TRANSMISSION COMPANY OF NIGERIA

To: Head (ISO), TCN - Abuja From: General Manager, NCC, Osogbo

From: General Manager, NCC, Osogbo

DAILY OPERATIONAL REPORT OF SATURDAY 14/04/2018

FOR: EVENTS OF FRIDAY 13/04/2018

1.0 EXECUTIVE OPERATIONS SUMMARY:

1.1 GENERATION PROFILE: NATIONAL STATISTICS

DETAILS	MW	HRS	DATE
PEAK DEMAND FORECAST (CONNECTED + SUPPRESSED LOAD)	23,030	22:00	13/04/2018
GENERATION CAPABILITY	6917.7	-do-	-do-
UNITS ON BAR CAPABILITY AT PEAK	5144.2	-do-	-do-
PEAK GENERATION	4611.8	-do-	-do-
LOWEST GENERATION	596	10:00	13/04/2018
	3919.8	0100-0800	-do-
8-HOURLY DURATION PEAK	4030.4	0900-1600	-do-
	4611.8	1700-2400	-do-
PEAK GENERATION TO DATE	5222.3	21:00	18/12/2017
MAXIMUM AVAILABLE CAPACITY TO DATE	7652.6	06:00	14/04/2014
MAXIMUM ENERGY GENERATED (MWH) TO DATE	109.372.01	0000-2400	02/02/2016

1.2 CRITICAL VOLTAGE

DETAILS	KV	STATION	HRS
NOMINAL VOLTAGE	330		
STATUTORY LIMITS	280.5 - 346.6		
HIGHEST VOLTAGE FOR THE DAY	351	Gwagwalada T/S	12:00
LOWEST VOLTAGE FOR THE DAY	295	Akangba T/S	17:00

1.3 FREQUENCY RANGE

	ΠZ	СЯП
NOMINAL FREQUENCY	50	
STATUTORY LIMITS	49.75 - 50.25	
HIGHEST FREQUENCY	50.98	09:38
LOWEST FREQUENCY	48.60	09:07

1.4 SYSTEM COLLAPSE UP DATE Date of last total collapse: 1st Feb., 2018

1.4														
							No. of days since last total collapse: 65							
		collapse: 12 ^t					No. of days since last partial collapse: 01							
Highest I	No of days ev	er attained in-	between	total collapses: 1	34		Highest No of days ever attained in-between partial collapses: 240							
		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
	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	-	1	1	8
2013	Total		1	2	2	3	4	1	1	1	1	4	2	22
2010	Partial	-								2				2
2014	Total	2			2	0	3	1	0	0	1	0	0	9
2011	Partial			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
2013	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	1	1	0	0	1	1			15
	Partial	1	0	1	0	0	0	1	0	3	3			9
2018	Total	5	1	0										6
_0.0	Partial	0	0	0	1									1

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

STA	TION	TURBINE	PEAK GE	N. (MW)	OFF-PEAK GEN	I.(MW)
1	KAINJI	HYDRO	363	3		81
2	JEBBA	HYDRO	252	2		0
3	SHIRORO	HYDRO	198	3		0
4	EGBIN ST2 - 5	STEAM	363			0
5	SAPELE	STEAM	0		0	
6	DELTA	GAS	490)	230	
7	AFAM IV-V	GAS	0			0
8	GEREGU GAS	GAS	368			0
9	OMOTOSHO GAS	GAS	205.8			0
10	OLORUNSOGO GAS	GAS	162			0
11	GEREGU NIPP	GAS	242 190			0
12	SAPELE NIPP ALAOJI NIPP	GAS GAS	190	.9		0
14	OLORUNSOGO NIPP	GAS	191.	1		0
15	OMOTOSHO NIPP	GAS	107			0
16	ODUKPANI NIPP	GAS	200			19.5
17	IHOVBOR NIPP	GAS	0			0
18	OKPAI	GAS	125	5		0
19	AFAM VI	GAS	280			0
20	IBOM POWER	GAS	106	.7		93.6
21	ASCO	GAS	0			0
22	A.E.S	GAS	0			0
23	OMOKU	GAS	76.	1		66.9
24	TRANS AMADI	GAS	0			0
25	RIVERS IPP	(GAS)	158			105
26	AZURA - EDO IPP	(GAS)	462	<u> </u>		0
27	EGBIN ST6	(GAS)	0	2		0
28	PARAS ENERGY GBARAIN NIPP	(GAS)	70.:	<u> </u>	-	0
29		GAS	0 4611	0		596
	TOTAL	VENEDOV OF		.0		-
6	ENERGY GENERATED		NT OUT:			
6		/ENERGY SE	ENT OUT: ENERGY GE	NERATED	ENERGY	SENT OUT
	STATION	TURBINE	ENT OUT: ENERGY GE MWH	NERATED MWH/H	ENERGY MWH	SENT OUT
1	STATION KAINJI	TURBINE HYDRO	ENT OUT: ENERGY GE MWH 7499.00	NERATED MWH/H 312.46	ENERGY MWH 7482.30	' SENT OUT
1 2	STATION KAINJI JEBBA	TURBINE HYDRO HYDRO	ENT OUT: ENERGY GE MWH 7499.00 5696.00	NERATED MWH/H 312.46 237.33	ENERGY MWH 7482.30 5670.88	SENT OUT MWH/H 311.76 236.29
1 2 3	ENERGY GENERATED STATION KAINJI JEBBA SHIRORO	HYDRO HYDRO HYDRO HYDRO	NT OUT: ENERGY GE MWH 7499.00 5696.00 3807.00	NERATED MWH/H 312.46 237.33 158.63	ENERGY MWH 7482.30 5670.88 3775.18	SENT OUT MWH/H 311.76 236.29 157.30
1 2 3 4	ENERGY GENERATED STATION KAINJI JEBBA SHIRORO EGBIN ST2 - 5	HYDRO HYDRO HYDRO STEAM	ENT OUT: ENERGY GE MWH 7499.00 5696.00	NERATED MWH/H 312.46 237.33 158.63 314.67	ENERGY MWH 7482.30 5670.88	SENT OUT MWH/H 311.76 236.29 157.30 298.58
1 2 3 4 5	ENERGY GENERATED STATION KAINJI JEBBA SHIRORO EGBIN ST2 - 5 SAPELE	HYDRO HYDRO HYDRO STEAM STEAM	ENT OUT: ENERGY GE MWH 7499.00 5696.00 3807.00 7552.00	NERATED MWH/H 312.46 237.33 158.63 314.67 0.00	ENERGY MWH 7482.30 5670.88 3775.18 7165.90	MWH/H 311.76 236.29 157.30 298.58 0.00
1 2 3 4 5	ENERGY GENERATED STATION KAINJI JEBBA SHIRORO EGBIN ST2 - 5 SAPELE DELTA	HYDRO HYDRO HYDRO STEAM STEAM GAS	NT OUT: ENERGY GE MWH 7499.00 5696.00 3807.00 7552.00	NERATED MWH/H 312.46 237.33 158.63 314.67 0.00 367.72	ENERGY MWH 7482.30 5670.88 3775.18 7165.90	MWH/H 311.76 236.29 157.30 298.58 0.00 358.60
1 2 3 4 5 6	ENERGY GENERATED STATION KAINJI JEBBA SHIRORO EGBIN ST2 - 5 SAPELE DPELE AFAM IV-V	TURBINE HYDRO HYDRO HYDRO STEAM STEAM GAS GAS	NT OUT: ENERGY GE MWH 7499.00 5696.00 3807.00 7552.00 8825.30 0.00	NERATED MWH/H 312.46 237.33 158.63 314.67 0.00 367.72 0.00	ENERGY MWH 7482.30 5670.88 3775.18 7165.90 8606.30 0.00	SENT OUT MWH/H 311.76 236.29 157.30 298.58 0.00 358.60 0.00
1 2 3 4 5 6 7 8	ENERGY GENERATED STATION KAINJI JEBBA SHIRORO EGBIN ST2 - 5 SAPELE DELTA AFAMIV-V GEREGU GAS	TURBINE HYDRO HYDRO HYDRO STEAM STEAM GAS GAS GAS GAS	NT OUT: ENERGY GE MWH 7499.00 5696.00 3807.00 7552.00 8825.30 0.00 8009.00	NERATED MWH/H 312.46 237.33 158.63 314.67 0.00 367.72 0.00 333.71	ENERGY MWH 7482.30 5670.88 3775.18 7165.90 8606.30 0.00 7977.70	SENT OUT MWH/H 311.76 236.29 157.30 298.58 0.00 358.60 0.00 332.40
1 2 3 4 5 6 7 8	ENERGY GENERATEL STATION KAINJI JEBBA SHIRORO EGBIN ST2 - 5 SAPELE DELTA AFAM IV-V GEREGU GAS OMOTOSHO GAS	TURBINE HYDRO HYDRO HYDRO STEAM STEAM GAS GAS GAS GAS GAS	ENT OUT: ENERGY GE MWH 7499.00 5696.00 3807.00 7552.00 8825.30 0.00 8009.00 3997.00	NERATED MWH/H 312.46 237.33 158.63 314.67 0.00 367.72 0.00 333.71 166.54	ENERGY MWH 7482.30 5670.88 3775.18 7165.90 8606.30 0.00 7977.70 3967.80	SENT OUT MWH/H 311.76 236.29 157.30 298.58 0.00 358.60 0.00 332.40 165.33
1 2 3 4 5 6 7 8 9	ENERGY GENERATED STATION KAINJI JEBBA SHIRORO EGBIN ST2 - 5 SAPELE DELTA AFAM IV-V GEREGU GAS OMOTOSHO GAS OLORWINSOGO GAS	TURBINE HYDRO HYDRO HYDRO STEAM STEAM GAS GAS GAS GAS GAS GAS	ENT OUT: ENERGY GE MWH 7499.00 5696.00 7552.00 7552.00 8825.30 0.00 8009.00 3997.00 2839.19	NERATED MWH/H 312.46 237.33 158.63 314.67 0.00 367.72 0.00 333.71 166.54 118.30	ENERGY MWH 7482.30 5670.88 33775.18 7165.90 8606.30 0.00 7977.70 3967.80 2813.59	SENT OUT MWH/H 311.76 236.29 157.30 298.58 0.00 358.60 0.00 332.40 165.33 117.23
1 2 3 4 5 6 7 8 9	ENERGY GENERATED STATION KAINJI JEBBA SHIRORO EGBIN ST2 - 5 SAPELE DELTA DELTA JEBBA JULY GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS GEREGU GAS	TURBINE HYDRO HYDRO HYDRO STEAM STEAM GAS GAS GAS GAS GAS GAS GAS GAS	ENT OUT: ENERGY GE MWH 7499.00 5696.00 3807.00 7552.00 8825.30 0.00 8009.00 3997.00 283919 3190.38	NERATED MWH/H 312.46 237.33 158.63 314.67 0.00 367.72 0.00 333.71 166.54 118.30 132.93	ENERGY MWH 7482.30 5670.88 3775.18 7165.90 8606.30 0.00 7977.70 3967.80 2813.59 3173.37	SENT OUT MWH/H 311.76 236.29 157.30 298.58 0.00 358.60 0.00 332.40 165.33 117.23
1 2 3 4 5 6 7 8 9 10 11 12	ENERGY GENERATED STATION KAINJI JEBBA SHIRORO EGBIN ST2 - 5 SAPELE DELTA AFAM IV-Y GEREGU GAS OLORUNSOGO GAS GEREGU NIPP SAPEL NIPP	TURBINE HYDRO HYDRO HYDRO STEAM STEAM GAS GAS GAS GAS GAS GAS GAS GAS GAS	ENT OUT: ENERGY GE MWH 7499.00 5696.00 3807.00 7552.00 8825.30 0.00 8009.00 3997.00 2339.19 3190.38 3542.75	NERATED MWH/H 312.46 237.33 158.63 314.67 0.00 367.72 0.00 333.71 166.54 118.30 132.93 147.61	### ENERGY #### #### ##########################	SENT OUT MWH/H 311.76 236.29 157.30 298.58 0.00 358.60 0.00 332.40 165.33 117.23 132.22 146.65
1 2 3 4 5 6 7 8 9 10 11 12 13	ENERGY GENERATED STATION KAINJI JEBBA SHIRORO EGBIN ST2 - 5 SAPPLE DOLLTA AFAM IV-V GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS GEREGU MIPP SAPELE NIPP ALACAJI NIPP	TURBINE HYDRO HYDRO HYDRO HYDRO STEAM STEAM GAS	ENT OUT: ENERGY GE MWH 7499.00 5596.00 3807.00 7552.00 8825.30 0.00 8009.90 3997.00 2839.19 3190.38 3542.75 0.00	NERATED MWH/H 312.46 237.33 158.63 314.67 0.00 367.72 0.00 333.71 166.54 118.30 132.93 147.61	ENERGY MWH 7482.30 5670.88 3775.18 7165.90 8606.30 0.00 7977.70 3967.80 2813.59 3173.37 3519.60 0.00	SENT OUT MWH/H 311.76 236.29 157.30 298.58 0.00 358.60 0.00 332.40 165.33 117.23 132.22 146.65 0.00
1 2 3 4 5 6 7 8 9 10 11 12 13	ENERGY GENERATED STATION KAINJI JEBBA SHIRORO EGBIN ST2 - 5 SAPELE DELTA DELTA DELTA OMOTOSHO GAS OLORUNSOGO GAS GEREGU INPP SAPELE NIPP ALAQJI NIPP ALAQJI NIPP ALAQJI NIPP ALOLORUNSOGO INPP	TURBINE HYDRO HYDRO HYDRO STEAM GAS	ENT OUT: ENERGY GE MWH 7499.00 5696.00 3807.00 7552.00 8825.00 0.00 8009.00 3997.00 23391.9 3394.3 3542.75 0.00	NERATED MWH/H 312.46 237.33 158.63 314.67 0.00 367.72 0.00 333.71 166.54 118.30 132.93 147.61 0.00 102.28	ENERGY MWH 7482.30 5670.88 3775.18 7165.90 8606.30 0.00 7977.70 3967.80 2813.59 3173.37 3519.60 0.00 2417.30	SENT OUT MWH/H 311.76 236.29 157.30 298.58 0.00 358.60 0.00 332.40 165.33 117.23 132.22 146.65 0.00 100.72
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	ENERGY GENERATED STATION KAINJI JEBBA JHIRORO EGBIN ST2 - 5 SAPELE DELTA AFAM IV-Y GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS GEREGU NIPP ALAOJI NIPP ALAOJI NIPP JOMOTOSHO NIPP	TURBINE HYDRO HYDRO HYDRO STEAM STEAM GAS	ENT OUT: ENERGY GE MWH 7499.00 5596.00 3807.00 7552.00 8825.30 0.00 8009.00 2839.19 3190.38 3542.75 0.00 2454.70 1982.30	NERATED MWH/H 312.46 237.33 158.63 314.67 0.00 367.72 0.00 333.71 166.54 118.30 132.93 147.61 0.00 102.28 82.60	ENERGY MWH 7482.30 5670.88 3775.18 7165.90 8606.30 0.00 7977.70 32613.59 3173.37 3519.60 0.00 2417.30	SENT OUT MWH/H 311.76 236.29 157.30 298.58 0.00 358.60 0.00 332.40 165.33 117.23 132.22 146.65 0.00 100.72 81.42
1 2 3 4 5 6 7 8 9 10 11 12 13	ENERGY GENERATED STATION KAINJI JEBBA SHIRORO EGBIN ST2 - 5 SAPELE DELTA DELTA DELTA JEBBA DLORINSOGO GAS GEREGIU SIGN GEREGIU SIGN GEREGIU SIGN ALPLIA DLORINSOGO GAS GEREGIU SIGN DLORINSOGO GAS GEREGIU SIGN DLORINSOGO NIPP OMOTOSHO NIPP OMOTOSHO NIPP DOMOTOSHO NIPP OMOTOSHO NIPP OMOTOSHO NIPP	TURBINE HYDRO HYDRO HYDRO STEAM GAS	ENT OUT: ENERGY GE MWH 7499.00 5696.00 3807.00 7552.00 8825.00 0.00 8009.00 3997.00 23391.9 3394.3 3542.75 0.00	NERATED MWH/H 312.46 227.33 158.63 314.67 0.00 367.72 0.00 333.71 166.54 118.30 132.93 147.61 0.00 102.28 82.60 97.77	ENERGY MWH 7482.30 5670.88 3775.18 7165.90 8606.30 0.00 7977.70 3967.80 2813.59 3173.37 3519.60 0.00 2417.30	SENT OUT MWH/H 311.76 236.29 157.30 298.58 0.00 358.60 0.00 332.40 165.33 117.23 132.22 146.65 0.00 100.72
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	ENERGY GENERATED STATION KAINJI JEBBA SHIRORO EGBIN ST2-5 SAPELE DELTA AFAM IV-Y GEREGU GAS OLOPRINSOGO GAS GEREGU NIPP SAPELE DLIVIPP SAPELE DLIVIPP ALAOJI NIPP OLORUNSOGO NIPP OMOTOSHO NIPP OMOTOSHO NIPP OMOTOSHO NIPP OMOTOSHO NIPP OMOTOSHO NIPP IHOYBOR NIPP	TURBINE HYDRO HYDRO HYDRO STEAM STEAM GAS	ENT OUT: ENERGY GE MWH 7499.00 5596.00 3807.00 7552.00 8825.30 0.00 8009.00 2839.19 3190.38 3542.75 0.00 2454.70 1982.30	NERATED MWH/H 312.46 237.33 158.63 158.63 158.67.72 0.00 367.72 0.00 333.71 168.54 118.30 132.93 147.61 0.00 102.28 82.60 97.77 49.00	ENERGY MWH 7482.30 5670.88 3775.18 7165.90 8606.30 0.00 7977.70 32613.59 3173.37 3519.60 0.00 2417.30	SENT OUT MWH/H 311.76 236.29 157.30 299.58 0.00 358.60 0.00 332.40 165.33 117.23 132.22 146.65 0.00 100.72 81.42 96.91 48.18
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	ENERGY GENERATED STATION KAINJI JEBBA SHIRORO EGBIN ST2 - 5 SAPELE DELTA AFAM IV-V GEREGU GAS OLORUNSOGO GAS GEREGU INIP OLORUNSOGO NIPP OLORUNSOGO NIPP OMOTOSHO NIPP OMOTOSHO NIPP OMOTOSHO NIPP OMOTOSHO NIPP OMOTOSHO NIPP OKPAI	TURBINE HYDRO HYDRO HYDRO STEAM STEAM GAS	ENT OUT: ENERGY GE MWH 7499.00 5696.00 3807.00 7552.00 7552.00 8009.00 8009.00 2399.00 2399.00 2399.30 3342.75 0.00 2454.70 1982.30	NERATED MWH/H 312.46 212.43 212.43 158.63 314.67 0.00 367.72 0.00 367.72 118.30 118.30 118.30 118.30 122.93 147.61 0.00 102.28 82.60 97.77 49.00 98.21	ENERGY MWH 7482.30 5670.88 3775.18 7165.90 8606.30 0.00 7977.70 2813.59 313.59 313.33 3519.60 0.00 2417.30	YSENT OUT MWH/M 311.76 236.29 157.30 298.58 0.00 358.60 0.00 358.60 117.23 117.23 117.23 146.65 0.00 100.72 81.42 81.42 96.91 48.18 96.08
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	ENERGY GENERATED STATION KAINJI JEBBA SHIRORO EGBIN ST2-5 SAPELE DELTA AFAM IV-Y GEREGU GAS OLOPRINSOGO GAS GEREGU NIPP SAPELE DLIVIPP SAPELE DLIVIPP ALAOJI NIPP OLORUNSOGO NIPP OMOTOSHO NIPP OMOTOSHO NIPP OMOTOSHO NIPP OMOTOSHO NIPP OMOTOSHO NIPP IHOYBOR NIPP	TURBINE HYDRO HYDRO HYDRO HYDRO STEAM STEAM GAS	ENT OUT: ENERGY GE MWH 7499.00 5696.00 3807.00 7552.00 8825.30 0.00 8009.00 3397.00 2839.19 2839.19 3542.75 0.00 2454.70 1982.30 2246.53 1176.00	NERATED MWH/H 312.46 237.33 158.63 158.63 158.67.72 0.00 367.72 0.00 333.71 168.54 118.30 132.93 147.61 0.00 102.28 82.60 97.77 49.00	ENERGY MWH 7482.30 5670.88 3775.18 7165.90 7165.90 7165.90 7177.10 7177.70 717	SENT OUT MWH/H 311.76 236.29 157.30 299.58 0.00 358.60 0.00 332.40 165.33 117.23 132.22 146.65 0.00 100.72 81.42 96.91 48.18
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	ENERGY GENERATED STATION KAINJI JEBBA SHIRORO EGBIN ST2 - 5 SAPELE DELTA AFAM IV-V GEREGU GAS OLORUNSOGO GAS GEREGU INIP OLORUNSOGO NIPP OLORUNSOGO NIPP OMOTOSHO NIPP OMOTOSHO NIPP OMOTOSHO NIPP OMOTOSHO NIPP OMOTOSHO NIPP OKPAI	TURBINE HYDRO HYDRO HYDRO HYDRO STEAM GAS	ENT OUT: ENERGY GE MWH 7499.00 3807.00 7552.00 7552.00 8059.00 8059.00 8059.00 2399.10 2399.10 2454.70 1284.53 1176.00 2357.00	NERATED MWH/H 312.46 212.43 212.43 158.63 314.67 0.00 367.72 0.00 367.72 118.30 118.30 118.30 118.30 122.93 147.61 0.00 102.28 82.60 97.77 49.00 98.21	ENERGY MWH 7482.30 5670.88 3775.18 71656.90 0.00 73977.70 39677.80 2813.59 2813.59 2813.59 2813.59 2813.59 1156.20 2305.90 4376.52	YSENT OUT MWH/M 311.76 236.29 157.30 298.58 0.00 358.60 0.00 358.60 117.23 117.23 117.23 146.65 0.00 100.72 81.42 81.42 96.91 48.18 96.08
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	ENERGY GENERATED STATION KAINJI JEBBA SHIRORO EGBIN ST2 - 5 SAPELE DELTA DELTA DELTA GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS GEREGU INIPP SAPELE NIPP ALAOJI NIPP OMOTOSHO NIPP OMOTOSHO NIPP OMOTOSHO NIPP IHOVBOR NIPP OKPAI	TURBINE HYDRO HYDRO HYDRO HYDRO STEAM STEAM GAS	ENT OUT: ENERGY GE MWH 7499.00 3807.00 7552.00 8825.00 8009.00 3997.00 23391.9 3391.9 3394.275 0.00 2454.70 1982.30 1176.00 2357.00 4475.50	NERATED MWH/H 312.46 312.46 312.46 312.46 312.46 314.67 0.00 367.72 0.00 367.72 166.51 118.30 136.51 118.30 147.61 0.00 28.26 26.60 97.77 49.00 98.21	ENERGY MWH 7482.30 5670.88 3775.18 3775.19 10.00 10.00 10.00 2817.30 3957.80 2813.53 319.60 0.00 2417.30 12525.83 1156.22 2305.90	SENT OUT MWH/M 311.76 226.29 167.30 288.58 0.00 388.60 0.00 382.40 165.33 117.23 117.23 1146.65 0.00 100.72 81.42 81.42 96.08 182.36
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	ENERGY GENERATED STATION KANIJI JEBBA SHIRORO EGBIN ST2 - 5 SAPELE DELTA AFAM IV-Y GEREGU GAS OLORUNSOGO GAS GEREGU GAS OLORUNSOGO GAS GEREGU RINPP SAPELE NIPP ALAQJI NIPP OLORUNSOGO NIPP OLORUNSOGO NIPP ONOTOSHO NIPP ODUKPANI NIPP IHOVBOR NIPP OKFAI AFAM VI IBOM ASCO ASCO ASCO ASCO STATION	TURBINE HYDRO HYDRO HYDRO HYDRO HYDRO STEAM STEAM GAS	ENT OUT: ENERGY GE MWH 7499.00 3807.00 3807.00 7552.00 8825.30 0.00 89297.00 2339.19 3393.19 3342.75 0.00 2454.70 1982.30 2346.53 1176.00 2457.00 4475.50 4375.50	NERATED MWHH 312.46 312.46 312.46 237.33 155.63 314.67 0.00 367.72 0.00 333.71 166.54 118.39 147.61 0.00 102.28 82.60 97.77 49.00 98.21 186.48	ENERGY MWH 7482.30 5670.88 3775.18 2775.19 28606.30 0.00 7977.70 3967.80 313.39 313.37 3519.60 0.00 2413.30 2415.30 2315.32 2417.30 24	SENT OUT MWHAN 311.76 226.29 157.30 298.58 0.00 0.00 328.40 165.33 117.22 146.65 0.00 100.72 81.42 96.91 48.18 96.08 182.36
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	ENERGY GENERATED STATION KAINJI JEBBA SHIRORO EGBIN ST2 - 5 SAPELE DELTAIN IV-V GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS GEREGU JNEP SAPELE NIPP ALAOJI NIPP OMOTOSHO NIPP OMOTOSHO NIPP OMOTOSHO NIPP OMOTOSHO NIPP OMOTOSHO NIPP OFFICE NIPP INDER NIPP OMOTOSHO NIPP OMOTOSHO NIPP OWE NI	TURBINE HYDRO HYDRO HYDRO HYDRO STEAM STEAM GAS	ENT OUT: ENERGY GE MWH 7499.00 5696.00 3807.00 7552.00 8825.00 0.00 8009.00 3997.00 28391.9 3542.75 0.00 2454.70 1982.30 1176.00 2454.70 1982.30 1176.00 4475.50 4475.50 1393.45	NERATED MWH/H 312.46 312.46 312.46 312.46 312.46 314.67 0.00 367.72 0.00 367.72 0.00 335.71 18.30 147.61 0.00 102.28 82.60 97.77 49.00 98.21 186.48 58.06	ENERGY MWH 7482.30 5670.88 37765.90 10.00 8606.30 0.00 73977.70 3913.39 3813.39 3819.60 0.00 2417.30 19324.08 1156.22 2305.90 4376.52	SENT OUT WWH/H
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22 22 22 24	ENERGY GENERATED STATION KANIJI JEBBA SHIRORO EGBIN ST2 - 5 SAPELE DELTA AFAM IV-Y GEREGU GAS OLORUNSOGO GAS GEREGU GAS OLORUNSOGO GAS GEREGU RINEP SAPELE NIPP ALAQJI NIPP ALAQJI NIPP OLORUNSOGO NIPP ODUKPANI NIPP IHOYBOR NIPP OKPAI AFAM VI BOM ASCO ASCO ASCO OMOCOSIONED AELS BOM ASCO OMOCOSIONED AELS OMOCOSIONED	TURBINE HYDRO HYDRO HYDRO HYDRO STEAM STEAM GAS	ENT OUT: ENERGY GE MWH 7499.00 3807.00 3807.00 3807.00 3807.00 000 8822.3.0 0.00 8822.3.0 0.00 3997.00 2453.19 3354.75 0.00 2454.70 1458.2.0 2456.30 1176.00 4475.50 4475.50 4475.50 0.00 0.00 0.00 0.00 0.00 0.00 0.00	NERATED MWHH 312.46 312.46 312.46 312.46 314.63 156.63 316.63 316.63 316.77 0.00 367.72 0.00 333.71 366.54 118.39 147.61 0.00 102.28 82.60 97.77 49.00 98.21 156.48 158.48 158.49 168.54 168.54 17.77 18.77 18.77 18.77 18.77	ENERGY MWH 7482.30 5670.88 37755.18 2765.89 28606.30 0.00 2977.70 3967.80 313.3-3 3519.60 0.00 2197.30 2115.32 2115.32 313.37 3519.60 0.00 2197.30 2135.82 2305.90 2305.82 2305.90 230	SENT OUT MWH/M 311.76 226.29 157.30 298.58 0.00 328.40 328.40 165.33 117.22 146.65 0.00 100.72 81.42 96.91 48.19 96.08 152.76 57.76 57.76 151.47 0.00
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	ENERGY GENERATED STATION KAINJI JEBBA SHIRORO EGBIN ST2 - 5 SAPELE DELTA DELT	TURBINE HYDRO HYDRO HYDRO HYDRO STEAM STEAM GAS	ENT OUT: ENERGY GE MWH 7499.00 3807.00 7552.00 8825.00 8009.00 8009.00 3997.00 28391.9 3542.75 0.00 2454.70 1982.30 1176.00 2457.50 4475.50 1393.45 0.00 3649.30 0.00	NERATED MWH/H 312.46 312.46 312.46 312.46 312.46 314.67 0.00 367.72 0.00 367.72 0.00 333.71 118.39 147.61 0.00 102.28 82.60 97.77 49.00 98.21 186.48 58.06 0.00 152.05	ENERGY MWH 7482.30 5670.88 37755.18 7165.90 8606.30 0.00 73977.70 33977.70 3313.39 3133.97 313.95 313.95 313.95 313.95 313.95 313.95 313.95 313.95 313.95 313.95 313.95 313.95 313.95 313.95 315.960 0.00 2417.30 2423.83 1156.22 2305.90 4376.52 4376.52 4376.52 4376.52 0.00 3635.20 0.00	SENT OUT MWH/H 311.76 226.29 157.30 298.58 0.00 358.60 0.00 352.40 165.33 117.23 132.22 146.65 0.00 100.72 81.42 96.91 48.18 96.08 182.36 57.71 0.00 151.47 0.00 62.73
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	ENERGY GENERATED STATION KAINJI JEBBA SHIRORO EGBIN ST2 - 5 SAPPLE DELTA AFAM IV-Y GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS GEREGU INIPP SAPPLE NIPP ALACJI NIPP ALACJI NIPP OLORUNSOGO NIPP OMOTOSHO NIPP OWOTOSHO NIPP OKPAI AFAM VI IBOM AFAM VI IBOM ASCO ASCO OMOKU ASCO OMOKU ITRANS AMADI ITRANS	TURBINE HYDRO HYDRO HYDRO STEAM STEAM GAS	ENT OUT: ENERGY GE MWH 7499.00 3807.00 3807.00 8000 8000 8000 8000 8000 8000 800	NERATED MWHH 312.46 312.46 312.46 312.46 314 315.63 315.63 315.63 316.77 0.00 367.72 0.00 333.71 166.54 1132.93 147.61 0.00 102.28 82.60 97.77 49.00 98.21 166.46 166.46 160.00 1	ENERGY MWH 7482.30 5670.88 3775.18 2765.89 2775.18 28606.30 0.00 7977.70 3967.80 313.3-37 3519.60 0.00 21325.62 2135.92 2135.92 2135.93 2135.9	SENT OUT MWH/M 311.76 236.29 157.30 295.36 0.00 326.40 326.40 326.40 165.33 165.33 165.33 162.22 146.65 0.00 100.72 81.42 96.91 48.19 96.08 152.36 152.37 1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	ENERGY GENERATED STATION KAINJI JEBBA SHIRORO EGBIN ST2 - 5 SAPELE DELTA AFAM IV-V GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS GEREGU INIPP ALPALE NIPP ALP	TURBINE HYDRO HYDRO HYDRO HYDRO STEAM STEAM GAS	ENT OUT: ENERGY GE MWH 7499.00 3807.00 7552.00 8825.30 0.00 8009.00 3997.00 23391.33 3542.75 0.00 12357.00 4475.50 1393.45 0.00 3609.30 3699.30 0.00 3699.30 0.00 0.00 0.00 0.00 0.00 0.00	NERATED MWH/H 312.46 312.46 312.46 312.46 313.46.77 0.00 367.72 0.00 367.72 0.00 333.71 118.30 118.3	ENERGY MWH 7482.30 5670.88 37755.18 7165.90 8606.30 0.00 7977.70 3967.80 3813.39 3813.50 0.00 3835.20 3835.20 0.00 3835.20 0.00 3835.20 0.00 3835.20 0.00 3835.20 0.00 3835.20 0.00	**SENT OUT** MWH/H** 311.76 236.29 175.20 175.30 298.58 0.00 328.65 0.00 328.40 185.33 117.23 132.22 146.65 0.00 100.72 81.42 96.91 48.18 96.08 182.36 57.71 0.00 151.47 0.00 62.73 0.00 62.73 0.00 62.73 0.00 85.53 0.00 85.53 0.00 85.53 0.00 85.53 0.00 85.53 0.00 85.53 0.00 85.53 0.00 0.00 85.53 0.00 0.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	ENERGY GENERATED STATION KAINJI JEBBA SHIRORO EGBIN ST2 - 5 SAPPLE DELTA AFAM IV-Y GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS GEREGU INIPP SAPPLE NIPP ALACJI NIPP ALACJI NIPP OLORUNSOGO NIPP OMOTOSHO NIPP OWOTOSHO NIPP OKPAI AFAM VI IBOM AFAM VI IBOM ASCO ASCO OMOKU ASCO OMOKU ITRANS AMADI ITRANS	TURBINE HYDRO HYDRO HYDRO STEAM STEAM GAS	ENT OUT: ENERGY GE MWH 7499.00 3807.00 3807.00 8000 8000 8000 8000 8000 8000 800	NERATED MWHH 312.46 312.46 312.46 312.46 314 315.63 315.63 315.63 316.77 0.00 367.72 0.00 333.71 166.54 1132.93 147.61 0.00 102.28 82.60 97.77 49.00 98.21 166.46 166.46 160.00 1	ENERGY MWH 7482.30 5670.88 3775.18 2765.89 2775.18 28606.30 0.00 7977.70 3967.80 313.3-37 3519.60 0.00 21325.62 2135.92 2135.92 2135.93 2135.9	SENT OUT MWH/M 311.76 236.29 157.30 295.36 0.00 326.40 326.40 326.40 165.33 165.33 165.33 162.22 146.65 0.00 100.72 81.42 96.91 48.19 96.08 152.36 152.37 1

1.7A										
	STATIONS	NO OF INSTALLED UNITS	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)	REMARKS	
	KAINJI HYDRO	8	1G5, 6, 11 & 12	440	370	1G5, 6, 11 & 12 4	370	294	1G7 - Out on stator winding failure. 1G8 - Out due to loss of supply to the auxiliary. 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 - 5	475	475	2G1, 3 & 5	285	222	2G1, 3 & 5 - On frequency response. 2G2 & 4 - Out on water management. 2G6 – Out due to burnt generator winding and AVR.	
	SHIRORO HYDRO	4	411G2 & 3	300	300	411G2 & 3	203	187	Available units on bar.	
ANIES	EGBIN STEAM	5	2 ST1, 2 & 4 3	- 660	660	2 ST1, 2 & 4 3	473	473	ST3 - Tripped on high vibration since 19th June 2017. ST5 - Out on fault.	
DCOMP	SAPELE (STEAM)	6	0	0	0	0	0	0	ST1 - Tripped on low drum level. ST2 - Out on maintenance. ST3 - Out on stator winding problem. ST4 & 5 - Awaiting major overhaul. ST6 - Tripped on gas control valve not following reference point.	
PRIVATISED	DELTA (GAS)	18	GT4, 7, 9 - 13, 16 & 18 - 20 11	555	555	GT4, 7, 9 - 13, 16, 18- 20	540	490	GT3 & 5 - Out due to generator winding fault. GT6 & 14 - Out on major overhaul. GT15 - Out on maintenance. GT17 - Out on excitation trouble.	
•	AFAM IV & V (GAS)	8	0	0	0	0	0	0	GT1 - 12 - De-commissioned and scrapped. GT13 -16 - Out on blade failure. GT17 - Tripped on loss of excitation. GT18 - Out on 4000Hrs inspection and maintenance since 04/04/2018. GT19 & 20 - Awaiting major overhaul.	
	GEREGU GAS	3	GT11 - 13 3	435	435	GT11 - 13 3	435	326	Available units on bar.	
	OMOTOSHO GAS	8	GT1 - 8 8	336	304	GT1, 2, 4 & 6-8	228	211.2	GT3 & 5 - Out due to gas constraint.	
	OLORUNSOGO GAS	8	GT1 - 8 8	336	304	GT2 - 5 & 8	190	167.4	GT1, 6 & 7 - Out due to gas constraint.	
	GEREGU NIPP	3	GT22 & 23 2	290	290	5 GT22 & 23 2	290	221	GT21 - Out on maintenance.	
	SAPELE NIPP	4	GT1 & 4 2	225	225	GT1 & 4 2	225	167.3	GT2 & 3 - Out due to high air inlet differential pressure.	
	ALAOJI NIPP GAS	4	GT1, 2 & 4 3	375	360	0	0	0	GT1, 2 & 4 - Tripped due to low gas pressure. GT3 - Shut down due to generator air inlet filter trouble.	
MPP	OLORUNSOGO NIPP	6	GT1 - 3	375	360	GT1 & 3	240	193.1	GT2 - Out due to gas constraint. GT4 - Out due to ignition failure and control relay failure alarm. ST13 & ST23 - Out on maintenance. Available units on bar.	
Z	OMOTOSHO NIPP GAS	4	GT1, 2 & 4 3	375	360	GT4 1	120	83.5	GT1 & 2 - Out due to gas constraint. GT3 - Shut down due to oil leakage on the unit.	
	ODUKPANI NIPP	5	GT4 & 5 2	240	230	GT4 & 5 2	230	166.2	GT1 - Out on fault. GT2 - Out due to malfunctioning gas regulating valve. GT3 - Tripped on high air inlet differential pressure.	
	IHOVBOR NIPP	4	GT1 1	112.5	112.5	0	0	0	GT1 - Out due to gas constraint. GT2 - Out due to gas outlet valve problem. GT3 - Tripped on MCC Bus no1 under voltage. GT4 - Out on maintenance.	
	GBARAIN NIPP GAS	1	0	0	0	0	0	0	GT2 - Out on maintenance.	
	OKPAI GAS/STEAM	3	GT12	150	150	GT12	150	100	GT11 & ST18 - Out on maintenance.	
	AZURA - EDO	3	GT11 & 13	300	300	0	0	0	GT12 - Awaiting commissioning. GT11 & 13 - Shut down after test.	
	AFAM VI GAS/STEAM	4	GT11- 13 & ST10	650	650	GT11 &13	300	233	GT12 & ST10 - Shut down on frequency management.	
	IBOM POWER GAS	3	GT3	115	115	GT3	115	76.2	GT1 & 2 - Out on fault.	
<u>d</u>	AES	0	0	0	0	0	0	0	Out of production since 27/09/2014.	
	ASCO	1	0	0	0	0	0	0	GT1 - Shut down due to leakage in the furnace.	
	OMOKU GAS	6	GT1, 2, 5 & 6 4	100	80	GT1, 2, 5 & 6 4	80	75.9	GT3 - Out due to gas leakage. GT4 - Awaiting major overhaul.	
	TRANS-AMADI	4	GT1 & 2 2	50	40	0	0	0	GT1 & 2 - Out due to line constraint. GT3 - Out on fault. GT4 - Tripped on generator differential lockout.	
	RIVERS	1	GT1 1	180	160	GT1 1	160	160	Available unit on bar.	
Щ_	SUB TOTAL	130	75	7074.5	6835.5	55	4634	3846.8	Frequency = 50.47Hz.	

1.7B GENERATION POSITION AT 06:00HRS OF SATURDAY 14/04/2018 FOR UNITS ON BILATERAL AGREEMENT

EGBIN	4	0	0	0	0	0	0	ST6 - Shut down to clean condenser.			
EGBIN	Į.	0	U	ı	0	0	Ů	U	ŭ ŭ	o o	
PARAS ENERGY	8	GT2 - 9	69.4	69.4 69.4		69.4	69.4	Available units on bar.			
	•	8		****	8		66.1				
SUB TOTAL	9	8	69.4	69.4	8	69.4	69.4				
GRAND TOTAL	139	83	7143.9	6904.9	63	4,703.40	3,916.20	Frequency = 50.47Hz.			

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1.7C		BILA	ATERAL AGREEMENT UN	ITS DISPATCH - FRIDAY 13/0	4/2018							
	FEEDERS NAME	MAX. LOAD (MW)	TIME (HRS)		REMARK							
	Egbin ST6 120MW GENERATION TO IKEJA ELECTRICITY DISTRIBUTION COMPANY											
	U-STEEL	ON	0100HRS	23	132KV CIRCUIT OPENED ON LS							
OGBA	PTCEXPRESS	8	1600HRS	23	132KV CIRCUIT OPENED ON LS							
0	SANKYO	ON	0100HRS	23	132KV CIRCUIT OPENED ON LS							
	FEEDER 8	9	1200HRS	23	132KV CIRCUIT OPENED ON LS							
	PULK IT	2	2200HRS	24	NIL							
	INDUSTRIAL	16	0900HRS	24	NIL							
KORODU	SPINTEX	8	0100HRS	24	NIL							
	DANGOTE	1	0100HRS	24	NIL							
	LAND CRAFT	38	1900HRS	24	NIL							
	TR4 15MVA	4.1	1500HRS	24	NIL							
	TR5 -15MVA	4.1	0800HRS	24	NIL							
ALAUSA	ALAUSA	8.3	1200HRS	14	DUE TO CUT RED PHASE PAILOT CABLE ON THE LINE ISOLATOR							
M/LAND	PTC (MARYLAND)	18MW	1400HRS	21HRS	DUE TO SYSTEM COLLAPSED							
	TOTAL LOAD	98.5										

BILATERAL AGREEMENT LOAD DISPATCH 60MW PARAS ENERGY GENERATION TO CEB

FEEDER	MAX	TIME	HOURS IN SERVICE	REMARK
Ikeja West/Sakete 330kV line	70.2	21:00	20	Partial system disturbance

1.8 HYDROLOGICAL DATA: SATURDAY 14/04/2018

	KAINJI	JEBBA	SHIRORO
HEAD WATER ELEVATION (METERS)	136.25	99.90	369.73
TAIL WATER ELEVATION (METERS)	102.36	73.6	270.00
GROSS OPERATING HEAD (METERS)	33.89	26.30	99.73
AVERAGE TURBINE DISCHARGE (M3/SEC)	1030.00	1068.00	186.00
AVERAGE SPILLAGE (M3/SEC)	0.00	0.00	0.00
AVERAGE TOTAL STATION DISCHARGE (M3/SEC)	1030	1068	186
COMPUTED INFLOW (M3/SEC)	6.00	1068.00	10.00
STORAGE DIFFERENTIAL	-1024.00	0	-176
MAXIMUM LEVEL FOR SPILLAGE COMMENCEMENT	141.73	103	382.5
MINIMUM LEVEL BELOW WHICH NO GENERATION	130	99	355

1.9 MAXIMUM/ALLOCATED LOAD/MINIMUM LOADS FOR ABUJA AND LAGOS AS AT FRIDAY 13/04/2018

DISCO	MAXIMUM LOAD(MW)	TIME(HRS)	ALLOCATED LOAD (MW)	MINIMUM LOAD(MW)	TIME(HRS)
ABUJA					
EKO					
IKEJA					·

2.0 GAS POSITION: SATURDAY 14/04/2018

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	577	1100		473	627
DELTA (GAS)	402	915		540	375
OMOTOSHO GAS	177.9	336.8		228	108.8
OMOTOSHO NIPP	99.4	500		120	380
OLORUNSOGO (GAS)	111.5	336		152	184
OLORUNSOGO NIPP	101.4	750		240	510
SAPELE NIPP	174.3	500		225	275
SAPELE STEAM	0	720		0	720
AFAM IV-V	0	300		0	300
AFAM VI	350	650		300	350
GEREGU GAS	172	435		435	0
GEREGU NIPP	100	435		290	145
OKPAI (GAS/STEAM)	114	480		150	330
ALAOJI NIPP	0	504		0	504
IHOVBOR NIPP	0	450		112.5	337.5
IBOM	72.7	198		115	83
ODUKPANI NIPP	285.1	625		230	395
TOTAL	2737.3	9234.80		3610.5	5624.3

1 MMSCF IS EQUIVALENT TO 3.75MW

3.0 SPINNING RESERVE FOR: FRIDAY 13/04/2018

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

3.1 SYSTEM SPINNING RESERVE AS AT 0600HRS OF SATURDAY 14/04/2018 = 0MW. FREQUENCY

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

4.0 <u>UNUTILIZED GENERATION CAPABILITY</u>

The unutilized generation capability for Saturday 14/04/2018 as at 0600Hrs was = **1602.5MW**.

S/NO	STATION	ACTUAL GENERATION CAPABILITY (MW)	GENERATION AT 0600HRS (MW)	UNUTILIZED GENERATION CAPABILITY (MW)	SUB -TOTAL
		4.1 DUE TO GAS	CONSTRAINTS:		
1	Omotosho NIPP GT1 & 2	240	0	240	
2	Ihovbor GT1	112.5	0	112.5	
3	Alaoji NIPP GT1, 2 & 4	360	0	360	
4	Olorunsogo Gas GT1, 6 & 7	114	0	114	
5	Olorunsogo NIPP GT2	120	0	120	l
6	Omotosho gas GT3 & 5	76	0	76	
				0	1022.5
				0	1022.0
				0	
				0	
				0	
				0	
				0	
				0	

RELATED CONSTRAINTS, ADDITIONAL 1499.81MSCF OF GAS (EQUIVALENT TO 5624.3MW WILL BE REQUIRED WHEN ALL

THERM	MAL UNITS ARE ON BAR.				
		4.2 DUE TO LINE COI	NSTRAINTS		
1	Trans-Amadi GT1 & 2	40	0	40	
			0	0	40
				0	
				0	
		ENCY MANAGEMENT OCCA	SIONED BY DISC	OS' LOAD DEMAN	D
1	Afam VI GT12 & ST10	350	0	350	
				0	
				0	
				0	
				0	350
				0	
				0	
				0	
				0	
		4.4 DUE TO WATER MA	NAGEMENT		
1	Jebba 2G2 & 4	190	0	190	190
Grand Total				1602.5	

5. 0 OUTAGES: 5 (E) EMERGENCY OUTAGES:-The undermentioned lines were opened on frequencyf control. 5 (A) FORCED OUTAGES (GENERATION):-1 09:06 - 09:38Hrs, Osogbo/Akure/Ado-Ekiti 132kV line. Load loss = 49MW. Frequency was 49.00Hz 1 01:44 - 02:49Hrs, Ihovbor NIPP GT3 tripped on MCC Bus alarm. LHR = 105.9MW. 2 12:53 - 13:21Hrs, Osogbo/Akure/Ado - Ekiti 132kV line. Load loss = 47MW. Frequency was 49.90Hz 2 05:58 - 17:25Hrs, Delta GT4 tripped on gas control valve. LHR = 20MW. 3 14:15 - 14:31Hrs, Osogbo/Offa/Omuaran 132kV line. Load loss = 27MW. Frequency was 49.80Hz 3 11:57 - 14:32Hrs, Egbin ST2 tripped on high voltage. LHR = 30MW 4 14:43 - 15:02Hrs, Osogbo/Offa/Omuaran 132kV line. Load loss = 29MW. Frequency was 49.79Hz 4 15:33 – 17:10Hrs, Egbin P/S ST4 tripped on temperature control valve problem. LHR = 38MW 5 16:51 - 23:19Hrs, Ihovbor NIPP GT3 tripped on heat vent very high temperature turbine compartment. LHR = 88MW. 5 (F) AUTOMATIC UNDER FREQUENCY OPERATION:- NIL FORCED OUTAGES (TRANSMISSION): 5 (G) 330KV LINES THAT ARE OUT ON VOLTAGE CONTROL:- ccts A2K, J2H & A1S. 13:05 - 13:38Hrs, Osogbo T/S 60MVA 132/33kV transformer 4T4 secondary CB tripped on NARI relay: 33kV back up protection, E/F (residual O/C secondary) earthing 5 (H) 330KV LINES THAT ARE OUT ON BREAKER PROBLEM:- NIL. transformer protection, SBEF relay stage 1. LHR = 20.8MW 2 13:57 - 17:47Hrs, Osogbo/Akure 132kV line CB tripped at Osogbo T/S on BBC relay: Distance protection trip, short circuit step 2. LHR = 43MW 19:05 through 24:00Hrs, Akure T/S 30MVA 132/33kV transformer T3 primary & secondary CBs tripped on O/C Blue phase and differential relays. LHR = 18.6MW. The 5 (I) 330KV LINES THAT ARE OUT ON PLANNED OUTAGE:- NIL 3 transformer was left out for maintenance attention. 09:07 through 24:00Hrs, Onitsha/Alaoji 330kV line (cct T4A) CB tripped at Alaoji T/S due to cut Blue phase conductor to CVT clamp at Onitsha T/S on ohmega relay: DEF, aided trip, trip relay 86T and location = 575.79km. LHR = 280MW. 5 09:07 - 14:01Hrs, Alaoji/Ikot-Ekpene 330kV line 1 (cct A1K) CB tripped at Alaoji T/S without relay indication. LHR = 80MW 5 (J) 330KV LINES THAT ARE OUT ON LINE FAULT:- ccts U1A, T4A & S5B. 6 09:07 - 16:20Hrs, Alaoji NIPP/Alaoji T.S 330kV line 1 (cct L7A) CB tripped at Alaoji T/S on Sel Relay: Line differential protection main, fault type AB&G. No load loss as 5 (K) 330KV LINES THAT ARE ON SOAK:- ccts N4J & F1K. 6 WEATHER REPORT:- Rainfall was reported in Akangba. 7 INTERNATIONAL LINES:-IKEJA WEST/SAKETE 330KV LINE(TCN+PARAS) Maximum load - 220MW at 21:00Hrs. Minimum load - 46MW at 13:00Hrs. 5 (C) PLANNED OUTAGES:-**BIRNIN KEBBI/NIAMEY 132KV LINE** Maximum load - 104MW at 24:00Hrs. Minimum load - 25MW at 02:00Hrs. 1 09:37 - 20:18Hrs, Asaba/Agbor 132kV double circuits were opened for contractor to do correction on joints between towers #110, 111, 121 and 122, Load loss = 4MW C KATSINA/GAZAOUA/MARADI 132KV LINE Maximum load - 40.5MW at 21:00Hrs. Minimum load - 20MW at 08:00Hrs. 2 15:50 - 17:54Hrs, Sapele/Benin 330kV line 2 (cct S4B) was taken out to enable maintenance crew replace defective Blue phase C.T. with new one at SapeleT/S. No load interruption as cct S3B was in service URGENT OUTAGES: 8 MISCELLANEOUS:-1 05:17 - 07:58Hrs, lhovbor/Okada 132kV line 1 was taken out due to D.C failure at Okada T/S. Load loss = 3.8MW 1 00:04Hrs, cct S3B was restored. The line was out due to partial system collapse. 2 05:17 - 07:59Hrs, Ihovbor/Okada 132kV line 2 was taken out due to D.C failure at Okada T/S. Load loss = 0.1MW 2 00:26Hrs, Delta GT16 was tied. The unit was out on frequency management. 3 09:31 through 24:00Hrs, Jos T/S 60MVA 132/33kV transformer T2 was taken out to carry out annual maintenance on the transformer and its associated isolators. No load 3 01:27Hrs, Odukpani NIPP GT4 was tied. loss as 18MW was transferred to 60MVA 132/33kV transformer T1.

03:01Hrs, Jebba 2G3 was shut down on water management. Load loss = 72MW.
 05:50Hrs, Delta GT4 was tied. The unit was out due to vibration.

9 GENERATOR MERIT ORDER BASED ON SYSTEM RESPONSE AND GRID RELIABILITY

GROUP 1 - HYDRO UNITS (LEAST COST) ON FREE GOVERNOR CONTROL AND ANCILLARY SERVICE .

GROUP 2A - UNITS FROM ODUKPANI, AZURA, SHELL AFAM VI AGIP OKPAI, OLORUNSOGO POWER PLC AND OMOTOSHO POWER PLC. GROUP 2B - OTHER GENERATIN UNITS IDENTIFIED TO BE ON FREE GOVERNOR CONTROL.

GROUP 3 - OTHER UNITS IDENTIFIED TO BE OFFERING REGULATORY RESERVE.

GROUP 4 - OTHER UNITS OFFERING SPINNING RESERVE (THE POWER PLANTS CONTACTED FOR THE ANCILLARY SERVICE)

GROUP 5 - ALL PLANTS DISPATCHED SUBJECT TO TRANSMISSION CONSTRAINT (NOT YET IDENTIFIED).

GROUP 6 - ALL PLANTS PROVIDING VOLTAGE SUPPORT ABOVE STATUTORY LIMIT (NOT YET IDENTIFIED).

11 (A) COMMUNICATION MEDIA

STATIONS	NO INSTALLED	NO. WORKING
PLC/PAX	37	32
OPTIC FIBRE	13	10
PLS	14	5

11 (B) SCADA RTU STATUS

STATIONS	NO. INSTALLED	NO OF RTU DISTURBED	NO OF RTU WORKING
POWER STATIONS	8	6	2
330kV	19	6	13
132kV	102	78	24

- 6 08:34Hrs, Benin T/S placed Hold Off Tag (OF12) on ccts B5M & B6N for continuation of replacement of corroded glass insulators with silicone composite type. 11:03Hrs, cct B5M was restored and 17:06Hrs, cct B6N was restored.
- 7 09:48Hrs, Osogbo T/S 75MX 330kV Reactor 4R1 was taken out. V/P = 300/330kV
- 8 10:42Hrs, Osogbo T/S 75MX 330kV Reactor 4R1 was restored. V/P = 342/310kV
- 9 13:43 22:33Hrs, Azura Edo GT12 was tied for test. Load loss = 155MW
- 10 14:20 22:53Hrs, Azura Edo GT11 was tied for test. Load loss = 153MW
- 11 14:50 23:17Hrs, Azura Edo GT13 was tied for test. Load loss = 80MW

DAILY OPERATIONAL REPORT

- 12 15:34Hrs, Jebba 2G2 was shut down on water management. Load loss = 80MW
- ****** LACK OF REACTOR AND UNRELIABLE STATION SERVICE SUPPLY AT IKOT-EKPENE T/S ARE HINDERING SMOOTH OPERATION.

 ****** THE SCADA COVERAGE OF ONLY LIMITED AREAS IS NOT GOOD FOR THE SMOOTH
- THE SCADA COVERAGE OF ONLY LIMITED AREAS IS NOT GOOD FOR THE SMOOTH OPERATION OF THE GRID.

12(A) UNAVAILABLE TRANSFORMERS/REACTORS:

1 Birnin Kebbi 75MX Reactor R1.

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

KADUNA REGION:

1 Kumbotso 150MVA 330/132/33kV transformer T1A - Burnt control cables.

BAUCHI REGION:

1 Gombe T/S -30MX Reactor R2A.

ENUGU 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

1 Ikot-Ekpene T/S: No available reactor.

12 (B) UNAVAILABLE BREAKERS/ISOLATORS

LAGOS REGION:

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

BENIN REGION:

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

ENUGU REGION:

- 1 New Haven/Yandev 132kV line CB Faulty Red phase CB pole. Protection is transferred to the bus coupler CB.
- 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.
- 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 CB or New Haven/Oji 132kV line CB.
- 4 Oturkpo/Yandev 132kV By pass isolator Canibalized to repair the line isolator.

SHIRORO REGION

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

PORT HARCOURT REGION

1 New Haven/Nkalagu 132kV line 2 ground switch - Canibalized Red phase female contact and canibalized Yellow phase male contact.

12(D) LAGOS REGION

1 Agbara/Ojo 132kV line 1 on soak from Agbara end.

12(E) UNAVAILABLE CAPACITOR BANK:

(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.

LAGOS REGION

- 1 Omotosho/lkeja West line (M5W) and Egbin/lkeja West line 3 (N6W) 21 spans.
- 2 Ikeja West/Olorunsogo line (cct R1W) 80 spans.
- 3 330kV lkeja 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 (G) UNAVAILABLE SYNCHROSCOPES:

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

FOR MORE INFORMATION: NCC Telephone Lines -

- PAX 09/300, 309, 303 & 305.
- NCC GSM 08074888524, 08069379367, 08023572651 & 08051401331. CUG Nos. 08129458488, 08129458489, 08129929806; 08036665323.
- d GM (NCC) 08036744641.
- e AGM (S/O) 08056002757, CUG: 08129458475



