

MINUTES OF THE 45th SLCF MEETING HELD ON 14.06.2016

Shri. S. Roy, Chief Engineer (SLDC), WBSETCL & Chairperson, SLCF welcomed all the participant members to the 45th SLCF meeting.

ITEM-1: CONFIRMATION OF THE MINUTES OF THE 44th SLCF MEETING HELD ON 01/04/2016.

The minutes of the 44th SLCF meeting was circulated vide memo no: SLDC/How/109/79 dated 13/04/2016 and the same was also published in the official website of SLDC (www.wbslhc.in)

The minutes of the 44th SLCF meeting was taken as accepted.

ITEM-2: REVIEW OF THE STATE GRID PERFORMANCE:

Power point presentation on Grid Performance for the month of March-16 & April-16

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

- 2.1 Availability of WBPDC power plants in terms of *NAPAF & *PAFM for the month of March-16 & April-16 are as follows:

Generating Station.	March-16		April-16	
	NAPAF (%)	PAFM (%)	NAPAF (%)	PAFM (%)
<i>BTPS</i>	74	56.75	74	60.15
<i>STPS</i>	85	90.92	85	99.30
<i>KTPS</i>	75	54.77	75	74.11
<i>BkTPP-I</i>	85	88.89	85	96.43
<i>BkTPP-II</i>	85	97.57	85	100.83
<i>SgTPP</i>	85	95.39	85	96.16

* 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					
March-15	March-16	Remarks	April-15	April-16	Remarks
3050.09	3159.03	3.57% Rise	2733.71	3479.62	27.29% Rise

2.3 Gross Generation of WBPDCCL (in MU) during March-16 & April-16.

March-16	April-16
2083.159	2202.636

2.4 System met and system Potential of distribution licensees during March-16 & April-16 were as follows:

CONSTITUENT	March-16		April-16	
	System Met (MU)	System Potential (MU)	System Met (MU)	System Potential (MU)
WBSEDCL (OWN)	3136.18	3159.03	3461.89	3479.62
CESC	896.943	896.943	1109.365	1109.365
DPL	175.517	176.0915	192.068	194.5825

2.5 The Maximum demand (potential) and their time of occurrence during March-16 & April-16 were as follows:

CONSTITUENT	MAXIMUM DEMAND (MW)	
	March-16	April-16
WBSEDCL (OWN)	5902 MW on 26.03.16 at 21.00 hrs.	6085 MW on 15.04.16 at 20.00 hrs.
CESC	1728 MW on 30.03.16 at 18.00 hrs.	2050 MW on 27.04.16 at 16.00 hrs.
DPL	284 MW on 05.03.16 at 20.00 hrs.	287 MW on 08.04.16 at 22.00 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 01/05/16, 15:56 hrs total power failed at DPL end resulting in outage of U#8 of DPL due to LA failure of 220 KV Bidhannagar-J.K Nagar Ckt at 220 KV DGP S/S .

--- WBSETCL & DPL representative may please deliberate.

Deliberation in the meeting.

Representative of WBSETCL and DPL informed that on that day at 15.56 hrs. at 220 KV DGP S/S, R-phase LA of 220 KV Bidhannagar-J.K Nagar Ckt burst out. Consequently, 220 KV DPL-Durgapur Ckt-1 and 2 tripped from DPL end resulting in outage of only running Unit #8 and total power failed at DPL system. No tripping occurred at WBSETCL end. The DPL system restored at 15:56 hrs.

DPL representative also informed that correspondence has been made with the vendor of protection scheme (BHEL), but it is yet to get proper analysis to review the settings of protection scheme failure.

The house requested DPL to submit detailed report about the incident.

2. On 15/05/16 at 17:08 hrs at BkTPP, 400 KV Y phase CT of 400 KV Arambagh-BkTPP feeder burst out..

--- WBPDCCL representatives may please deliberate

Deliberation in the meeting.

Representative of WBPDCCL informed that, at 17.08 hrs on 15.05.16 , 400 KV Y-phase CT of 400 KV Arambagh-BkTPP feeder burst out. Consequently, 400 KV Main bus #2 became dead due to operation of Bus Bar protection. Unit #1 which was on Main bus #2 during the incident managed to run successfully on house load and then synchronized at 17:43 hrs through Main bus #1. IBT #1 tripped through bus bar protection.

WBPDCCL representative also informed that considering the incident, a job of replacement of old CT has been taken into account.

3. On 10/04/16 at 14:38 hrs, power failed at 132 KV JRT/Bongaon/Ashoknagar/Basirhat sub-station and BTPS U#5 also got tripped.

--- WBPDCCL & WBSETCL representative may please deliberate.

Deliberation in the meeting.

Representative of WBSETCL informed that on that day at 14.38 hrs, a fault occurred at charged line 132 KV Mohispota Ckt #2 and both distance protection and back up relays appeared but CB did not trip, resulting simultaneous tripping of 220/132 KV 160 MVA Tr. #1,2 and 3. This resulted in a voltage surge and fault feeding through Jeerat-Dharampur ckt which tripped BTPS Unit #5, BTPS –Dharampur Ckt #2, 3 BTPS-Kalyani ckt. Therefore, power failed at Jeerat, Bongaon, Ashoknagar and Basirhat Sub-stn.

This was a case of relay un-coordinated tripping.

The house advised BTPS for checking relay co-ordination in line with downstream settings.

ITEM No. : 4. OPERATIONAL PLANNING:-

(a) Anticipated power supply position for the month of JULY-2016 & AUGUST-2016 (All figures are in MW) :-

Description	JULY-15	AUGUST-16
WBPDCCL Generation	2920 (70 MU)	2920 (70 MU)
WBSEDCL Own Maximum Demand	5794	6070
CESC Maximum Demand	1840	1830
CESC Own gen. + HEL + IPP/ CPP	720+530+40	720+530+40
DPL Generation Availability	430	430
DPL Maximum Demand	275	275
IPCL demand at J.K.Nagar	40	40

b). Finalization of Shut Down proposal for the month JULY-2016 & AUGUST-2016 i.r.o. Generating Units, Transmission Lines and other equipments etc. as provided by constituents.

(i) SHUT DOWN APPROVED FOR WBPDCCL UNITS:

UNIT	DURATION	REASON
BTPS # 5	16.06.2016 TO 15.07.2016	R & M Remaining Job
STPS # 5	15.07.2016 TO 20.08.2016	B.T.G
BkTPP # 2	21.08.2016 TO 20.09.2016	Boiler Overhauling

(c). **Prolonged outage of power system elements :-**

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

Sl.No.	Network elements under outage	From
1.	400/220 KV, 315 MVA Transformer. at Jeerat	12:30 hrs of 12/04/2016
2.	220/132 KV, 160 MVA Transformer. # 2 at Gokarna	06:11 hrs of 31/05/2016

Deliberation in the meeting.

- About SL. No. 1, WBSETCL representative informed that all the bushing of the above mentioned transformer got damaged. Therefore, order has been placed to the manufacturing company TELK for the replacement of bushing . Till date, TELK has informed that the bushing is ready for transportation to the site. The expected date of re-commissioning of the transformer is mid July, 2016.

- *About SL. No. 2, WBSETCL representative informed that during change in tap position B-Phase OLTC chamber got damaged. Therefore, the transformer needs to be replaced. For the time being, a spare 160 MVA transformer from Durgapur S/S will be used for replacing the damaged transformer. Tentative commissioning date is end of June,2016*

ITEM No: 5. ISSUES RAISED BY SLDC:

- A. Unit wise DC declaration against the Suo-moto order dated 26.04.2016 of the Hon'ble WBERC.

Deliberation in the meeting.

WBSLDC representative informed that the format for unit-wise DC declaration will be sent to the concerned entity and according to that they have to declare the unit-wise initial DC on daily basis as per suo-moto order of Hon'ble WBERC dated 26.04.2016.

- B. Data regarding maximum demand of the licensees and maximum generation of generating stations during peak and off-peak hours both are required for ATC study of the State.

Deliberation in the meeting:

All concerned entities have been requested to send required data.

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

6.1. Agenda note put up by WBPDCCL

- A. Calculation procedure of Unit shut down DC for Low System Demand.

Deliberation in the meeting:

The procedure which is followed as per present mode of practice at WBSLDC was elaborated at the house again.

- B. Merit order of WBPDCCL Units and others units should be available in the Website or any other correspondence.

Deliberation in the meeting:

After detailed discussion it was decided that the letter regarding merit order sent by PTP, WBSEDCL which is used for scheduling purpose will be forwarded to WBPDCCL Corporate office by WBSLDC.

C. Day wise-unit shut down DC for Low System Demand should be reflected in the Bill.

Deliberation in the meeting:

As per present mode of practice, in monthly DC certificate, WBSLDC incorporate station-wise total shut-down DC figure for low system demand. However, as per request by WBPDC, WBSLDC agreed to provide the day-wise unit shut-down DC figure for low system demand in monthly certificate for DC.

6.2. Agenda note put up by KTPS

A. Selection of KTPS Units to be desynchronized due to LSD.

Deliberation in the meeting:

After detailed discussion on this issue, it was found that there are differences of viewpoint between members of the house. Therefore, the house was unable to reach to any unanimous conclusion regarding the matter and was decided to meet later in order to settle down the issue separately.

B. Status of 400 KV KTPS-Kharagpur feeder #1 for O&M activity.

Deliberation in the meeting:

WBSETCL representative and KTPS representatives were requested to communicate with each other for resolving the issue.

C. During permissive tripping at KTPS end of 400 KV KTPS-Kharagpur feeder #2, both DIRECT and PERMISSIVE trip command is being received at far end which is yet to be rectified by WBSETCL.

Deliberation in the meeting:

After detailed discussion on this issue, it was decided that WBSLDC will refer the matter to the Communication wing of WBSETCL and WBPDC representatives were requested to check the relay/protection panel whether any such command is generating from there itself or not.

D. Carrier protection at the 400 KV KTPS-Arambag feeder is out of order resulting outage of A/R scheme and Carrier Inter Trip feature. The old panel is to be replaced by WBSETCL.

Deliberation in the meeting:

Old panel will be replaced by new panel by WBSETCL.

6.3 Agenda note put up by WBSEDCL

A. Major Data Outage in ULDC system.

ALDC system operation runs on the real time data availability from the ULDC system from 63 nos. transmission substations (17 nos. from North Bengal 46 nos. from South Bengal) where Sent Out Data from different Power Station and different Central Sector Tie Line data play a major role in managing WBSEDCL Drawal in real time with pre-defined Schedule as well as assessing system demand/met from time to time.

Several SCADA related problems viz. frequent outage of Birpara-Birpara , Dalkhola-Dalkhola Tie Line data and mismatch in sent out of PDCL Generation contribute almost 1 MU difference daily between actual drawal taken from meter data from Energy Accounting system with the data shown in the ULDC system and commercial impact on WBSEDCL/ALDC is also very high.

As the ULDC system is owned by SLDC/WBSETCL, in real time, ALDC Shift-In charge informed the data related problem to their counter part at SLDC in various occasions for last few months. However, those were not entertained and advised to take up the matter with Transmission Communication deptt.

To increase the critical data consistency and availability which is the backbone for ALDC system operation, necessary modalities need to be framed for the followings:-

1. Nodal Authority for reporting Data outage/ discrepancy problem in real time from ALDC shift In Charge
2. Resolution time in case of critical data unavailability from ULDC system during Odd hours
3. Time bound resolution of long pending issue of major data unavailability from Birpara and Dalkhola RTU(WBSETCL) and PCBL sent out data
4. Reliable Network for data communication from different hydel Generating Stations as data interruption from those stations is a regular event.

Deliberation in the meeting:

After detailed discussion the house agreed that data inconsistency/ unavailability in running ULDC system is a major issue. Not only ALDC but SLDC is also being affected for this problem. The project is a central program and the intra-state entities are only the users of this project. Therefore, the issue can't be resolved at this level and will be forwarded to Communication Wing and Regional level forum for proper redressal of the issue.

- B.** It has come to the knowledge of WBSEDCL through formal communication with SLDC(letter Ref: C/BP/IEX/161 dt 30.05.16 of CE/PTP WBSEDCL & Reply letter SLDC/How/15/271 dt:30.05.16) that RTC NOC limit for purchase to WBSEDCL from Energy Exchange Platform is being allocated based on the calculation of evening peak demand i.e. on the basis of ATC during evening peak . As far as state demand (considering export of state utilities to outside state) is concerned ,technically more ATC is available during Off Peak hours. Such unallocated ATC may be allocated to WBSEDCL on request during Off Peak hours rather than flat RTC NOC as per present practice. In view of the said WBSEDCL requested to SLDC through letter vide memo no: C/BP/IEX/ 31.05.16 to allocate extra NOC quantum during off peak hours immediately for consumers' financial interest as far as costly generation replacement of ISGS share is concerned. But despite of reminder vide memo no: C/BP/IEX/179 dt: 04.06.16.

WBSEDCL has not yet received any suitable reply from SLDC. Moreover, WBSEDCL being lion share holder of WBSETCL LTOA is in dark about the RTC ATC status of the state which should be available in the website of SLDC as per the minutes of the meeting of NPC. The minutes of 118th OCC meeting may be referred in this regard. However, if SLDC is not in a position to upload the ATC in the website, the same may be mailed to WBSEDCL considering major share holder of STU for transparency.

Deliberation in the meeting:

The representative from WBSLDC informed that TTC calculation is being done considering maximum possible power flow through CTU-STU tie line. For this purpose, SLDC study for violation of loading limit of network elements and reach maximum possible tie-flow taking into account peak demand and generation scenario of the state. After detailed discussion the house decided that approval for NOC will be given in future considering PPSP as Pump load during off-peak period separately.

Accordingly, all utilities are requested to submit the relevant data.

ITEM No: 7. Date and venue of next SLCF (i.e. 46th) Meeting.

It will be intimated in due course of time.

ITEM No: 8. MISCELLANEOUS


29.6.2016
(S. Roy)

C.E., SLDC, HOWRH.

Annexure -1

<u>Transformer</u>				
Sl. No.	Location	Identification equipments	of	Date & Time
1	Rishra 132 KV Sub/Stn	50 MVA 132/33 KV Tr. #4		Commissioned & charged at no load at 17:12 hrs. on 03/05/16 and loaded at 15:14 hrs on 05/05/16.
2	Alipurduar 132 KV Sub/Stn	31.5 MVA 132/33 KV Tr.		Commissioned & charged at no load at 19:15 hrs. on 11/05/16 and loaded at 20:40 hrs on 11/05/16.
3	Purulia 132 KV Sub/Stn	31.5 MVA 132/33 KV Tr. (Replacing 20 MVA Tr.)		Commissioned & loaded at 17:40 hrs. on 21/05/16.
4	Ukhra 132 KV Sub/Stn	50 MVA 132/33 KV Tr. # 3		Charged at 18:23 hrs. on 20/05/16 and loaded at 13:00 hrs. on 21.05.16
5	Samsi 132 KV Sub/Stn	50 MVA 132/33 KV Tr. (Replacing 31.5 MVA Tr.)		Charged at no load at 15:15 hrs. on 22/05/16 (HV) and loaded at 17:56 hrs on 22/05/16.
6	Durgapur 220 KV Sub/Stn	200 MVA 220/132 KV Tr. # 2 (Replacing 160 MVA Tr.)		Charged at no load on 07/06/16 at 13:58 hrs (HV) and loaded on 08/06/16 at 11:58 hrs.

Newly Commissioned Sub-Station/Gen.-station

Sl. No.	Location	Identification of equipments	Date & Time
1	Egra 220 KV Sub-Stn	220 KV GIS Bus 220 KV Egra- KGP Ckt #1	Charged at 20:13 on 24.05.16.
		220/132 KV 160 MVA Tr. #1	Charged at no load on 26.05.16 at 00:56 hrs and loaded on 27.05.16 at 13:47 hrs.
2	Vidyasagar Park 220 KV Sub-stn	220 KV MB-1	Charged on 20.05.2016 at 14:08 hrs.
		220 KV MB-2	Charged on 20.05.2016 at 14:15 hrs.
		220 KV KGP -VP ckt #2	Charged at 14:05 hrs. on 20.05.2016

Memo No. SLDC/ How/ 109/ 424(i-19)

Dated 29/6/2016.

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. Chief Engineer, CLD, DVC, Maithon.
7. C.E.(PTR) WBSEDCL, Vidyut Bhavan, Kolkata-91.
8. Vice-President (S.O.), CESC Ltd., Statesman House, Kolkata-1.
9. Addl. Chief Engineer, ALDC, WBSEDCL.
10. Addl.C.E, Transmission Headquarter, WBSETCL, Vidyut Bhavan, Kol-91.
11. Sri A.Sengupta, DGM, CESC Ltd, Statesman House, Kol- 01.
12. Sri S. K. Sarkar, G.S.(T&D, Load Management), DPSC Ltd.
13. Sri R. Biswas, Sr. Manager, ALDC, DPL.
14. Sri A. Guha Thakurata, Sr. Manager, KTPP, WBPDC.
15. Mr. Joyal Abedin, Sr. Manager (E.O.), BKTPP, WBPDC.
16. Sri F. Hossain, Manager (PS), SGTPP, WBPDC.
17. Sri P. Halder, DGM(Engg.), WBPDC.
18. Sri T. Kumar, Sr. Manager, (PS), BTPS, WBPDC.
19. Sri S. Maiti, Sr. Manager (O), STPS, WBPDC.

Sibyendu Bhattacharya

Convenor, SLCF

29.06.16