# TRANSMISSION COMPANY OF NIGERIA

From: General Manager, NCC, Osogbo

DAILY OPERATIONAL REPORT OF FRIDAY 06/09/2019 FOR: EVENTS OF THURSDAY 05/09/2019

EXECUTIVE OPERATIONS SUMMARY:

GENERATION PROFILE: NATIONAL STATISTICS

DETAILS	MW	HRS	DATE
PEAK DEMAND FORECAST (CONNECTED + SUPPRESSED LOAD)	25,790	21:45	05/09/19
GENERATION CAPABILITY	6221.2	-do-	-do-
UNITS ON BAR CAPABILITY AT PEAK	5304	-do-	-do-
PEAK GENERATION	4360.3	-do-	-do-
LOWEST GENERATION	2761.1	07:00	05/09/19
	3307.7	0100-0800	-do-
8-HOURLY DURATION PEAK	3574.4	0900-1600	-do-
	4360.3	1700-2400	-do-
PEAK GENERATION TO DATE	5375	21:30	7/2/2019
MAXIMUM AVAILABLE CAPACITY TO DATE	7652.6	06:00	14/04/2014
MAXIMUM ENERGY GENERATED (MWH) TO DATE	111,004.89	0000-2400	03/04/2019

#### CRITICAL VOLTAGE

DETAILS	KV	STATION	HRS
NOMINAL VOLTAGE	330		
STATUTORY LIMITS	280.5 - 346.6		
HIGHEST VOLTAGE FOR THE DAY	356	Lokoja T/S	07:00
LOWEST VOLTAGE FOR THE DAY	300	Yola & Gombe T/S	11:00 & 12:00

#### 1.3 FREQUENCY RANGE

	HZ	HRS
NOMINAL FREQUENCY	50	
STATUTORY LIMITS	49.75-50.25	
HIGHEST FREQUENCY	50.64	07:00
LOWEST FREQUENCY	50.05	21:17

#### SYSTEM COLLAPSE UPDATE Date of last total collapse: 30th August, 2019

Date of	last total co			gust, 2019			No. of days since	ast total co	llapse: 06					
Date of	last partial of	collapse	: 12th A	pril, 2018			No. of days since	last partial	collapse: 5	02				
Highest I	No of days eve	er attaine	ed in-betv	veen total collapses:	134		Highest No of da	ys ever attai	ned in-betv	veen partial collapses: 243				
		Jan	Feb.	Mar.	Apr	May	Jun	Jul	Aug	Sep.	Oct	Nov	Dec	Total
2010	Total		3	1	-	3	3	3		2	2	1	4	22
2010	Partial	1			1	1	3	4	4	3	2		1	20
2011	Total				_	4	3	1	1	1	2	1		13
2011	Partial		1	1					1		1	2		6
2012	Total			2	1	5	2	1			2	2	1	16
2012	Partial			2	3					1	0	1	1	8
	Total		1	2	2	3	4	1	1	1	1	4	2	22
2013	Partial									2	0			2
2014	Total	2			2	0	3	1	0	0	1	0	0	9
2014	Partial	0	0	0	0	1	0	0	0	0	0	2	1	4
2015	Total	1	0	1	0	2	0	1	0	0	0	1	0	6
2010	Partial			1	0	2	0		0	0	1	0	0	4
2016	Total		-	2	3	6	5	0	0	1	1	2	2	22
2010	Partial			1	0	1	3	1	0	0	0	0	0	6
2017	Total	5	3	0	3	0	1	0	0	1	1		ļ	15
	Partial	1	0	1	0	-	0	1	0	3	3			9
2018	Total	5	1	0	0	0	1	1		2	-	ļ	2	12
	Partial Total	0 4	0	0	1	0	0	0	1	0			<del>                                     </del>	9
2019	Partial	0	0	0	0	0	0	0	0		-		-	0
	ranial	U	U	U	U	U	0	0	- 0					U

### 1.5 BREAKDOWN OF PEAK & OFF PEAK GENERATION (NATIONAL PEAK & OFF PEAK)

1	ON	TURBINE	PEAK GE	, ,	OFF-PEAK GEN.(MW)				
	KAINJI	HYDRO	29	)1		263			
2	JEBBA	HYDRO	30	)1	İ	281			
3	SHIRORO	HYDRO	60	10		390			
4	EGBIN ST2 - 5	STEAM	45			278			
5	SAPELE	STEAM	47		0				
6	DELTA	GAS	47		330				
7 8	AFAM IV-V GEREGU GAS	GAS GAS	27			0 80			
9	OMOTOSHO GAS	GAS	135			103.9			
10	OLORUNSOGO GAS	GAS	102			83.1			
11	GEREGU NIPP	GAS	13			0			
12	SAPELE NIPP	GAS	72			70.7			
13	ALAOJI NIPP	GAS	70			72.2			
14	OLORUNSOGO NIPP	GAS	0			0			
15	OMOTOSHO NIPP ODUKPANI NIPP	GAS	69 256			73.9 159.4			
16 17	IHOVBOR NIPP	GAS GAS	102			75.2			
18	OKPAI	GAS	102			104			
19	AFAM VI	GAS	13			Ö			
20	IBOM POWER	GAS	62	.3		0			
21	ASCO	GAS	0			0			
22	A.E.S	GAS	0			0			
23	OMOKU	GAS	81			44.3			
24	TRANS AMADI	GAS	63			49.3			
25	RIVERS IPP	(GAS)	14			40			
26	AZURA - EDO IPP	(GAS)	13			125			
27	EGBIN ST6 PARAS ENERGY	(GAS)	67		ļ	0 65.7			
28	GBARAIN NIPP	(GAS)	72		65.7 72.4				
29	TOTAL	GAS	436		2761.1				
1.6	6025		430		1	2.0			
1.0	STATION	TURBINE	ENERGY GENERATED	AV. POWER GENERATED	ENERGY SENT OUT	AV. POWER SENT OUT			
			MWH	MWH/H	MWH	MWH/H			
1	KAINJI	HYDRO	6933.00	288.88	6917.90	288.25			
2	JEBBA	HYDRO	7409.00	308.71	7387.88	307.83			
3	SHIRORO	HYDRO	9895.00	412.29	9865.95	411.08			
4		STEAM	7930.00		7434.60				
	EGBIN ST2 - 5			330.42	472.80	309.78			
5	SAPELE	STEAM	563.30	23.47					
						19.70			
6	DELTA	GAS	8494.24	353.93	8279.20	19.70 344.97			
	DELTA AFAM IV-V			353.93 30.79	8279.20				
7	AFAM IV-V	GAS	738.90	30.79	8279.20 734.23	344.97 30.59			
7	AFAM IV-V GEREGU GAS	GAS GAS	738.90 2888.50	30.79 120.35	8279.20 734.23 2867.07	344.97 30.59 119.46			
7 8 9	AFAM IV-V GEREGU GAS OMOTOSHO GAS	GAS GAS GAS	738.90 2888.50 2876.75	30.79 120.35 119.86	8279.20 734.23 2867.07 2855.10	344.97 30.59 119.46 118.96			
7 8 9 10	AFAM IV-V GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS	GAS GAS GAS GAS	738.90 2888.50 2876.75 2346.00	30.79 120.35 119.86 97.75	8279.20 734.23 2867.07 2855.10 2326.79	344.97 30.59 119.46 118.96 96.95			
7 8 9 10	AFAM IV-V GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS GEREGU NIPP	GAS GAS GAS GAS GAS	738.90 2888.50 2876.75 2346.00 1500.50	30.79 120.35 119.86 97.75 62.52	8279.20 734.23 2867.07 2855.10 2326.79 1488.69	344.97 30.59 119.46 118.96 96.95 62.03			
7 8 9 10	AFAM IV-V GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS GEREGU NIPP SAPELE NIPP	GAS GAS GAS GAS GAS GAS	738.90 2888.50 2876.75 2346.00 1500.50 1736.50	30.79 120.35 119.86 97.75 62.52 72.35	8279.20 734.23 2867.07 2855.10 2326.79 1488.69 1723.96	344.97 30.59 119.46 118.96 96.95 62.03 71.83			
7 8 9 10	AFAM IV-V GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS GEREGU NIPP	GAS GAS GAS GAS GAS	738.90 2888.50 2876.75 2346.00 1500.50	30.79 120.35 119.86 97.75 62.52	8279.20 734.23 2867.07 2855.10 2326.79 1488.69	344.97 30.59 119.46 118.96 96.95 62.03			
7 8 9 10 11	AFAM IV-V GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS GEREGU NIPP SAPELE NIPP	GAS GAS GAS GAS GAS GAS	738.90 2888.50 2876.75 2346.00 1500.50 1736.50	30.79 120.35 119.86 97.75 62.52 72.35 71.80	8279.20 734.23 2867.07 2855.10 2326.79 1488.69 1723.96	344.97 30.59 119.46 118.96 96.95 62.03 71.83			
7 8 9 10 11 12 13	AFAM IV-V GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS GEREGU NIPP SAPELE NIPP ALAOJI NIPP OLORUNSOGO NIPP	GAS GAS GAS GAS GAS GAS GAS	738.90 2888.50 2876.75 2346.00 1500.50 1736.50 1723.31	30.79 120.35 119.86 97.75 62.52 72.35 71.80	8279.20 734.23 2867.07 2855.10 2326.79 1488.69 1723.96 1702.91 0.00	344.97 30.59 119.46 118.96 96.95 62.03 71.83 70.95			
7 8 9 10 11 12 13 14 15	AFAM IV-V GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS GEREGU NIPP SAPELE NIPP ALAOJI NIPP OLORUNSOGO NIPP OMOTOSHO NIPP	GAS	738.90 2888.50 2876.75 2346.00 1500.50 1736.50 1723.31 0.00 1721.80	30.79 120.35 119.86 97.75 62.52 72.35 71.80 0.00 71.74	8279.20 734.23 2867.07 2855.10 2326.79 1488.69 1723.96 1702.91 0.00 1704.10	344.97 30.59 119.46 118.96 96.95 62.03 71.83 70.95 0.00 71.00			
7 8 9 10 11 12 13 14 15	AFAM IV-V GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS GEREGU NIPP SAPELE NIPP ALAQJI NIPP OLORUNSOGO NIPP OMOTOSHO NIPP ODUKPANI NIPP	GAS	738.90 2888.50 2876.75 2346.00 1500.50 1736.50 1723.31 0.00 1721.80 5361.50	30.79 120.35 119.86 97.75 62.52 72.35 71.80 0.00 71.74 223.40	8279.20 734.23 2867.07 2855.10 2326.79 1488.69 1723.96 1702.91 0.00 1704.10 5329.80	344.97 30.59 119.46 118.96 96.95 62.03 71.83 70.95 0.00 71.00			
7 8 9 10 11 12 13 14 15 16 17	AFAM IV-V GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS GEREGU NIPP SAPELE NIPP ALAOJI NIPP OLORUNSOGO NIPP OMOTOSHO NIPP ODUKPANI NIPP IHOVBOR NIPP	GAS	738.90 2888.50 2876.75 2346.00 1500.50 1736.50 1723.31 0.00 1721.80 5361.50 2010.00	30.79 120.35 119.86 97.75 62.52 72.35 71.80 0.00 71.74 223.40 83.75	8279.20 734.23 2867.07 2855.10 2326.79 1488.69 1723.96 1702.91 0.00 1704.10 5329.80 1993.53	344.97 30.59 119.46 118.96 96.95 62.03 71.83 70.95 0.00 71.00 222.08 83.06			
7 8 9 10 11 12 13 14 15 16 17	AFAM IV-V GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS GEREGU NIPP SAPELE NIPP ALAOJI NIPP OLORUNSOGO NIPP OMOTOSHO NIPP ODUKPANI NIPP IHOVBOR NIPP OKPAI	GAS	738.90 2888.50 2876.75 2346.00 1500.50 1736.50 1723.31 0.00 1721.80 5361.50 2010.00 2739.00	30.79 120.35 119.86 97.75 62.52 72.35 71.80 0.00 71.74 223.40 83.75 114.13	8279.20 734.23 2867.07 2855.10 2326.79 1488.69 1723.96 1702.91 0.00 1704.10 5329.80 1993.53 2666.70	344.97 30.59 119.46 118.96 96.95 62.03 71.83 70.95 0.00 71.00 222.08 83.06 111.11			
7 8 9 10 11 12 13 14 15 16 17 18	AFAM IV-V GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS GEREGU NIPP ALAOJI NIPP OLORUNSOGO NIPP OMOTOSHO NIPP ODUKPANI NIPP IHOVBOR NIPP OKPAI AFAM VI	GAS	738.90 2888.50 2876.75 2346.00 1500.50 1736.50 1723.31 0.00 1721.80 5361.50 2010.00 2739.00 2817.27	30.79 120.35 119.86 97.75 62.52 72.35 71.80 0.00 71.74 223.40 83.75 114.13	8279.20 734.23 2867.07 2855.10 2326.79 1488.69 1702.91 0.00 1704.10 5329.80 1993.53 2666.70 2702.52	344.97 30.59 119.46 118.96 96.95 62.03 71.83 70.95 0.00 71.00 222.08 83.06 111.11 112.61			
7 8 9 10 11 12 13 14 15 16 17 18 19	AFAM IV-V GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS GEREGU NIPP SAPELE NIPP ALAOJI NIPP OLORUNSOGO NIPP OMOTOSHO NIPP ODUKPANI NIPP IHOVBOR NIPP OKPAI AFAM VI IBOM	GAS	738.90 2888.50 2876.75 2346.00 1500.50 1736.50 1723.31 0.00 1721.80 5361.50 2010.00 2739.00 2817.27 1039.27	30.79 120.35 119.86 97.75 62.52 72.35 71.80 0.00 71.74 223.40 83.75 114.13 117.39	8279.20 734.23 2867.07 2855.10 2326.79 1488.69 1702.91 0.00 1704.10 5329.80 1993.53 2666.70 2702.52 1031.00	344.97 30.59 119.46 118.96 96.95 62.03 71.83 70.95 0.00 71.00 222.08 83.06 111.11 112.61 42.96			
7 8 9 10 11 12 13 14 15 16 17 18	AFAM IV-V GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS GEREGU NIPP ALAOJI NIPP OLORUNSOGO NIPP OMOTOSHO NIPP ODUKPANI NIPP IHOVBOR NIPP OKPAI AFAM VI	GAS	738.90 2888.50 2876.75 2346.00 1500.50 1736.50 1723.31 0.00 1721.80 5361.50 2010.00 2739.00 2817.27	30.79 120.35 119.86 97.75 62.52 72.35 71.80 0.00 71.74 223.40 83.75 114.13	8279.20 734.23 2867.07 2855.10 2326.79 1488.69 1702.91 0.00 1704.10 5329.80 1993.53 2666.70 2702.52	344.97 30.59 119.46 118.96 96.95 62.03 71.83 70.95 0.00 71.00 222.08 83.06 111.11 112.61			
7 8 9 10 11 12 13 14 15 16 17 18 19	AFAM IV-V GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS GEREGU NIPP SAPELE NIPP ALAOJI NIPP OLORUNSOGO NIPP OMOTOSHO NIPP ODUKPANI NIPP IHOVBOR NIPP OKPAI AFAM VI IBOM	GAS	738.90 2888.50 2876.75 2346.00 1500.50 1736.50 1723.31 0.00 1721.80 5361.50 2010.00 2739.00 2817.27 1039.27	30.79 120.35 119.86 97.75 62.52 72.35 71.80 0.00 71.74 223.40 83.75 114.13 117.39	8279.20 734.23 2867.07 2855.10 2326.79 1488.69 1702.91 0.00 1704.10 5329.80 1993.53 2666.70 2702.52 1031.00	344.97 30.59 119.46 118.96 96.95 62.03 71.83 70.95 0.00 71.00 222.08 83.06 111.11 112.61 42.96			
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	AFAM IV-V GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS GEREGU NIPP ALAOJI NIPP OLORUNSOGO NIPP OMOTOSHO NIPP ODUKPANI NIPP IHOVBOR NIPP OKPAI AFAM VI IBOM ASCO AZURA - EDO IPP	GAS	738.90 2888.50 2876.75 2346.00 1500.50 1736.50 1723.31 0.00 1721.80 5361.50 2010.00 2739.00 2817.27 1039.27	30.79 120.35 119.86 97.75 62.52 72.35 71.80 0.00 71.74 223.40 83.75 114.13 117.39 43.30 0.00 127.38	8279.20 734.23 2867.07 2855.10 2326.79 1488.69 1702.91 0.00 1704.10 5329.80 1993.53 2666.70 2702.52	344.97 30.59 119.46 118.96 96.95 62.03 71.83 70.95 0.00 71.00 222.08 83.06 111.11 112.61 42.96 0.00 126.41			
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	AFAM IV-V GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS GEREGU NIPP SAPELE NIPP ALAOJI NIPP OLORUNSOGO NIPP OMOTOSHO NIPP IHOVBOR NIPP OKPAI AFAM VI IBOM ASCO AZURA - EDO IPP AE.S	GAS	738.90 2888.50 2876.75 2346.00 1500.50 1736.50 1723.31 0.00 1721.80 5361.50 2010.00 2739.00 2817.27 1039.27 0.00 3057.15	30.79 120.35 119.86 97.75 62.52 72.35 71.80 0.00 71.74 223.40 83.75 114.13 117.39 43.30 0.00	8279.20 734.23 2867.07 2855.10 2326.79 1488.69 1702.91 0.00 1704.10 5329.80 1993.53 2666.70 2702.52 1031.00 3033.80	344.97 30.59 119.46 118.96 96.95 62.03 77.83 70.95 0.00 71.00 222.08 83.06 111.11 112.61 42.96 0.00			
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	AFAM IV-V GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS GEREGU NIPP SAPELE NIPP ALAOJI NIPP OLORUNSOGO NIPP OMOTOSHO NIPP ODUKPANI NIPP IHOVBOR NIPP OKPAI AFAM VI IBOM ASCO AZURA - EDO IPP A.E.S. OMOKU	GAS	738.90 2888.50 2876.75 2346.00 1500.50 1723.31 0.00 1721.80 5361.50 2010.00 2739.00 2817.27 1039.27 0.00 3057.15 0.00	30.79 120.35 119.86 97.75 62.52 71.80 0.00 71.74 223.40 83.75 114.13 117.39 43.30 0.00 127.38 0.00 74.63	8279.20 734.23 2867.07 2855.10 2326.79 1488.69 1702.91 0.00 1704.10 5329.80 1993.53 2666.70 2702.52 1031.00 0.00 3033.80 0.00 1751.20	344.97 30.59 119.46 118.96 96.95 62.03 71.83 70.95 0.00 71.00 222.08 83.06 111.11 112.61 42.96 0.00 126.41 0.00 72.97			
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	AFAM IV-V GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS GEREGU NIPP SAPELE NIPP ALAOJI NIPP OLORUNSOGO NIPP OMOTOSHO NIPP OWOTOSHO NIPP IHOVBOR NIPP OKPAI AFAM VI IBOM ASCO AZURA - EDO IPP A.E.S OMOKU TRANS AMADI	GAS	738.90 2888.50 2876.75 2346.00 1500.50 1736.50 1723.31 0.00 1721.80 5361.50 2010.00 239.00 2817.27 0.00 3057.15 0.00 1791.00	30.79 120.35 119.86 97.75 62.52 72.35 71.80 0.00 71.74 223.40 83.75 114.13 117.39 43.30 0.00 74.43 57.74	8279.20 734.23 2867.07 2855.10 2326.79 1488.69 1702.91 0.00 1704.10 5329.80 1993.53 2666.70 2702.52 1031.00 0.00 3033.80 0.00 1751.20 1355.10	344.97 30.59 119.46 118.96 96.95 62.03 77.83 70.95 0.00 71.00 222.08 83.06 111.11 1112.61 42.96 0.00 126.41 0.00 72.97 56.46			
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22 23 24 25 26	AFAM IV-V GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS GEREGU NIPP SAPELE NIPP ALAOJI NIPP OLORUNSOGO NIPP OMOTOSHO NIPP IHOVBOR NIPP OKPAI AFAM VI IBOM ASCO AZURA - EDO IPP A.E.S OMOKU TRANS AMADI RIVERS IPP	GAS	738.90 2888.50 2876.75 2346.00 1500.50 1736.50 1723.31 0.00 1721.80 2010.00 2739.00 2817.27 0.00 3057.15 0.00 1791.00 1385.70 2432.70	30.79 120.35 119.86 97.75 62.52 72.35 71.80 0.00 71.74 223.40 83.75 114.13 117.39 43.30 0.00 127.38 0.00 74.63	8279.20 734.23 2867.07 2855.10 2326.79 1488.69 1702.91 10.00 1704.10 5329.80 1993.53 2666.70 2702.52 1031.00 0.00 3033.80 0.00 1751.20 1355.10 2422.00	344.97 30.59 119.46 118.96 96.95 62.03 71.83 70.95 0.00 71.00 222.08 83.06 111.11 112.61 42.96 0.00 126.41 0.00 72.97 56.46 100.92			
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22 23 24 25 26 27	AFAM IV-V GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS GEREGU NIPP ALAOJI NIPP OLORUNSOGO NIPP OMOTOSHO NIPP OMOTOSHO NIPP OKPAI AFAM VI IBOM ASCO AZURA - EDO IPP A.E.S OMOKU TRANS AMADI RIVERS IPP EGBIN ST6	GAS	738.90 2888.50 2876.75 2346.00 1500.50 1736.50 1723.31 0.00 1721.80 5361.50 2010.00 2739.00 2817.27 1039.27 0.00 3057.15 0.00 1791.00 1385.70 2432.70 0.00	30.79 120.35 119.86 97.75 62.52 72.35 71.80 0.00 71.74 223.40 83.75 114.13 117.39 43.30 0.00 127.38 0.00 74.63 57.74	8279.20 734.23 2867.07 2855.10 2326.79 1488.69 1702.91 0.00 1704.10 5329.80 1993.53 2666.70 2702.52 1031.00 0.00 3033.80 0.00 1751.20 1355.10 2422.00 0.00	344.97 30.59 119.46 118.96 96.95 62.03 71.83 70.95 0.00 71.00 222.08 83.06 111.11 112.61 42.96 0.00 126.41 0.00 72.97 56.46 100.92 0.00			
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22 23 24 25 26	AFAM IV-V GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS GEREGU NIPP SAPELE NIPP ALAOJI NIPP OLORUNSOGO NIPP OMOTOSHO NIPP IHOVBOR NIPP OKPAI AFAM VI IBOM ASCO AZURA - EDO IPP A.E.S OMOKU TRANS AMADI RIVERS IPP	GAS	738.90 2888.50 2876.75 2346.00 1500.50 1736.50 1723.31 0.00 1721.80 2010.00 2739.00 2817.27 0.00 3057.15 0.00 1791.00 1385.70 2432.70	30.79 120.35 119.86 97.75 62.52 72.35 71.80 0.00 71.74 223.40 83.75 114.13 117.39 43.30 0.00 127.38 0.00 74.63	8279.20 734.23 2867.07 2855.10 2326.79 1488.69 1702.91 10.00 1704.10 5329.80 1993.53 2666.70 2702.52 1031.00 0.00 3033.80 0.00 1751.20 1355.10 2422.00	344.97 30.59 119.46 118.96 96.95 62.03 71.83 70.95 0.00 71.00 222.08 83.06 111.11 112.61 42.96 0.00 126.41 0.00 72.97 56.46 100.92			

1.7A	GENERATION POSITION AT 06:00HRS OF FRIDAY 06/09/2019
1./A	CENERATION CONTON AT 00:001110 OF TRIBAT 00/03/2013

1.7A	STATIONS	NO OF UNITS INSTALLED	AVAILABLE UNITS	INSTALLED CAPACITY OF AVAILABLE UNITS(MW)	GENERATION CAPABILITY OF AVAILABLE UNITS(MW)	UNITS ON BAR	CAPABILITY OF UNITS ON BAR (MW)	GENERATION AT 06:00HRS (MW) AT 50.53Hz	REMARKS
	KAINJI HYDRO	8	1G5, 6, 11 & 12 4	440	330	1G5, 6, 11 & 12	330	244	1G7 - Out on stator winding failure. 1G8 - Out due to oil leakage on governor runner head. 1G9 - Out due to burnt 7.5MVA 33/0.415kV & 183.6MVA 16/330kV station service transformer and generator transformer. 1G10 - Shut down due to thrust bearing temperature problem.
	JEBBA HYDRO	6	2G1, 2, 4 & 5 4	385.6	380	2G1, 2, 4 & 5 4	380	288	2G1, 2, 4 & 5 - On frequency response. 2G3 - On maintenance. 2G6 - Out due to burnt generator winding and AVR.
	SHIRORO HYDRO	4	411G1 - 4 4	600	600	411G1 - 4 4	600	420	411G1 & 2 - Generation reduced due to low load demand by the Discos.
NIES	EGBIN STEAM	6	ST1, 2 & 5 3	660	600	ST1, 2 & 5 3	600	350	ST3 - Tripped on suspected control valve abnormal. ST4 - Out due to boiler feed pump problem. ST6 - Out due to un disclosed fault. Generation reduced due to low load demand by the Discos.
COMPANIES	SAPELE (STEAM)	6	GT3 1	120	60	GT3 1	60	37	ST1 - Tripped due to loss of control oil pump. ST2 & 4 - Out on fault. Generation reduced due to low load demand by the Discos.
/ATISED C	DELTA (GAS)	18	GT6, 7, 10 - 13, 15 16, 19 & 20 10	575	545	GT6, 7, 10 - 13, 16, 19 & 20	520	311	GT3 & 5 - Out on generator winding fault. GT4 - Out on loss of excitation. GT15 - Out due to low load demand by the Discos. GT8 & 14 - Out on major overhaul. GT17 & 18 - Out due to generator lockout problem. Generation reduced due to low load demand by the Discos.
PRI	AFAM IV & V (GAS)	8	GT18 1	120	50	GT18 1	50	31	GT11 - 12 - De-commissioned and scrapped. GT13, 14 & 16 - Out on blade failure. GT17 Out due to gas constraint. GT18 - Generation reduced due to low load demand by the Discos. GT19 & 20 - Awaiting major overhaul.
	GEREGU GAS	3	GT11 - 13 3	435	435	GT12 1	145	100	GT12 - Generation reduced due to low load demand by the Discos. GT11 & 13 - Out due to low load demand by the Discos.
	OMOTOSHO GAS	8	GT1, 4, 5, 7 & 8 5	210	190	GT4, 5, 7 & 8 4	152	121.5	GT1 - Out due to low load demand by the Discos. GT2, 3 & 6 - Out on gas constraint.
	OLORUNSOGO GAS	8	GT1 - 5 & 7 5	252	228	GT2, 4, 6 & 7 4	152	110.8	GT1 & 5 - Out due to low load demand by the Discos. GT6 & 8 - Out due to gas constraint. Generation reduced due to low load demand by the Discos.
	GEREGU NIPP	3	GT21 1	145	145	GT21 1	145	80	GT21 - Generation reduced due to low load demand by the Discos. GT22 & 23- Out due to gas constraint.
	SAPELE NIPP	4	GT2 1	112.5	110	GT2 1	110	70.1	GT1 & 3 - Out due to gas constraint. GT4 - Out on maintenance.
	ALAOJI NIPP	4	GT1 1	125	110	GT1 1	110	54.2	GT1 - Generation reduced due to low load demand by the Discos. GT2 - Out due to high air inlet differential pressure. GT3 - Out due to lack of spare part. GT4 - Tripped on over voltage lockout relay trip.
MPP	OLORUNSOGO NIPP	6	0	0	0	0	0	0	GT1 - 3 - Out due to gas constraint. GT4 - Out due to ignition failure and control relay failure alarm. ST13 & ST23 - Out on maintenance.
Z	OMOTOSHO NIPP	4	GT2 1	120	120	GT2 1	120	69.8	GT1 - Out on maintenance. GT3 - Out due to gas constraint. Generation reduced due to low load demand by the Discos
	ODUKPANI NIPP	5	GT1 - 4 4	480	440	GT1 & 2 2	220	156.9	GT2 - Generation reduced due to low load demand by the Discos. GT3 & 4 - Out due to low load demand by the Discos. GT5 - Out on E/F.
	IHOVBOR NIPP	4	GT2	112.5	110	GT2	110	78.6	GT1 - On manual adjustment. GT3 & 4- Out on maintenance.
	GBARAIN NIPP	1	0	0	0	0	0	0	GT2 - Out due to gas constraint.
	OKPAI GAS/STEAM	3	GT11 & 12 2	300	300	GT11 & 12 2	300	104	GT11 & 12 - Generation reduced due to low load demand by the Discos.
	AZURA - EDO	3	GT11 - 13 3	461	459	GT13 1	306	125	GT11 & 12 - Out due to low load demand by the Discos. Generation reduced due to low load demand by the Discos.
	AFAM VI GAS/STEAM	4	GT12, 13 & ST10 3	500	450	GT13 1	150	106	GT11 - Tripped on undisclosed fault. GT12 & ST10 - Out due to low load demand by the Discos. GT13 - On frequency response.
	IBOM POWER GAS	3	GT3 1	112.5	110	GT3 1	110	33.2	GT1 & 2 - Out due to fire outbreak on the control panel. Generation reduced due to low load demand by the Discos
Ы	AES	9	0	0	0	0	0	0	Out of production since 27/09/2014.
	ASCO	2	0	0	0	0	0	0	ST1 - Out due to leakage in the furnace.
	OMOKU GAS	6	GT3 - 6	100	80	GT3, 4 & 6	60	51.3	GT1 -Tripped on exhaust spread temperature high. GT2- Out on high vibration. GT5 - Out due to low load demand by the Discos.
	TRANS-AMADI	4	GT1, 2 & 4 3	75	70	GT1, 2 & 4 3	70	52.4	GT3 - Out on generator transformer limitation. Generation reduced due to low load demand by the Discos
	RIVERS	1	GT1 1	180	160	GT1 1	160	80	GT1 - Generation reduced due to low load demand by the Discos.
	SUB TOTAL	141	66	6621.1	6082	54	4960	3074.8	Frequency = 50.53Hz.

1	1.7B GENERATION POSITION AT 06:00HRS OF FRIDAY 06/09/2019 FOR UNITS ON BILATERAL AGREEMENT											
		PARAS ENERGY	8	GT3 - 10	70	67.3	GT3 - 10	67.3	67.3 67.3 A	Available units on bar.		
		PARAS ENERGY	Ů	8	.,	57.5	8	00				
		SUB TOTAL	8	8	70	67.3	8	67.3	67.3			
		GRAND TOTAL	149	74	6691.1	6149.3	62	5,027.30	3142.1	Frequency = 50.53Hz.		

1.7C	BILATERAL AGREEMENT UNITS DISPATCH - THURSDAY 05/09/2019 EGBIN ST6 5MW GENERATION TO IKEJA ELECTRICITY DISTRIBUTION COMPANY											
		E	GBIN ST6 5MW GI	ENERATION T	0 IKEJA ELEC	TRICITY DISTRIE	BUTION COMP	PANY				
	FEEDERS NAME	MAX. LOAD (MW)	TIME (HRS)	MIN LOAD (MW)	TIME (HRS)	HRS IN SERVICE	TOTAL (MWH)	REMARK				
	U-STEEL	1	0100HRS			24		NIL				
3A	PTC EXPRESS	7	1600HRS			24		NIL				
ОСВА	SANKYO	3	0900HRS			24		NIL				
	FEEDER 8	12	1800HRS			24		NIL				
	PULK IT	1	0100HRS			24		NIL				
_	INDUSTRIAL 8		0900HRS		24			NIL				
IKORODU	SPINTEX	ON	0100HRS			24		NIL				
	DANGOTE	3	0600HRS		24			NIL				
	LAND CRAFT	1	0100HRS			24		NIL				
	TR4 - 15MVA	6	1000HRS			24		NIL				
ALAUSA	TR5 -15MVA	6	1000HRS			24		NIL				
	ALAUSA	17.5	1100HRS			24		NIL				
M/LAND	PTC (MARYLAND)	21	1300HRS			22		NIL				
	TOTAL LOAD	86.5										

BILATERAL AGREEMENT LOAD DISPATCH 60MW PARAS ENERGY GENERATION TO CEB OF THURSDAY 05/09/2019											
MAX LOAD (MW)	TIME (HRS)	MIN LOAD (MW)	TIME (HRS)	HOURS IN SERVICE	TOTAL (MWH)	REMARK					
69.5	17:00	64.1	03:00	24	1579	NIL					

				BILATERAL AGREEM	IENT MAIN S	TREAM ENERGY I	KAINJI THURSE	OAY 05/09/2019	
COMPANY NAME	VOL- TAGE LEVEL	CON-TRAC- TUAL LOAD (MW)	MAX LOAD (MW)	TIME	MIN LOAD (MW)	TIME	HOURS IN SERVICE	TOTAL (MWH)	REMARK
INNER GALAXY		0	ON	ON	ON	ON	ON	ON	ON
KAM STEEL 2	132kV line 2	25.0	20.5	16:00	0.1	21:00	24	103.6	NO TIME OUT
ASHAKA CEMENT		0	11.6	03:00	8.5	13:00	24	244	NO TIME OUT
XING 1		0	21.6	20:00	3	21:00	24	341.65	NO TIME OUT
XING 2		0	18.3	08:00	1.2	23:00	24	270.4	NO TIME OUT
KAM INTEGRATED	33kV	15	5	12:00	1.4	01:00	24	67.9	NO TIME OUT
OLAM FLOUR MILLS	feeder	3	2.2	18:00	0.8	04:00	24	33.3	NO TIME OUT
LORDSMITH		3	0.6	09:00	0.4	02:00	24	13.3	NO TIME OUT
KAM STEEL LINE 1		0	8	19:00	1.3	0.46	24	86.8	NO TIME OUT

#### 1.8 HYDROLOGICAL DATA: FRIDAY 06/09/2019

	KAINJI	JEBBA	SHIRORO
HEAD WATER ELEVATION (METERS)	137.65	102.95	376.54
TAIL WATER ELEVATION (METERS)	105.04	75.3	270.5
GROSS OPERATING HEAD (METERS)	32.61	27.65	106.04
AVERAGE TURBINE DISCHARGE (M3/SEC)	993.00	1250.00	454.00
AVERAGE SPILLAGE (M3/SEC)	617.00	1280.00	454.00
AVERAGE TOTAL STATION DISCHARGE (M3/SEC)	1610.00	2530.00	908.00
COMPUTED INFLOW (M3/SEC)	5035.00	2495.00	486.00
STORAGE DIFFERENTIAL	3425.00	-35	-422
MAXIMUM LEVEL FOR SPILLAGE COMMENCEMENT	141.73	103	382.50
MINIMUM LEVEL BELOW WHICH NO GENERATION	130	99	355.00

#### 1.9 MAXIMUM/ALLOCATED LOAD/MINIMUM LOADS FOR ABUJA AND LAGOS AS AT THURSDAY 05/09/2019

	MAXIMUM LOAD (MW)	TIME (HRS)	ALLOCATED LOAD (MW)	MINIMUM LOAD (MW)	TIME (HRS)
ABUJA	494.5	21:00	503.23	134.1	07:00
EKO	461.9	15:00	581.35	282.6	08:00
IKEJA	606.5	23:00	756.39	391.8	04:00

# 2.0 GAS POSITION: FRIDAY 06/09/2019

STATION	SIGNED ACQ Annual Contracted Quantity MMSCF/D	INSTALLED CAPACITY OF THERMAL STATIONS (MW)	PREVIOUS DAY OFF-TAKE (MMSCF/D)	CAPABILITY OF UNITS ON BAR OF THERMAL STATIONS (MW)	DIFFERENCE (MW)
EGBIN P/S	265	1100		600	500
DELTA (GAS)	305	915		545	370
OMOTOSHO GAS	100.4	336.8		152	184.8
OMOTOSHO NIPP	104.3	500		120	380
OLORUNSOGO (GAS)	233.4	336		152	184
OLORUNSOGO NIPP	0	750		0	750
SAPELE NIPP	87.2	500		110	390
SAPELE STEAM	47	720		50	670
AFAM IV-V	50	300		50	250
AFAM VI	220	650		150	500
GEREGU GAS	216	435		145	290
GEREGU NIPP	80	435		145	290
OKPAI (GAS/STEAM)	170	480		300	180
ALAOJI NIPP	0	504		112.5	391.5
IHOVBOR NIPP	114	337.5		110	227.5
IBOM	88.9	198		110	88
ODUKPANI NIPP	206.4	625		220	405
TOTAL	2287.6	9122.30		3071.5	6050.8

1 MMSCF IS EQUIVALENT TO 3.75MW

#### 3.0 SPINNING RESERVE FOR: THURSDAY 05/09/2019

	(MW)	TIME	FREQUENCY				
Maximum (MW)							
Minimum (MW)							
AVERAGE (MW)							

DAILY OPERATIONAL REPORT

#### 3.1 SYSTEM SPINNING RESERVE AS AT 0600HRS OF FRIDAY 06/09/2019 = FREQUENCY = 50.53Hz.

S/N	POWER STATION	UNIT ON SPINNING RESERVE	CONTRACTED RESERVE	ACTUAL RESERVE (MW)	TOTAL (MW)
		ST2		0	
		ST4	400	0	_
1	Egbin	ST5	100	0	0
		ST6		0	
2	Delta	GT16	40	0	0
-	Dona	GT17	40	0	Ÿ
	Olorunsogo NIPP	GT1	40	0	
3		GT2		0	0
-		GT3		0	
		GT4		0	
4	Geregu NIPP	GT22	35	0	0
		GT1	40	0	
5	Omotosho NIPP	GT2 GT3		0	0
		GT4		0	
	TOTAL (MW)		295	0	0

### 4.0 UN-UTILIZED GENERATION CAPABILITY

S/N	STATION	ACTUAL GENERATION CAPABILITY (MW)	GENERATION AT 0600HRS (MW)	UNAVAILABLE GENERATION CAPABILITY (MW)	SUB -TOTAL
	4.1 DU	JE TO LINE CONSTR	AINTS		
				0	
				0	0
				0	1
				0	
		4.2 DUI	E TO LOW LOAD	DEMAND BY THE I	DISCOS
				0	
1	Olorunsogo gas GT1 - 5 & 7	228	110.8	117.2	
2	Geregu Gas GT11 - 13	435	100	335	
3	Odukpani NIPP GT2 - 4	330	66.6	263.4	
4	Azura-Edo GT11 - 13	459	125	334	
5	Egbin ST1, 2 & 6	600	350	250	
6	Shiroro 411G 1 & 2	300	120	180	
7	Okpai GT11 & 12	300	104	196	
8	Afam VI GT12 & ST10	285	0	285	
9	Delta GT15, 16, 19 & 20	425	200	225	2497
10	Omotosho Gas GT1, 4, 5, 7 & 8	190	121.5	68.5	
11	Afam IV GT18	50	31	19	
12	Geregu NIPP GT21	145	80	65	
13	Omotosho NIPP GT3	120	69.8	50.2	
14	Omoku GT3 - 6	80	51.3	28.7	
15	Rivers IPP GT1	160	80	80	
16	Alaoji NIPP GT1	110	54.2	55.8	
17	Trans-Amadi GT1, 2 & 4	70	52.4	17.6	
18	Ibom GT3	110	33.2	76.8	
	4.3 DU	E TO WATER MANAGE	MENT	•	
			0	0	
				0	0

5 (A)	FORCED OUTAGES (GENERATION):		
1	01:46 through 24:00Hrs, Jebba 2G3 tripped on generator stator ground fault. LHR = 80MW.		
		5 (F)	AUTOMATIC UNDER FREQUENCY OPERATION:- NIL
	FORCED OUTAGES (TRANSMISSION):		
	11:33 - 11:44Hrs, New Haven T/S 60MVA 132/33kV transformer TR4 primary CB tripped on differential relay. LHR = 1.8MW.		
2	16:18 – 18:28Hrs, Ajahl/Lekki 330kV line (cct J1E) CBs tripped at both ends on the following relay indications:  At ajah T/S: Distance protection O/C 3-Phases and zone 1 trip.  At Lekki T/S: Distance protection O/C 3-Phases and zone 1 trip.  LHR = 55MW.		
3	16:18 through 24:00Hrs, Ajah T/S 100MVA 132/33kV transformer T7 primary CB tripped on Buchholz relay. LHR = 24MW.		
4	16:36 – 17:47Hrs, Alaoji/Afam 132kV line 2 CB tripped only at Afam T/S on O/C Red & Yellow Phases pickup. LHR = 36.3MW.	5 (G)	330KV LINES THAT ARE OUT ON VOLTAGE CONTROL:- ccts U1A,K3U, B11J & K1U.
5	16:36 – 18:44Hrs, Alaoji/Umuahia 132kV line 1 CB tripped at Alaoji T/S on Micom relay – zone 1 trip, trip Phases A, B & N. distance trip = zone 1, O/C trip 1> 2, E/F trip IN > 2, duration = 62ms, location = 30.72km, 2x3 Phases trip. LHR = 10MW.		
6	19:19 – 19:33Hrs, Egbin/Ajah 330kV line 2 (cct N4J) CBs tripped at both ends on following relay indications::  At Egbin T/S: Siprotec relay – E/F, Red, Yellow & Blue Phases, distance = 42.5km.  At Ajah T/S: Without relay indication. LHR = 176MW.	5 (H)	330KV LINES THAT ARE OUT DUE TO DEFECTIVE CIRCUIT BREAKER: - cct A2K.
7	16:54 – 18:44Hrs, Sokoto/Talata-Mafara 132kV line CB tripped at Sokoto T/S on E/F relay. LHR = 1.2MW.		
5 (C)	PLANNED OUTAGES:-		
1	09:02 – 15:02Hrs, Kainji/Jebba 330kV line 2 (cct K2J) was taken out for maintenance crew to carry out annual maintenance of the CB and associated equipment. No load was interrupted as cct K1J was in service.	5 (I)	330KV LINES THAT ARE OUT ON PLANNED OUTAGE:- NIL
2	11:05 – 17:20Hrs, Ayede/Shagamu 132kV line was taken out for maintenance crew to cut over grown trees along the line between towers #442 – 445, 433 – 435, 546 – 548 & 466 – 469. Load loss = 28MW.		
3	11:58 – 15:05Hrs, Agbara T/S 132kV bus couple CB was taken out to allow maintenance crew change the broken shaft on the bus isolator with new one. Load loss = 30MW.	5 (J)	330KV LINES THAT ARE OUT ON LINE FAULT:- cct K4U
5 (D)	URGENT OUTAGES		
1	11:45 – 12:40Hrs, Alagbon T/S 60MVA 132/33kV transformer T12 was taken out to allow maintenance crew connect supply to filtration machine from 300KVA GT12 to carry out	5 (K)	330KV LINES THAT ARE ON SOAK:- ccts F1K & N4J
2	oil filtration on the newly installed 100MVA transformer. Load loss = 35MW.  16:40 – 18:10Hrs, Potiskum T/S 30MVA 132/33kV transformer T2 was taken out due to shattered 33kV bus bar Red Phase isolator insulator. Load loss = 12.8MW.		
2	10-40 - 10-10 its, Potestulii 173 Surinya 132/Suky tialisiotiinei 12 was taken out uue to sitatueled Suky tida bai Neu Pitase Bollatoi Ilisulatoi. Lodd toss - 12-biinya.		
		5 (1 )	330KV LINES THAT ARE OUT ON PLANNED OUTAGE:- NIL
		3 (L)	SOUND LINES THAT ARE OUT ON FLANNED OUTAGE.
6	GENERATOR MERIT ORDER BASED ON SYSTEM RESPONSE AND GRID RELIABILITY	6	WEATHER REPORT:- Rainfall was reported at Benin, Osogbo, Alaoji, Lokoja & Umuahia
	GROUP 1 - HYDRO UNITS (LEAST COST) ON FREE GOVERNOR CONTROL AND ANCILLARY SERVICE.		
	GROUP 2A - UNITS WITH EFFECTIVE POWER PURCHASE AGREEMENT (PPA)		
	GROUP 2B - OTHER GENERATING UNITS IDENTIFIED TO BE ON FREE GOVERNOR CONTROL.		
	GROUP 3 - OTHER UNITS IDENTIFIED TO BE OFFERING REGULATORY RESERVE.	7	INTERNATIONAL LINES:-
	GROUP 4 - OTHER UNITS OFFERING SPINNING RESERVE (THE POWER PLANTS CONTRACTED FOR THE ANCILLARY SERVICE).	A	IKEJA WEST/SAKETE 330KV LINE(TCN+PARAS) Maximum load - 100MW at 21:00Hrs. Minimum load - 65.0MW at 07:00Hrs.
	GROUP 5 - ALL PLANTS DISPATCHED SUBJECT TO TRANSMISSION CONSTRAINT (NOT YET IDENTIFIED).	В	Maximum load - 120MW at 22:00Hrs. Minimum load - 102.0MW at 08:00Hrs.
	GROUP 6 - ALL PLANTS PROVIDING VOLTAGE SUPPORT ABOVE STATUTORY LIMIT (NOT YET IDENTIFIED).	С	KATSINA/GAZAOUA/MARADI 132KV LINE Maximum load - 45.1MW at 23:00Hrs. Minimum load - 32.0MW at 06:00Hrs.

5 (E) EMERGENCY OUTAGES:- NIL

5. 0 OUTAGES:

5 (A) FORCED OUTAGES (GENERATION):

#### 11A COMMUNICATION MEDIA

STATIONS	NO INSTALLED	NO. WORKING
PLC/PAX	38	33
OPTIC FIBRE	13	9
PLS	14	4

#### 11B SCADA RTU STATUS

STATIONS	NO. INSTALLED	NO OF RTU DISTURBED	NO OF RTU WORKING
POWER STATIONS	8	5	3
330kV	19	5	14
132kV	102	78	24

#### 12(A) UNAVAILABLE TRANSFORMERS/REACTORS:

#### SHIRORO REGION:

Birnin Kebbi 75MX Reactor R1.

#### ABUJA REGION

Apo T/S 60MVA 132/33kV Transformer TR3 - Burnt.

KADUNA REGION: Kumbotso 150MVA 330/132/33kV Transformer T1A - Burnt control cables.

BAUCHI REGION:

## Gombe T/S - 30MX Reactor R2A.

FNUGU REGION: Onitsha T/S 90MVA 330/132/13.8kV Transformer 9T2 - Out due to differential fault.

# LAGOS REGION:

Oke-Aro T/S: 75MX Reactor R1.

#### PORT HARCOURT REGION

Ikot-Ekpene T/S: No reactor installed

#### 12 (B) UNAVAILABLE BREAKERS/ISOLATORS

#### LAGOS REGION:

- Akangba T/S. 132kV Bus Coupler CB Serious Air leakage.(Undergoing repair)
- Egbin/Aja 330kV line 2 (cct N4J) faulty breaker at Aja T/S
- Otta/Ogba 132kV line isolator defective control shaft.
- Osogbo/lkeja West and Olorunsogo/lkeja West tie CB at lkeja West T/S defective pole .
- Oke-Aro/lkeja West 330kV lines 1 & 2 tie CB at lkeja West T/S Defective pole.
- Egbin/Oke-Aro 330kV line 2 (N8K) Defective. Needs replacement.

#### 8 MISCELLANEOUS

- 00:26 09:21Hrs, Afam IV GT18 was shut down due to low load demand by the Discos. Load loss = 30MW.
- 2 00:44 09:43Hrs, Geregu NIPP GT21 was shut down due to low load demand by the Discos. Load loss =116MW.
- 00:45 15:19Hrs, Odukpani NIPP GT1 was shut down due to low load demand by the Discos. Load loss = 100MW
- 06:05Hrs, Jebba 2G4 was tied. The unit was out due to low load demand by the Discos.
- 06:11 11:10Hrs, lkot-Ekpene/Ugwuaji 330kV line 3 (cct K3U) was taken out for voltage control. V/P: 351/348kV.
- 06:41 11:31Hrs, Ibom Power GT3 was shut down due to low load demand by the Discos. Load loss = 46MW.
- 06:50 08:31Hrs, Omoku GT6 was shut down due to low load demand by the Discos. Load loss = 16MW.
- 8 06:43 21:59Hrs, Olorunsogo gas GT4 was shut down due to low load demand by the Discos. Load loss = 46MW.
- 9 07:14 11:41Hrs, Lokoja/Gwagwalada 330kV line 2 (cct L7G) was taken out for voltage control. V/P: 357/353kV.
- 08:45Hrs, Asaba/Onitsha 330kV line (cct D3T) and Onitsha/GCM 132kV line were restored after the linking of the 132kV line to the 330kV line. Note: Asaba T/S 150MVA 330/132/33kV Transformer is still out on fault.
- 09:51Hrs, Delta GT7 was tied. The unit was out due to low load demand by the Discos.
- 11:28Hrs, Odukpani GT4 was tied. The unit was out due to low load demand by the Discos.
- 13 11:31Hrs. Sapele ST3 was tied. The unit was out on fault.
- 11:45Hrs. Omotosho GT7 was tied. The unit was out due to low load demand by the Discos.
- 12:14Hrs, Itire 132/33kV transformer T1 was restroed. The transformer tripped at 21:25Hrs of 04/09/2019.
- 16:19 -19:38Hrs, Jebba 2G5 was shut down due to load demand by the Discos. Load loss = 73MW.
- 17 15:31 through 24:00Hrs, Odukpani NIPP GT4 was shut down due to load demand by the Discos. Load loss = 106.8MW.
- 18 16:19 -19:38Hrs, Jebba 2G5 was shut down due to load demand by the Discos. Load loss = 73MW.
- 21:24Hrs, Geregu Gas GT13 was tied. The unit was out due to load demand by the Discos.
- 20 21:11Hrs. Ikeia West T/S 75MX 330kV shunt Reactor R1 was switched off on voltage control. V/P: 318/321kV.
- 21 23:30 through 24:00Hrs, Odukpani NIPP GT3 was shut down due to low load demand by the Discos. Load loss = 70.7MW.
- 22 23:37 through 24:00Hrs, Geregu GT13 was shut down due to low load demand by the Discos. Load loss = 118MW. 23 23:50 through 24:00Hrs, Delta GT15 was shut down due to low load demand by the Discos. Load loss = 76MW.
- THE SCADA COVERAGE OF ONLY LIMITED AREAS IS NOT GOOD FOR THE SMOOTH OPERATION OF THE GRID.
- LACK OF REACTOR AND UNRELIABLE STATION SERVICE SUPPLY AT IKOT-EKPENE T/S ARE HINDERING SMOOTH OPERATION.

#### 12(D) LINAVAILABLE CAPACITOR BANK-

1 (i) Ogba T.S, (ii) Maiduguri T/S, (iii) Isolo T/S, (iv) Ado-Ekiti T/S, (v) Ilorin T/S, (vi) Akure T/S.

#### 12(E) UNAVAILABLE SKYWIRES

#### LAGOS REGION

- Omotosho/Ikeja West line (M5W) and Egbin/Ikeja West line 3 (N6W) 21 spans.
- Ikeja West/Olorunsogo line (cct R1W) 80 spans.
- 330kV Ikeja West/Osogbo line. 95 spans
- Ikeja West/Alimosho/Ogba 132kV lines 1 & 2 15 spans.
- Ikeja West/Akangba 330kV line 2 1 span.
- Ikeja West/ Ilupeju 132kV lines 1 & 2 8 spans.
- Akangba/Itire 132kV lines 1 & 2 1 span
- Ikeja West/Agbara 132kV lines 1 & 2 61 spans.
- 9 Ikeja West/Otta 132kV lines 1 & 2- 17 spans.

#### SHIRORO REGION

- 1 Jebba T/S 330kV Osogbo lines 1 & 2 and Ganmo line 9 spans
- 2 Minna T/S 132kV Bida line 32 spans
- 3 Shiroro T/S 330kV Jebba line 2 28 spans

#### ABUJA REGION

1 Apo T/S 132kV Keffi line - 36 spans

# 12 (F) UNAVAILABLE SYNCHROSCOPES :

DAILY OPERATIONAL REPORT

- 7 Egbin/lkeja-West Tie CB Defective. Needs replacement.
- 8 Egbin/Aja 330kV line 3 (cct N3J) Tie CB defective. Needs replacement.

#### BENIN REGION:

1 Omotosho T/S 330kV, 2nd series 330kV CB #3322 out due to control circuit problem.

#### PORT HARCOURT REGION:

1 cct A1K CB

#### ENUGU REGION:

- 1 New Haven/Yandev 132kV line CB Faulty Red phase CB pole. Protection is transferred to the bus coupler CB.
- 2 Abakaliki T/S 30MVA 132/33kV transformer T1A and 60MVA 132/33kV transformer T2 primary CBs Breakers were not provided since commissioning but the transformers are protected by Nkalagu 132kV line CB.
- 3 Oji River T/S 30MVA 132/33kV transformer T1A primary CB The breaker is completely out of service and bypassed. The transformer is either protected by Onitsha/Oji 132kV line e AGM (S/O) 08105894708, CUG: 07016228668 CB or New Haven/Oji 132kV line CB.
- Oturkpo/Yandev 132kV By pass isolator Canibalized to repair the line isolator.
- New Haven/Nkalagu 132kV line 2 ground switch Canibalized Red phase female contact and canibalized Yellow phase male contact.

SHIRORO REGION
Jebba T/S 75MX reactor 2R2 CB - exploded.

#### ABUJA REGION

1 Gwagwalada/Katampe 330kV line CB cct J5B - Faulty breaker at Gwagwalada T/S

### CRITICAL VOLTAGE NODES IN THE GRID

S/N	NODE	VOLTAGE	REMARKS
1	Lokoja T/S	356kV	One Reactor in service.
2	Ugwuaji T/S	355kV	No Reactor
3	New Haven T/S	353kV	No Reactor
4	Gwagwalada T/S	353kV	No Reactor
5	Makurdi T/S	353kV	
6	Sapele T/S	352kV	Low VAR absorption by Sapele P.S/NIPP

1 Ikeja West, Onitsha, Egbin, Ugwuaji, Jos, Gwagwalada & Alaoji T/S.

#### FOR MORE INFORMATION: NCC Telephone Lines -

- 1 Ikeja West, Onitsha, Egbin, Ugwuaji, Jos, Gwagwalada & Alaoji T/S.
- a PAX 09/300, 309, 303 & 305.
- NCC GSM 08074888524, 08069379367, 08023572651 & 08051401331. CUG Nos. 08129458488, 08129458489, 08129929806; 08036665323.
- PLS 622 С
- d GM (NCC) 08036744641.
- f NCC e-mail address nationalcontrol@gmail.com
- g SYSTEM OPERATIONS WEB SITE: www.nigeriasystemoperator.org.