

# MINUTES OF THE 46<sup>th</sup> SLCF MEETING HELD ON 15.09.2016

Shri. Rafikul Islam, Chief Engineer (SLDC), WBSETCL & Chairperson, SLCF welcomed all the participant members to the 46<sup>th</sup> SLCF meeting.

## **ITEM-1: CONFIRMATION OF THE MINUTES OF THE 45<sup>th</sup> SLCF MEETING HELD ON 14/06/2016.**

The minutes of the 45<sup>th</sup> SLCF meeting was circulated vide memo no: SLDC/How/109/424 dated 29/06/2016 and the same was also published in the official website of SLDC ([www.wbslhc.in](http://www.wbslhc.in))

WBPDCCL representative raised a request against the Agenda no. (A) of 6.1 under item no. 6 of the minutes of 45<sup>th</sup> SLCF meeting stating that the calculation procedure of Unit shut down DC for Low System Demand should be incorporated in MOM. The house agreed to incorporate the calculation procedure.

**Therefore, the procedure of Unit shut down DC for Low System Demand is as follows-----**

### **Case1: When a running unit is de-synchronized due to low system demand then---**

If,  $DC_B = DC$  in MW of the Power Station in the block when the unit was available (Before de-synchronization of the unit).

$DC_A = DC$  in MW of the Power Station in the block when the unit became unavailable (After de-synchronization of the unit).

#### **Backing down DC = $(DC_B - DC_A)$**

If, Backing down DC become greater than Rated S/O generation (considering installed capacity and normative auxiliary consumption) in MW of the concerned unit then,

#### **Backing down DC = Rated S/O generation in MW of the concerned unit.**

This backing down DC in MW is considered for every block until further synchronization of the unit as per instruction or 12 hours from instruction for synchronization whichever is earlier.

DC during Ramp-up and Ramp-down is also considered.

### **Case2:When an out of Bus unit want to synchronise and that unit is being restricted from synchronization due to low system demand then---**

Backing down DC is considered from the block when the unit was actually desired to be synchronised by the plant. The block is being mentioned in the message by WBPDCCL.

#### **Backing down DC = Maximum S/O generation in MW of the concerned unit within 12 hours after synchronization to the Grid as per instruction.**

This backing down DC in MW is considered for every block until further synchronization of the unit as per instruction or 12 hours from instruction for synchronization whichever is earlier.

**ITEM-2: REVIEW OF THE STATE GRID PERFORMANCE:**

**Power point presentation on Grid Performance for the month of June-16, July-16 & August-16**

Superintending Engineer, SLDC made a Power point presentation on the grid performance based on operational statistics for the period June -16, July -16 & August-16. A critical analysis on the grid performance reveals the following:

2.1 Availability of WBPDCCL power plants in terms of \*NAPAF & \*PAFM for the month of June -16, July -16 & August-16 are as follows:

Generating Station.	June-16		July-16		August-16	
	NAPAF (%)	PAFM (%)	NAPAF (%)	PAFM (%)	NAPAF (%)	PAFM (%)
<i>BTPS</i>	74	<b>31.95</b>	74	<b>37.66</b>	74	<b>52.32</b>
<i>STPS</i>	85	<b>96.58</b>	85	<b>81.57</b>	85	<b>49.51</b>
<i>KTPS</i>	75	<b>67.03</b>	75	<b>63.50</b>	75	<b>56.10</b>
<i>BkTPP-I</i>	85	<b>85.80</b>	85	<b>84.90</b>	85	<b>75.45</b>
<i>BkTPP-II</i>	85	<b>95.18</b>	85	<b>91.95</b>	85	<b>75.37</b>
<i>SgTPP</i>	85	<b>70.07</b>	85	<b>86.51</b>	85	<b>76.68</b>

\* **NAPAF**: Normative Annual Plant Availability Factor (in %).

\***PAFM** : Plant Availability Factor achieved during the Month (in %).

2.2 Potential Demand of WBSEDCL in MU.

WBSEDCL								
June-15	June-16	Remarks	July-15	July-16	Remarks	August-15	August-16	Remarks
2899.813	3178.086	9.6 % Rise	2900.167	3206.076	10.55 % Rise	3106.646	3206.368	3.21 % Rise

2.3 Gross Generation of WBPDCCL ( in MU ) during June -16, July -16 & August-16.

June-16	July-16	August-16
<b>2029.46</b>	<b>2116.63</b>	<b>1889.45</b>

2.4 System met and system Potential of distribution licensees during June -16, July -16 & August-16 were as follows:

CONSTITUENT	June-16		July-16		August-16	
	System Met (MU)	System Potential (MU)	System Met (MU)	System Potential (MU)	System Met (MU)	System Potential (MU)
<b>WBSEDCL (OWN)</b>	<b>3164.281</b>	<b>3178.086</b>	<b>3196.401</b>	<b>3206.076</b>	<b>3187.597</b>	<b>3206.368</b>
<b>CESC</b>	<b>1096.749</b>	<b>1096.749</b>	<b>1034.452</b>	<b>1034.452</b>	<b>1053.62</b>	<b>1053.62</b>
<b>DPL</b>	<b>175.0471</b>	<b>175.3063</b>	<b>184.8927</b>	<b>185.8246</b>	<b>165.0314</b>	<b>166.7074</b>

2.5 The Maximum demand (potential) and their time of occurrence during June -16, July -16 & August-16 were as follows:

CONSTITUENT	MAXIMUM DEMAND (MW)		
	June-16	July-16	August-16
<b>WBSEDCL (OWN)</b>	5950 MW on 29.06.16 at 21.00 hrs.	5837 MW on 13.07.16 at 20.00 hrs.	6069 MW on 30.08.16 at 21.00 hrs.
<b>CESC</b>	1937 MW on 11.06.16 at 15.00 hrs.	1749 MW on 28.07.16 at 19.00 hrs.	1830 MW on 30.08.16 at 19.00 hrs.
<b>DPL</b>	274 MW on 20.06.16 at 02.00 hrs.	282 MW on 09.07.16 at 18.00 hrs.	266 MW on 24.08.16 at 24.00 hrs.

The new Transformers, EHT lines and equipments commissioned during this period were also deliberated by S.E, SLDC. (**List of new Transformers, EHT lines & equipments are shown in Annexure-1**).

**ITEM No. 3. IMPORTANT GRID INCIDENTS:**

1. On 19/08/16, at 13.39 hrs 220 KV Gokarna-BkTPP Ckt #1 tripped at Gokarna end and power failed at BkTPP 220 KV M. Bus –I due to tripping of all other connected feeders from far end. BkTPP units #3 & 5 went out of bus due to incident.

--- **WBPDCCL & WBSETCL representative may please deliberate.**

**Deliberation in the meeting.**

*Representative of WBSETCL and WBPDCCL informed that on that day at 13.39 hrs Earth fault occurred in 220 KV BKTPP-Gokarna Ckt#1 which was in 220 KV MB-1. Due to delayed tripping at BkTPP end LBB operated and all the feeders and generators connected to 220 KV MB-1 tripped along with Bus Coupler through 96 relay and 220 KV MB-1 became dead. At that time Bidhannagar #2, Satgachia #2, 220 KV/33 KV PASS Bay, Generator #3 & 5, IBT #2 and ST #4 were connected to MB-1. Generator # 5 went in house load. But Gen #3 tripped with reheat protection and Gen #5 was resynchronized at 14.40 hrs.*

**WBPDCCL confirmed that after complete investigation, they have found out that there was problem in B-phase pole of the said Breaker of Gokarna Ckt#1 at BkTPP end.**

**The house proposed for Breaker replacement.**

2. On 01/09/16 at 11:05 hrs 132KV Bigati – Bandel Ckt #1 tripped at both end and Bigati-Bandel #2 tripped at Bigati end only. Due to the incident all running units of BTPS (#1, 2, 4 & 5) tripped.

**--- WBPDCCL & WBSETCL representatives may please deliberate**

**Deliberation in the meeting.**

**WBPDCCL’s representative informed that, at 11.05 hrs on 01.09.16 , 132 KV BTPS-Bigati ckt #1 tripped at BTPS end with relay indication (B-N), Z5, fault clearing time 1005 ms. At that time the said ckt was kept diverted through B/C bay (East-side) at BTPS end. Due to delayed fault clearing from BTPS end all the running units of BTPS tripped.**

**WBSETCL representative informed that at Bigati end, BTPS ckt #1 tripped with relay indication (B-N), Z1 and BTPS ckt #2 tripped with relay indication (B-N), Z3. WBSETCL representative also informed that due to B-ph conductor snapping i.r.o BTPS-Bigati ckt #1, the said tripping incident occurred.**

**The house expressed that this is a case of relay un-coordinated tripping. So, Relay co-ordination between WBSETCL and BTPS is needed. WBPDCCL Corporate agreed to take immediate corrective action in co-ordination with WBSETCL, CTD department.**

**ITEM No. : 4. OPERATIONAL PLANNING:-**

**(a) ANTICIPATED POWER SUPPLY POSITION DURING DURGA PUJA FESTIVAL PERIOD i.e FROM 05.10.15 – 11.10.15 (CHATURTHI TO DASHAMI)**

*[All concerned are requested to furnish detailed anticipated Demand and Generation forecast for these individual dates]*

System Peak Demand in MW							
Constituent	05-Oct-16	06-Oct-16	07-Oct-16	08-Oct-16	09-Oct-16	10-Oct-16	11-Oct-16
	CHATURTHI (Wednesday)	PANCHAMI (Thursday)	SASTHI (Friday)	SAPTAMI (Saturday)	ASTAMI (Sunday)	NAVAMI (Monday)	DASHAMI (Tuesday)
WBSEDCL total requirement	6410	6440	6480	6210	5960	5775	5710
CESC	1880	1940	1920	1650	1500	1350	1250
DPL	250	250	250	245	235	200	200
IPCL	50	50	50	50	50	50	50
<b>Total Peak Requirement</b>	<b>8590</b>	<b>8680</b>	<b>8700</b>	<b>8155</b>	<b>7745</b>	<b>7375</b>	<b>7210</b>

Available Internal Generation and comparison with last year in MW(during peak system)							
Constituent	CHATURTHI	PANCHAMI	SASTHI	SAPTAMI	ASTAMI	NAVAMI	DASHAMI
	5-Oct-16	6-Oct-16	7-Oct-16	8-Oct-16	9-Oct-16	10-Oct-16	11-Oct-16
WBPDC	2920	2920	2920	2920	2920	2920	2920
WBSEDCL Small Hydel	40	40	40	40	40	40	40
PPSP	900	900	900	900	900	900	900
CESC	860	860	860	860	740	740	740
DPL	250	250	250	245	235	200	200
Tata Power & others (WBSEDCL)	20	20	20	20	20	20	20
TLDP (WBSEDCL)	263	263	263	263	263	263	263
HEL (CESC)	530	530	530	530	530	530	530
CPL +PCBL(CESC)	40	40	40	40	40	40	40
<b>Total Internal Generation</b>	<b>5823</b>	<b>5823</b>	<b>5823</b>	<b>5818</b>	<b>5688</b>	<b>5653</b>	<b>5653</b>

(b) Anticipated power supply position for the month of **OCTOBER-2016, NOVEMBER-2016 & DECEMBER-2016** (All figures are in MW) :-

Description	OCTOBER-2016	NOVEMBER-2016	DECEMBER-2016
WBPDC Generation	2920 (70 MU)	2800 (67 MU)	2800 (67 MU)
WBSEDCL Own Maximum Demand	5790	5700	4775
CESC Maximum Demand	1800	1750	1590
CESC Own gen. + HEL + IPP/CPP	740+530+40	500+530+40	500+530+40
DPL Generation Availability	405	220	220
DPL Maximum Demand	250	240	240
IPCL demand at J.K.Nagar	50	50	50

(c) Finalization of Shut Down proposal for the month **OCTOBER-2016, NOVEMBER-2016 & DECEMBER-2016** i.r.o. Generating Units, Transmission Lines and other equipments etc. as provided by constituents.

**(i) SHUT DOWN APPROVED FOR WBPDCCL & CESC GENERATING UNITS:**

<b>UNIT</b>	<b>DURATION</b>	<b>REASON</b>
BTPS # 1	09.10.2016 TO 09.11.2016	Boiler Overhauling
BkTPP # 3	06.11.2016 TO 11.12.2016	B.T.G
STPS # 5	01.12.2016 TO 07.12.2016	Boiler License renewal
SgTPP # 2	10.12.2016 TO 17.12.2016	Boiler License renewal
KTPP # 5	20.12.2016 TO 09.01.2017	Boiler Overhauling
Budge Budge #2, 3	01.11.2016 TO 20.12.2016	Boiler Overhauling
Titagarh #4	06.11.2016 TO 20.11.2016	Annual Overhauling
Titagarh #1	25.11.2016 TO 09.12.2016	Boiler Checking
Titagarh #3	11.12.2016 TO 14.12.2016	Boiler Checking
Southern #1	21.11.2016 TO 24.11.2016	Boiler Checking

**(d) Prolonged outage of power system elements :-**

*----- Concerned constituents may share the latest status on outage of above elements.*

<b>Sl.No.</b>	<b>Network elements under outage</b>	<b>From</b>
1.	400/220 KV, 315 MVA Transformer. at Jeerat	Normalized at 15:43 hrs of 28/07/2016
2.	220/132 KV, 160 MVA Transformer. # 2 at Gokarna	Normalized at 17:08 hrs of 25/08/2016

**ITEM No: 5. ISSUES RAISED BY SLDC:**

A. Non-payment of Deviation Charges by WBPDCCL.

**Deliberation in the meeting:**

*WBPDCCL representatives were requested to take urgent necessary action.*

B. Irregularity in sending meter reading and other energy accounting related information to SLDC by WBPDCCL power stations causing unnecessary delay in publishing statements.

**Deliberation in the meeting:**

*WBPDCCL representative expressed deep concern and confirmed to take necessary action.*



C. VAR charge accounting:

- i) Opening of LC as per Hon'ble WBERC's verdict
- ii) Regular payment of VAR charges within stipulated time frame to avoid delayed payment of VAR charges to ERPC from West Bengal which invites late payment surcharge.
- iii) Payment for VAR charge should not be mixed up with Deviation charge or any other charges.

**Deliberation in the meeting:**

*All concerned entities confirmed for immediate necessary action.*

- D. Delayed sending of relay indications and other information to SLDC from SgTPP and BkTPP hampering quick system restoration.

**Deliberation in the meeting:**

*All concerned entities have been requested to send tripping and other relevant information for system operation to SLDC control room at the earliest to facilitate smooth operation and quick restoration.*

**ITEM No: 6. AGENDA NOTE PUT UP BY SLCF MEMBERS FOR DISCUSSION:**

**6.1 Agenda note put up by STPS**

- A. Shutdown program from October 2016 to December 2016.

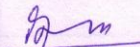
**Deliberation in the meeting:**

*The shutdown program has been noted.*

**ITEM No: 7. Date and venue of next SLCF (i.e. 47<sup>th</sup>) Meeting.**

*It will be intimated in due course of time.*

**ITEM No: 8. MISCELLANEOUS**

  
10.10.2016

**(Rafikul Islam)**

**C.E., SLDC, HOWRH.**

**Annexure -1**

<b><u>Transformer</u></b>			
<b>Sl. No.</b>	<b>Location</b>	<b>Identification of equipments</b>	<b>Date &amp; Time</b>
<b>1</b>	<b>220 KV Egra Sub/Stn</b>	<b>160 MVA 220/132 KV Tr. #2</b>	<b>Commissioned &amp; charged at no load at 20:15 hrs. on 13/06/16 and loaded at 11:50 hrs on 15/06/16.</b>
<b>2</b>	<b>132 KV Mahachanda Sub/Stn</b>	<b>50 MVA 132/33 KV Tr. #1 (Replacing 31.5 MVA Tr.)</b>	<b>Commissioned &amp; charged at no load at 18:25 hrs. on 09/06/16 and loaded at 11:55 hrs on 10/06/16.</b>
<b>3</b>	<b>Vidyasagar Park 220 KV Sub/Stn</b>	<b>160 MVA 220/132 KV Tr. #1</b>	<b>Commissioned &amp; charged at no load at 20:58 hrs. on 04/07/16 and loaded at 19:35 hrs on 05/07/16.</b>
		<b>50 MVA 132/33 KV Tr. # 1</b>	<b>Commissioned &amp; charged at no load at 21:12 hrs. on 29/07/16 and loaded at 13:20 hrs on 30/07/16.</b>
<b>4</b>	<b>220 KV Gokarna Sub/Stn</b>	<b>160 MVA 220/132/33 KV Tr. #2 (replacing damaged Tr#)</b>	<b>Commissioned &amp; charged at no load at 16:00 hrs. on 15/07/16 and loaded at 19:07 hrs on 15/07/16.</b>
<b>5</b>	<b>Food Park 132 KV Sub/Stn</b>	<b>50 MVA 132/33 KV Tr. #2 &amp; 50 MVA 132/33 KV Tr. #1</b>	<b>Commissioned &amp; charged at no load at 11:58 hrs. and at 17:01 hrs. on 20/08/16 respectively and both loaded at 17:02 hrs on 20/08/16.</b>



<b><u>Transmission Lines</u></b>		
<b>Sl. No</b>	<b>Identification of equipments</b>	<b>Date &amp; Time</b>
<b>1</b>	<b>400 KV Chaibasa (PG) - KGP Ckt.</b>	<b>Commissioned &amp; charged at 18:01 hrs. on 17/06/16.</b>
<b>2</b>	<b>400 KV Chaibasa (PG) - KTPP Ckt.</b>	<b>Commissioned &amp; charged at 20:30 hrs. on 17/06/16.</b>
<b>3</b>	<b>220 KV Kharagpur- Egra Ckt. #2</b>	<b>Commissioned &amp; charged at 15:50 hrs. on 22/06/16.</b>
<b>4</b>	<b>132 KV Vidyasagar Park – HIZ TSS</b>	<b>Commissioned &amp; charged at 19:03 hrs. on 01/07/16.</b>
<b>5</b>	<b>132 KV Vidyasagar Park – HIZ</b>	<b>Commissioned &amp; charged at 19:04 hrs. on 02/07/16.</b>
<b>6</b>	<b>132 KV Vidyasagar Park – Midnapur #1</b>	<b>Commissioned &amp; charged at 14:31 hrs. on 18/07/16.</b>
<b>7</b>	<b>132 KV Vidyasagar Park – Midnapur #2</b>	<b>Commissioned &amp; charged at 16:31 hrs. on 06/07/16.</b>

**Newly Commissioned Generators**

<b>Sl. No.</b>	<b>Location</b>	<b>Identification of equipments</b>	<b>Date &amp; Time</b>
<b>1</b>	<b>TLDP-IV</b>	<b>Unit #3 (40 MW)</b>	<b>Test synchronization on 03.07.16 at 01.13 hrs. C.O.D from 00:00 hrs of 17.07.16.</b>
		<b>Unit #4 (40 MW)</b>	<b>Test synchronization on 11.08.16 at 01.02 hrs. C.O.D from 00:00 hrs of 19.08.16.</b>
<b>2</b>	<b>SgTPP</b>	<b>Unit #3 (500 MW)</b>	<b>C.O.D from 00:00 hrs of 01.07.16.</b>

Memo No. SLDC/ How/ 109/ 42 (i-29)

Dated : 4/10/2016.

Copy for information please:-

1. PS to Managing Director, WBSETCL, Vidyut Bhavan, Kolkata-91.
2. PS to Managing Director, DPL, Kolkata -107.
3. PS to Director (Operations), WBSETCL, Vidyut Bhavan, Kolkata-91.
4. PS to Director (RT), WBSEDCL, Vidyut Bhavan, Kolkata-91.
5. PS to Executive Director (OS), WBPDC, Salt Lake City, Kolkata-700 098.
6. C.E, SLDC, WBSETCL, Howrah-09.
7. C.E, Transmission Headquarter, WBSETCL, Vidyut Bhavan, Kol-91.
8. C.E, CTD, WBSETCL, Abhiksan Bhavan, Kol-91.
9. Chief Engineer, CLD, DVC, Maithon.
10. C.E.(PTP) WBSEDCL, Vidyut Bhavan, Kolkata-91.
11. G.M , (SO) CESC Ltd., Statesman House, Kol- 01.
12. Sri S. Namjoshi, Vice-President, Engineering & Projects, IPCL
13. Sri I. B. Chakraborty, Vice-President, Engineering & Projects, IPCL
14. Addl. Chief Engineer, SLDC, WBSETCL, Howrah-09.
15. Addl. Chief Engineer, ALDC, WBSEDCL.
16. Sri A.Sengupta, Manager, CESC Ltd, Statesman House, Kol- 01.
17. Sri D.De,Dy. Manager, CESC Ltd, Statesman House,Kol-01.
18. Sri S. K. Sarkar, G.S.(T&D, Load Management), DPSC Ltd.
19. Sri R. Biswas, Sr. Manager, ALDC, DPL.
20. Sri P. Banerjee, Sr. Manager(RISO), KTHPP, WBPDC.
21. Sri A. Guha, Sr. Manager (SO),KTHPP,WBPDC.
22. Sri D. Chanda, Sr.Manager (PS), BKTHPP, WBPDC.
23. Mr. Joynal Abedin, Sr.Manager (E.O.), BKTHPP, WBPDC.
24. Sri A.Biswas, Manager(PS),BKTHPP,WBPDC.
25. Sri F.Hossain, Manager (PS), SGTHPP, WBPDC.
26. Sri M.S.Bapari, Manager (PS), SGTHPP, WBPDC.
27. Sri N.Saha, Sr. Manager (PS), WBPDC.
28. Sri M. Mallik, Sr. Manager, (System Operation – Electrical), BTPS, WBPDC.
29. Sri S. Maiti, Sr. Manager (O), STPS, WBPDC.

*Dipendu Bhatnagar*

Convenor, SLCF

04.10.16