TRANSMISSION COMPANY OF NIGERIA

To: Head (ISO), TCN - Abuja

From: General Manager, NCC, Osogbo

DAILY OPERATIONAL REPORT OF TUESDAY 09/01/2018
FOR: EVENTS OF MONDAY 08/01/2018
1.0 EXECUTIVE OPERATIONS SUMMARY:
1.1 GENERATION PROFILE: NATIONAL STATISTICS

DETAILS	MW	HRS	DATE
PEAK DEMAND FORECAST (CONNECTED + SUPPRESSED LOAD)	20,550	21:15	08/01/2018
GENERATION CAPABILITY	7659.4	-do-	-do-
UNITS ON BAR CAPABILITY AT PEAK	5782.9	-do-	-do-
PEAK GENERATION	4932.7	-do-	-do-
LOWEST GENERATION	72	21:30	08/1/2018
	3875	0000-0800	-do-
8-HOURLY DURATION PEAK	4339.6	0900-1600	-do-
	4932.7	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	ΚV	STATION	HRS
NOMINAL VOLTAGE	330		
STATUTORYLIMITS	280.5 - 346.6		
HIGHEST VOLTAGE FOR THE DAY	356	Birnin Kebbi T/S	24:00
LOWEST VOLTAGE FOR THE DAY	300	Kumbotso, Gombe & Sakete T/S	09:00, 05:00 & 21:00

1.3 FREQUENCY RANGE

	HZ	HRS
NOMINAL FREQUENCY	50	
STATUTORY LIMITS	49.75-50.25	
HIGHEST FREQUENCY	50.66	22:21
LOWEST FREQUENCY	47.27	21:26

1.4 SYSTEM COLLAPSE UP DATE

Date of	ate of last total collapse: 8" Jan., 2018						No. of days since last total collapse: 01							
Date of	last partia	al collapse:	17 th Oct	2017			No. of days since last partial collapse: 81							
Highest	No of day	ys ever atta	ined in-b	between total	collapses		Highest No of days ever attained in-between partial collapses: 240							
		Jan	Feb.	Mar.	Apr	iviay	Jun	Jul	Aug	Sep.	Oct	Nov	Dec	Total
2010	lotal		3	1		3	3	3	-	2	2	1	4	22
2010	Partial	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
2013	Partial					-				2				2
2014	Total	2			2	U	3	1	0	0	1	0	0	9
2014	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
2015	Partial	-		1	0	2	0		0	0	1	0	0	4
2016	Total	-	-	2	3	б	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
2017	Partial	1	0	1	0	Ü	0	1	0	3	3			9
2018	Total	2												2
1	Partial													

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

STAT	ION	TURBINE	PEAK GE	N. (MW)	OFF-PEAK GEN(N	IW)	
1	KAINJI	HYDRO	36	9	0		
2	JEBBA	HYDRO	34	7	0		
3	SHIRORO	HYDRO	42	0	0		
4	EGBIN ST2 - 5	STEAM	51	5	12	2	
5	SAPELE	STEAM	0	-	0		
6	DELTA	GAS	51)	60)	
/	AFAM IV-V	GAS	62		0		
ð	GEREGU GAS	GAS	38		0		
9	OMOTOSHO GAS	GAS	97.		0		
10	OLORUNSOGO GAS	GAS	169		0		
11	GEREGU NIPP	GAS	202 180.3		0		
13	SAPELE NIPP ALAOJI NIPP	GAS GAS	100	.3	ď		
14	OLORUNSOGO NIPP	GAS	107	Q	ŏ		
15	OMOTOSHO NIPP	GAS	107		ŭ		
16	ODUKPANI NIPP	GAS	289	.6	0		
17	IHOVBOR NIPP	GAS	95.	1	0		
18	OKPAI	GAS	28	4	0		
19	AFAM VI	GAS	42		0		
20 21	IBOM POWER	GAS	102	.4	0		
	ASCO A.E.S	GAS GAS	0		0		
22	OMOKU	GAS	62	1	Ŭ		
24	TRANS AMADI	GAS	0		ŏ		
25	RIVERS IPP	(GAS)	14	0	0		
26	AZURA - EDO IPP	(4.10)	0		Ö		
27	EGBIN ST6	(GAS)	0		0		
28	PARAS ENERGY	(GAS)	69	4	0		
29	GBARAIN NIPP	GAS	0		0		
	TOTAL		493	7	72	,	
	ENERGY GENERATED	VENEDOV SEN			·		
.6	1		ENERGY GE	NERATED	ENERGY S	ENTOLIT	
	STATION	TURBINE	MWH	MWH/H	MWH	MWH/H	
1	KAINJI	HYDRO	8947.00	372.79	8932.70	372.20	
2	JEBBA	HYDRO	1851.00	77.13	1841.36	76.72	
3		HYDRO	5634.00	234.75		233.66	
J	CHIDODO						
	SHIRORO				5607.77		
4	EGBIN ST2 - 5	STEAM	4256.00	177.33	4035.50	168.15	
4 5	EGBIN ST2 - 5 SAPELE	STEAM STEAM	4256.00 0.00	177.33 0.00	4035.50 0.00	168.15 0.00	
4 5 6	EGBIN ST2 - 5 SAPELE DELTA	STEAM STEAM GAS	4256.00 0.00 10871.86	177.33 0.00 452.99	4035.50 0.00 10758.80	168.15 0.00 448.28	
4 5 6	EGBIN ST2 - 5 SAPELE DELTA AFAM IV-V	STEAM STEAM GAS GAS	4256.00 0.00 10871.86 1367.00	177.33 0.00 452.99 56.96	4035.50 0.00 10758.80 1363.04	168.15 0.00 448.28 56.79	
4 5 6	EGBIN ST2 - 5 SAPELE DELTA AFAM IV-V GEREGU GAS	STEAM STEAM GAS GAS GAS	4256.00 0.00 10871.86 1367.00 7941.30	177.33 0.00 452.99 56.96 330.89	4035.50 0.00 10758.80 1363.04 7911.96	168.15 0.00 448.28 56.79 329.67	
4 5 6 7 8	EGBIN ST2 - 5 SAPELE DELTA AFAM IV-V GEREGU GAS OMOTOSHO GAS	STEAM STEAM GAS GAS	4256.00 0.00 10871.86 1367.00 7941.30 1542.00	177.33 0.00 452.99 56.96 330.89 64.25	4035.50 0.00 10758.80 1363.04 7911.96 1523.50	168.15 0.00 448.28 56.79 329.67 63.48	
4 5 6 7 8 9	EGBIN ST2 - 5 SAPELE DELTA AFAM IV-V GEREGU GAS	STEAM STEAM GAS GAS GAS GAS	4256.00 0.00 10871.86 1367.00 7941.30	177.33 0.00 452.99 56.96 330.89 64.25 130.49	4035.50 0.00 10758.80 1363.04 7911.96	168.15 0.00 448.28 56.79 329.67 63.48 129.42	
4 5 6 7 8 9 10	EGBIN ST2 - 5 SAPELE DELTA AFAM IV-V GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS GEREGU NIPP	STEAM STEAM GAS GAS GAS GAS GAS GAS	4256.00 0.00 10871.86 1367.00 7941.30 1542.00 3131.72 4353.25	177.33 0.00 452.99 56.96 330.89 64.25 130.49 181.39	4035.50 0.00 10758.80 1363.04 7911.96 1523.50 3106.03 4335.58	168.15 0.00 448.28 56.79 329.67 63.48 129.42 180.65	
4 5 6 7 8 9 10 11 12	EGBIN ST2 - 5 SAPELE DELTA AFAM IV-V GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS GEREGU NIPP SAPELE NIPP	STEAM STEAM GAS GAS GAS GAS GAS GAS GAS	4256.00 0.00 10871.86 1367.00 7941.30 1542.00 3131.72 4353.25 3829.80	177.33 0.00 452.99 56.96 330.89 64.25 130.49 181.39 159.58	4035.50 0.00 10758.80 1363.04 7911.96 1523.50 3106.03 4335.58 3812.40	168.15 0.00 448.28 56.79 329.67 63.48 129.42 180.65 158.85	
4 5 6 7 8 9 10	EGBIN ST2 - 5 SAPELE DELTA AFAM IV-V GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS GEREGU NIPP SAPELE NIPP AZURA - EDO IPP	STEAM STEAM GAS GAS GAS GAS GAS GAS	4256.00 0.00 10871.86 1367.00 7941.30 1542.00 3131.72 4353.25	177.33 0.00 452.99 56.96 330.89 64.25 130.49 181.39 159.58 0.00	4035.50 0.00 10758.80 1363.04 7911.96 1523.50 3106.03 4335.58	168.15 0.00 448.28 56.79 329.67 63.48 129.42 180.65	
4 5 6 7 8 9 10 11 12	EGBIN ST2 - 5 SAPPLE DELTA AFAM IV-V GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS GEREGU NIPP AZURA - EDO IPP ALAOJI NIPP OLO REINSOGO NIPP	STEAM STEAM GAS GAS GAS GAS GAS GAS GAS	4256.00 0.00 10871.86 1367.00 7941.30 1542.00 3131.72 4353.25 3829.80 0.00	177.33 0.00 452.99 56.96 330.89 64.25 130.49 181.39 159.58 0.00 0.00 98.46	4035.50 0.00 10758.80 1363.04 7911.96 1523.50 3106.03 4335.58 3812.40 0.00	168.15 0.00 448.28 56.79 329.67 63.48 129.42 180.65 158.85 0.00	
4 5 6 7 8 9 10 11 12 13 14 15 16	EGBIN ST2 - 5 SAPPLE DELTA AFAM IV-V GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS GEREGU NIPP AZURA - EDO IPP ALAOJI NIPP OLO REINSOGO NIPP	STEAM STEAM GAS GAS GAS GAS GAS GAS GAS GAS GAS GAS	4256.00 0.00 10871.86 1367.00 7941.30 1542.00 3131.72 4353.25 3829.80 0.00 0.00 2363.00 2124.70	177.33 0.00 452.99 56.96 330.89 64.25 130.49 181.39 159.58 0.00	4035.50 0.00 10758.80 1363.04 7911.96 1523.50 3106.03 4335.58 3812.40 0.00 0.00 2304.50 2112.30	168.15 0.00 448.28 56.79 329.67 63.48 129.42 180.65 158.85	
4 5 6 7 8 9 10 11 12 13 14 15 16 17	EGBIN ST2 - 5 SAPELE DELTA DELTA AFAM IV-V GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS GEREGU NIPP AZURA - EDO IPP ALAOJI NIPP OMOTOSHO NIPP OMOTOSHO NIPP OMOTOSHO NIPP OMOTOSHO NIPP OMOTOSHO NIPP	STEAM STEAM GAS	4256.00 0.00 10871.86 1367.00 7941.30 1542.00 3131.72 4353.25 3829.80 0.00 0.00 2363.00 2124.70 6149.73	177.33 0.00 452.99 56.96 330.89 64.25 130.49 181.39 159.58 0.00 0.00 98.46	4035.50 0.00 10758.80 1363.04 7911.96 1523.50 3106.03 4335.58 3812.40 0.00 0.00 2304.50 2112.30 6118.95	168.15 0.00 448.28 56.79 329.67 63.48 129.42 180.65 158.85 0.00 96.02 88.01 254.96	
4 5 6 7 8 9 10 11 12 13 14 15 16 17	EGBIN ST2 - 5 SAPPLE DELTA DELTA AFAMI IV-V GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS SERLEGU NIPP SAPELE NIPP ALAQLI NIPP OLORUNSOGO NIPP OMOTOSHO NIPP ODUKPANI NIPP IHOVBOR NIPP	STEAM STEAM GAS	4256.00 0.00 10871.86 1367.00 7941.30 1542.00 3131.72 4353.25 3829.80 0.00 0.00 2363.00 2124.70 6149.73 2080.25	177.33 0.00 452.99 56.96 330.89 64.25 130.49 181.39 159.58 0.00 0.00 98.46 88.53 256.24 86.68	4035.50 0.00 10758.80 1353.04 7911.96 1523.50 3106.03 4335.58 3812.40 0.00 0.00 2304.50 2112.30 6118.95 2068.02	168.15 0.00 448.28 56.79 329.67 63.48 129.42 180.65 158.85 0.00 96.02 88.01 254.96 86.17	
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	EGBIN ST2 - 5 SAPELE DELTA DELTA AFAMI IV-V GEREGU GAS OMOTOSHIO GAS OLORUNSOGO GAS GEREGU NIPP AZURA - EDO IPP ALAOJI NIEP OLORUNSOGO NIPP OMOTOSHO NIPP OKPAI	STEAM STEAM GAS	4256.00 0.00 10871.86 1367.00 7941.30 1542.00 3131.72 4353.25 3829.80 0.00 0.00 2363.00 2124.70 6149.73 2080.25 5197.00	177.33 0.00 452.99 56.96 330.89 64.25 130.49 181.39 159.58 0.00 0.00 98.46 88.53 256.24 26.68	4035.50 0.00 10758.80 1363.04 7911.96 1523.50 3106.03 4335.58 3812.40 0.00 0.00 2304.50 2112.30 6118.95 2068.02 5038.60	168.15 0.00 448.28 56.79 329.67 63.48 129.42 180.65 158.85 0.00 96.02 88.01 254.96 86.17 209.94	
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	EGBIN ST2-5 SAPELE DELTA AFAMVY AFAMVY GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS SAPELE NIPP AZURA - EDO IPP ALAOJI NIPP ODUKPANI NIPP IHOVBOR NIPP OKPAI AFAMVI	STEAM STEAM GAS	4256.00 0.00 10871.86 1387.00 7941.30 1542.00 3131.72 4353.25 3829.80 0.00 0.00 2124.70 1439.73 2080.25 5197.00 7217.53	177.33 0.00 452.99 56.96 330.89 64.25 130.49 181.39 159.58 0.00 0.00 98.46 88.53 256.24 86.68 216.54	4035.50 0.00 10758.80 1363.04 7911.95 1323.50 3106.03 4335.58 3812.40 0.00 0.00 2304.50 2112.30 6118.95 2068.02 5038.60	168.15 0.00 448.28 56.79 329.67 63.48 129.42 180.65 158.85 0.00 96.02 88.01 254.96 86.17 209.94	
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	EGBIN ST2 - 5 SAPELE DELTA DELTA AFAMI IV-V GEREGU GAS OMOTOSHIO GAS OLORUNSOGO GAS GEREGU NIPP AZURA - EDO IPP ALAOJI NIPP OLORUNSOGO NIPP OMOTOSHO NIPP OMOTOSHO NIPP OMOTOSHO NIPP OMOTOSHO NIPP OKPAI AFAMI VI IBOM	STEAM STEAM GAS	4256.00 0.00 10871.86 1367.00 1341.30 1542.00 3131.72 4353.25 3829.80 0.00 0.00 2363.00 2363.00 2124.70 6149.73 2080.25 5197.00 7217.53 1917.40	177.33 0.00 452.99 56.96 330.89 64.25 130.49 181.39 159.58 0.00 0.00 98.46 88.53 256.24 300.73 79.89	4035.50 0.00 10758.80 1363.04 7911.95 1523.50 3106.03 4335.58 3812.40 0.00 0.00 0.00 12304.50 21112.30 6118.95 2068.02 5038.60 6984.00	168.15 0.00 448.28 56.79 329.67 63.48 129.42 180.65 158.85 0.00 96.02 88.01 25.49 86.17 209.94 291.00 79.58	
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	EGBIN ST2-5 SAPELE DELTA AFAMVY AFAMVY GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS SAPELE NIPP AZURA - EDO IPP ALAOJI NIPP OLORUNSOGO NIPP OMOTOSHO NIPP OKPAI HOYBOR NIPP OKPAI AFAM VI IBOM	STEAM STEAM GAS	4256.00 0.00 10871.86 1367.00 7941.30 1542.00 3131.72 4353.25 3829.80 0.00 0.00 2363.00 2124.70 6149.73 2080.25 5197.00 7217.53 1917.40 0.00	177.33 0.00 452.99 56.96 330.89 64.25 130.49 181.39 159.58 0.00 0.00 98.46 88.53 256.24 86.68 216.54 300.73 79.89	4035.50 0.00 10758.80 1393.04 7911.95 1523.50 3310.60 33435.38 3312.40 0.00 0.00 2304.50 111.89 2068.02 5038.60 1911.00 1911.00 1911.00 1911.00 1911.00 1911.00 1911.00 1911.00 1911.00 1911.00 1911.00 1911.00 1911.00 1911.00 1911.00 1910.00	168.15 0.00 448.28 56.79 329.67 63.48 129.42 180.65 158.85 0.00 96.02 88.01 254.96 86.17 209.94 291.00 79.58	
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	EGBIN ST2 - 5 SAPELE DELTA DELTA AFAMI IV-V GEREGU GAS OMOTOSHIO GAS OLORUNSOGO GAS GEREGU NIPP AZURA - EDO IPP ALAOJI NIPP OLORUNSOGO NIPP OMOTOSHO NIPP OMOTOSHO NIPP OMOTOSHO NIPP OMOTOSHO NIPP OKPAI MARAN VI IBOM ASCO ASCO	STEAM STEAM GAS	425.00 0.00 10871.86 1367.00 7941.30 1542.00 3131.72 4353.25 0.00 0.00 0.00 2124.70 2080.25 5197.00 7217.53 1917.40 0.00 0.00	177.33 0.00 452.99 56.96 330.89 64.25 130.49 181.39 159.58 0.00 0.00 98.46 88.53 256.24 300.73 79.89 0.00	4035.50 0.00 10758.80 1363.04 7911.95 1523.50 3106.03 4335.58 3812.40 0.00 2304.50 2112.30 6118.95 2068.02 5038.60 6984.00 0.00 0.00	168.15 0.00 448.28 56.79 329.67 63.48 129.42 180.65 0.00 96.02 88.01 254.90 96.02 88.01 79.58 0.00 79.58	
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22 23 24	EGBIN ST2-5 SAPELE DELTA AFAMIVAY GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS SAPELE NIPP AZURA - EDO IPP ALAOJI NIPP OMOTOSHO NIPP OKPAI MARA - EDO IPP ALAOJI NIPP HOYBOR NIPP OKPAI AFAMIVI BOM ASCO AES OMORU	STEAM STEAM GAS	4256.00 0.00 10871.86 1387.00 7941.30 1542.00 3131.72 4553.25 4553.25 0.00 0.00 2363.00 2363.00 2124.70 6149.73 2080.25 5197.00 7217.53 1917.40 0.00 0.00 0.00	177.33 0.00 452.99 56.96 330.89 64.25 130.49 181.39 159.58 0.00 0.00 98.46 88.53 256.24 86.68 216.54 300.73 79.89 0.00 0.00	4035.50 0.00 10758.80 1383.04 7911.95 1523.50 3310.60 3315.35 3312.40 0.00 0.00 2304.50 1118.95 2068.02 5038.60 1911.00 0.00 0.00 0.00 1911.95	168.15 0.00 448.28 56.79 329.67 63.48 129.42 180.65 158.85 0.00 96.02 88.01 254.96 86.17 209.94 291.00 79.58 0.00	
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22 23 24 25	EGBIN ST2 - 5 SAPELE DELTA DELTA AFAMI N-V GEREGU GAS OMOTOSHIO GAS OLORUNSOGO GAS GEREGUNIPP AZURA - EDD IPP AZURA - EDD IPP AZURA - EDD IPP DIMOTOSHO NIPP OLORUNSOGO NIPP O	STEAM STEAM GAS	4256.00 0.00 10871.86 1367.00 13871.86 1367.00 1941.30 1542.00 3131.72 4353.25 4353.25 4353.25 4353.25 4363.00 2363.00	177.33 0.00 452.99 65.96 63.30.89 330.89 330.89 181.39 159.58 0.00 0.00 98.46 26.24 88.53 26.24 88.68 216.34 89.07 89	4035.50 0.00 10758.80 1363.04 7911.95 1523.50 3106.03 4335.58 3812.40 0.00 0.00 2304.50 2304.50 2312.30 6118.95 2668.02 5038.60 6984.00 0.00	168.15 0.00 448.28 56.79 329.67 63.48 129.42 180.65 158.85 0.00 96.02 88.01 254.96 86.17 209.94 291.00 79.58 0.00 0.00	
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22 23 24	EGBIN ST2-5 SAPELE DELTA AFAMYAY GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS SAPELE NIPP AZURA - EDO IPP ALADJI NIPP UNORVANI NIPP HOYBOR NIPP OKPAI AFAM VI IBOM ASCO AES OMOKISHO GAS OMOKISHO	STEAM STEAM GAS	4256.00 0.00 10871.86 1387.00 1387.00 1387.00 1387.00 1387.00 1387.00 1341.30 1542.00 3131.72 4353.25 4353.25 4353.25 4353.00 2363.00 2363.00 2363.00 2363.00 23721.75 13917.40 0.00 0.00 0.00 1329.50 0.00 0.00 572.44	177.33 0.00 452.99 65.96 330.89 330.89 330.89 330.89 130.49 181.39 159.58 0.00	4035.50 0.00 10758.80 1373.01 7911.95 1523.50 3106.03 4335.38 3812.40 0.00 0.00 2304.50 6118.95 2068.02 5088.02 5088.02 509.00 0.00 0.00 0.00 0.00 509.00	168.15 0.00 448.28 56.79 329.67 63.48 129.42 180.65 158.85 0.00 96.02 88.01 254.96 88.01 254.96 80.00 95.02	
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22 23 24 25 26	EGBIN ST2 - 5 SAPELE DELTA JENES JEN	STEAM STEAM STEAM GAS	4256.00 0.00 10871.86 1367.00 13871.86 1367.00 1941.30 1542.00 3131.72 4353.25 4353.25 4353.25 4353.25 4363.00 2363.00	177.33 0.00 452.99 55.95 56.95 56.95 64.25 130.49 181.39 159.58 0.00 0.00 98.46 86.68 26.24 86.68 27.24 86.68 27.25 28.24 86.68 86.68	4035.50 0.00 10758.80 1363.04 7911.95 1523.50 3106.03 4335.58 3812.40 0.00 0.00 2304.50 2304.50 2312.30 6118.95 2668.02 5038.60 6984.00 0.00	168.15 0.00 448.28 56.79 329.67 63.48 129.42 180.65 158.85 0.00 96.02 88.01 254.96 86.17 209.94 291.00 79.58 0.00 79.58 0.00 23.68 90.00 23.68 90.00 23.68 90.00 23.68 90.00 23.68 90.00 23.68 90.00 23.68 90.00 23.68 90.00 23.68 90.00 23.68 90.00 23.68 90.00 23.68 90.00 9	
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	EGBIN ST2-5 SAPELE DELTA AFAMYAY GEREGU GAS OMOTOSHO GAS OLORUNSOGO GAS SAPELE NIPP AZURA - EDO IPP ALADJI NIPP UNORVANI NIPP HOYBOR NIPP OKPAI AFAM VI IBOM ASCO AES OMOKISHO GAS OMOKISHO	STEAM STEAM GAS	4256.00 0.00 10871.86 1367.00 13871.86 1367.00 1941.30 1542.00 3131.72 4353.25 4353.25 4353.25 4353.25 4352.980 0.00 2164.77 6149.73 2189.70 217.53 2197.00 2121.75 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	177.33 0.00 452.99 65.96 330.89 330.89 330.89 330.89 130.49 181.39 159.58 0.00	4035.50 0.00 10758.80 1363.04 7911.95 1523.50 3106.03 4335.58 3812.40 0.00 0.00 2304.50 2304.50 2412.30 6118.95 2068.02 5038.60 6984.00 1910.00 0.00 1910.00 568.20 568.	168.15 0.00 448.28 56.79 329.67 63.48 129.42 180.65 158.85 0.00 96.02 88.01 254.96 88.01 254.96 80.00 95.02	

1.7A	GENERATION POSITION AT	06:00HRS OF TUESE	DAY 09/01/2018						
	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	440	1G5, 6, 11 & 12	440		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	190	190	2G1 & 5	190	168	2G2 - 3 - Tripped due to loss of auxiliary supply. 2G6 – Out due to burnt generator winding and
	SHIRORO HYDRO	4	2 411G1 & 3	290	290	2 411G1 & 3	290		AVR. 411G2 - Tripped and the load itself to zero. 411G4 - Out due to radiator problem.
		5	2	290	290	2	290		ST1 - Tripped on generator CB trouble. ST2 - Out on undisclosed fault. ST3 - Tripped on high
ANIES	EGBIN STEAM	J	ST4 & 5	440	440	ST4	220	176	vibration. ST5 - Out due to gas constraint.
ED COMP	SAPELE (STEAM)	6	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.
PRIVATIS	DELTA (GAS)	18	GT4, 7, 9 -13, 15, & 20 9	355	355	GT4, 7, 9 - 13, 15, & 20 9	355	333	GT3 & 5 – Out due to generator winding fault. GT6 & 14 - Out on major overhaul. GT8 & 18 - Out on maintenance. GT16 & 19 - Out to replace dirty filter. GT17 - Out on excitation trouble.
	AFAM IV & V (GAS)	8	GT18	75	63	GT18 1	63	63	GT1 - 12 - De-commissioned and scrapped. GT13 -16 - Out on blade failure. GT17 - Tripped on loss of excitation. GT19 & 20 - Awaiting major overhaul.
	GEREGU GAS	3	GT11 - 13 3	435	435	GT11, 12 & 13 3	435	384	Available units on bar.
	OMOTOSHO GAS	8	GT1 - 8	336	304	GT1, 2 & 5	114	111.1	GT3, 4 & 6 - 8 - Out due to gas constraint.
	OLORUNSOGO GAS	8	GT1 - 8	336	304	GT2, 4 & 5	114	106.8	GT1, 3 & 6 - 8 - Out due to gas constraint.
	GEREGU NIPP	3	GT22 & 23 2	290	290	GT22 & 23 2	290	185	GT21 - Out on maintenance. GT22 - Generation reduced due to gas constraint.
	SAPELE NIPP	4	GT1 & 2	225	225	GT1 & 2	225	125.2	GT3 - Out on undisclosed fault. GT4 - Tripped on fire protection alarm.
	ALAOJI NIPP GAS	4	GT1 & 2	250	240	0	0	0	GT1 & 2 - Tripped due to low gas pressure. GT3 - Shut down due to generator air inlet filter trouble. GT4 - Out on maintenance.
	OLORUNSOGO NIPP GAS	6	GT1 - 3	360	360	GT2	120	111.1	GT1 & 3 - Out due to gas constraint. GT4 - Out of production since 25/10/2016. ST13 & ST23 - Out on maintenance.
MP	OMOTOSHO NIPP GAS	4	3 GT1, 2 & 4	375	360	T GT1	120	97.8	GT2 & 4 - Out due to gas constraint. GT3 - Shut down due to oil leakage on the unit.
	ODUKPANI NIPP	5	3 GT1, 3 & 5	360	345	1 GT1, 3 & 5 3	345	340.3	GT2 - Out due to control system problem. GT4 - Shut down to avoid fire outbreak.
	IHOVBOR NIPP	4	GT1 - 3	337.5	337.5	GT2	112.5	82.4	GT1 & 3 - Out due to gas constraint. GT4 - Out on maintenance.
	GBARAIN NIPP GAS	1	3 GT2	112.5	112.5	0 0	0	0	GT2 - Shut down due to low gas pressure.
	OKPAI GAS/STEAM	3	GT11, 12 & ST18	375	375	GT11, 12 & ST18	375	243	GT11 - Generation reduced on frequency management. GT12 - Generation reduced due to air inlet differential pressure.
	AZURA - EDO	0	0	0	0	0	0	0	GT11 - Undergoing commissioning tests. GT12 & 13 - Awaiting commissioning.
	AFAM VI GAS/STEAM	4	GT11 - 13 & ST10	650	650	GT11 - 13	450	348	GT13 - Generation reduced on frequency management. ST10 - Out on frequency management.
	IBOM POWER GAS	3	4 GT3 1	115	115	GT3 1	115	104	GT1 & 2 - Out on fault.
<u>d</u>	AES		0	0	0	0	0	0	Out of production since 27/09/2014.
	ASCO		ŭ	0	0	Ü	0		GT1 - Shut down due to leakage in the furnace.
	OMOKU GAS	6	GT1, 2, 5 & 6	100	80	GT1, 2, 5 & 6 4	80	60.6	GT3 - Out due to gas leakage. GT4 - Awaiting major overhaul. Generation reduced due to gas constraint.
	TRANS-AMADI	4	0	0	0	0	0	0	GT1 & 4 - Station shut down due to fatal accident on 1st January 2018.
	RIVERS	1	0	0	0	0	0	0	GT1 - Out on maintenance.
1	SUB TOTAL	126	70	6447	6311	49	4453.5	3691.3	Frequency = 50.40Hz.

1.7B GENERATION POSITION AT 06:00HRS OF TUESDAY 09/01/2018 FOR UNITS ON BILATERAL AGREEMENT

FORM		ST6	000	220	ST6	220	204	Available unit on bar.
EGBIN	1	1	220	220	1	220	204	
PARAS ENERGY	8	GT2 - 9	68.6	68.6	GT2 - 9	68.6	68.6	Available units on bar.
	· ·	8	****	00.0	8		.0	
SUB TOTAL	9	9	288.6	288.6	9	288.6	272.6	
GRAND TOTAL	135	79	6735.6	6599.6	58	4,742.10	3,963.90	Frequency = 50.40Hz.

NB: Observation shows that many stations remove their units from frequency response at 06:00Hrs without instruction from NCC.

1.7C		BILAT	ERAL AGREEMENT U	INITS DISPATCH - MONDAY 0	8/01/2018
	FEEDERS NAME	MAX. LOAD (MW)	TIME (HRS)	HOURS IN SERVICE	REMARK
		Egbin ST6	120MW GENERATION TO	IKEJA ELECTRICITY DISTRIBUT	TON COMPANY
	U-STEEL	1	1000HRS	22	SYSTEM OUTAGE
ОСВА	PTCEXPRESS	5	0300HRS	12	TRIP INST O/C R-PHASE & SYSTEM OUTAGE
8	SANKYO	ON	0100HRS	22	SYSTEM OUTAGE
	FEEDER 8	15	1700HRS	22	SYSTEM OUTAGE
	PULK IT	1	0800HRS	22	SYSTEM COLLAPSE
ΩQ	INDUSTRIAL	17	0800HRS	22	SYSTEM COLLAPSE
IKORODU	SPINTEX	3	1600HRS	22	SYSTEM COLLAPSE
-	DANGOTE	3	1600HRS	22	SYSTEM COLLAPSE
	LAND CRAFT	44	2100HRS	22	SYSTEM COLLAPSE
	TR4 15MVA	7.5	1300HRS	22	SYSTEM COLLAPSE
	TR5 -15MVA	5.5	1000HRS	22	SYSTEM COLLAPSE
ALAUSA	ALAUSA	16.6	1400HRS	22	SYSTEM COLLAPSE
M/LAND	PTC (MARYLAND)	14	1400HRS	22	SYSTEM COLLAPSE
	TOTAL LOAD	132.6			

BILATERAL AGREEMENT LOAD DISPATCH

FEEDER	MAX	TIME	HOURS IN SERVICE	REMARK
lkeja West/Sakete 330kV line	70.2	06:00	21	Out due to system collapse.

1.8 HYDROLOGICAL DATA: TUESDAY 09/01/2018

	KAINJI	JEBBA	SHIRORO
HEAD WATER ELEVATION (METERS)	141.59	102.75	374.48
TAIL WATER ELEVATION (METERS)	104.60	72.40	270.50
GROSS OPERATING HEAD (METERS)	36.99	30.35	103.98
AVERAGE TURBINE DISCHARGE (M3/SEC)	993.00	343.00	272.00
AVERAGE SPILLAGE (M3/SEC)	117.00	0.00	0.00
AVERAGE TOTAL STATION DISCHARGE (M3/SEC)	1110	343	272
COMPUTED INFLOW (M3/SEC)	1242.00	1315.00	13.00
STORAGE DIFFERENTIAL	132.00	972	-259
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 MONDAY 08/01/2018

DISCO	MAXIMUM LOAD(MW)	TIME(HRS)	ALLOCATED LOAD (MW)	MINIMUM LOAD(MW)	TIME(HRS)
ABUJA	466.30	14:00	540.76	56.9	23:00
EKO	458.9	14:00	617.24	35.2	0:00
IKEJA	531.0	21:00	805.3	311.1	03:00

2.0 GAS POSITION: TUESDAY 09/01/2018

STATION	SIGNED ACQ Annual Contracted Quantity MMSCF/D	NGC DECLARED QUANTITY (MMS317.578CF/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	12		1100		440	660
DELTA (GAS)	532		915		355	560
OMOTOSHO GAS	75.4		336.8		114	222.8
OMOTOSHO NIPP	100.6		500		120	380
OLORUNSOGO (GAS)	133.9		336		114	222
OLORUNSOGO NIPP	109.7		750		120	630
SAPELE NIPP	172.6		500		225	275
SAPELE STEAM	0		720		0	720
AFAM IV-V	64		300		63	237
AFAM VI	248		650		450	200
GEREGU GAS	391		435		435	0
GEREGU NIPP	204		435		290	145
OKPAI (GAS/STEAM)	240		480		375	105
ALAOJI NIPP	0		504		0	504
IHOVBOR NIPP	96.8		450		112.5	337.5
IBOM	85.5		198	•	115	83
ODUKPANI NIPP	293.8		625		345	280
TOTAL	2759.3		9235.38		3673.5	5561.3

1 MMSCF IS	EQUIVALENT '	TO 3.75MW

3.0 SPINNING RESERVE FOR: MONDAY 08/01/2018

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

3.1 SYSTEM SPINNING RESERVE AS AT 0600HRS OF TUESDAY 09/01/2018 0MW. FREQUENCY

S/N	POWER STATION	UNIT ON SPINNING RESERVE	CONTRACTED RESERVE	ACTUAL RESERVE (MW)	TOTAL (MW)
		ST2		0	
		ST4	1	0	0
1	Egbin	ST5	100	0	
		ST6		0	
2	Delta	GT16	40	0	0
	Doka	GT17	40	0	Ů
		GT1	40	0	0
3	Olorunsogo NIPP	GT2		0	
5 Cidransogo (4)1 1	GT3	- 10	0	· ·	
			GT4		0
4	Geregu NIPP	GT22	35	0	0
5 Omotosho NIPP		GT1		0	
	GT2 GT3	40	0	0	
		GT4		0	
TOTAL (MW)			295	0	0

4.0 UNUTILIZED GENERATION CAPABILITY

S/NO	STATION	ACTUAL GENERATION CAPABILITY (MW)	GENERATION AT 0600HRS (MW)	UNUTILIZED GENERATION CAPABILITY (MW)	SUB -TOTAL
		4.1 DUE TO GAS	CONSTRAINTS:		
1	Ihovbor GT1 & 3	225	0	225	
2	Alaoji NIPP GT1 & 2	240	0	240	
3	Omotosho Gas GT3, 4 & 6 - 8	190	0	190	
4	Olorunsogo Gas GT1, 3 & 6 - 8	190	0	190	
5	Omoku GT1, 2, 5 & 6	80	60.6	19.4	
6	Olorunsogo NIPP GT1 & 3	240	0	240	
7	Egbin ST2 & 5	440	0	440	1849.4
8	Omotosho NIPP GT2 & 4	240	0	240	1040.4
9	Geregu NIPP GT22	145	80	65	
				0	
				0	
				0	
				0	
				0	

ARE ON BAR.					
	4.	2 DUE TO LINE COM	ISTRAINTS		
				0	
				0	0
				0	
4.3 DUE TO FREQUEN		CCASIONED BY DIS	COS' LOAD DEMA	ND	
1 Afam VI ST10	ß GT 13	350	80	270	
2 Okpai GT11		150	125	25	
				0	
				0	
				0	
				0	
				0	295
				0	
				0	
				0	
				0	
				0	
				0	
	4.	4 DUE TO WATER MA	NAGEMENT		
				0	0
		Total			2144.4

5. 0 OUTAGES:

5 (A) FORCED OUTAGES (GENERATION):-

1 09:32Hrs, Omoku GTs 1, 2, 5 & 6 tripped on reverse power due to the tripping of Alaoji/Afam/IPP/port Harcourt 132kV line 2. Total LHR = 62.4MW 10:14Hrs, GT2 was tied. 10:16Hrs, GT1 was tied and 10:17Hrs, GTs 5 & 6 were tied respectively.

5 (B) FORCED OUTAGES (TRANSMISSION):

1 09:15 - 09:48Hrs, Alaoji/Owerri 132kV line 2 CBs tripped at both ends without relay indications: LHR = 18MW

2 09:32 - 09:49Hrs, Alaoji/Afam/IPP/Port Harcourt 132kV line 2 CB tripped at both ends on the following relay indications:

At Alaoii T/S:

Trip Relay, TR1A, TR2A lock out SOTF. LHR = 22MW

At Afam T/S: O/C Red Yellow & Blue phases. LHR = 22MW

3 17:50 - 18:17Hrs, Alaoji/Afam/IPP/Port Harcourt 132kV line 2 tripped at Alaoji T/S on the following relay indications.

Ohmega Main 1 Relay: SOTF

Ohmega Main 2 Relay: SOTF

Micom Relay: I>L3. LHR = 24MW

4 17:50 - 18:15Hrs, Alaoji/Owerri 132kV line 2 tripped at Alaoji T/S without relay indication. LHR = 46MW

5 17:50 - 18:18Hrs, Alaoji/Owerri 132kV line 1 tripped at Owerri T/S on directional O/C relay. LHR = 46MW

6 19:41 - 19:48Hrs, Ayede/Ibadan North/Iwo/Iseyin 132kV line tripped at Ayede T/S on Siemens back up relay: O/C Red & Blue phases. LHR = 75MW

SYSTEM COLLAPSE REPORT OF 08/01/2018 AT 21:25HRS

OBSERVATION FROM NCC CONTROL DESK

System frequency sharply dropped from 50.31Hz to 47.27Hz and resulted in system collapse. Total load loss was 4915.7MW.

REPORT FROM THE STATIONS.

21:25Hrs, Shiroro/Abuja 330kV line (cct R4B) CBs tripped at both ends on the following relay indications:

At Shiroro T/S:

ABB Relay: General trip, start Z<R, start Z<Y, start Z<B and start Z<E. LHR = 332.5MW

At Katampe T/S: Without relay indication.

21:25Hrs, Shiroro/Gwagwalada 330kV line (cct R5G) CBs tripped at both ends on the following relay indications:

At Shiroro T/S:

ABB Relay: General trip, start <R, start <Y, start Z<B, start <E, trip Z<zone 3, lock out trip and auto reclosure blocked. LHR = 294.5MW

At Gwagwalada T/S: Without relay indication.

21:26Hrs, Jebba 2G1, 2, 4 & 5 tripped on the following relay indications:

Jebba 2G1: Emergency shut down 86-1, emergency 86-2 generator O/C backup protection, suitable for degenerative static excitation 50-27. LHR = 90MW

Jebba 2G2: Temperature shut down 86-5, generator O/C backup protection, suitable for generative static excitation 50-27. LHR = 80MW

Jebba 2G4: Temperature shut down 86-5. LHR = 80MW

Jebba 2G5: Emergency shut down 86-1, emergency 86-2 generator O/C backup protection, suitable for degenerative static excitation 50-27. LHR = 87MW

21:26Hrs, Jebba G/S/Jebba T/S 330kV line 1 (cct B8J) CB tripped at Jebba G/S on PLS-STF NL1 PLS-STF NL2, PSD start.

RESTORATION

21:29Hrs, Delta GT16 was tied

21:31Hrs. Shiroro P/S was instructed to start a unit and feed Abuia.

21:37Hrs, Shiroro P/S was instru 21:37Hrs. Delta GT13 was tied.

21:38Hrs, Delta GT19 was tied.

21:42Hrs, cct G3B was restored

21:44Hrs, cct R4B was restored

21:45Hrs, ccts H7V and V7B were restored

RESTORATION CONTINUES

- 5 (E) EMERGENCY OUTAGES:- Nil.
- 5 (F) AUTOMATIC UNDER FREQUENCY OPERATION:-
- 5 (G) 330KV LINES THAT ARE OUT ON VOLTAGE CONTROL:- ccts A1S, U1A, D2K & K4U.
- 5 (H) 330KV LINES THAT ARE OUT ON BREAKER PROBLEM: cct N4J (on soak at Egbin T/S)
- 5 (I) 330KV LINES THAT ARE OUT ON PLANNED OUTAGE:-
- 5 (J) 330KV LINES THAT ARE OUT ON LINE FAULT:- cct S5B

5 (C) PLANNED OUTAGES:-

- 6 WEATHER REPORT:- NIL
- 7 INTERNATIONAL LINES:-

5(D) URGENT OUTAGES:

1 13:59Hrs, Gbarain NIPP GT2 was shut down due to low gas pressure. Load loss = 43MW

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 2 - OTHER 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.

GROUP 7 - ALL OTHER PLANTS.

A IKEJA WEST/SAKETE 330KV LINE(TCN+PARAS)

Maximum load - 236MW at 21:00Hrs. Minimum load - 92MW at 24:00Hrs.

B BIRNIN KEBBI/NIAMEY 132KV LINE Maximum load - 86MW at 20:00Hrs.

Minimum load - 20.0MW at 24:00Hrs.

C KATSINA/GAZAOUA/MARADI 132KV LINE

Maximum load - 28.1MW at 20:00Hrs.

Minimum load - 8MW at 24:00Hrs.

8 MISCELLANEOUS:-

00:59Hrs, Afam V1 P/S GT11 was shut down on frequency management.

Load loss =

- $2\,$ $\,$ 05:30Hrs, Egbin ST6 was tied. The unit was out due to fire outbreak on gas pipeline.
- 3 05:39Hrs, Egbin ST2 was tied. The unit was out on gas constraint.
- 4 08:32Hrs, Kainji/Jebba 330kV line 2 (cct K2J) was restored
- 5 10:29Hrs, Egbin P/S ST4 was tied. The unit was out on gas constraint.
- 6 10:33Hrs, Egbin/Oke-Aro 330kV line 2 (cct N8K) was restored
- 7 11:34Hrs, Olorunsogo GT6 was tied. The unit was out on gas constraint.

10 SYSTEM BLACK START CAPABILITY

Delta, Shiroro & Egbin - Available.

11 (A) COMMUNICATION MEDIA

STATIONS	NO. INSTALLED	NO. WORKING
PLC/PAX	37	33
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	7	12
132kV	102	84	18

12(A) UNAVAILABLE TRANSFORMERS/REACTORS:

SHIRORO REGION:

- 1 Apo T/S 60MVA 132/33kV transformer TR3 Burnt.
- 2 Birnin Kebbi 75MX Reactor R1.

KADUNA REGION:

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

- 8 11:53Hrs, lkeja-West T/S 330kV 75MX Reactor R1 was switched off on voltage control. V/P = 308/313kV
- 9 13:02Hrs, Jebba 2G4 was tied. The unit tripped due to loss of auxiliary supply.
- 10 13:30Hrs, Jebba 2G1 was tied. The unit tripped due to loss of auxiliary supply.
- 11 14:31 17:58Hrs of 07/01/2018 Kumbotso T/S 30MVA 132/33kV transformer TR1 was taken out to enable maintenance crew rectify the cause of the differential tripping on the transformer. No load interruption as transformer was on soak.
- 12 17:01Hrs, Rivers IPP GT1 was tied. The unit was out on maintenance.
- 13 17:40Hrs, Job was suspended on Ajah T/S 60MVA 132/33kV transformer T12 due to grounding transformer that failed test.
- 14 19:10Hrs, Jebba 2G5 was tied. The unit was out due to loss of station auxiliary.
- 15 19:13Hrs, Jebba 2G2 was tied. The unit was out due to loss of station auxiliary.
- 16 19:21Hrs, Shiroro P/S increased generation by 100MW. Frequency was 50.21Hz.
- 17 19:25Hrs, Mando T/S 330kV 75MX Reactor 3R2 was switched off on voltage control. V/P = 315/321kV
- 18 20:10Hrs, Benin T/S 330kV 75MX Reactor 6R2 was switched off on voltage control. V/P = 330/333kV
- 19 20:40Hrs, Okpai P/S increased generation by 50MW. Frequency was 50.26Hz
- 20 21:42Hrs of 07/01/2018 through 24:00Hrs, Jebba P/S 2G3 tripped on Emergency shut down 86-1 & 86-2, head gate shut down 86-3, 2 step reverse power, power tripped protection 87/UST-unit service transformer differential and Harmonic restrain. 50/27 generator O/C back up protection suitable for regeneration static excitation 64/9/G generator stator ground fault. LHR = 70MW
- 21 21:42Hrs of 07/01/2018 through 24:00Hrs, Jebba P/S 2G5 tripped on rapid shut down, 86-4, emergency shut down 86-1, emergency shut down 86-1, who step reverse power protection, integrator 87/USB unit transformer differential protection and Harmonic restrain. LHR = 70MW
- 22 21:19Hrs, Afam VI GT11 was tied.
- 23 21:52Hrs, Jebba P/S 2G2 was shut down due to lost of station supply. Load loss = 70MW
- 24 21:52Hrs, Jebba P/S 2G4 was shut down due to lost of station supply. Load loss = 70MW
- 25 23:27Hrs, cct B11J was taken out on voltage control. V/P = 348/343kV
- 26 LACK OF REACTOR AND UNRELIABLE STATION SERVICE SUPPLY AT IKOT-EKPENE T/S ARE HINDERING SMOOTH OPERATION.

12(D) LAGOS REGION

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

SHIRORO REGION:- NII

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.

DAILY OPERATIONAL REPORT

BAUCHI REGION:

1 Gombe T/S -30MX Reactor R2A.

ENUGU REGION:

1 Onitsha T/S 90MVA 330/132/13.8kV transformer 9T2 - Out due to differential fault.

LAGOS REGION:

1 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/Ikeja West 330kV lines 1 & 2 tie CB at Ikeja West T/S Defective pole.
- 6 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.

OSOGBO REGION:

1 Omotosho 330kV T/S, 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.
- 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 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 NIL

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

12 (F) LINES WITH MISSING SKY WIRE

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.
- 4 Ikeja West/Alimosho/Ogba 132kV lines 1 & 2 15 spans.
- 5 Ikeja West/Akangba 330kV line 2 1 span.
- 6 Ikeja West/ Ilupeju 132kV lines 1 & 2 8 spans.
- Akangba/Itire 132kV lines 1 & 2 1 span.
- 8 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 Apo T/S 132kV Keffi line 36 spans
- 4 Shiroro T/S 330kV Jebba line 2 28 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 -

- a PAX 09/300, 309, 303 & 305.
- b NCC GSM 08074888524, 08069379367, 08023572651 & 08051401331. CUG Nos. 08129458488, 08129458489, 08129929806; 08036665323.
 - PLS 622
- d GM (NCC) 08036744641.
- e AGM (S/O) 08056002757, CUG: 08129458475



