

STATE LOAD DESPATCH CENTER

AGENDA FOR 72nd MEETING Of State Level Co-ordination Forum

Date: 15/05/2024

Venue: SLDC

ITEM No:1. CONFIRMATION OF THE MINUTES OF 71st SLCF MEETING HELD ON 18.01.2024.

The minutes were circulated vide memo no: SLDC/How/109/2023-24/801(1-27) dated 05/02/2024.

---- Members may please discuss.

ITEM No: 2.REVIEW OF STATE GRID PERFORMANCE:

Power point presentation on grid performance for the month of January-24, February-24, March-24.

---- Members may please note.

ITEM No: 3. IMPORTANT GRID INCIDENTS:

S I No	Date	Element tripped	Details	Normalization/Load loss
1	08.05.24	At LILUAH 132KV Substation at 13.10 Hrs: 33KV PT burst out with all 132/33Kv, 50 MVA transformers got tripped resulting total power failure at 33KV system.	13.10 hrs to 14.45 hrs power interrupted in 33kv system.	Around 50 MW load loss was there during the incident.
WBSETCL representative may deliberate.				
2	07.05.24	At MOHITNAGAR substation: all 132Kv ckt's got tripped at 14.59 hrs resulting total power interrupted at 33Kv system.	Relay details: LCP FUSE FAIL, (FS8,FS7)	Load loss around 35 MW.
WBSETCL representative may deliberate.				

3	01.05.24	132KV O.HALDIA-TPCL D/C tripped at around 20.36/20.37hrs resulting total blackout at M/S TPCL end.	O.HALDIA=AG1, O/C I>2,TRIP>2,TRIP PH ABC,STARTED PH ABC(#1) O.HALDIA=AG1, A-N Z2,DIST=3.44KM,I A=12.56KA(#2)	Around 100 MW generation loss at M/S TPCL end.
WBSETCL representative may deliberate.				
4	22.04.24	At BARUIPUR 220KV GIS at 17.12 hrs: 220Kv BARUIPUR-S'GRM(PG)-NEWTOWN AIII ckt got tripped rendering total power failure occurred in a vast area of South-24 Parganas.	BARUIPUR: Low gas pressure alarm,86. No tripping at NEWTOWN AIII end.	Around 130MW load loss occurred.
WBSETCL representative may deliberate.				
5	15.04.24	Numbers of tripping observed i.r.o 400KV JEERAT-BKTPP CKT in the month of APRIL '24.	15.04.24 breakdown from 14.24 hrs. JRT:Z-2,B PH,163.3 KM,2.71 KA BKTPP= Z1, B PH, 13.8KM, 7.396 KA On 23.04.24 at 12.34 hrs JRT=A/R L/O, CARR RCVD,AG1, ST PH A-N,154 KM, IA=2.647 KA, IB=470.6A, IC=213.74 A BKTPP=R-PH,A/R BLOCK,23.56 KM, 5.775 KA On 23.04.24 at 13.14 hrs JEERAT:AG1,C-N, 157.9 KM,2.687 KA,Z2	The matter conveyed from ERLDC end for find out the reasons.

			BKTPP=B-PH,22.52 KM,6.192 KA,A/R BLOCK.	
WBSETCL representative may deliberate.				

ITEM No: 4. OPERATIONAL PLANNING:

(a) SETTLEMENT OF SHUT DOWN PROPOSALS FOR THE MONTH OF JUNE-24, JULY-24 AND AUGUST-24 .i.r.o GENERATING UNITS, TRANSMISSION LINES AND OTHER EQUIPMENTS.

[All concerned are requested to furnish their shut down proposals for these months to SLDC]

ITEM No: 5. AGENDA NOTES PUT UP BY SLCF MEMBERS FOR DISCUSSION:

5.1. Agenda note put up by BTPS

1. Discontinuation of 33kV TTKR- 1 & 2 Feeders

At present there are 02 Nos. 33kV Distribution Feeders directly feeding power from BTPS 33kV Switchyard to WBSEDCL Bulk Consumers at Tribeni Tissue of ITC Ltd. & Keshoram Rayon without any in-between Switchyard / Substation of WBSEDCL.

As these Feeders are of very short length (approximately 8 KM each) and are prone to frequent tripping resulting very high Transient Fault Current to pass through 132/33kV 25MVA Reserve/Station Transformer- 1& 2 and hampering the reliability of running Generating Units of BTPS.

Hence, we are placing a proposal for discontinuation of the aforesaid 02 Nos. 33kV Distribution Feeders TTKR- 1 & 2 (Tribeni Tissue Keshoram Rayon -1 & 2) emanating from BTPS and accordingly WBSEDCL may arrange these supplies from their nearest substations.

2. Discontinuation of 33kV BG-3 & 4 Feeders from BTPS Township to 33kV Kalitala Substation.

Further, there are another 02 Nos. 33kV Distribution Feeders namely BG-3 & 4 (Bandel Gouripur- 3 & 4) which are also originating from 33KV BTPS Switchyard and are of very short length (approximately 4 KM each). At present BTPS Township Power is being fed through this 33kV BG- 3 & 4 and this portion up to Township is mostly underground and reliable.

Hence, we prefer to continue the 33kV BG- 3 & 4 line up to BTPS Township with **discontinuation proposal of the said lines from BTPS Township to 33kV Kalitala Substation.**

In that case, said lines are proposed to be handed over to WBPDCCL Authorities for further Operation & Maintenance as this Township Power will be treated as APC of BTPS and release WBPDCCL from paying this bill to WBSEDCL.

Both these matters (Point No. 1 & 2) were earlier discussed in 59th SLCF MEETING, where the forum has noted in the MOM that BTPS is required to take up the matter with WBSEDCL Authorities. In this regard, a Letter has also been communicated to WBSEDCL Authorities vide Memo No. WBPDCCL/Dir(O&M)/191, dated 14.06.2023 and accordingly WBSEDCL Authorities once visited BTPS Premises but till date no appropriate action has been initiated towards discontinuation of these Feeders.

3. Enhancement of Minimum Technical Limit of BTPS Unit#2 from 23.65 MW to 30 MW

Generation capacity of BTPS Unit#2, is 60 MW and APC as per SERC norms is 10.6%. Hence, the Maximum DC possible is 53.76MW. At present the Technical Minimum DC is 23.65 MW which is 44% of maximum rated DC.

BTPS Unit#2 is a very old Unit which was commissioned on 18.10.65 with a generation capacity of 87.5MW and afterwards the Unit has been de-rated to 60 MW. Therefore, it is very difficult to maintain the Technical Minimum DC i.e. 23.65 MW without oil support.

Hence, it is proposed to raise the Technical Minimum Limit of BTPS Unit#2 from 23.65 MW to at least 30 MW which is 55.8% of maximum DC.

4. Excessive Low Grid Voltage is causing Instability in Generating Units at BTPS

For the Last few days in the Summer Season, during the **Afternoon Hours** and during **Night Hours** (22:00Hrs to 24:00Hrs) it has been observed that there is a significant drop in the 132kV Grid Voltage and most of the time it remains below 124kV-125kV. This has been repeatedly informed to the SLDC Control Room.

Due to this abrupt drop in Grid Voltage the Reactive Power Export by the Generators have been increased excessively and Generators are operating at the boundary limits of the Capability Curve.

Data related to BTPS Generator#5 at 15:00 Hrs on 30.04.2024:

1. Generator MVA = **249 (RATED 235 MVA)**
2. Active Power = **202 MW (RATED 215 MW)**
3. Reactive Power = **144 MVAR (Lagging/Export)**
4. Power Factor = **0.82 (RATED 0.85)**
5. Generator Terminal Voltage = **15.50 kV**
6. Stator Ampere = **9240 A**
7. Rotor Ampere = **2571 A**
8. GT#5 Winding Temperature = **96.5 Degree C (High Alarm at 95 Degree C)**

Under these circumstances to operate the Generator within safe working limit as per the Capability Curve and also to control the High GT Winding Temperature, Generation (DC) was required to be reduced.

Therefore, it is being requested to take appropriate action towards increasing the 132kV Grid Voltage so that Generating Units at BTPS are allowed to operate in safe working limits.

5.2. Agenda note put up by KTPS

1) In SAMAST module rev28 and rev29 dated 07.05.2024 it was observed that SG, is higher than DC in BLOCK -2 for 07.05.2024. Block-2 SG is showing 526 MW while DC is 510 MW Kindly correct the schedule for block-2 in SAMAST module for 07.05.2024.

2) As SAMAST portal was out of order and due to this we were unable to punch REV-02 in SAMAST portal for dated 06.05.2024. We had send REV -02 for 06.05.2024 at 21:32 hrs through email but the DC effect was not reflected in the SAMAST module after restoration.

In Rev-02 through email we had changed DC from 490MW to 510MW but in SAMAST module DC was still showing 490 MW. So we will highly obliged if you kindly consider DC as 510 MW from block 90 for dated 06.05.2024

3) This is to inform you that we have received email for Rev1dated 30.04.2024 but In REV 4 KTRP schedule has changed in SAMAST module but the change intimation was not received through mail.

4) During Ramp down condition we are still unable to enter Ramp down DC in the off bar DC column as that time off bar unit is zero.

5) It has been observed that in period of 00:00 hrs to 05:00hrs the schedule trend is very much fluctuating and during this situation schedule maintaining is very much difficult for KTRP. (Back down value continuously increasing and decreasing)

6) In KTRP APEX meter-fascia bottoms are got damaged and some buttons are inoperative. Some time it is very much impossible to take reading of feeder ckt.

7) After installation of OPGW system at KTRP END some of your decommissioned old carrier communication panels lying at our control room area. So please take necessary action for removal of those panels from your end.

8) As per your proposal Web trap systems decommissioning activity is due our switchyard. (Note: OPGW system already in service).

5.3. Agenda note put up by BkTRP

1. Huge number of revisions with trivial change in schedule should be reduced.

2. New dates to be provided for shutdown of 220kV Main Bus -2 and 220kV Bidhannagar Ckt#2 for various maintenance jobs, which were previously declined owing to Madhyamik & Higher Secondary examination.
3. Any change in SAMAST server (i.e. firewall, network etc.) should be intimated within due time so that we can respond according to schedule.

5.4. Agenda note put up by SLDC

1. Commissioning of new transmission elements in WBSETCL system from the month of FEBRUARY'24 to 10th MAY'24.

Members may note.

2. In continuation to earlier discussions, this is to reiterate that at present CESC is drawing power from Liluah(WBSETCL) point through Liluah – Belur (CESC) circuit 3 only. Liluah – Belur (CESC) ckt 1,2 are breakdown for cable fault since more than last 3 years. This has led to a situation that in case of any issue with circuit 3, there will be no way to give power to this radial point. Also, this single circuit dependency is creating additional pressure from maintenance point of view in terms of attending the fault / issue, if arises without any breathing/preparatory time.

Also, if it is decided not to restore the other two circuits, then that may please be informed to SLDC, WBSETCL so that Tr (O & M) can think for utilisation of those two bays at Liluah (WBSETCL) end.

CESC representative may please deliberate.

3. In view of commissioning of 200 MVA transformer II at Howrah 220 kV sub-station on 12.05.24, split bus operation may be explored to allow more power to CESC from Howrah point with 2 numbers of 200 MVA transformers and 220 KV New Chanditala-Howrah D/C. In that case the corresponding 132 kV side will have loading of CESC and metro (may be with traction also, depending upon CESC requirement and capacity to draw from Howrah point).

To avoid no power condition, it is necessary to introduce LRS scheme to curtail around 100 MW (at peak drawal condition) load of CESC at Howrah point, in case of tripping one ICT at Howrah and loading of another ICT goes beyond set point / allowable limit.

CESC representative may please deliberate.

4. Commencement of Commercial Operation of ABT meters installed under SAMAST Project of the State of West Bengal will be declared soon by WBSLDC. With the starting of commercial operation of the said meters State level energy accounting will be done with 100% boundary meters installed at different places within the State of West Bengal under SAMAST Project. From the effective date of commercial operation of ABT meters installed under SAMAST Project, commercial settlement i.r.o WBSEDCL will be done considering interface meters installed at WBSEDCL-STU boundary and WBSEDCL schedule at their own periphery.

(WBSLDC Members may please deliberate).

5. Updated status of SAMAST Project.

(WBSLDC Members may please deliberate).

6. In view of Web Based Scheduling in SAMAST system, revisiting of calculation procedure of Declared Capacity i.r.o Units which were under shutdown due to Low System Demand.

ITEM No: 6. Date and venue of next SLCF (i.e.73rd) Meeting.

ITEM No: 7. MISCELLANEOUS:

Copy for information please:-

Memo No. SLDC/ How/ 109/ 2024-25/ 147 (1-25).

Dated : /05/2024

Copy for information please:-

1. The Secretary, WBERC, FD-415A, PouraBhavan, 3rd Floor, Bidhannagar, Kolkata-700 106
2. C.E, SLDC, WBSETCL, Howrah-09.
3. C.E, Transmission-I, WBSETCL, Vidyut Bhavan, Kol-91.
4. C.E, Transmission-II, WBSETCL, Vidyut Bhavan, Kol-91.
5. C.E, CTD, WBSETCL, AbhiksanBhavan, Kol-91.
6. C.E, Communication, WBSETCL, AbhiksanBhavan, Kol-91.
7. C.E.(PTP) WBSEDCL, Vidyut Bhavan, Kolkata-91.
8. G.M , (SO) CESC Ltd., Statesman House, Kol- 01.
9. G.M. BTPS, WBPDCCL.
10. G.M. STPS, WBPDCCL.
11. G.M. KTPP, WBPDCCL.
12. G.M. BKTPP, WBPDCCL.
13. G.M. SGTPP, WBPDCCL.
14. G.M. Durgapur Projects Limited(DPL).
15. Sri I. B. Chakraborty, Vice-President, Engineering & Projects, IPCL
16. Addl. Chief Engineer, SLDC, WBSETCL, Howrah-09.
17. Addl. Chief Engineer, Communication (Howrah), WBSETCL, Howrah-09.
18. Addl. Chief Engineer, ALDC, WBSEDCL.
19. D.G.M, System Control Department, CESC Ltd, CESC House, Kol- 01.
20. D.G.M(O), Durgapur Projects Limited(DPL)., DPL.
21. PS to Managing Director, WBSETCL, Vidyut Bhavan, Kolkata-91.
22. PS to Managing Director, DPL, Kolkata -107.
23. PS to Director (Operations), WBSETCL, Vidyut Bhavan, Kolkata-91.
24. PS to Director (RT), WBSEDCL, Vidyut Bhavan, Kolkata-91.
25. PS to Executive Director (OS), WBPDCCL, Salt Lake City, Kolkata-700 098.

 13.05.24
Convenor, SLCF