023	18	373	668	668
8/27/2023	19	402	668	668
8/27/2023	20	407	668	668
8/27/2023	21	408	668	668
8/27/2023	22	405	668	668
8/27/2023	23	395	668	668
8/27/2023	24	380	668	668
8/28/2023	1	396	668	668
8/28/2023	2	386	668	668
8/28/2023	3	377	668	668
8/28/2023	4	365	668	668
8/28/2023	5	359	666	666
8/28/2023	6	351	600	600
8/28/2023	7	348	600	600
8/28/2023	8	367	650	650
8/28/2023	9	373	650	650
8/28/2023	10	395	650	650
8/28/2023	11	400	650	650
8/28/2023	12	390	650	650
8/28/2023	13	386	650	650
8/28/2023	14	385	650	650
8/28/2023	15	386	650	650
8/28/2023	16	383	650	650
8/28/2023	17	383	650	650
8/28/2023	18	398	650	650
8/28/2023	19	411	650	650
8/28/2023	20	412	650	650

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/28/2023	21	409	650	650
8/28/2023	22	400	668	668
8/28/2023	23	383	668	668
8/28/2023	24	371	668	668
8/29/2023	1	362	668	629
8/29/2023	2	349	600	600
8/29/2023	3	339	600	600
8/29/2023	4	331	600	600
8/29/2023	5	333	600	600
8/29/2023	6	337	600	600
8/29/2023	7	347	600	600
8/29/2023	8	386	608	605
8/29/2023	9	419	608	600
8/29/2023	10	448	668	668
8/29/2023	11	460	668	668
8/29/2023	12	450	668	668
8/29/2023	13	455	668	668
8/29/2023	14	462	668	668
8/29/2023	15	457	668	668
8/29/2023	16	453	668	668
8/29/2023	17	436	668	668
8/29/2023	18	422	668	600
8/29/2023	19	428	668	663
8/29/2023	20	417	668	630
8/29/2023	21	413	668	630
8/29/2023	22	403	668	668
8/29/2023	23	390	653	648
8/29/2023	24	374	658	653
8/30/2023	1	361	650	650
8/30/2023	2	347	630	630
8/30/2023	3	337	600	600
8/30/2023	4	329	600	600
8/30/2023	5	327	600	600
8/30/2023	6	326	600	600
8/30/2023	7	338	600	600
8/30/2023	8	373	630	630
8/30/2023	9	407	650	650
8/30/2023	10	428	650	650
8/30/2023	11	441	650	650
8/30/2023	12	438	650	650
8/30/2023	13	441	650	650
8/30/2023	14	461	650	650
8/30/2023	15	457	650	650
8/30/2023	16	446	650	650
8/30/2023	17	423	650	650
8/30/2023	18	398	650	650
8/30/2023	19	415	650	650
8/30/2023	20	411	650	650
8/30/2023	21	413	650	650
8/30/2023	22	410	650	650
8/30/2023	23	399	650	650
8/30/2023	24	388	650	650
8/31/2023	1	345	650	650
8/31/2023	2	333	630	630
8/31/2023	3	322	600	600
8/31/2023	4	314	600	600
8/31/2023	5	312	600	600
8/31/2023	6	310	600	600
8/31/2023	7	320	600	600
8/31/2023	8	352	630	630
8/31/2023	9	382	650	650
8/31/2023	10	408	650	650
8/31/2023	11	420	650	650
8/31/2023	12	419	650	650
8/31/2023	13	426	650	650

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
8/31/2023	14	440	650	650
8/31/2023	15	436	650	650
8/31/2023	16	425	650	650
8/31/2023	17	402	650	650
8/31/2023	18	385	650	650
8/31/2023	19	398	650	650
8/31/2023	20	396	650	650
8/31/2023	21	395	650	650
8/31/2023	22	391	650	650
8/31/2023	23	380	650	650
8/31/2023	24	374	650	650
9/1/2023	1	361	668	668
9/1/2023	2	341	600	600
9/1/2023	3	334	550	550
9/1/2023	4	326	550	550
9/1/2023	5	321	550	550
9/1/2023	6	324	550	550
9/1/2023	7	327	550	550
9/1/2023	8	361	600	600
9/1/2023	9	387	600	600
9/1/2023	10	408	668	668
9/1/2023	11	417	668	668
9/1/2023	12	409	668	668
9/1/2023	13	412	668	668
9/1/2023	14	427	668	668
9/1/2023	15	424	668	668
9/1/2023	16	415	668	668
9/1/2023	17	392	668	668
9/1/2023	18	384	668	668
9/1/2023	19	400	668	668
9/1/2023	20	398	668	668
9/1/2023	21	384	668	668
9/1/2023	22	381	668	668
9/1/2023	23	369	668	668
9/1/2023	24	372	668	668
9/2/2023	1	344	668	668
9/2/2023	2	331	600	600
9/2/2023	3	320	550	550
9/2/2023	4	315	550	550
9/2/2023	5	311	550	550
9/2/2023	6	306	500	500
9/2/2023	7	308	550	550
9/2/2023	8	325	550	550
9/2/2023	9	348	600	600
9/2/2023	10	364	600	600
9/2/2023	11	374	600	600
9/2/2023	12	364	600	600
9/2/2023	13	371	600	600
9/2/2023	14	373	600	600
9/2/2023	15	363	600	600
9/2/2023	16	353	600	600
9/2/2023	17	346	600	600
9/2/2023	18	351	600	600
9/2/2023	19	358	600	600
9/2/2023	20	358	600	600
9/2/2023	21	356	600	600
9/2/2023	22	342	600	600
9/2/2023	23	333	600	600
9/2/2023	24	319	600	600
9/3/2023	1	333	650	650
9/3/2023	2	326	630	630
9/3/2023	3	315	600	600
9/3/2023	4	309	600	600
9/3/2023	5	306	600	600
9/3/2023	6	302	600	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/3/2023	7	301	600	600
9/3/2023	8	308	630	630
9/3/2023	9	317	650	650
9/3/2023	10	334	650	650
9/3/2023	11	340	650	650
9/3/2023	12	336	650	650
9/3/2023	13	336	650	650
9/3/2023	14	337	650	650
9/3/2023	15	335	650	650
9/3/2023	16	330	650	650
9/3/2023	17	333	650	650
9/3/2023	18	342	650	650
9/3/2023	19	356	650	650
9/3/2023	20	355	650	650
9/3/2023	21	351	650	650
9/3/2023	22	343	650	650
9/3/2023	23	327	650	650
9/3/2023	24	319	650	650
9/4/2023	1	317	650	650
9/4/2023	2	309	630	630
9/4/2023	3	298	600	600
9/4/2023	4	295	600	600
9/4/2023	5	304	600	600
9/4/2023	6	306	600	600
9/4/2023	7	313	600	600
9/4/2023	8	352	630	630
9/4/2023	9	386	650	650
9/4/2023	10	409	650	650
9/4/2023	11	419	668	668
9/4/2023	12	408	668	668
9/4/2023	13	412	668	668
9/4/2023	14	427	668	668
9/4/2023	15	418	650	650
9/4/2023	16	402	650	650
9/4/2023	17	390	650	650
9/4/2023	18	381	650	650
9/4/2023	19	384	650	650
9/4/2023	20	391	650	650
9/4/2023	21	385	650	650
9/4/2023	22	379	650	650
9/4/2023	23	365	650	650
9/4/2023	24	351	650	650
9/5/2023	1	339	650	650
9/5/2023	2	328	630	630
9/5/2023	3	318	600	600
9/5/2023	4	317	600	600
9/5/2023	5	321	600	600
9/5/2023	6	326	600	600
9/5/2023	7	329	600	600
9/5/2023	8	360	630	630
9/5/2023	9	387	650	650
9/5/2023	10	407	650	650
9/5/2023	11	417	668	668
9/5/2023	12	410	668	668
9/5/2023	13	415	668	668
9/5/2023	14	420	668	668
9/5/2023	15	412	650	650
9/5/2023	16	409	650	650
9/5/2023	17	401	650	650
9/5/2023	18	394	650	650
9/5/2023	19	390	650	650
9/5/2023	20	384	650	650
9/5/2023	21	376	650	650
9/5/2023	22	365	650	650
9/5/2023	23	353	650	650

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/5/2023	24	384	668	668
9/6/2023	1	330	650	650
9/6/2023	2	317	630	630
9/6/2023	3	310	600	600
9/6/2023	4	310	600	600
9/6/2023	5	319	600	600
9/6/2023	6	333	600	600
9/6/2023	7	336	600	600
9/6/2023	8	373	630	630
9/6/2023	9	399	650	650
9/6/2023	10	412	650	650
9/6/2023	11	421	668	668
9/6/2023	12	411	626	626
9/6/2023	13	416	668	668
9/6/2023	14	431	668	668
9/6/2023	15	433	650	650
9/6/2023	16	425	650	650
9/6/2023	17	421	650	650
9/6/2023	18	416	650	650
9/6/2023	19	420	650	650
9/6/2023	20	416	650	650
9/6/2023	21	407	650	650
9/6/2023	22	395	650	650
9/6/2023	23	382	650	650
9/6/2023	24	392	668	668
9/7/2023	1	370	650	650
9/7/2023	2	358	630	630
9/7/2023	3	345	600	600
9/7/2023	4	336	600	600
9/7/2023	5	337	600	600
9/7/2023	6	337	600	600
9/7/2023	7	344	600	600
9/7/2023	8	376	630	630
9/7/2023	9	405	650	650
9/7/2023	10	431	650	650
9/7/2023	11	444	668	668
9/7/2023	12	439	668	668
9/7/2023	13	442	668	668
9/7/2023	14	457	668	668
9/7/2023	15	455	650	650
9/7/2023	16	448	650	650
9/7/2023	17	420	650	650
9/7/2023	18	409	650	650
9/7/2023	19	421	650	650
9/7/2023	20	418	650	650
9/7/2023	21	415	650	650
9/7/2023	22	410	650	650
9/7/2023	23	393	650	650
9/7/2023	24	391	650	650
9/8/2023	1	370	668	668
9/8/2023	2	358	600	600
9/8/2023	3	345	550	550
9/8/2023	4	336	550	550
9/8/2023	5	337	550	550
9/8/2023	6	337	500	500
9/8/2023	7	344	550	550
9/8/2023	8	376	550	550
9/8/2023	9	405	600	600
9/8/2023	10	431	668	668
9/8/2023	11	443	668	668
9/8/2023	12	439	668	668
9/8/2023	13	441	668	668
9/8/2023	14	457	668	668
9/8/2023	15	455	668	668
9/8/2023	16	448	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/8/2023	17	420	668	668
9/8/2023	18	409	668	668
9/8/2023	19	421	668	668
9/8/2023	20	417	668	668
9/8/2023	21	414	668	668
9/8/2023	22	410	668	668
9/8/2023	23	393	668	668
9/8/2023	24	388	668	668
9/9/2023	1	369	668	668
9/9/2023	2	354	600	600
9/9/2023	3	340	550	550
9/9/2023	4	330	550	550
9/9/2023	5	323	550	550
9/9/2023	6	318	500	500
9/9/2023	7	319	550	550
9/9/2023	8	338	550	550
9/9/2023	9	365	600	600
9/9/2023	10	388	668	668
9/9/2023	11	401	668	668
9/9/2023	12	399	668	668
9/9/2023	13	404	668	668
9/9/2023	14	415	668	668
9/9/2023	15	412	668	668
9/9/2023	16	401	668	668
9/9/2023	17	385	668	668
9/9/2023	18	376	668	668
9/9/2023	19	398	668	668
9/9/2023	20	399	668	668
9/9/2023	21	403	668	668
9/9/2023	22	403	668	668
9/9/2023	23	391	668	668
9/9/2023	24	369	668	668
9/10/2023	1	369	650	650
9/10/2023	2	359	630	630
9/10/2023	3	352	600	600
9/10/2023	4	345	600	600
9/10/2023	5	342	600	600
9/10/2023	6	339	600	600
9/10/2023	7	337	600	600
9/10/2023	8	338	630	630
9/10/2023	9	347	650	650
9/10/2023	10	359	650	650
9/10/2023	11	376	668	668
9/10/2023	12	384	668	668
9/10/2023	13	382	668	668
9/10/2023	14	381	668	668
9/10/2023	15	381	650	650
9/10/2023	16	381	650	650
9/10/2023	17	380	650	650
9/10/2023	18	380	650	650
9/10/2023	19	393	650	650
9/10/2023	20	406	650	650
9/10/2023	21	405	650	650
9/10/2023	22	395	650	650
9/10/2023	23	380	650	650
9/10/2023	24	367	650	650
9/11/2023	1	369	650	650
9/11/2023	2	357	630	630
9/11/2023	3	350	600	600
9/11/2023	4	350	600	600
9/11/2023	5	359	600	600
9/11/2023	6	371	600	600
9/11/2023	7	374	600	600
9/11/2023	8	408	630	630
9/11/2023	9	432	650	650

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/11/2023	10	444	650	650
9/11/2023	11	453	668	668
9/11/2023	12	444	668	668
9/11/2023	13	448	668	668
9/11/2023	14	462	668	668
9/11/2023	15	469	650	650
9/11/2023	16	463	650	650
9/11/2023	17	459	650	650
9/11/2023	18	454	650	650
9/11/2023	19	458	650	650
9/11/2023	20	454	650	650
9/11/2023	21	446	650	650
9/11/2023	22	434	650	650
9/11/2023	23	422	650	650
9/11/2023	24	405	650	650
9/12/2023	1	352	650	650
9/12/2023	2	339	630	630
9/12/2023	3	336	600	600
9/12/2023	4	333	600	600
9/12/2023	5	331	600	600
9/12/2023	6	335	600	600
9/12/2023	7	336	600	600
9/12/2023	8	374	630	630
9/12/2023	9	407	650	650
9/12/2023	10	430	650	650
9/12/2023	11	442	668	668
9/12/2023	12	437	668	668
9/12/2023	13	447	668	668
9/12/2023	14	462	668	668
9/12/2023	15	458	650	650
9/12/2023	16	447	650	650
9/12/2023	17	425	650	650
9/12/2023	18	419	650	650
9/12/2023	19	425	650	650
9/12/2023	20	421	650	650
9/12/2023	21	418	650	650
9/12/2023	22	407	650	650
9/12/2023	23	392	650	650
9/12/2023	24	368	650	650
9/13/2023	1	346	650	650
9/13/2023	2	336	630	630
9/13/2023	3	336	600	600
9/13/2023	4	333	600	600
9/13/2023	5	332	600	600
9/13/2023	6	341	600	600
9/13/2023	7	342	600	600
9/13/2023	8	380	630	630
9/13/2023	9	414	650	650
9/13/2023	10	436	650	650
9/13/2023	11	448	668	668
9/13/2023	12	442	668	668
9/13/2023	13	453	668	668
9/13/2023	14	467	668	668
9/13/2023	15	461	650	650
9/13/2023	16	454	650	650
9/13/2023	17	434	650	650
9/13/2023	18	428	650	650
9/13/2023	19	435	650	650
9/13/2023	20	429	650	650
9/13/2023	21	424	650	650
9/13/2023	22	413	650	650
9/13/2023	23	396	650	650
9/13/2023	24	394	650	650
9/14/2023	1	371	650	650
9/14/2023	2	358	630	630

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/14/2023	3	345	600	600
9/14/2023	4	337	600	600
9/14/2023	5	337	600	600
9/14/2023	6	337	600	600
9/14/2023	7	344	600	600
9/14/2023	8	376	630	630
9/14/2023	9	405	650	650
9/14/2023	10	431	650	650
9/14/2023	11	444	668	668
9/14/2023	12	439	668	668
9/14/2023	13	442	668	668
9/14/2023	14	458	668	668
9/14/2023	15	455	650	650
9/14/2023	16	449	650	650
9/14/2023	17	421	650	650
9/14/2023	18	409	650	650
9/14/2023	19	421	650	650
9/14/2023	20	418	650	650
9/14/2023	21	415	650	650
9/14/2023	22	410	650	650
9/14/2023	23	393	650	650
9/14/2023	24	384	650	650
9/15/2023	1	346	668	668
9/15/2023	2	335	600	600
9/15/2023	3	326	550	550
9/15/2023	4	324	550	550
9/15/2023	5	330	550	550
9/15/2023	6	337	500	500
9/15/2023	7	339	550	550
9/15/2023	8	374	550	550
9/15/2023	9	404	600	600
9/15/2023	10	426	668	668
9/15/2023	11	438	668	668
9/15/2023	12	431	668	668
9/15/2023	13	439	668	668
9/15/2023	14	448	668	668
9/15/2023	15	441	668	668
9/15/2023	16	436	668	668
9/15/2023	17	422	668	668
9/15/2023	18	416	668	668
9/15/2023	19	421	668	668
9/15/2023	20	415	668	668
9/15/2023	21	404	668	668
9/15/2023	22	393	668	668
9/15/2023	23	378	668	668
9/15/2023	24	370	668	668
9/16/2023	1	361	668	668
9/16/2023	2	348	600	600
9/16/2023	3	335	550	550
9/16/2023	4	328	550	550
9/16/2023	5	323	550	550
9/16/2023	6	317	500	500
9/16/2023	7	321	500	500
9/16/2023	8	349	550	550
9/16/2023	9	375	600	600
9/16/2023	10	402	668	668
9/16/2023	11	415	668	668
9/16/2023	12	414	668	668
9/16/2023	13	421	668	668
9/16/2023	14	435	668	668
9/16/2023	15	433	668	668
9/16/2023	16	420	668	668
9/16/2023	17	405	668	668
9/16/2023	18	403	668	668
9/16/2023	19	415	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/16/2023	20	414	668	668
9/16/2023	21	415	668	668
9/16/2023	22	407	668	668
9/16/2023	23	396	668	668
9/16/2023	24	382	668	668
9/17/2023	1	352	650	650
9/17/2023	2	339	630	630
9/17/2023	3	316	600	600
9/17/2023	4	313	600	600
9/17/2023	5	310	600	600
9/17/2023	6	296	600	600
9/17/2023	7	293	600	600
9/17/2023	8	306	630	630
9/17/2023	9	322	650	650
9/17/2023	10	345	650	650
9/17/2023	11	353	668	668
9/17/2023	12	353	668	668
9/17/2023	13	360	668	668
9/17/2023	14	366	668	668
9/17/2023	15	366	650	650
9/17/2023	16	358	650	650
9/17/2023	17	349	650	650
9/17/2023	18	359	650	650
9/17/2023	19	377	650	650
9/17/2023	20	385	650	650
9/17/2023	21	388	650	650
9/17/2023	22	381	650	650
9/17/2023	23	366	650	650
9/17/2023	24	350	650	650
9/18/2023	1	323	650	650
9/18/2023	2	316	630	630
9/18/2023	3	313	600	600
9/18/2023	4	313	600	600
9/18/2023	5	310	600	600
9/18/2023	6	311	600	600
9/18/2023	7	315	600	600
9/18/2023	8	316	600	600
9/18/2023	9	352	650	650
9/18/2023	10	375	650	650
9/18/2023	11	424	650	650
9/18/2023	12	419	668	668
9/18/2023	13	428	668	668
9/18/2023	14	452	668	668
9/18/2023	15	448	668	668
9/18/2023	16	436	650	650
9/18/2023	17	417	650	650
9/18/2023	18	409	650	650
9/18/2023	19	415	650	650
9/18/2023	20	410	650	650
9/18/2023	21	404	650	650
9/18/2023	22	391	650	650
9/18/2023	23	376	650	650
9/18/2023	24	358	650	650
9/19/2023	1	356	650	650
9/19/2023	2	346	630	630
9/19/2023	3	337	600	600
9/19/2023	4	335	600	600
9/19/2023	5	343	600	600
9/19/2023	6	343	600	600
9/19/2023	7	352	600	600
9/19/2023	8	384	600	600
9/19/2023	9	412	650	650
9/19/2023	10	432	650	650
9/19/2023	11	439	650	650
9/19/2023	12	431	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/19/2023	13	431	668	668
9/19/2023	14	452	668	668
9/19/2023	15	449	668	668
9/19/2023	16	439	650	650
9/19/2023	17	430	650	650
9/19/2023	18	426	650	650
9/19/2023	19	429	650	650
9/19/2023	20	424	650	650
9/19/2023	21	418	650	650
9/19/2023	22	406	650	650
9/19/2023	23	392	650	650
9/19/2023	24	373	650	650
9/20/2023	1	362	650	650
9/20/2023	2	350	630	630
9/20/2023	3	340	600	600
9/20/2023	4	334	600	600
9/20/2023	5	341	600	600
9/20/2023	6	342	600	600
9/20/2023	7	340	600	600
9/20/2023	8	378	600	600
9/20/2023	9	415	650	650
9/20/2023	10	441	650	650
9/20/2023	11	455	650	650
9/20/2023	12	450	668	668
9/20/2023	13	457	668	668
9/20/2023	14	468	668	668
9/20/2023	15	464	668	668
9/20/2023	16	456	650	650
9/20/2023	17	436	650	650
9/20/2023	18	433	650	650
9/20/2023	19	439	650	650
9/20/2023	20	435	650	650
9/20/2023	21	428	650	650
9/20/2023	22	415	650	650
9/20/2023	23	396	650	650
9/20/2023	24	367	650	650
9/21/2023	1	362	650	650
9/21/2023	2	350	630	630
9/21/2023	3	340	600	600
9/21/2023	4	334	600	600
9/21/2023	5	341	600	600
9/21/2023	6	342	600	600
9/21/2023	7	340	600	600
9/21/2023	8	378	600	600
9/21/2023	9	415	650	650
9/21/2023	10	441	650	650
9/21/2023	11	455	650	650
9/21/2023	12	450	668	668
9/21/2023	13	457	668	668
9/21/2023	14	468	668	668
9/21/2023	15	464	668	668
9/21/2023	16	456	650	650
9/21/2023	17	436	650	650
9/21/2023	18	433	650	650
9/21/2023	19	439	650	650
9/21/2023	20	435	650	650
9/21/2023	21	428	650	650
9/21/2023	22	415	650	650
9/21/2023	23	396	650	650
9/21/2023	24	367	650	650
9/22/2023	1	378	668	668
9/22/2023	2	365	668	668
9/22/2023	3	354	647	647
9/22/2023	4	347	647	647
9/22/2023	5	353	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/22/2023	6	353	647	647
9/22/2023	7	355	647	647
9/22/2023	8	396	668	668
9/22/2023	9	430	668	668
9/22/2023	10	454	668	668
9/22/2023	11	465	668	668
9/22/2023	12	458	668	668
9/22/2023	13	463	668	668
9/22/2023	14	478	668	668
9/22/2023	15	472	668	668
9/22/2023	16	462	668	668
9/22/2023	17	439	668	668
9/22/2023	18	439	668	668
9/22/2023	19	440	668	668
9/22/2023	20	437	668	668
9/22/2023	21	431	668	668
9/22/2023	22	420	668	668
9/22/2023	23	406	668	668
9/22/2023	24	374	668	668
9/23/2023	1	355	668	668
9/23/2023	2	343	668	668
9/23/2023	3	334	647	647
9/23/2023	4	325	647	647
9/23/2023	5	322	647	647
9/23/2023	6	317	647	647
9/23/2023	7	321	647	647
9/23/2023	8	348	647	647
9/23/2023	9	374	668	668
9/23/2023	10	397	668	668
9/23/2023	11	410	668	668
9/23/2023	12	407	668	668
9/23/2023	13	412	668	668
9/23/2023	14	428	668	668
9/23/2023	15	424	668	668
9/23/2023	16	412	668	668
9/23/2023	17	393	668	668
9/23/2023	18	393	668	668
9/23/2023	19	405	668	668
9/23/2023	20	402	668	668
9/23/2023	21	403	668	668
9/23/2023	22	396	668	668
9/23/2023	23	384	668	668
9/23/2023	24	381	668	668
9/24/2023	1	358	668	668
9/24/2023	2	347	600	600
9/24/2023	3	337	550	550
9/24/2023	4	328	550	550
9/24/2023	5	324	550	550
9/24/2023	6	316	500	500
9/24/2023	7	318	500	500
9/24/2023	8	336	550	550
9/24/2023	9	358	600	600
9/24/2023	10	381	668	668
9/24/2023	11	394	668	668
9/24/2023	12	391	668	668
9/24/2023	13	391	668	668
9/24/2023	14	393	668	668
9/24/2023	15	388	668	668
9/24/2023	16	381	668	668
9/24/2023	17	378	668	668
9/24/2023	18	395	668	668
9/24/2023	19	411	668	668
9/24/2023	20	412	668	668
9/24/2023	21	411	668	668
9/24/2023	22	393	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/24/2023	23	374	668	668
9/24/2023	24	354	668	668
9/25/2023	1	374	668	646
9/25/2023	2	358	647	600
9/25/2023	3	342	600	550
9/25/2023	4	336	600	550
9/25/2023	5	341	600	550
9/25/2023	6	340	600	550
9/25/2023	7	343	600	550
9/25/2023	8	379	630	600
9/25/2023	9	410	668	647
9/25/2023	10	422	668	647
9/25/2023	11	435	668	647
9/25/2023	12	438	668	647
9/25/2023	13	460	668	647
9/25/2023	14	474	668	647
9/25/2023	15	466	668	647
9/25/2023	16	458	668	647
9/25/2023	17	450	668	647
9/25/2023	18	430	668	647
9/25/2023	19	426	668	647
9/25/2023	20	430	668	647
9/25/2023	21	428	668	647
9/25/2023	22	422	668	647
9/25/2023	23	406	668	647
9/25/2023	24	386	668	647
9/26/2023	1	359	639	586
9/26/2023	2	348	595	568
9/26/2023	3	338	570	442
9/26/2023	4	333	570	400
9/26/2023	5	338	570	452
9/26/2023	6	338	570	407
9/26/2023	7	340	570	400
9/26/2023	8	376	640	452
9/26/2023	9	407	662	565
9/26/2023	10	431	668	647
9/26/2023	11	442	668	625
9/26/2023	12	434	668	548
9/26/2023	13	434	668	589
9/26/2023	14	442	668	647
9/26/2023	15	432	668	647
9/26/2023	16	423	668	647
9/26/2023	17	408	668	607
9/26/2023	18	408	668	602
9/26/2023	19	415	648	647
9/26/2023	20	412	668	647
9/26/2023	21	406	668	647
9/26/2023	22	394	668	647
9/26/2023	23	379	668	647
9/26/2023	24	367	668	647
9/27/2023	1	352	668	647
9/27/2023	2	337	668	600
9/27/2023	3	336	668	550
9/27/2023	4	334	600	500
9/27/2023	5	330	550	500
9/27/2023	6	331	500	500
9/27/2023	7	340	550	450
9/27/2023	8	366	600	500
9/27/2023	9	404	668	565
9/27/2023	10	428	668	600
9/27/2023	11	443	668	647
9/27/2023	12	437	668	647
9/27/2023	13	445	668	647
9/27/2023	14	463	668	647
9/27/2023	15	460	668	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/27/2023	16	450	668	647
9/27/2023	17	430	668	647
9/27/2023	18	424	668	647
9/27/2023	19	426	668	647
9/27/2023	20	425	668	647
9/27/2023	21	422	668	647
9/27/2023	22	409	668	647
9/27/2023	23	394	668	647
9/27/2023	24	360	668	647
9/28/2023	1	346	661	518
9/28/2023	2	336	629	460
9/28/2023	3	341	590	420
9/28/2023	4	338	590	420
9/28/2023	5	335	590	420
9/28/2023	6	331	590	420
9/28/2023	7	338	564	410
9/28/2023	8	370	630	480
9/28/2023	9	408	661	518
9/28/2023	10	433	661	647
9/28/2023	11	444	661	647
9/28/2023	12	438	661	647
9/28/2023	13	446	661	647
9/28/2023	14	464	661	647
9/28/2023	15	462	661	647
9/28/2023	16	460	661	647
9/28/2023	17	440	661	647
9/28/2023	18	432	661	647
9/28/2023	19	435	661	647
9/28/2023	20	424	661	647
9/28/2023	21	414	661	647
9/28/2023	22	389	661	630
9/28/2023	23	367	661	630
9/28/2023	24	368	661	630
9/29/2023	1	353	647	400
9/29/2023	2	343	647	355
9/29/2023	3	337	647	344
9/29/2023	4	333	647	320
9/29/2023	5	335	647	361
9/29/2023	6	333	647	300
9/29/2023	7	336	647	300
9/29/2023	8	376	647	400
9/29/2023	9	407	647	400
9/29/2023	10	429	647	400
9/29/2023	11	438	647	388
9/29/2023	12	430	647	350
9/29/2023	13	432	647	385
9/29/2023	14	445	647	400
9/29/2023	15	440	647	460
9/29/2023	16	431	647	460
9/29/2023	17	412	647	460
9/29/2023	18	412	647	460
9/29/2023	19	412	647	460
9/29/2023	20	413	647	460
9/29/2023	21	407	647	460
9/29/2023	22	396	647	460
9/29/2023	23	382	647	460
9/29/2023	24	367	647	460
9/30/2023	1	350	647	460
9/30/2023	2	338	647	460
9/30/2023	3	336	600	460
9/30/2023	4	334	600	460
9/30/2023	5	316	550	460
9/30/2023	6	311	550	400
9/30/2023	7	315	550	400
9/30/2023	8	342	550	400

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
9/30/2023	9	368	550	400
9/30/2023	10	393	600	400
9/30/2023	11	405	600	460
9/30/2023	12	403	600	460
9/30/2023	13	409	600	460
9/30/2023	14	424	600	460
9/30/2023	15	421	600	460
9/30/2023	16	409	600	460
9/30/2023	17	392	600	460
9/30/2023	18	392	600	460
9/30/2023	19	404	600	460
9/30/2023	20	402	600	460
9/30/2023	21	403	647	460
9/30/2023	22	395	647	460
9/30/2023	23	383	647	460
9/30/2023	24	371	647	460
10/1/2023	1	354	647	433
10/1/2023	2	347	616	433
10/1/2023	3	337	614	390
10/1/2023	4	332	500	390
10/1/2023	5	334	460	390
10/1/2023	6	334	460	423
10/1/2023	7	341	460	390
10/1/2023	8	341	550	433
10/1/2023	9	351	603	433
10/1/2023	10	371	647	403
10/1/2023	11	380	647	433
10/1/2023	12	383	647	390
10/1/2023	13	386	647	433
10/1/2023	14	393	647	390
10/1/2023	15	390	647	450
10/1/2023	16	386	647	390
10/1/2023	17	384	647	390
10/1/2023	18	405	647	455
10/1/2023	19	415	647	455
10/1/2023	20	417	647	455
10/1/2023	21	417	647	455
10/1/2023	22	407	647	455
10/1/2023	23	391	647	455
10/1/2023	24	377	647	455
10/2/2023	1	352	460	420
10/2/2023	2	340	460	420
10/2/2023	3	336	460	420
10/2/2023	4	330	460	370
10/2/2023	5	336	460	420
10/2/2023	6	341	460	375
10/2/2023	7	348	460	370
10/2/2023	8	391	460	420
10/2/2023	9	427	460	420
10/2/2023	10	448	500	450
10/2/2023	11	455	647	556
10/2/2023	12	445	647	550
10/2/2023	13	440	647	647
10/2/2023	14	469	647	647
10/2/2023	15	466	647	647
10/2/2023	16	455	647	647
10/2/2023	17	443	647	647
10/2/2023	18	446	647	647
10/2/2023	19	448	647	647
10/2/2023	20	445	647	647
10/2/2023	21	440	647	647
10/2/2023	22	424	647	647
10/2/2023	23	405	647	647
10/2/2023	24	390	647	647
10/3/2023	1	346	647	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/3/2023	2	336	630	630
10/3/2023	3	336	600	600
10/3/2023	4	330	586	586
10/3/2023	5	329	600	600
10/3/2023	6	331	600	600
10/3/2023	7	336	600	600
10/3/2023	8	370	630	630
10/3/2023	9	426	630	630
10/3/2023	10	433	630	630
10/3/2023	11	444	647	647
10/3/2023	12	438	647	647
10/3/2023	13	446	647	647
10/3/2023	14	464	647	647
10/3/2023	15	462	647	647
10/3/2023	16	460	647	647
10/3/2023	17	446	647	647
10/3/2023	18	446	647	647
10/3/2023	19	435	647	647
10/3/2023	20	446	630	630
10/3/2023	21	414	630	630
10/3/2023	22	389	630	630
10/3/2023	23	367	630	630
10/3/2023	24	368	630	630
10/4/2023	1	346	647	550
10/4/2023	2	336	647	550
10/4/2023	3	336	647	550
10/4/2023	4	330	647	550
10/4/2023	5	329	647	550
10/4/2023	6	331	647	550
10/4/2023	7	336	647	550
10/4/2023	8	370	647	550
10/4/2023	9	426	647	550
10/4/2023	10	433	647	550
10/4/2023	11	444	647	550
10/4/2023	12	438	647	550
10/4/2023	13	446	647	550
10/4/2023	14	464	647	550
10/4/2023	15	462	647	550
10/4/2023	16	460	647	550
10/4/2023	17	440	647	550
10/4/2023	18	432	647	550
10/4/2023	19	435	647	550
10/4/2023	20	426	647	550
10/4/2023	21	414	647	550
10/4/2023	22	389	647	550
10/4/2023	23	367	647	550
10/4/2023	24	368	647	550
10/5/2023	1	354	550	534
10/5/2023	2	342	560	550
10/5/2023	3	336	560	550
10/5/2023	4	330	560	550
10/5/2023	5	337	560	550
10/5/2023	6	340	560	550
10/5/2023	7	344	560	550
10/5/2023	8	380	600	550
10/5/2023	9	426	647	550
10/5/2023	10	441	647	550
10/5/2023	11	458	647	550
10/5/2023	12	455	647	550
10/5/2023	13	460	647	550
10/5/2023	14	474	647	550
10/5/2023	15	460	647	550
10/5/2023	16	446	647	550
10/5/2023	17	431	647	550
10/5/2023	18	428	647	550

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/5/2023	19	426	647	550
10/5/2023	20	426	647	550
10/5/2023	21	411	647	550
10/5/2023	22	398	647	550
10/5/2023	23	381	647	550
10/5/2023	24	385	647	550
10/6/2023	1	368	647	460
10/6/2023	2	355	647	460
10/6/2023	3	343	647	446
10/6/2023	4	336	647	421
10/6/2023	5	340	647	460
10/6/2023	6	341	647	451
10/6/2023	7	342	647	400
10/6/2023	8	382	647	460
10/6/2023	9	426	647	449
10/6/2023	10	437	647	460
10/6/2023	11	449	647	460
10/6/2023	12	444	647	460
10/6/2023	13	452	647	460
10/6/2023	14	467	647	460
10/6/2023	15	460	647	460
10/6/2023	16	448	647	460
10/6/2023	17	425	647	460
10/6/2023	18	427	647	460
10/6/2023	19	428	647	460
10/6/2023	20	422	647	460
10/6/2023	21	416	647	460
10/6/2023	22	405	647	460
10/6/2023	23	393	647	460
10/6/2023	24	368	647	460
10/7/2023	1	353	647	460
10/7/2023	2	342	647	420
10/7/2023	3	337	647	460
10/7/2023	4	330	647	420
10/7/2023	5	330	647	412
10/7/2023	6	329	647	400
10/7/2023	7	336	647	400
10/7/2023	8	348	647	400
10/7/2023	9	374	647	400
10/7/2023	10	403	647	460
10/7/2023	11	409	647	460
10/7/2023	12	407	647	449
10/7/2023	13	411	647	460
10/7/2023	14	427	647	460
10/7/2023	15	423	647	460
10/7/2023	16	411	647	460
10/7/2023	17	393	647	460
10/7/2023	18	393	647	420
10/7/2023	19	404	647	460
10/7/2023	20	402	647	460
10/7/2023	21	402	647	460
10/7/2023	22	395	647	460
10/7/2023	23	383	647	460
10/7/2023	24	367	647	460
10/8/2023	1	353	647	460
10/8/2023	2	340	600	460
10/8/2023	3	336	550	460
10/8/2023	4	330	550	455
10/8/2023	5	329	550	455
10/8/2023	6	329	550	455
10/8/2023	7	336	550	455
10/8/2023	8	336	600	455
10/8/2023	9	336	647	455
10/8/2023	10	347	647	455
10/8/2023	11	359	647	455

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/8/2023	12	359	647	455
10/8/2023	13	363	647	455
10/8/2023	14	367	647	455
10/8/2023	15	366	647	455
10/8/2023	16	362	647	455
10/8/2023	17	356	647	455
10/8/2023	18	374	647	460
10/8/2023	19	383	647	460
10/8/2023	20	386	647	460
10/8/2023	21	390	647	460
10/8/2023	22	382	647	460
10/8/2023	23	367	647	455
10/8/2023	24	351	647	455
10/9/2023	1	345	600	460
10/9/2023	2	342	550	460
10/9/2023	3	337	500	460
10/9/2023	4	330	500	460
10/9/2023	5	329	500	460
10/9/2023	6	333	500	460
10/9/2023	7	336	550	455
10/9/2023	8	365	600	455
10/9/2023	9	426	647	460
10/9/2023	10	431	647	550
10/9/2023	11	434	647	647
10/9/2023	12	453	647	647
10/9/2023	13	457	647	647
10/9/2023	14	465	647	647
10/9/2023	15	459	647	647
10/9/2023	16	451	647	647
10/9/2023	17	435	647	647
10/9/2023	18	440	647	647
10/9/2023	19	440	647	647
10/9/2023	20	441	647	647
10/9/2023	21	434	647	647
10/9/2023	22	420	647	647
10/9/2023	23	401	647	647
10/9/2023	24	385	647	647
10/10/2023	1	358	647	550
10/10/2023	2	352	647	550
10/10/2023	3	338	618	521
10/10/2023	4	332	548	460
10/10/2023	5	340	647	550
10/10/2023	6	339	558	461
10/10/2023	7	339	555	460
10/10/2023	8	377	598	500
10/10/2023	9	426	647	550
10/10/2023	10	438	647	550
10/10/2023	11	452	647	550
10/10/2023	12	448	647	550
10/10/2023	13	457	647	550
10/10/2023	14	469	647	550
10/10/2023	15	462	647	550
10/10/2023	16	453	647	550
10/10/2023	17	431	647	550
10/10/2023	18	428	647	550
10/10/2023	19	437	647	550
10/10/2023	20	434	647	550
10/10/2023	21	426	647	550
10/10/2023	22	414	647	550
10/10/2023	23	396	647	550
10/10/2023	24	370	647	550
10/11/2023	1	359	647	580
10/11/2023	2	352	647	580
10/11/2023	3	338	647	580
10/11/2023	4	333	647	580

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/11/2023	5	341	647	580
10/11/2023	6	339	647	580
10/11/2023	7	339	647	580
10/11/2023	8	377	647	580
10/11/2023	9	426	647	580
10/11/2023	10	438	647	580
10/11/2023	11	452	647	580
10/11/2023	12	448	647	580
10/11/2023	13	457	647	580
10/11/2023	14	469	647	580
10/11/2023	15	462	647	580
10/11/2023	16	453	647	580
10/11/2023	17	431	647	580
10/11/2023	18	428	647	580
10/11/2023	19	437	647	580
10/11/2023	20	434	647	580
10/11/2023	21	427	647	580
10/11/2023	22	414	647	580
10/11/2023	23	397	647	580
10/11/2023	24	366	647	580
10/12/2023	1	347	600	500
10/12/2023	2	337	550	455
10/12/2023	3	336	550	455
10/12/2023	4	330	500	455
10/12/2023	5	331	500	455
10/12/2023	6	334	500	455
10/12/2023	7	337	500	455
10/12/2023	8	373	600	500
10/12/2023	9	426	647	590
10/12/2023	10	431	647	590
10/12/2023	11	434	647	590
10/12/2023	12	428	647	590
10/12/2023	13	442	647	590
10/12/2023	14	434	647	590
10/12/2023	15	449	647	590
10/12/2023	16	450	647	590
10/12/2023	17	429	647	590
10/12/2023	18	429	647	590
10/12/2023	19	428	647	590
10/12/2023	20	428	647	590
10/12/2023	21	413	647	590
10/12/2023	22	402	647	590
10/12/2023	23	386	647	590
10/12/2023	24	383	647	590
10/13/2023	1	369	647	590
10/13/2023	2	354	647	590
10/13/2023	3	347	647	590
10/13/2023	4	339	647	590
10/13/2023	5	342	647	590
10/13/2023	6	342	647	590
10/13/2023	7	347	647	590
10/13/2023	8	381	647	590
10/13/2023	9	407	647	590
10/13/2023	10	430	647	590
10/13/2023	11	442	647	590
10/13/2023	12	432	647	590
10/13/2023	13	430	647	590
10/13/2023	14	436	647	590
10/13/2023	15	428	647	590
10/13/2023	16	420	647	590
10/13/2023	17	409	647	590
10/13/2023	18	409	647	590
10/13/2023	19	415	647	590
10/13/2023	20	412	647	590
10/13/2023	21	406	647	590

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/13/2023	22	394	647	590
10/13/2023	23	379	647	590
10/13/2023	24	373	647	590
10/14/2023	1	360	668	647
10/14/2023	2	348	668	600
10/14/2023	3	338	600	600
10/14/2023	4	330	600	600
10/14/2023	5	329	550	600
10/14/2023	6	329	500	600
10/14/2023	7	336	550	600
10/14/2023	8	350	600	600
10/14/2023	9	377	668	600
10/14/2023	10	400	668	600
10/14/2023	11	413	668	600
10/14/2023	12	412	668	600
10/14/2023	13	417	668	647
10/14/2023	14	430	668	647
10/14/2023	15	429	668	647
10/14/2023	16	419	668	647
10/14/2023	17	403	668	647
10/14/2023	18	410	668	647
10/14/2023	19	416	668	647
10/14/2023	20	417	668	647
10/14/2023	21	416	668	647
10/14/2023	22	407	668	647
10/14/2023	23	393	668	647
10/14/2023	24	379	668	647
10/15/2023	1	362	668	647
10/15/2023	2	347	668	550
10/15/2023	3	336	668	500
10/15/2023	4	335	668	500
10/15/2023	5	332	668	500
10/15/2023	6	332	668	500
10/15/2023	7	340	668	500
10/15/2023	8	340	668	550
10/15/2023	9	351	668	647
10/15/2023	10	373	668	647
10/15/2023	11	386	668	647
10/15/2023	12	385	668	647
10/15/2023	13	393	668	647
10/15/2023	14	401	668	647
10/15/2023	15	400	668	647
10/15/2023	16	395	668	647
10/15/2023	17	393	668	647
10/15/2023	18	403	668	647
10/15/2023	19	408	668	647
10/15/2023	20	412	668	647
10/15/2023	21	411	668	647
10/15/2023	22	402	668	647
10/15/2023	23	388	668	647
10/15/2023	24	373	668	647
10/16/2023	1	377	668	647
10/16/2023	2	368	668	647
10/16/2023	3	362	668	647
10/16/2023	4	359	668	600
10/16/2023	5	364	668	562
10/16/2023	6	365	668	562
10/16/2023	7	368	668	600
10/16/2023	8	399	668	647
10/16/2023	9	426	668	647
10/16/2023	10	445	668	647
10/16/2023	11	454	668	647
10/16/2023	12	445	668	647
10/16/2023	13	446	668	647
10/16/2023	14	461	668	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/16/2023	15	451	668	647
10/16/2023	16	441	668	647
10/16/2023	17	426	668	647
10/16/2023	18	432	668	647
10/16/2023	19	430	668	647
10/16/2023	20	430	668	647
10/16/2023	21	427	668	647
10/16/2023	22	415	668	647
10/16/2023	23	402	668	647
10/16/2023	24	388	668	647
10/17/2023	1	342	668	647
10/17/2023	2	336	600	600
10/17/2023	3	336	550	550
10/17/2023	4	330	550	550
10/17/2023	5	329	550	550
10/17/2023	6	333	550	550
10/17/2023	7	336	550	500
10/17/2023	8	363	600	600
10/17/2023	9	393	668	647
10/17/2023	10	426	668	647
10/17/2023	11	427	668	647
10/17/2023	12	429	668	647
10/17/2023	13	427	668	647
10/17/2023	14	439	668	647
10/17/2023	15	436	668	647
10/17/2023	16	429	668	647
10/17/2023	17	428	668	647
10/17/2023	18	428	668	647
10/17/2023	19	428	668	647
10/17/2023	20	427	668	647
10/17/2023	21	426	668	647
10/17/2023	22	391	668	647
10/17/2023	23	378	668	647
10/17/2023	24	375	668	647
10/18/2023	1	366	668	647
10/18/2023	2	354	668	647
10/18/2023	3	346	600	600
10/18/2023	4	338	600	600
10/18/2023	5	343	600	600
10/18/2023	6	346	600	600
10/18/2023	7	345	600	600
10/18/2023	8	384	600	600
10/18/2023	9	429	668	647
10/18/2023	10	438	668	647
10/18/2023	11	451	668	647
10/18/2023	12	444	668	647
10/18/2023	13	449	668	647
10/18/2023	14	462	668	647
10/18/2023	15	458	668	647
10/18/2023	16	449	668	647
10/18/2023	17	426	668	647
10/18/2023	18	426	668	647
10/18/2023	19	431	668	647
10/18/2023	20	429	668	647
10/18/2023	21	426	668	647
10/18/2023	22	409	668	647
10/18/2023	23	391	668	647
10/18/2023	24	381	668	647
10/19/2023	1	349	668	600
10/19/2023	2	341	668	600
10/19/2023	3	337	600	600
10/19/2023	4	332	550	600
10/19/2023	5	329	600	600
10/19/2023	6	332	600	600
10/19/2023	7	337	600	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/19/2023	8	369	600	600
10/19/2023	9	403	668	600
10/19/2023	10	427	668	600
10/19/2023	11	442	668	647
10/19/2023	12	436	668	647
10/19/2023	13	445	668	647
10/19/2023	14	455	668	647
10/19/2023	15	447	668	647
10/19/2023	16	445	668	647
10/19/2023	17	426	668	647
10/19/2023	18	432	668	647
10/19/2023	19	428	668	647
10/19/2023	20	427	668	647
10/19/2023	21	426	668	647
10/19/2023	22	408	668	647
10/19/2023	23	393	668	647
10/19/2023	24	365	668	600
10/20/2023	1	348	668	600
10/20/2023	2	337	668	600
10/20/2023	3	336	600	600
10/20/2023	4	331	550	600
10/20/2023	5	330	600	600
10/20/2023	6	333	600	600
10/20/2023	7	336	600	600
10/20/2023	8	371	600	600
10/20/2023	9	401	668	600
10/20/2023	10	427	668	600
10/20/2023	11	434	668	647
10/20/2023	12	432	668	647
10/20/2023	13	438	668	647
10/20/2023	14	447	668	647
10/20/2023	15	443	668	647
10/20/2023	16	436	668	647
10/20/2023	17	426	668	647
10/20/2023	18	430	668	647
10/20/2023	19	426	668	647
10/20/2023	20	426	668	647
10/20/2023	21	410	668	647
10/20/2023	22	401	668	647
10/20/2023	23	386	668	647
10/20/2023	24	388	668	600
10/21/2023	1	367	668	647
10/21/2023	2	355	668	647
10/21/2023	3	344	600	647
10/21/2023	4	336	600	647
10/21/2023	5	332	600	647
10/21/2023	6	329	600	647
10/21/2023	7	337	600	647
10/21/2023	8	355	600	647
10/21/2023	9	378	668	647
10/21/2023	10	407	668	647
10/21/2023	11	418	668	647
10/21/2023	12	412	668	647
10/21/2023	13	415	668	647
10/21/2023	14	421	668	647
10/21/2023	15	419	668	647
10/21/2023	16	413	668	647
10/21/2023	17	397	668	647
10/21/2023	18	410	668	647
10/21/2023	19	408	668	647
10/21/2023	20	407	668	647
10/21/2023	21	403	668	647
10/21/2023	22	394	668	647
10/21/2023	23	380	668	647
10/21/2023	24	375	668	647

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/22/2023	1	344	668	600
10/22/2023	2	338	668	600
10/22/2023	3	322	600	600
10/22/2023	4	314	550	600
10/22/2023	5	308	600	600
10/22/2023	6	300	600	600
10/22/2023	7	298	600	600
10/22/2023	8	315	600	600
10/22/2023	9	336	668	600
10/22/2023	10	359	668	600
10/22/2023	11	371	668	600
10/22/2023	12	370	668	600
10/22/2023	13	372	668	600
10/22/2023	14	374	668	600
10/22/2023	15	369	668	600
10/22/2023	16	361	668	600
10/22/2023	17	356	668	600
10/22/2023	18	379	668	600
10/22/2023	19	387	668	600
10/22/2023	20	389	668	600
10/22/2023	21	386	668	600
10/22/2023	22	373	668	600
10/22/2023	23	355	668	600
10/22/2023	24	345	668	600
10/23/2023	1	348	668	647
10/23/2023	2	336	550	500
10/23/2023	3	336	550	493
10/23/2023	4	330	550	493
10/23/2023	5	329	550	493
10/23/2023	6	334	550	498
10/23/2023	7	341	550	498
10/23/2023	8	376	600	600
10/23/2023	9	406	668	647
10/23/2023	10	424	668	647
10/23/2023	11	433	668	647
10/23/2023	12	428	668	647
10/23/2023	13	433	668	647
10/23/2023	14	448	668	647
10/23/2023	15	451	668	647
10/23/2023	16	448	668	647
10/23/2023	17	427	668	647
10/23/2023	18	435	668	647
10/23/2023	19	426	668	647
10/23/2023	20	421	668	647
10/23/2023	21	426	668	647
10/23/2023	22	403	668	647
10/23/2023	23	386	668	647
10/23/2023	24	369	668	647
10/24/2023	1	359	668	640
10/24/2023	2	348	668	640
10/24/2023	3	338	600	600
10/24/2023	4	333	550	550
10/24/2023	5	340	500	500
10/24/2023	6	343	550	550
10/24/2023	7	343	550	550
10/24/2023	8	375	600	600
10/24/2023	9	405	668	640
10/24/2023	10	430	668	640
10/24/2023	11	443	668	640
10/24/2023	12	436	668	640
10/24/2023	13	441	668	640
10/24/2023	14	456	668	640
10/24/2023	15	452	668	640
10/24/2023	16	446	668	640
10/24/2023	17	426	668	640

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/24/2023	18	432	668	640
10/24/2023	19	421	668	640
10/24/2023	20	428	668	640
10/24/2023	21	426	668	640
10/24/2023	22	409	668	640
10/24/2023	23	395	668	640
10/24/2023	24	373	668	640
10/25/2023	1	354	668	668
10/25/2023	2	341	668	668
10/25/2023	3	336	600	600
10/25/2023	4	331	550	550
10/25/2023	5	334	500	500
10/25/2023	6	337	550	550
10/25/2023	7	338	550	550
10/25/2023	8	373	600	600
10/25/2023	9	405	668	668
10/25/2023	10	415	668	668
10/25/2023	11	425	668	668
10/25/2023	12	419	668	668
10/25/2023	13	423	668	668
10/25/2023	14	434	668	668
10/25/2023	15	433	668	668
10/25/2023	16	424	668	668
10/25/2023	17	408	668	668
10/25/2023	18	412	668	668
10/25/2023	19	408	668	668
10/25/2023	20	405	668	668
10/25/2023	21	398	668	668
10/25/2023	22	381	668	668
10/25/2023	23	364	668	668
10/25/2023	24	357	668	668
10/26/2023	1	359	668	668
10/26/2023	2	343	668	668
10/26/2023	3	336	600	600
10/26/2023	4	334	550	550
10/26/2023	5	342	500	500
10/26/2023	6	344	550	550
10/26/2023	7	346	550	550
10/26/2023	8	379	600	600
10/26/2023	9	401	668	668
10/26/2023	10	422	668	668
10/26/2023	11	431	668	668
10/26/2023	12	418	668	668
10/26/2023	13	419	668	668
10/26/2023	14	437	668	668
10/26/2023	15	433	668	668
10/26/2023	16	424	668	668
10/26/2023	17	411	668	668
10/26/2023	18	416	668	668
10/26/2023	19	406	668	668
10/26/2023	20	411	668	668
10/26/2023	21	404	668	668
10/26/2023	22	389	668	668
10/26/2023	23	375	668	668
10/26/2023	24	347	668	668
10/27/2023	1	358	668	668
10/27/2023	2	347	668	668
10/27/2023	3	336	600	600
10/27/2023	4	334	550	550
10/27/2023	5	342	500	500
10/27/2023	6	345	550	550
10/27/2023	7	346	550	550
10/27/2023	8	382	600	600
10/27/2023	9	412	668	668
10/27/2023	10	424	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/27/2023	11	434	668	668
10/27/2023	12	432	668	668
10/27/2023	13	439	668	668
10/27/2023	14	449	668	668
10/27/2023	15	444	668	668
10/27/2023	16	438	668	668
10/27/2023	17	418	668	668
10/27/2023	18	425	668	668
10/27/2023	19	412	668	668
10/27/2023	20	417	668	668
10/27/2023	21	410	668	668
10/27/2023	22	401	668	668
10/27/2023	23	386	668	668
10/27/2023	24	355	668	668
10/28/2023	1	348	500	500
10/28/2023	2	336	500	500
10/28/2023	3	325	500	500
10/28/2023	4	318	500	500
10/28/2023	5	316	500	500
10/28/2023	6	316	500	500
10/28/2023	7	318	500	500
10/28/2023	8	337	500	500
10/28/2023	9	356	550	550
10/28/2023	10	376	600	600
10/28/2023	11	386	668	668
10/28/2023	12	375	668	668
10/28/2023	13	370	668	668
10/28/2023	14	375	668	668
10/28/2023	15	370	668	668
10/28/2023	16	364	668	668
10/28/2023	17	360	668	668
10/28/2023	18	377	668	668
10/28/2023	19	373	668	668
10/28/2023	20	371	668	668
10/28/2023	21	366	668	668
10/28/2023	22	351	668	668
10/28/2023	23	338	668	668
10/28/2023	24	336	668	668
10/29/2023	1	320	500	500
10/29/2023	2	302	595	594
10/29/2023	3	286	455	453
10/29/2023	4	278	455	353
10/29/2023	5	271	350	334
10/29/2023	6	267	350	334
10/29/2023	7	262	350	334
10/29/2023	8	290	455	350
10/29/2023	9	336	455	450
10/29/2023	10	339	550	500
10/29/2023	11	348	668	647
10/29/2023	12	346	668	647
10/29/2023	13	349	668	647
10/29/2023	14	351	668	647
10/29/2023	15	345	668	647
10/29/2023	16	342	668	647
10/29/2023	17	345	668	647
10/29/2023	18	366	668	647
10/29/2023	19	364	668	647
10/29/2023	20	367	668	647
10/29/2023	21	363	668	647
10/29/2023	22	349	668	647
10/29/2023	23	336	668	647
10/29/2023	24	336	668	647
10/30/2023	1	315	668	668
10/30/2023	2	309	668	668
10/30/2023	3	305	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
10/30/2023	4	296	668	668
10/30/2023	5	287	562	562
10/30/2023	6	276	500	350
10/30/2023	7	282	500	350
10/30/2023	8	294	500	350
10/30/2023	9	313	414	350
10/30/2023	10	322	385	350
10/30/2023	11	329	412	400
10/30/2023	12	331	422	422
10/30/2023	13	333	474	473
10/30/2023	14	331	479	475
10/30/2023	15	330	524	522
10/30/2023	16	324	597	594
10/30/2023	17	317	577	570
10/30/2023	18	322	660	660
10/30/2023	19	349	668	668
10/30/2023	20	351	668	668
10/30/2023	21	355	668	668
10/30/2023	22	353	668	668
10/30/2023	23	347	668	668
10/30/2023	24	336	668	668
10/31/2023	1	290	473	470
10/31/2023	2	280	455	409
10/31/2023	3	273	455	409
10/31/2023	4	271	455	409
10/31/2023	5	277	455	409
10/31/2023	6	280	455	409
10/31/2023	7	283	455	409
10/31/2023	8	312	455	437
10/31/2023	9	340	455	438
10/31/2023	10	362	455	438
10/31/2023	11	370	493	489
10/31/2023	12	362	493	490
10/31/2023	13	363	493	490
10/31/2023	14	371	553	551
10/31/2023	15	366	553	549
10/31/2023	16	360	623	621
10/31/2023	17	346	628	622
10/31/2023	18	353	628	624
10/31/2023	19	345	629	628
10/31/2023	20	343	629	628
10/31/2023	21	339	659	658
10/31/2023	22	328	668	658
10/31/2023	23	315	657	633
10/31/2023	24	301	568	543
11/1/2023	1	310	530	530
11/1/2023	2	297	530	530
11/1/2023	3	288	530	528
11/1/2023	4	280	550	455
11/1/2023	5	278	550	455
11/1/2023	6	273	550	455
11/1/2023	7	267	530	400
11/1/2023	8	272	500	400
11/1/2023	9	283	455	374
11/1/2023	10	301	430	358
11/1/2023	11	312	455	340
11/1/2023	12	317	455	340
11/1/2023	13	325	550	455
11/1/2023	14	330	550	455
11/1/2023	15	334	550	455
11/1/2023	16	329	550	483
11/1/2023	17	322	550	483
11/1/2023	18	345	550	550
11/1/2023	19	342	550	550
11/1/2023	20	342	600	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/1/2023	21	342	600	600
11/1/2023	22	338	550	550
11/1/2023	23	324	550	550
11/1/2023	24	315	550	550
11/2/2023	1	259	450	450
11/2/2023	2	252	450	400
11/2/2023	3	246	500	400
11/2/2023	4	242	500	400
11/2/2023	5	246	500	400
11/2/2023	6	255	500	450
11/2/2023	7	268	500	500
11/2/2023	8	305	550	550
11/2/2023	9	340	600	600
11/2/2023	10	364	600	600
11/2/2023	11	377	600	600
11/2/2023	12	374	600	600
11/2/2023	13	376	600	600
11/2/2023	14	390	600	600
11/2/2023	15	387	600	600
11/2/2023	16	383	600	600
11/2/2023	17	366	600	600
11/2/2023	18	380	600	600
11/2/2023	19	370	600	600
11/2/2023	20	365	600	600
11/2/2023	21	359	600	600
11/2/2023	22	346	600	600
11/2/2023	23	330	600	600
11/2/2023	24	317	600	600
11/3/2023	1	280	500	427
11/3/2023	2	268	500	409
11/3/2023	3	258	500	409
11/3/2023	4	253	500	409
11/3/2023	5	257	500	409
11/3/2023	6	260	500	409
11/3/2023	7	262	500	420
11/3/2023	8	293	500	500
11/3/2023	9	320	550	550
11/3/2023	10	344	600	600
11/3/2023	11	355	668	668
11/3/2023	12	351	668	668
11/3/2023	13	356	668	668
11/3/2023	14	367	668	668
11/3/2023	15	363	668	668
11/3/2023	16	359	668	668
11/3/2023	17	350	668	668
11/3/2023	18	363	668	668
11/3/2023	19	353	668	668
11/3/2023	20	347	668	668
11/3/2023	21	339	668	668
11/3/2023	22	325	668	668
11/3/2023	23	309	643	638
11/3/2023	24	294	600	600
11/4/2023	1	334	668	668
11/4/2023	2	322	668	668
11/4/2023	3	311	668	668
11/4/2023	4	305	668	668
11/4/2023	5	302	668	668
11/4/2023	6	301	600	600
11/4/2023	7	304	550	550
11/4/2023	8	326	550	550
11/4/2023	9	348	600	600
11/4/2023	10	372	668	668
11/4/2023	11	382	668	668
11/4/2023	12	376	668	668
11/4/2023	13	378	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/4/2023	14	386	668	668
11/4/2023	15	384	668	668
11/4/2023	16	375	668	668
11/4/2023	17	363	668	668
11/4/2023	18	376	668	668
11/4/2023	19	374	668	668
11/4/2023	20	372	668	668
11/4/2023	21	369	668	668
11/4/2023	22	358	668	668
11/4/2023	23	346	668	668
11/4/2023	24	327	668	668
11/5/2023	1	336	559	558
11/5/2023	2	306	559	558
11/5/2023	3	290	559	558
11/5/2023	4	282	559	558
11/5/2023	5	275	559	558
11/5/2023	6	271	559	558
11/5/2023	7	266	550	513
11/5/2023	8	294	600	550
11/5/2023	9	340	668	668
11/5/2023	10	343	668	668
11/5/2023	11	352	668	668
11/5/2023	12	350	668	668
11/5/2023	13	353	668	668
11/5/2023	14	355	668	668
11/5/2023	15	349	668	668
11/5/2023	16	346	668	668
11/5/2023	17	349	668	668
11/5/2023	18	370	668	668
11/5/2023	19	368	668	668
11/5/2023	20	371	668	668
11/5/2023	21	367	668	668
11/5/2023	22	353	668	668
11/5/2023	23	340	668	668
11/5/2023	24	336	668	668
11/6/2023	1	317	500	500
11/6/2023	2	306	500	450
11/6/2023	3	300	500	440
11/6/2023	4	298	500	440
11/6/2023	5	306	500	500
11/6/2023	6	316	500	500
11/6/2023	7	322	500	500
11/6/2023	8	358	600	600
11/6/2023	9	395	668	668
11/6/2023	10	419	668	668
11/6/2023	11	432	668	668
11/6/2023	12	426	668	668
11/6/2023	13	428	668	668
11/6/2023	14	439	668	668
11/6/2023	15	439	668	668
11/6/2023	16	436	668	668
11/6/2023	17	422	668	668
11/6/2023	18	433	668	668
11/6/2023	19	419	668	668
11/6/2023	20	415	668	668
11/6/2023	21	407	668	668
11/6/2023	22	395	668	668
11/6/2023	23	380	668	668
11/6/2023	24	365	668	668
11/7/2023	1	361	500	460
11/7/2023	2	350	500	460
11/7/2023	3	340	500	455
11/7/2023	4	340	500	455
11/7/2023	5	340	500	455
11/7/2023	6	342	500	455

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/7/2023	7	345	500	455
11/7/2023	8	385	500	500
11/7/2023	9	412	563	560
11/7/2023	10	438	600	600
11/7/2023	11	449	668	668
11/7/2023	12	441	668	668
11/7/2023	13	442	668	668
11/7/2023	14	462	668	668
11/7/2023	15	461	668	668
11/7/2023	16	451	668	668
11/7/2023	17	432	668	668
11/7/2023	18	434	668	668
11/7/2023	19	431	668	668
11/7/2023	20	432	668	668
11/7/2023	21	426	668	668
11/7/2023	22	414	668	668
11/7/2023	23	401	668	668
11/7/2023	24	372	668	668
11/8/2023	1	362	500	500
11/8/2023	2	347	500	500
11/8/2023	3	337	500	500
11/8/2023	4	336	500	500
11/8/2023	5	336	500	500
11/8/2023	6	340	500	500
11/8/2023	7	342	500	500
11/8/2023	8	379	550	550
11/8/2023	9	413	600	600
11/8/2023	10	437	668	668
11/8/2023	11	443	668	668
11/8/2023	12	437	668	668
11/8/2023	13	442	668	668
11/8/2023	14	449	668	668
11/8/2023	15	450	668	668
11/8/2023	16	438	668	668
11/8/2023	17	423	668	668
11/8/2023	18	428	668	668
11/8/2023	19	423	668	668
11/8/2023	20	418	668	668
11/8/2023	21	413	668	668
11/8/2023	22	398	668	668
11/8/2023	23	381	668	668
11/8/2023	24	354	600	600
11/9/2023	1	358	668	668
11/9/2023	2	346	616	616
11/9/2023	3	337	554	553
11/9/2023	4	336	550	550
11/9/2023	5	337	550	550
11/9/2023	6	343	550	550
11/9/2023	7	342	550	550
11/9/2023	8	378	600	600
11/9/2023	9	403	668	668
11/9/2023	10	427	668	668
11/9/2023	11	437	668	668
11/9/2023	12	430	668	668
11/9/2023	13	440	668	668
11/9/2023	14	440	668	668
11/9/2023	15	452	668	668
11/9/2023	16	452	668	668
11/9/2023	17	444	668	668
11/9/2023	18	425	668	668
11/9/2023	19	435	668	668
11/9/2023	20	427	668	668
11/9/2023	21	427	668	668
11/9/2023	22	417	668	668
11/9/2023	23	402	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/9/2023	24	389	668	668
11/10/2023	1	356	668	590
11/10/2023	2	344	550	500
11/10/2023	3	341	500	500
11/10/2023	4	340	500	460
11/10/2023	5	337	500	460
11/10/2023	6	340	500	460
11/10/2023	7	344	500	455
11/10/2023	8	381	550	550
11/10/2023	9	428	600	600
11/10/2023	10	436	668	647
11/10/2023	11	447	668	668
11/10/2023	12	445	668	668
11/10/2023	13	451	668	668
11/10/2023	14	461	668	668
11/10/2023	15	456	668	668
11/10/2023	16	449	668	668
11/10/2023	17	429	668	668
11/10/2023	18	430	668	668
11/10/2023	19	429	668	668
11/10/2023	20	429	668	668
11/10/2023	21	427	668	668
11/10/2023	22	411	668	668
11/10/2023	23	396	668	668
11/10/2023	24	360	600	580
11/11/2023	1	367	668	668
11/11/2023	2	354	668	668
11/11/2023	3	337	668	668
11/11/2023	4	338	668	668
11/11/2023	5	336	668	668
11/11/2023	6	337	600	600
11/11/2023	7	338	550	550
11/11/2023	8	365	550	550
11/11/2023	9	382	600	600
11/11/2023	10	410	668	668
11/11/2023	11	420	668	668
11/11/2023	12	414	668	668
11/11/2023	13	419	668	668
11/11/2023	14	428	668	668
11/11/2023	15	419	668	668
11/11/2023	16	411	668	668
11/11/2023	17	395	668	668
11/11/2023	18	407	668	668
11/11/2023	19	408	668	668
11/11/2023	20	405	668	668
11/11/2023	21	401	668	668
11/11/2023	22	392	668	668
11/11/2023	23	378	668	668
11/11/2023	24	372	668	668
11/12/2023	1	345	668	668
11/12/2023	2	333	668	668
11/12/2023	3	322	668	668
11/12/2023	4	313	668	641
11/12/2023	5	304	600	550
11/12/2023	6	299	606	500
11/12/2023	7	295	500	481
11/12/2023	8	306	500	499
11/12/2023	9	327	550	550
11/12/2023	10	350	600	600
11/12/2023	11	363	668	668
11/12/2023	12	362	668	668
11/12/2023	13	366	668	668
11/12/2023	14	371	668	668
11/12/2023	15	365	668	668
11/12/2023	16	358	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/12/2023	17	355	668	668
11/12/2023	18	382	668	668
11/12/2023	19	381	668	668
11/12/2023	20	386	668	668
11/12/2023	21	386	668	668
11/12/2023	22	374	668	668
11/12/2023	23	360	608	608
11/12/2023	24	347	550	550
11/13/2023	1	332	668	668
11/13/2023	2	323	600	600
11/13/2023	3	313	550	550
11/13/2023	4	309	500	500
11/13/2023	5	320	567	560
11/13/2023	6	329	600	600
11/13/2023	7	335	600	600
11/13/2023	8	371	668	668
11/13/2023	9	426	668	668
11/13/2023	10	434	668	668
11/13/2023	11	448	668	668
11/13/2023	12	443	668	668
11/13/2023	13	447	668	668
11/13/2023	14	462	668	668
11/13/2023	15	463	668	668
11/13/2023	16	454	668	668
11/13/2023	17	436	668	668
11/13/2023	18	443	668	668
11/13/2023	19	430	668	668
11/13/2023	20	423	668	668
11/13/2023	21	422	668	668
11/13/2023	22	409	668	668
11/13/2023	23	395	668	668
11/13/2023	24	376	600	580
11/14/2023	1	365	668	668
11/14/2023	2	354	600	600
11/14/2023	3	343	550	550
11/14/2023	4	338	500	500
11/14/2023	5	344	500	500
11/14/2023	6	346	550	550
11/14/2023	7	349	600	600
11/14/2023	8	390	668	668
11/14/2023	9	426	668	668
11/14/2023	10	443	668	668
11/14/2023	11	455	668	668
11/14/2023	12	447	668	668
11/14/2023	13	448	668	668
11/14/2023	14	462	668	668
11/14/2023	15	461	668	668
11/14/2023	16	447	668	668
11/14/2023	17	428	668	668
11/14/2023	18	419	668	668
11/14/2023	19	423	668	668
11/14/2023	20	419	668	668
11/14/2023	21	414	668	668
11/14/2023	22	403	668	668
11/14/2023	23	390	668	668
11/14/2023	24	378	668	668
11/15/2023	1	354	580	575
11/15/2023	2	341	500	500
11/15/2023	3	336	500	500
11/15/2023	4	336	500	500
11/15/2023	5	337	500	500
11/15/2023	6	340	500	500
11/15/2023	7	342	500	500
11/15/2023	8	375	500	500
11/15/2023	9	406	550	550

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/15/2023	10	426	600	600
11/15/2023	11	435	668	668
11/15/2023	12	429	668	668
11/15/2023	13	432	668	668
11/15/2023	14	447	668	668
11/15/2023	15	441	668	668
11/15/2023	16	432	668	668
11/15/2023	17	418	668	668
11/15/2023	18	430	668	668
11/15/2023	19	419	668	668
11/15/2023	20	416	668	668
11/15/2023	21	406	627	600
11/15/2023	22	396	560	550
11/15/2023	23	383	560	500
11/15/2023	24	367	500	500
11/16/2023	1	348	500	500
11/16/2023	2	336	500	500
11/16/2023	3	326	500	500
11/16/2023	4	323	500	500
11/16/2023	5	331	500	500
11/16/2023	6	334	500	500
11/16/2023	7	337	500	500
11/16/2023	8	370	500	500
11/16/2023	9	401	550	550
11/16/2023	10	420	600	600
11/16/2023	11	430	668	668
11/16/2023	12	421	668	668
11/16/2023	13	424	668	668
11/16/2023	14	435	668	668
11/16/2023	15	433	668	668
11/16/2023	16	429	668	668
11/16/2023	17	414	668	668
11/16/2023	18	425	668	668
11/16/2023	19	416	668	668
11/16/2023	20	411	668	668
11/16/2023	21	406	627	601
11/16/2023	22	391	560	550
11/16/2023	23	375	560	500
11/16/2023	24	364	500	500
11/17/2023	1	338	668	668
11/17/2023	2	328	668	668
11/17/2023	3	319	600	600
11/17/2023	4	316	600	600
11/17/2023	5	323	600	600
11/17/2023	6	336	600	600
11/17/2023	7	337	550	550
11/17/2023	8	365	550	550
11/17/2023	9	398	600	600
11/17/2023	10	421	668	668
11/17/2023	11	436	668	668
11/17/2023	12	429	668	668
11/17/2023	13	438	668	668
11/17/2023	14	452	668	668
11/17/2023	15	452	668	668
11/17/2023	16	444	668	668
11/17/2023	17	426	668	668
11/17/2023	18	435	668	668
11/17/2023	19	427	668	668
11/17/2023	20	421	668	668
11/17/2023	21	418	668	668
11/17/2023	22	403	668	668
11/17/2023	23	385	668	668
11/17/2023	24	375	668	668
11/18/2023	1	343	668	668
11/18/2023	2	332	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/18/2023	3	320	600	600
11/18/2023	4	313	600	600
11/18/2023	5	309	600	600
11/18/2023	6	306	600	600
11/18/2023	7	307	550	550
11/18/2023	8	332	550	550
11/18/2023	9	358	600	600
11/18/2023	10	386	668	668
11/18/2023	11	398	668	668
11/18/2023	12	392	668	668
11/18/2023	13	395	668	668
11/18/2023	14	400	668	668
11/18/2023	15	398	668	668
11/18/2023	16	393	668	668
11/18/2023	17	377	668	668
11/18/2023	18	389	668	668
11/18/2023	19	382	668	668
11/18/2023	20	381	668	668
11/18/2023	21	377	668	668
11/18/2023	22	374	668	668
11/18/2023	23	360	668	668
11/18/2023	24	357	668	668
11/19/2023	1	342	668	668
11/19/2023	2	330	600	600
11/19/2023	3	317	550	550
11/19/2023	4	308	500	500
11/19/2023	5	302	500	500
11/19/2023	6	293	500	500
11/19/2023	7	292	500	500
11/19/2023	8	308	500	500
11/19/2023	9	322	550	550
11/19/2023	10	344	600	600
11/19/2023	11	354	668	668
11/19/2023	12	355	668	668
11/19/2023	13	357	668	668
11/19/2023	14	366	668	668
11/19/2023	15	364	668	668
11/19/2023	16	356	668	668
11/19/2023	17	349	668	668
11/19/2023	18	378	668	668
11/19/2023	19	373	668	668
11/19/2023	20	379	668	668
11/19/2023	21	379	668	668
11/19/2023	22	369	668	668
11/19/2023	23	354	668	668
11/19/2023	24	341	668	668
11/20/2023	1	338	500	500
11/20/2023	2	327	500	500
11/20/2023	3	319	500	500
11/20/2023	4	322	500	500
11/20/2023	5	332	500	500
11/20/2023	6	336	500	500
11/20/2023	7	357	500	500
11/20/2023	8	396	500	500
11/20/2023	9	419	543	543
11/20/2023	10	435	600	600
11/20/2023	11	438	668	668
11/20/2023	12	434	668	668
11/20/2023	13	449	668	668
11/20/2023	14	451	668	668
11/20/2023	15	443	668	668
11/20/2023	16	431	668	668
11/20/2023	17	426	668	668
11/20/2023	18	429	668	668
11/20/2023	19	420	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/20/2023	20	416	668	668
11/20/2023	21	407	668	668
11/20/2023	22	392	668	668
11/20/2023	23	376	592	592
11/20/2023	24	361	514	514
11/21/2023	1	347	500	500
11/21/2023	2	333	500	500
11/21/2023	3	323	500	500
11/21/2023	4	318	500	500
11/21/2023	5	325	500	500
11/21/2023	6	328	500	500
11/21/2023	7	330	500	500
11/21/2023	8	362	500	500
11/21/2023	9	390	550	550
11/21/2023	10	414	600	600
11/21/2023	11	421	668	668
11/21/2023	12	415	562	561
11/21/2023	13	419	568	567
11/21/2023	14	433	668	668
11/21/2023	15	432	668	668
11/21/2023	16	428	668	668
11/21/2023	17	404	668	668
11/21/2023	18	411	668	668
11/21/2023	19	403	668	668
11/21/2023	20	402	668	668
11/21/2023	21	395	668	668
11/21/2023	22	384	668	668
11/21/2023	23	368	668	668
11/21/2023	24	360	606	606
11/22/2023	1	345	500	500
11/22/2023	2	333	500	500
11/22/2023	3	325	500	500
11/22/2023	4	322	500	500
11/22/2023	5	328	500	500
11/22/2023	6	331	500	500
11/22/2023	7	332	500	500
11/22/2023	8	365	500	500
11/22/2023	9	396	550	550
11/22/2023	10	415	600	600
11/22/2023	11	424	668	668
11/22/2023	12	418	562	561
11/22/2023	13	421	568	567
11/22/2023	14	432	668	668
11/22/2023	15	430	668	668
11/22/2023	16	421	668	668
11/22/2023	17	408	668	668
11/22/2023	18	421	668	668
11/22/2023	19	410	668	668
11/22/2023	20	406	668	668
11/22/2023	21	397	668	668
11/22/2023	22	387	668	668
11/22/2023	23	375	668	668
11/22/2023	24	362	606	606
11/23/2023	1	333	600	600
11/23/2023	2	319	600	600
11/23/2023	3	313	600	600
11/23/2023	4	309	600	600
11/23/2023	5	318	600	600
11/23/2023	6	323	600	600
11/23/2023	7	325	550	550
11/23/2023	8	358	550	550
11/23/2023	9	388	600	600
11/23/2023	10	409	600	600
11/23/2023	11	422	600	600
11/23/2023	12	418	600	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/23/2023	13	423	600	600
11/23/2023	14	434	668	668
11/23/2023	15	432	668	668
11/23/2023	16	425	668	668
11/23/2023	17	413	668	668
11/23/2023	18	424	668	668
11/23/2023	19	386	600	600
11/23/2023	20	410	668	668
11/23/2023	21	404	668	668
11/23/2023	22	399	600	600
11/23/2023	23	370	600	600
11/23/2023	24	353	600	600
11/24/2023	1	345	600	600
11/24/2023	2	334	600	600
11/24/2023	3	324	600	600
11/24/2023	4	317	600	600
11/24/2023	5	321	600	600
11/24/2023	6	325	600	600
11/24/2023	7	327	550	550
11/24/2023	8	364	550	550
11/24/2023	9	393	600	600
11/24/2023	10	413	600	600
11/24/2023	11	422	600	600
11/24/2023	12	412	600	600
11/24/2023	13	417	600	600
11/24/2023	14	432	600	600
11/24/2023	15	427	600	600
11/24/2023	16	418	600	600
11/24/2023	17	398	600	600
11/24/2023	18	408	600	600
11/24/2023	19	394	600	600
11/24/2023	20	392	600	600
11/24/2023	21	387	600	600
11/24/2023	22	375	600	600
11/24/2023	23	364	600	600
11/24/2023	24	348	600	600
11/25/2023	1	343	600	600
11/25/2023	2	330	600	600
11/25/2023	3	320	600	600
11/25/2023	4	312	600	600
11/25/2023	5	310	600	600
11/25/2023	6	307	550	550
11/25/2023	7	310	500	500
11/25/2023	8	333	550	550
11/25/2023	9	357	600	600
11/25/2023	10	379	600	600
11/25/2023	11	390	600	600
11/25/2023	12	382	600	600
11/25/2023	13	382	600	600
11/25/2023	14	389	600	600
11/25/2023	15	386	600	600
11/25/2023	16	376	600	600
11/25/2023	17	368	600	600
11/25/2023	18	383	600	600
11/25/2023	19	371	600	600
11/25/2023	20	369	600	600
11/25/2023	21	372	600	600
11/25/2023	22	361	600	600
11/25/2023	23	349	600	600
11/25/2023	24	337	600	600
11/26/2023	1	331	668	668
11/26/2023	2	321	668	532
11/26/2023	3	312	500	500
11/26/2023	4	303	500	500
11/26/2023	5	300	500	500

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/26/2023	6	295	500	500
11/26/2023	7	294	500	500
11/26/2023	8	309	500	500
11/26/2023	9	323	500	500
11/26/2023	10	341	500	500
11/26/2023	11	351	500	500
11/26/2023	12	349	500	500
11/26/2023	13	344	500	500
11/26/2023	14	351	500	500
11/26/2023	15	351	500	500
11/26/2023	16	346	531	500
11/26/2023	17	345	668	607
11/26/2023	18	371	668	668
11/26/2023	19	364	648	648
11/26/2023	20	364	668	668
11/26/2023	21	363	668	668
11/26/2023	22	353	668	668
11/26/2023	23	337	668	668
11/26/2023	24	323	668	668
11/27/2023	1	290	563	563
11/27/2023	2	278	500	500
11/27/2023	3	273	500	500
11/27/2023	4	269	470	465
11/27/2023	5	279	500	500
11/27/2023	6	290	500	500
11/27/2023	7	299	500	500
11/27/2023	8	332	518	518
11/27/2023	9	362	668	668
11/27/2023	10	385	668	668
11/27/2023	11	399	668	668
11/27/2023	12	400	668	668
11/27/2023	13	408	668	668
11/27/2023	14	414	668	668
11/27/2023	15	412	668	668
11/27/2023	16	407	668	668
11/27/2023	17	404	668	668
11/27/2023	18	404	668	668
11/27/2023	19	400	668	668
11/27/2023	20	383	668	668
11/27/2023	21	378	668	668
11/27/2023	22	361	668	668
11/27/2023	23	340	668	668
11/27/2023	24	328	668	668
11/28/2023	1	355	668	550
11/28/2023	2	346	668	550
11/28/2023	3	336	619	550
11/28/2023	4	333	630	550
11/28/2023	5	341	668	550
11/28/2023	6	348	668	550
11/28/2023	7	349	529	500
11/28/2023	8	382	508	500
11/28/2023	9	409	668	550
11/28/2023	10	430	668	550
11/28/2023	11	440	668	550
11/28/2023	12	433	668	550
11/28/2023	13	435	668	550
11/28/2023	14	447	668	550
11/28/2023	15	444	668	550
11/28/2023	16	437	668	550
11/28/2023	17	426	668	550
11/28/2023	18	435	660	558
11/28/2023	19	423	660	558
11/28/2023	20	419	668	500
11/28/2023	21	412	668	550
11/28/2023	22	395	668	550

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
11/28/2023	23	379	668	550
11/28/2023	24	366	668	550
11/29/2023	1	327	668	668
11/29/2023	2	316	628	622
11/29/2023	3	310	643	641
11/29/2023	4	307	658	656
11/29/2023	5	313	658	653
11/29/2023	6	323	668	668
11/29/2023	7	325	578	575
11/29/2023	8	357	668	668
11/29/2023	9	385	668	668
11/29/2023	10	408	668	668
11/29/2023	11	422	668	668
11/29/2023	12	417	668	668
11/29/2023	13	423	668	668
11/29/2023	14	439	668	668
11/29/2023	15	437	668	668
11/29/2023	16	430	668	668
11/29/2023	17	414	668	668
11/29/2023	18	425	668	668
11/29/2023	19	409	668	668
11/29/2023	20	407	668	668
11/29/2023	21	398	668	668
11/29/2023	22	384	668	668
11/29/2023	23	368	668	668
11/29/2023	24	340	633	629
11/30/2023	1	347	668	668
11/30/2023	2	332	668	613
11/30/2023	3	325	668	668
11/30/2023	4	321	668	656
11/30/2023	5	327	668	668
11/30/2023	6	333	668	642
11/30/2023	7	335	538	500
11/30/2023	8	369	668	668
11/30/2023	9	396	532	500
11/30/2023	10	418	668	668
11/30/2023	11	432	668	668
11/30/2023	12	427	668	668
11/30/2023	13	428	668	668
11/30/2023	14	444	668	668
11/30/2023	15	442	668	668
11/30/2023	16	435	668	668
11/30/2023	17	418	668	569
11/30/2023	18	429	668	668
11/30/2023	19	415	576	500
11/30/2023	20	409	557	557
11/30/2023	21	404	668	668
11/30/2023	22	390	668	668
11/30/2023	23	374	668	668
11/30/2023	24	356	668	668
12/1/2023	1	342	668	668
12/1/2023	2	331	600	600
12/1/2023	3	320	550	550
12/1/2023	4	316	550	550
12/1/2023	5	322	550	550
12/1/2023	6	328	600	600
12/1/2023	7	332	600	600
12/1/2023	8	363	600	600
12/1/2023	9	393	668	668
12/1/2023	10	414	668	668
12/1/2023	11	425	668	668
12/1/2023	12	418	668	668
12/1/2023	13	419	668	668
12/1/2023	14	434	668	668
12/1/2023	15	434	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/1/2023	16	427	668	668
12/1/2023	17	409	668	668
12/1/2023	18	418	668	668
12/1/2023	19	405	668	668
12/1/2023	20	399	668	668
12/1/2023	21	395	668	668
12/1/2023	22	384	668	668
12/1/2023	23	367	668	668
12/1/2023	24	353	668	668
12/2/2023	1	347	668	668
12/2/2023	2	335	600	600
12/2/2023	3	324	550	550
12/2/2023	4	317	550	550
12/2/2023	5	313	550	550
12/2/2023	6	312	600	600
12/2/2023	7	313	600	600
12/2/2023	8	340	600	600
12/2/2023	9	363	668	668
12/2/2023	10	390	668	668
12/2/2023	11	403	668	668
12/2/2023	12	402	668	668
12/2/2023	13	406	668	668
12/2/2023	14	411	668	668
12/2/2023	15	407	668	668
12/2/2023	16	400	668	668
12/2/2023	17	388	668	668
12/2/2023	18	406	668	668
12/2/2023	19	394	668	668
12/2/2023	20	396	668	668
12/2/2023	21	393	668	668
12/2/2023	22	382	668	668
12/2/2023	23	369	668	668
12/2/2023	24	332	668	668
12/3/2023	1	306	668	668
12/3/2023	2	297	656	562
12/3/2023	3	291	668	562
12/3/2023	4	285	668	506
12/3/2023	5	285	522	500
12/3/2023	6	283	500	487
12/3/2023	7	283	487	460
12/3/2023	8	296	500	500
12/3/2023	9	311	612	500
12/3/2023	10	330	668	585
12/3/2023	11	336	668	668
12/3/2023	12	333	668	668
12/3/2023	13	337	668	668
12/3/2023	14	339	668	668
12/3/2023	15	337	668	668
12/3/2023	16	338	668	668
12/3/2023	17	337	668	668
12/3/2023	18	365	668	668
12/3/2023	19	361	668	668
12/3/2023	20	360	668	668
12/3/2023	21	358	668	668
12/3/2023	22	347	668	668
12/3/2023	23	333	668	668
12/3/2023	24	320	668	668
12/4/2023	1	331	583	583
12/4/2023	2	320	500	500
12/4/2023	3	315	500	500
12/4/2023	4	311	500	500
12/4/2023	5	321	500	500
12/4/2023	6	331	508	508
12/4/2023	7	339	500	500
12/4/2023	8	370	593	593

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/4/2023	9	398	668	668
12/4/2023	10	420	643	643
12/4/2023	11	432	668	668
12/4/2023	12	426	668	668
12/4/2023	13	430	668	668
12/4/2023	14	446	668	668
12/4/2023	15	444	668	668
12/4/2023	16	440	668	668
12/4/2023	17	426	668	668
12/4/2023	18	433	668	668
12/4/2023	19	422	668	668
12/4/2023	20	418	668	668
12/4/2023	21	410	668	668
12/4/2023	22	397	668	668
12/4/2023	23	378	668	668
12/4/2023	24	366	668	668
12/5/2023	1	345	668	668
12/5/2023	2	336	668	668
12/5/2023	3	325	668	668
12/5/2023	4	323	668	668
12/5/2023	5	331	668	668
12/5/2023	6	339	668	668
12/5/2023	7	339	668	668
12/5/2023	8	374	668	668
12/5/2023	9	403	668	668
12/5/2023	10	426	668	668
12/5/2023	11	435	668	668
12/5/2023	12	429	668	668
12/5/2023	13	431	668	668
12/5/2023	14	442	668	668
12/5/2023	15	441	668	668
12/5/2023	16	433	668	668
12/5/2023	17	422	668	668
12/5/2023	18	431	668	668
12/5/2023	19	419	668	668
12/5/2023	20	413	668	668
12/5/2023	21	406	668	668
12/5/2023	22	387	668	668
12/5/2023	23	370	668	668
12/5/2023	24	337	668	668
12/6/2023	1	329	668	668
12/6/2023	2	316	600	600
12/6/2023	3	309	550	550
12/6/2023	4	305	550	550
12/6/2023	5	314	550	550
12/6/2023	6	319	600	600
12/6/2023	7	321	600	600
12/6/2023	8	354	600	600
12/6/2023	9	384	668	668
12/6/2023	10	404	668	668
12/6/2023	11	417	668	668
12/6/2023	12	413	668	668
12/6/2023	13	418	668	668
12/6/2023	14	434	668	668
12/6/2023	15	431	668	668
12/6/2023	16	424	668	668
12/6/2023	17	408	668	668
12/6/2023	18	419	668	668
12/6/2023	19	405	668	668
12/6/2023	20	400	668	668
12/6/2023	21	395	668	668
12/6/2023	22	382	668	668
12/6/2023	23	367	668	668
12/6/2023	24	340	668	668
12/7/2023	1	325	668	550

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

2025 - 2034 ANCILLARY SERVICE AGREEMENT PROCUREMENT PLAN
ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/7/2023	2	314	668	550
12/7/2023	3	305	664	550
12/7/2023	4	301	550	542
12/7/2023	5	307	624	550
12/7/2023	6	312	573	550
12/7/2023	7	315	658	550
12/7/2023	8	370	668	550
12/7/2023	9	403	668	550
12/7/2023	10	426	668	550
12/7/2023	11	439	668	550
12/7/2023	12	434	668	550
12/7/2023	13	440	668	550
12/7/2023	14	454	668	550
12/7/2023	15	452	668	550
12/7/2023	16	445	668	550
12/7/2023	17	417	668	550
12/7/2023	18	429	668	600
12/7/2023	19	415	668	647
12/7/2023	20	409	668	600
12/7/2023	21	403	668	550
12/7/2023	22	390	668	550
12/7/2023	23	374	668	550
12/7/2023	24	353	668	550
12/8/2023	1	352	668	668
12/8/2023	2	342	668	668
12/8/2023	3	334	600	600
12/8/2023	4	325	550	550
12/8/2023	5	325	550	550
12/8/2023	6	323	600	600
12/8/2023	7	324	600	600
12/8/2023	8	339	600	600
12/8/2023	9	361	668	668
12/8/2023	10	387	668	668
12/8/2023	11	399	668	668
12/8/2023	12	395	668	668
12/8/2023	13	400	668	668
12/8/2023	14	409	668	668
12/8/2023	15	410	668	668
12/8/2023	16	403	668	668
12/8/2023	17	395	668	668
12/8/2023	18	417	668	668
12/8/2023	19	411	668	668
12/8/2023	20	408	668	668
12/8/2023	21	405	668	668
12/8/2023	22	395	668	668
12/8/2023	23	377	668	668
12/8/2023	24	354	668	668
12/9/2023	1	325	668	550
12/9/2023	2	314	668	550
12/9/2023	3	305	664	550
12/9/2023	4	301	550	542
12/9/2023	5	307	624	550
12/9/2023	6	312	573	550
12/9/2023	7	315	658	550
12/9/2023	8	370	668	550
12/9/2023	9	403	668	550
12/9/2023	10	426	668	550
12/9/2023	11	439	668	550
12/9/2023	12	434	668	550
12/9/2023	13	440	668	550
12/9/2023	14	454	668	550
12/9/2023	15	452	668	550
12/9/2023	16	445	668	550
12/9/2023	17	417	668	550
12/9/2023	18	429	668	600

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/9/2023	19	415	668	647
12/9/2023	20	409	668	600
12/9/2023	21	403	668	550
12/9/2023	22	390	668	550
12/9/2023	23	374	668	550
12/9/2023	24	353	668	550
12/10/2023	1	326	668	550
12/10/2023	2	314	668	550
12/10/2023	3	305	668	550
12/10/2023	4	302	668	550
12/10/2023	5	297	668	550
12/10/2023	6	295	668	550
12/10/2023	7	308	668	550
12/10/2023	8	330	668	550
12/10/2023	9	340	668	550
12/10/2023	10	352	668	550
12/10/2023	11	347	668	550
12/10/2023	12	345	668	550
12/10/2023	13	348	668	550
12/10/2023	14	344	668	550
12/10/2023	15	341	668	550
12/10/2023	16	344	668	550
12/10/2023	17	370	668	647
12/10/2023	18	367	668	647
12/10/2023	19	368	668	647
12/10/2023	20	367	668	647
12/10/2023	21	356	668	550
12/10/2023	22	342	668	550
12/10/2023	23	324	668	550
12/10/2023	24	342	668	550
12/11/2023	1	337	668	621
12/11/2023	2	326	668	550
12/11/2023	3	318	668	550
12/11/2023	4	314	668	550
12/11/2023	5	319	668	550
12/11/2023	6	323	668	550
12/11/2023	7	355	668	647
12/11/2023	8	384	668	647
12/11/2023	9	412	668	647
12/11/2023	10	436	668	647
12/11/2023	11	448	668	647
12/11/2023	12	444	668	647
12/11/2023	13	448	668	647
12/11/2023	14	460	668	647
12/11/2023	15	458	668	647
12/11/2023	16	450	668	647
12/11/2023	17	437	668	647
12/11/2023	18	448	668	647
12/11/2023	19	435	668	647
12/11/2023	20	430	668	647
12/11/2023	21	423	668	647
12/11/2023	22	410	668	647
12/11/2023	23	393	668	647
12/11/2023	24	379	668	647
12/12/2023	1	344	500	500
12/12/2023	2	333	500	500
12/12/2023	3	323	500	500
12/12/2023	4	319	500	500
12/12/2023	5	328	500	500
12/12/2023	6	332	500	500
12/12/2023	7	335	500	500
12/12/2023	8	369	500	500
12/12/2023	9	398	550	550
12/12/2023	10	422	600	600
12/12/2023	11	432	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/12/2023	12	426	668	668
12/12/2023	13	431	668	668
12/12/2023	14	443	668	668
12/12/2023	15	441	668	668
12/12/2023	16	435	668	668
12/12/2023	17	418	668	668
12/12/2023	18	428	668	668
12/12/2023	19	420	668	668
12/12/2023	20	413	668	668
12/12/2023	21	407	668	668
12/12/2023	22	393	668	668
12/12/2023	23	375	668	668
12/12/2023	24	362	668	668
12/13/2023	1	354	657	657
12/13/2023	2	343	600	600
12/13/2023	3	335	550	550
12/13/2023	4	330	500	500
12/13/2023	5	333	500	500
12/13/2023	6	341	500	500
12/13/2023	7	351	500	500
12/13/2023	8	380	550	550
12/13/2023	9	410	600	600
12/13/2023	10	433	668	668
12/13/2023	11	449	668	668
12/13/2023	12	440	668	668
12/13/2023	13	440	668	668
12/13/2023	14	453	668	668
12/13/2023	15	450	668	668
12/13/2023	16	444	668	668
12/13/2023	17	431	668	668
12/13/2023	18	448	668	668
12/13/2023	19	437	668	668
12/13/2023	20	430	668	668
12/13/2023	21	421	668	668
12/13/2023	22	404	668	668
12/13/2023	23	386	668	668
12/13/2023	24	363	668	668
12/14/2023	1	347	500	500
12/14/2023	2	339	500	500
12/14/2023	3	329	500	500
12/14/2023	4	327	500	500
12/14/2023	5	331	500	500
12/14/2023	6	340	500	500
12/14/2023	7	342	500	500
12/14/2023	8	372	550	550
12/14/2023	9	403	600	600
12/14/2023	10	424	668	668
12/14/2023	11	437	668	668
12/14/2023	12	430	668	668
12/14/2023	13	432	668	668
12/14/2023	14	445	668	668
12/14/2023	15	449	668	668
12/14/2023	16	442	668	668
12/14/2023	17	427	668	668
12/14/2023	18	436	668	668
12/14/2023	19	426	668	668
12/14/2023	20	422	668	668
12/14/2023	21	418	668	668
12/14/2023	22	406	668	668
12/14/2023	23	384	668	668
12/14/2023	24	364	668	668
12/15/2023	1	342	668	668
12/15/2023	2	330	668	668
12/15/2023	3	320	600	600
12/15/2023	4	316	550	550

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/15/2023	5	323	550	550
12/15/2023	6	328	600	600
12/15/2023	7	328	600	600
12/15/2023	8	359	600	600
12/15/2023	9	390	668	668
12/15/2023	10	411	600	600
12/15/2023	11	421	600	600
12/15/2023	12	411	600	600
12/15/2023	13	419	600	600
12/15/2023	14	436	668	668
12/15/2023	15	431	668	668
12/15/2023	16	424	668	668
12/15/2023	17	409	668	668
12/15/2023	18	421	668	668
12/15/2023	19	411	668	668
12/15/2023	20	408	668	668
12/15/2023	21	404	668	668
12/15/2023	22	392	668	668
12/15/2023	23	373	668	668
12/15/2023	24	368	668	668
12/16/2023	1	352	668	668
12/16/2023	2	340	668	668
12/16/2023	3	331	600	600
12/16/2023	4	325	550	550
12/16/2023	5	329	550	550
12/16/2023	6	333	600	600
12/16/2023	7	335	600	600
12/16/2023	8	363	600	600
12/16/2023	9	390	668	668
12/16/2023	10	412	668	668
12/16/2023	11	423	668	668
12/16/2023	12	417	668	668
12/16/2023	13	419	668	668
12/16/2023	14	433	668	668
12/16/2023	15	429	668	668
12/16/2023	16	423	668	668
12/16/2023	17	409	668	668
12/16/2023	18	421	668	668
12/16/2023	19	412	668	668
12/16/2023	20	408	668	668
12/16/2023	21	404	668	668
12/16/2023	22	392	668	668
12/16/2023	23	376	668	668
12/16/2023	24	355	668	668
12/17/2023	1	331	668	668
12/17/2023	2	320	668	668
12/17/2023	3	309	600	600
12/17/2023	4	301	550	550
12/17/2023	5	298	550	550
12/17/2023	6	296	550	550
12/17/2023	7	295	600	600
12/17/2023	8	310	600	600
12/17/2023	9	334	600	600
12/17/2023	10	355	600	600
12/17/2023	11	366	600	600
12/17/2023	12	362	600	600
12/17/2023	13	362	600	600
12/17/2023	14	367	668	668
12/17/2023	15	363	668	668
12/17/2023	16	357	668	668
12/17/2023	17	353	668	668
12/17/2023	18	383	668	668
12/17/2023	19	386	668	668
12/17/2023	20	383	668	668
12/17/2023	21	379	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/17/2023	22	368	668	668
12/17/2023	23	348	668	668
12/17/2023	24	331	668	668
12/18/2023	1	326	500	500
12/18/2023	2	316	500	500
12/18/2023	3	304	500	500
12/18/2023	4	302	500	500
12/18/2023	5	308	500	500
12/18/2023	6	318	500	500
12/18/2023	7	323	500	500
12/18/2023	8	357	660	660
12/18/2023	9	390	600	600
12/18/2023	10	417	668	668
12/18/2023	11	429	668	668
12/18/2023	12	422	668	668
12/18/2023	13	421	668	668
12/18/2023	14	437	668	668
12/18/2023	15	438	668	668
12/18/2023	16	435	668	668
12/18/2023	17	417	668	668
12/18/2023	18	425	668	668
12/18/2023	19	421	668	668
12/18/2023	20	417	668	668
12/18/2023	21	403	668	668
12/18/2023	22	389	668	668
12/18/2023	23	371	668	668
12/18/2023	24	353	668	668
12/19/2023	1	350	668	668
12/19/2023	2	338	668	668
12/19/2023	3	328	600	600
12/19/2023	4	325	550	550
12/19/2023	5	331	550	550
12/19/2023	6	339	600	600
12/19/2023	7	337	600	600
12/19/2023	8	368	600	600
12/19/2023	9	400	668	668
12/19/2023	10	422	668	668
12/19/2023	11	435	668	668
12/19/2023	12	431	668	668
12/19/2023	13	430	668	668
12/19/2023	14	442	668	668
12/19/2023	15	440	668	668
12/19/2023	16	432	668	668
12/19/2023	17	423	668	668
12/19/2023	18	432	668	668
12/19/2023	19	420	668	668
12/19/2023	20	418	668	668
12/19/2023	21	410	668	668
12/19/2023	22	397	668	668
12/19/2023	23	381	668	668
12/19/2023	24	350	668	668
12/20/2023	1	327	668	668
12/20/2023	2	317	668	668
12/20/2023	3	308	600	600
12/20/2023	4	303	550	550
12/20/2023	5	305	550	550
12/20/2023	6	311	600	600
12/20/2023	7	328	600	600
12/20/2023	8	348	600	600
12/20/2023	9	375	668	668
12/20/2023	10	397	668	668
12/20/2023	11	411	668	668
12/20/2023	12	403	668	668
12/20/2023	13	403	668	668
12/20/2023	14	415	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/20/2023	15	415	668	668
12/20/2023	16	407	668	668
12/20/2023	17	398	668	668
12/20/2023	18	411	668	668
12/20/2023	19	399	668	668
12/20/2023	20	389	668	668
12/20/2023	21	375	668	668
12/20/2023	22	366	668	668
12/20/2023	23	351	668	668
12/20/2023	24	343	668	668
12/21/2023	1	334	668	668
12/21/2023	2	320	668	668
12/21/2023	3	311	600	600
12/21/2023	4	305	550	550
12/21/2023	5	310	550	550
12/21/2023	6	314	600	600
12/21/2023	7	324	600	600
12/21/2023	8	351	600	600
12/21/2023	9	380	668	668
12/21/2023	10	400	668	668
12/21/2023	11	414	668	668
12/21/2023	12	404	668	668
12/21/2023	13	405	668	668
12/21/2023	14	421	668	668
12/21/2023	15	423	668	668
12/21/2023	16	416	668	668
12/21/2023	17	406	668	668
12/21/2023	18	416	668	668
12/21/2023	19	402	668	668
12/21/2023	20	394	668	668
12/21/2023	21	396	668	668
12/21/2023	22	384	668	668
12/21/2023	23	368	668	668
12/21/2023	24	341	668	668
12/22/2023	1	336	668	668
12/22/2023	2	325	668	668
12/22/2023	3	316	668	668
12/22/2023	4	311	668	668
12/22/2023	5	317	668	668
12/22/2023	6	323	668	668
12/22/2023	7	325	668	668
12/22/2023	8	355	668	668
12/22/2023	9	383	668	668
12/22/2023	10	402	668	668
12/22/2023	11	412	668	668
12/22/2023	12	405	668	668
12/22/2023	13	406	668	668
12/22/2023	14	420	668	668
12/22/2023	15	417	668	668
12/22/2023	16	410	668	668
12/22/2023	17	396	668	668
12/22/2023	18	405	668	668
12/22/2023	19	396	668	668
12/22/2023	20	390	668	668
12/22/2023	21	386	668	668
12/22/2023	22	374	668	668
12/22/2023	23	358	668	668
12/22/2023	24	344	668	668
12/23/2023	1	327	668	668
12/23/2023	2	317	668	668
12/23/2023	3	307	668	668
12/23/2023	4	301	668	668
12/23/2023	5	301	668	668
12/23/2023	6	302	668	668
12/23/2023	7	309	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/23/2023	8	325	668	668
12/23/2023	9	342	668	668
12/23/2023	10	366	668	668
12/23/2023	11	380	668	668
12/23/2023	12	376	668	668
12/23/2023	13	380	668	668
12/23/2023	14	387	668	668
12/23/2023	15	388	668	668
12/23/2023	16	378	668	668
12/23/2023	17	372	668	668
12/23/2023	18	390	668	668
12/23/2023	19	380	668	668
12/23/2023	20	378	668	668
12/23/2023	21	372	668	668
12/23/2023	22	364	668	668
12/23/2023	23	352	668	668
12/23/2023	24	345	668	668
12/24/2023	1	264	600	600
12/24/2023	2	255	600	600
12/24/2023	3	247	600	600
12/24/2023	4	240	550	550
12/24/2023	5	237	550	550
12/24/2023	6	236	550	550
12/24/2023	7	235	550	550
12/24/2023	8	247	550	550
12/24/2023	9	266	550	550
12/24/2023	10	283	550	550
12/24/2023	11	291	550	550
12/24/2023	12	288	550	550
12/24/2023	13	288	550	550
12/24/2023	14	292	600	600
12/24/2023	15	289	600	600
12/24/2023	16	284	600	600
12/24/2023	17	282	600	600
12/24/2023	18	306	600	600
12/24/2023	19	307	600	600
12/24/2023	20	306	600	600
12/24/2023	21	302	600	600
12/24/2023	22	293	600	600
12/24/2023	23	278	600	600
12/24/2023	24	263	600	600
12/25/2023	1	242	500	500
12/25/2023	2	237	500	500
12/25/2023	3	231	500	500
12/25/2023	4	231	500	500
12/25/2023	5	233	500	500
12/25/2023	6	236	500	500
12/25/2023	7	241	500	500
12/25/2023	8	244	500	500
12/25/2023	9	253	500	500
12/25/2023	10	257	500	500
12/25/2023	11	256	500	500
12/25/2023	12	254	500	500
12/25/2023	13	253	500	500
12/25/2023	14	253	500	500
12/25/2023	15	254	500	500
12/25/2023	16	261	500	500
12/25/2023	17	283	500	500
12/25/2023	18	280	500	500
12/25/2023	19	276	500	500
12/25/2023	20	269	500	500
12/25/2023	21	260	500	500
12/25/2023	22	249	500	500
12/25/2023	23	241	500	500
12/25/2023	24	353	500	500

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/26/2023	1	218	500	500
12/26/2023	2	215	500	500
12/26/2023	3	208	500	500
12/26/2023	4	209	500	500
12/26/2023	5	211	500	500
12/26/2023	6	219	500	500
12/26/2023	7	230	500	500
12/26/2023	8	243	500	500
12/26/2023	9	257	500	500
12/26/2023	10	275	500	500
12/26/2023	11	284	558	558
12/26/2023	12	283	523	523
12/26/2023	13	282	524	524
12/26/2023	14	283	524	524
12/26/2023	15	283	524	524
12/26/2023	16	282	524	524
12/26/2023	17	286	524	524
12/26/2023	18	309	554	554
12/26/2023	19	302	524	524
12/26/2023	20	293	500	500
12/26/2023	21	285	500	500
12/26/2023	22	273	500	500
12/26/2023	23	261	500	500
12/26/2023	24	249	500	500
12/27/2023	1	237	500	500
12/27/2023	2	239	500	500
12/27/2023	3	243	500	500
12/27/2023	4	249	500	500
12/27/2023	5	265	500	500
12/27/2023	6	273	500	500
12/27/2023	7	287	500	500
12/27/2023	8	308	500	500
12/27/2023	9	331	668	668
12/27/2023	10	351	668	668
12/27/2023	11	360	668	668
12/27/2023	12	353	668	668
12/27/2023	13	349	668	668
12/27/2023	14	360	668	668
12/27/2023	15	357	668	668
12/27/2023	16	355	668	668
12/27/2023	17	349	668	668
12/27/2023	18	363	668	668
12/27/2023	19	355	668	668
12/27/2023	20	347	668	668
12/27/2023	21	337	668	668
12/27/2023	22	324	668	668
12/27/2023	23	311	668	668
12/27/2023	24	299	668	668
12/28/2023	1	305	668	668
12/28/2023	2	296	668	668
12/28/2023	3	286	600	600
12/28/2023	4	282	550	550
12/28/2023	5	279	550	550
12/28/2023	6	281	600	600
12/28/2023	7	290	600	600
12/28/2023	8	315	600	600
12/28/2023	9	341	668	668
12/28/2023	10	359	668	668
12/28/2023	11	369	668	668
12/28/2023	12	361	668	668
12/28/2023	13	361	668	668
12/28/2023	14	366	668	668
12/28/2023	15	366	668	668
12/28/2023	16	362	668	668
12/28/2023	17	355	668	668

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/28/2023	18	363	668	668
12/28/2023	19	352	668	668
12/28/2023	20	345	668	668
12/28/2023	21	337	668	668
12/28/2023	22	335	668	668
12/28/2023	23	318	668	668
12/28/2023	24	328	668	668
12/29/2023	1	309	500	500
12/29/2023	2	298	500	500
12/29/2023	3	290	500	500
12/29/2023	4	284	500	500
12/29/2023	5	282	500	500
12/29/2023	6	285	500	500
12/29/2023	7	294	500	500
12/29/2023	8	314	568	568
12/29/2023	9	332	668	668
12/29/2023	10	348	668	668
12/29/2023	11	356	668	668
12/29/2023	12	348	668	668
12/29/2023	13	345	668	668
12/29/2023	14	349	668	668
12/29/2023	15	348	668	668
12/29/2023	16	343	668	668
12/29/2023	17	336	668	668
12/29/2023	18	347	668	668
12/29/2023	19	339	668	668
12/29/2023	20	327	668	668
12/29/2023	21	323	668	668
12/29/2023	22	314	668	668
12/29/2023	23	297	668	668
12/29/2023	24	281	650	649
12/30/2023	1	285	600	600
12/30/2023	2	276	550	550
12/30/2023	3	269	550	550
12/30/2023	4	263	500	500
12/30/2023	5	261	500	500
12/30/2023	6	263	550	550
12/30/2023	7	266	600	600
12/30/2023	8	280	600	600
12/30/2023	9	296	600	600
12/30/2023	10	312	550	550
12/30/2023	11	321	600	600
12/30/2023	12	317	600	600
12/30/2023	13	318	600	600
12/30/2023	14	323	600	600
12/30/2023	15	319	600	600
12/30/2023	16	312	600	600
12/30/2023	17	312	600	600
12/30/2023	18	331	600	600
12/30/2023	19	326	600	600
12/30/2023	20	316	600	600
12/30/2023	21	312	600	600
12/30/2023	22	302	600	600
12/30/2023	23	292	600	600
12/30/2023	24	278	600	600
12/31/2023	1	254	668	668
12/31/2023	2	243	558	558
12/31/2023	3	238	543	500
12/31/2023	4	231	500	500
12/31/2023	5	230	500	500
12/31/2023	6	232	500	500
12/31/2023	7	232	500	500
12/31/2023	8	239	500	500
12/31/2023	9	254	523	519
12/31/2023	10	269	663	663

Note: Five Year Historical Hourly Levels are based on the 2019-2023 Actual AS Levels.

ANNEX E Five Year Historical Hourly Levels of AS requirement for Luzon

DELIVERY_DATE	DELIVERY_HOUR	Regulating Reserve	Contingency Reserve	Dispatchable Reserve
12/31/2023	11	275	668	668
12/31/2023	12	274	668	668
12/31/2023	13	275	668	668
12/31/2023	14	278	668	668
12/31/2023	15	277	668	668
12/31/2023	16	277	668	668
12/31/2023	17	281	668	668
12/31/2023	18	307	668	668
12/31/2023	19	304	668	668
12/31/2023	20	292	668	668
12/31/2023	21	281	668	668
12/31/2023	22	274	668	668
12/31/2023	23	269	668	668
12/31/2023	24	264	668	668