

MINUTES OF THE 59th SLCF MEETING HELD ON 23.09.2019

Shri. P. K. Kundu, Chief Engineer (SLDC), WBSETCL & Chairperson, SLCF welcomed all the participant members to the 59th SLCF meeting.

ITEM-1: CONFIRMATION OF THE MINUTES OF THE 58th SLCF MEETING HELD ON 12/06/2019.

The minutes were circulated vide memo no: **SLDC/How/109/2019-20/656** dated 12/09/2019 and the same was also published in the website(www.wbslhc.in).

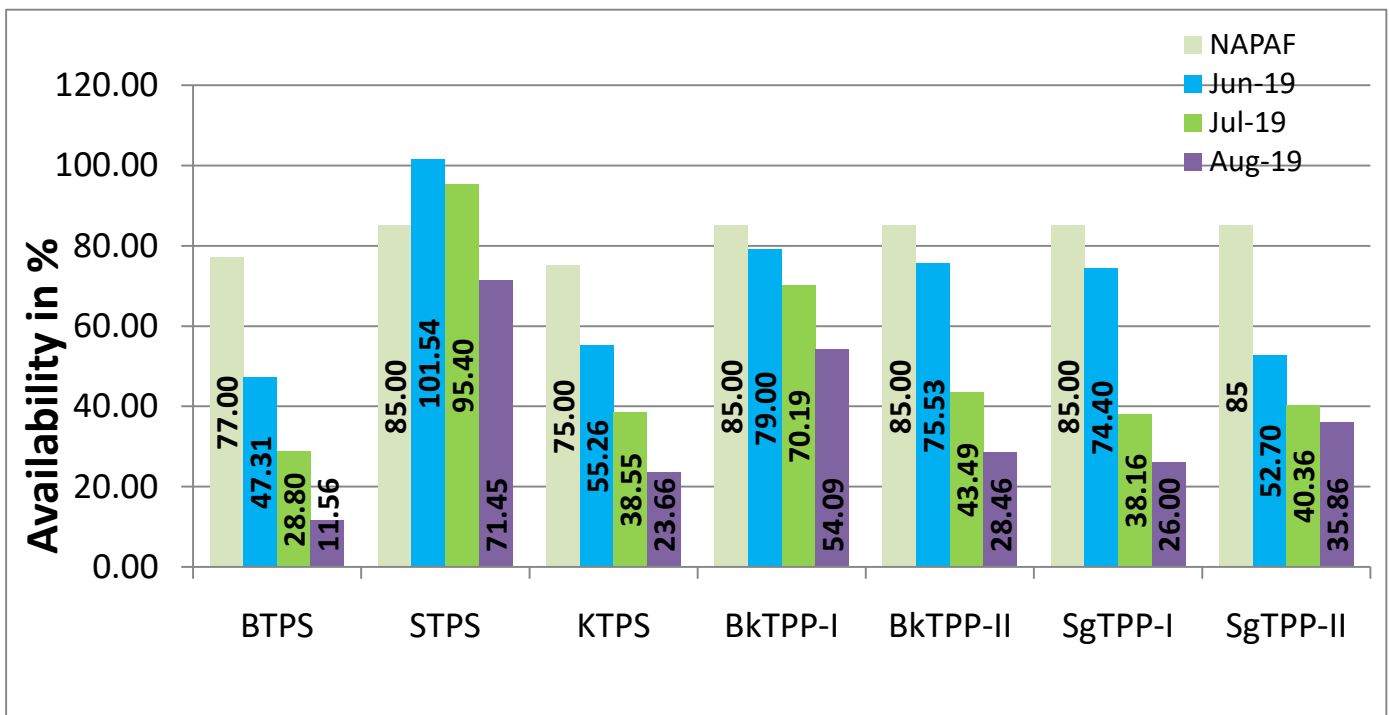
Furthermore, SLDC representative stressed on usage of existing communication systems for transmission of AMR data for ‘SAMAST’ project. Earlier SLDC requested all constituents to confirm using the existing channels. But, till now no confirmation is received. All are requested to expedite the matter.

ITEM-2: REVIEW OF THE STATE GRID PERFORMANCE:

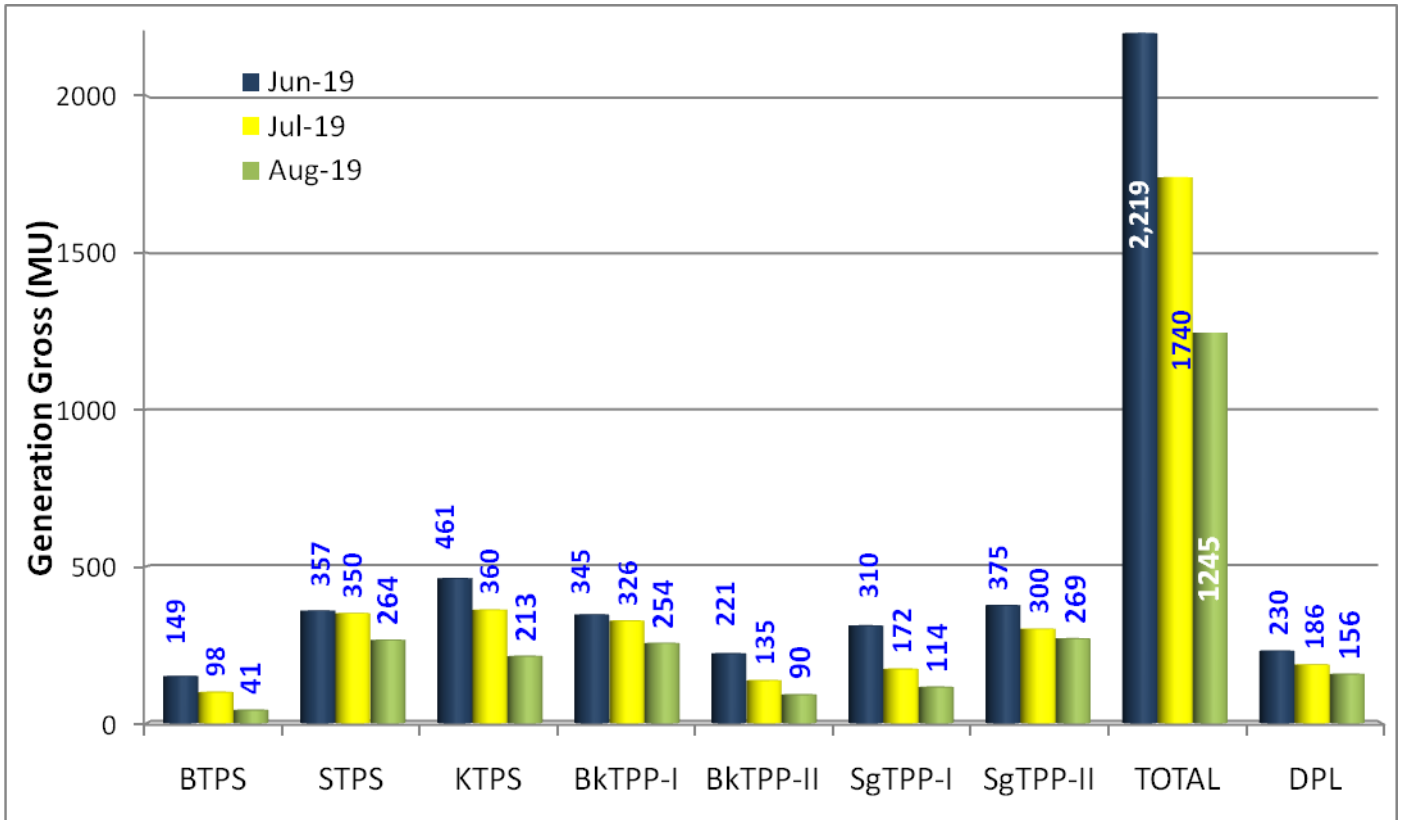
Power point presentation on grid performance for the month of June-19, July-19, and August-19.

Divisional Engineer, SLDC made a Power point presentation on the grid performance based on operational statistics for the period of June 19, July 19 and August 19. A critical analysis on the June 19, July 19 and August 19 grid performance reveals the following:

2.1 Availability of WBPDC power plants in terms of *NAPAF & *PAFM for the month of June-19, July-19, and August-19 are as follows:

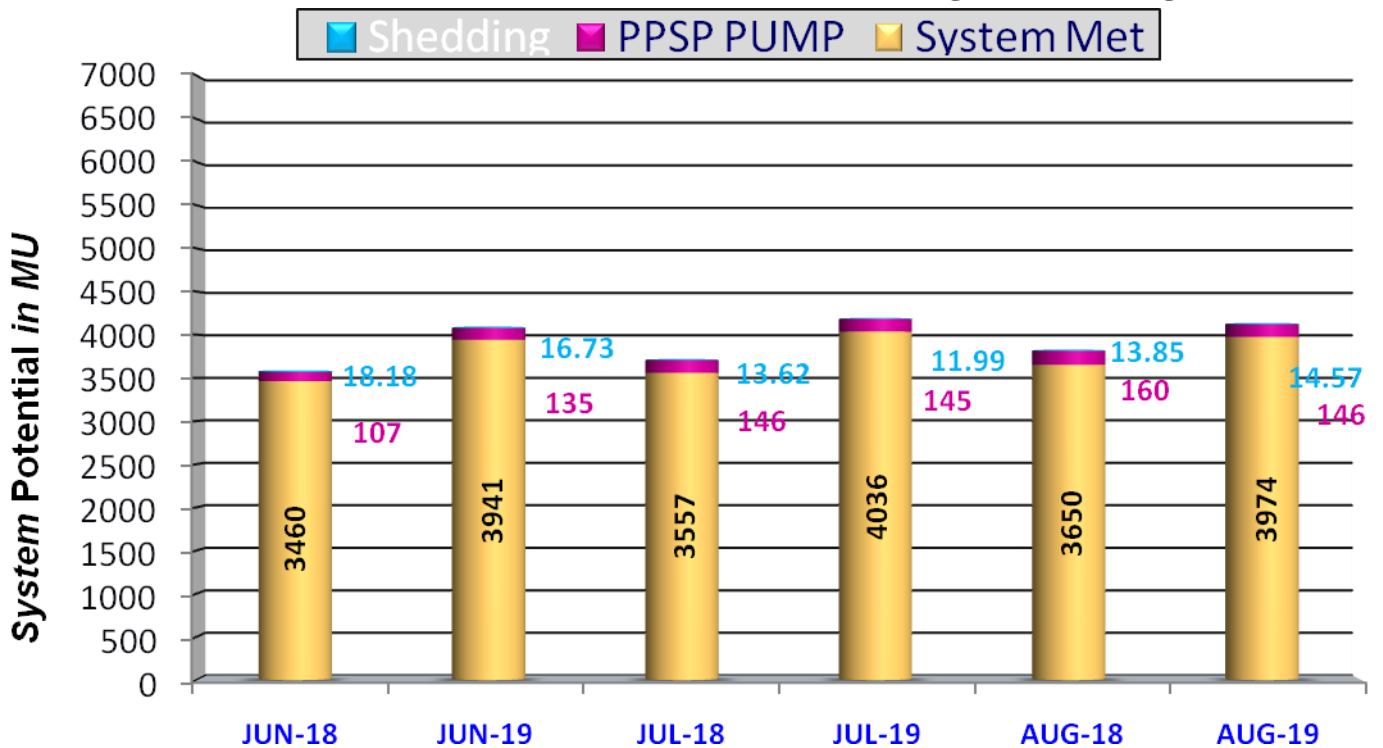


2.2 Gross Generation of WBPDCCL (in MU) during Jun19, July-19 and August-19.

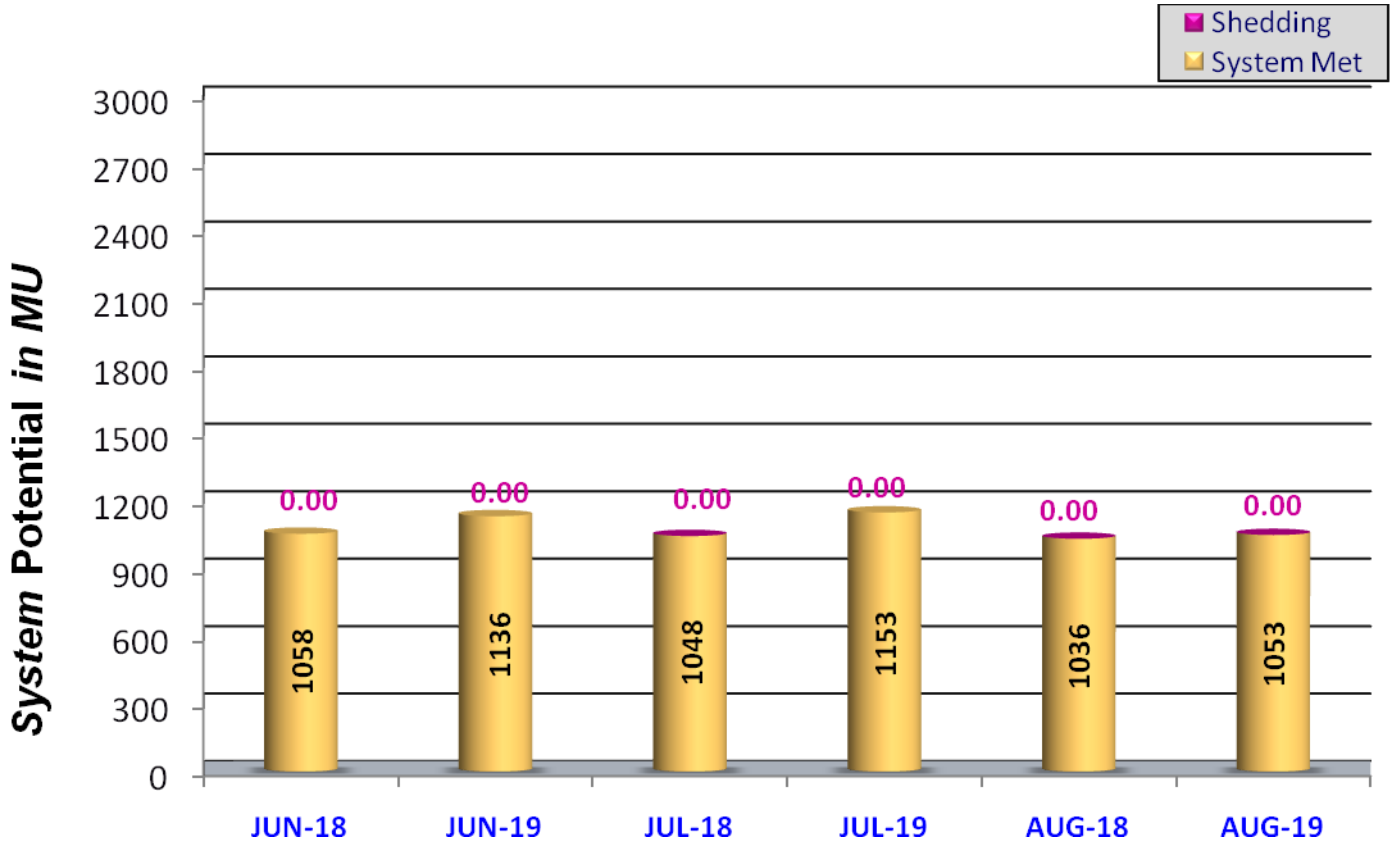


2.3 System met and system Potential of distribution licensees during June-19, July-19 and August-19 were as follows:

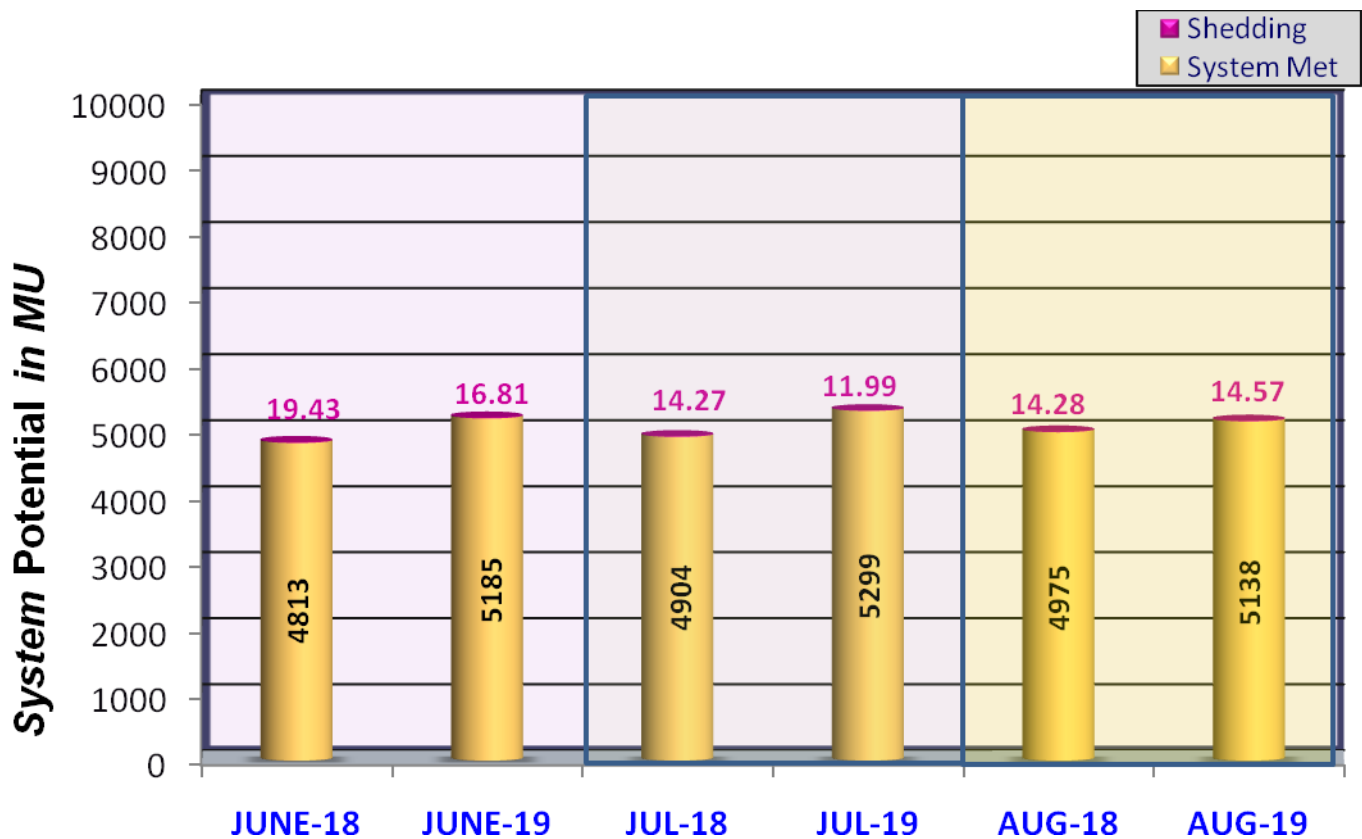
WBSEDCL SYSTEM MET & POTENTIAL (in MU) during June 19 to August 19.



CESC SYSTEM MET & POTENTIAL (in MU) during June 19 to August 19.



WEST BENGAL SYSTEM MET & POTENTIAL (in MU) during June 19 to August 19.



2.5 The Maximum demand (potential) and their time of occurrence during June-19, July-19 and August-19 were as follows:

WBSEDCL MAXIMUM (POTENTIAL) DEMAND IN MW-----

- JUNE -2019 peak demand 7007 MW, on 18.06.19 at 23:00 hrs.
- JULY-2019 peak demand 7181 MW, on 20.07.19 at 23:00 hrs.
- AUGUST-2019 peak demand 7030 MW, on 30.08.19 at 22:00 hrs.

CESC MAXIMUM (POTENTIAL) DEMAND IN MW-----

- JUNE-2019 peak demand 2312 MW, on 14.06.19 at 16:00 hrs.
- JULY-2019 peak demand 2135 MW, on 18.07.19 at 16:00 hrs.
- AUGUST-2019 peak demand 1946 MW, on 05.08.19 at 16:00 hrs.

WEST BENGAL MAXIMUM (POTENTIAL) DEMAND IN MW-----

- JUNE-2019 peak demand 8965 MW, on 17.06.19 at 23:00 hrs.
- JULY-2019 peak demand 9077 MW, on 17.07.19 at 24:00 hrs.
- AUGUST-2019 peak demand 8731 MW, on 05.08.19 at 23:00 hrs.

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

ITEM No. 3. IMPORTANT GRID INCIDENTS:

1. On 25.06.19 and 26.06.19 system disturbances occurred at NJP 220 KV Sub-station.

--- *WBSETCL representatives may please deliberate.*

Deliberation in the meeting.

At 23.19 hr, dt. 25/06/19, under very inclement weather (rain & thunderbolt), following element tripped :

1. 132 KV NJP-NBU Ckt at NJP end which was normalized at 00.04 hr dt. 26/06/19
2. 220 KV NJP-TLDP IV D/C which was normalized at 00.45 hr dt. 26/06/19.
3. 220 KV NJP-TLDP III S/C which was normalized at 00.25 hr dt. 26/06/19.
4. 132/33 KV, 50 MVA Tr1 & Tr2 at NJP S/S with O/C E/F interrupting around 40 MW load.
5. Generation loss at both TLDP : Around 270 MW from 23.19 hr dt. 25/06/19.
Gen restored at around 01.00 hr dt 26/06 at TLDP III: 130 MW.

132 KV NJP-Mohitnagar (GIS) Ckt 2 tripped at both end at 23.40 dt. 25/6 which was normalized at 00.53 hr dt. 26/06/19.

At 01.12 hr, dt. 26/06/19, 220 KV Bus zone operated at NJP S/S tripping the following element :

1. 220 KV Binaguri Bus sec 2 Bkr at Binaguri (PGCIL) which was normalized at 01.49, dt 26/6(ERLDC Code 1181).
2. 220 KV B/C Bkr at NJP which was normalized at 01.47 dt 26/6.
3. 220 KV NJP-TLDP IV Ckt 2 which was normalized at 01.55 dt 26/6.
4. 220 KV NJP-TLDP III S/C (again leading to Gen loss: 130 MW) which was normalized at 01.55 dt 26/6/19 & TLDP III Gen (130 MW) brought back at around 02.00 hr.
5. At the same above time (01.12 hr), 220 KV TLDP III-TLDP IV S/C also got tripped which was normalized at 01.45 dt 26/6/19.

At NJP S/S, 50 MVA Tr1 & Tr2 could not be normalized as the Transf's tripped with O/C E/F with charging of 33 KV side Bkrs. All 33 KV load shifted to Siliguri(WBSETCL), Mohitnagar(GIS) S/S at around 01.00 hr dt 26/6. Finally, 50 MVA Tr1 & Tr2 could be normalized at 2.28 & 2.40 hr respectively & all 33 KV load restored at around 03.00 hr.

220 KV NJP-TLDP IV D/C again tripped at 02.24 hr & normalized at 03.15 & 03.22 hr dt 26/06/19 respectively.

Finally TLDP IV Gen(around 100 MW) synch at around 04.00 hr.

Generation LOSS: TLDP_IV : 200.66 MWH from 23:19hr to 00:45hr.

TLDP_III : 143 MWH from 23:19hr to 00:25hr and 71.5 MWH from 01:12hr to 01:45hr.

Load LOSS under NJP S/S : 67.33 MWH from 23:19hr to 01:00hr

2. 220 KV Subhasgram(PG)-EM(CESC) ckt # 1 & 2 tripped at 16.22 hrs and 16.23 hrs respectively on 16.08.2019 causing power interruption in CESC system.

--- *CESC representatives may please deliberate.*

Deliberation in the meeting.

Total shedding : 470 MW w.e.f. 16.23 due to failure of Subhasgram import to EMSS(CESC).
 160 MVA Tr1, Tr 2 & Tr 5 at EMSS normalized and 132 KV & 33 KV fdr's (EMSS 33 KV Main & Reserve fdr, NCSS 33 KV Main 2 & Reserve 2 and other fdrs) & adjacent load were restored at 16.25.
 220 KV NCSS 33 KV Reserve 1 bus along with BTRD & BRS Siemens(M2 & M3) and adjacent network load restored at 16.27.

NCSS 33 KV Main 1 Bus and full load restored at 16.29 hr.

220 KV Subhasgram(PG)-EM(CESC) Ckt # 1 & 2 normalized at 17.00 & 17.28 hr respectively.

Load LOSS in CESC area: 28.75 MWH

3. 33 KV total power failure occurred on 27.08.2019 at 15.40 hrs at Liluha 132 KV Sub-Station.

--- WBSETCL representatives may please deliberate.

Deliberation in the meeting.

On 27.08.2019 at 15.40 hrs, all 33 KV fdrs at Liluah S/S tripped with O/C E/F with bursting of 33 KV Bkr of Kona fdr and damaging its CT's at three phases and tripping of LV side of 50 MVA Tr3, Tr4 & Tr5 with L.V O/C & B/U O/C.

Incident led to failure of total 33 KV load at Liluah S/S of around 104 MW.

All 50 MVA Transf's normalized at 16.20 hr and all 33 KV fdrs, except Kona, Kona TT, Baltikuri & Jangalpur fdr, noramalized at 16.22 hr and total 33 KV load, except those fdrs, restored.

33 KV Kona, Kona TT, Baltikuri fdr remained breakdown due conductor snapping of Baltikuri fdr and its falling upon Kona & Kona TT fdr.

Load LOSS under LILUAH S/S: 69.333 MWH from 15:40hr to 16:20hr

ITEM No. : 4. OPERATIONAL PLANNING:-

(a) Anticipated power supply position for the month of November -2019, December-2019 and January-2020 (All figures are in MW) :-

Description	NOVEMBER -2019	DECEMBER -2019	JANUARY -2020
WBPDC Generation	2950	3150	3150
WBSEDCL Own Maximum Demand	4700	4600	4900
CESC Maximum Demand	1800	1450	1350
CESC Own gen. + HEL + IPP/PPP	580+540+45=1165	520+540+45=1105	760+270+45=1075
DPL Generation Availability	460	250	230

IPCL demand connected to J.K.Nagar system	120	120	120
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(b) Finalization of Shut Down proposal for the month of November -2019, December -2019 and January -2020 i.r.o. Generating Units, Transmission Lines and other equipments etc. as provided by the constituents.

(i) **SHUT DOWN APPROVED FOR WBPDC, WBSEDCL, CESC and OTHER GENERATING UNITS:**

UNIT	DURATION	REMARKS
BkTPP #1	01.11.2019 to 28.11.2019	Boiler Overhauling
STPS #5	01.12.2019 to 04.01.2020	Boiler Turbine

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

5.1. Agenda note put up by WBPDC

WBPDC is going to build up a common Network with commercial Meters (Secure, L&T, Genus make). We require connectivity permission from commercial meters, address mapping of Secure Meters & Software decryption of meter data. KTPS Commercial Meters are very old (APEX) which has no extra port for communication purpose.

Deliberation in the meeting:

It is informed to Secure Meter regarding connectivity and address mapping and they are looking into this matter. For replacement of old meter (APEX) at KTPS end, WBPDC are requested to contact CTD.

5.2 Agenda note put up by BTPS

33KV feeders emanating from BTPS are of very short length and prone to frequent tripping which feeds high fault current to BTPS system. So it is requested to explore alternative source for related 33KV load and discontinue 33KV evacuation from BTPS.

Deliberation in the meeting:

BTPS is advised to take up the matter with WBSEDCL authorities.

5.3. Agenda note put up by BkTPP

A. DC compensation during Ramp up after LSD withdrawal

It is noticed that after LSD withdrawal the credit of DC on account of LSD ceases with unit synchronization. No DC for unit back down is credited during ramp up process. Due to this reason we have lost huge capacity charge. So we propose that DC for unit back down should be credited during ramp up process also i.e from unit synchronization to achieving full load.

The matter was also placed in 58 th SLCF meeting but no decision was taken in that meeting as there was no representative from WBSEDCL.

Deliberation in the meeting:

WBSEDCL did not agree with the said proposal. The proposal was not agreed because it may lead to various types of controversies and complexities.

B. Decommissioning of WBSETCL 220KV/33KV Pass Bay inside BKTPP switchyard.

With reference to letter of C.E, SLDC dated 19.03.19 to the C.E Transmission, the expected time frame may please be intimated to us by WBSETCL so that we can explore the vacated yard and control space for our upcoming FGD power supply. The matter was also placed in 58th SLCF meeting, but no discussion was held as there was no representative from Transmission (O&M), WBSETCL.

Deliberation in the meeting:

Due to absent of representative from Transmission (O & M), WBSETCL, the matter was not discussed.

C. Auto refresh of SLDC site

Auto refresh system of SLDC website is still not available.

Deliberation in the meeting:

SLDC advised to the constituents to send a written proposal.

5.4. Agenda note put up by DPL

A. Collection of PCBL data from respective PCBL authority instead of DPL.

Deliberation in the meeting:

At present there is no communication with AB zone sub-station of DPL with SLDC. So DPL is used as intermediary to collect PCBL data at SLDC.

B. Timely updation of Final Schedule on Website.

Deliberation in the meeting:

Final schedule is uploaded in website timely but sometimes wbslhc website (www.wbslhc.in) is unavailable due to some technical fault.

C. Frequent impose and withdrawn of back down to DPL causing difficulty in generation control for single unit running condition.

Deliberation in the meeting:

This happens due to granular load generation balancing during preparation of schedule for the constituents. This type of issue was discussed in past SLCF (ex 56th SLCF).

5.5. Agenda note put up by WBSEDCL

- A.** In the event of sustained surplus condition the state sector generators are being imposed back down up to the MTL as per merit order based on fuel/energy charge. But WBSEDCL is compelled to consume the generation up to the MTL level irrespective of fuel charge to keep the running unit stabilized. During such sorts of sustained surplus management it is observed that under back down condition of lower cost generators, the MTL level quantum of the costlier generations are being consumed due to technical constraint over a long period of operation. Under this situation, in view of the economic dispatch, the lower cost generation can be optimized by the equivalent MTL quantum of the costlier generation through imposition of unit back down/shut down of the same if there is no STU network constraint.

More over during lower price trend in Power market the costly state sector generations can be replaced by market procured power for whole day through unit shutdown /back down while keeping lower cost generations at optimal level simultaneously. Hence, in light of Merit order Dispatch Principle the above measures will reduce the power purchase cost of WBSEDCL which has an ultimate effect on consumer tariff.

Deliberation in the meeting:

Presently the scheduling principle is based on Merit order Despatch and designed as per Regulatory directives. The scheduling software was also designed accordingly. After all stations whose scheduling is done by SLDC, is backed down to the minimum technical level, taking out of generation from bus is considered if further reduction of generation is needed. If this principle is not followed then the software will not yield desired result as taking out of generation from bus is done by-passing the scheduling structure. If it is done on a regular basis then merit order despatch principle will get hampered. Furthermore, normally we do not take out a machine from bus unless there is extreme necessity, as we all know that a machine not only supplies active power but also generates/absorbs reactive power as and when needed. Thus it has a big contribution in controlling system voltage. The voltage profile of the system cannot be maintained at rated values if adequate numbers of machines are not connected to the system.

- B.** Irregularity in current schedule uploading in SLDC website. In the prevailing regime of DSM, such irregularity may cause additional financial burden on the constituent.

Deliberation in the meeting:

SLDC will look into the matter, so that current schedule is uploaded in website timely or informed to the constituents timely.

- C. Long pending issue related to unavailability of Sagardihi TPS sent out generation Data at ULDC platform.

Deliberation in the meeting:

Sagardihi SAS data has been restored on 26.09.19 at 16:50 after uploading firmware in the SDH MUX installed at Berhampur PG by M/S PGCIL.


- D. System operation in compliance with prevailing stringent DSM Regulation needs more precise drawl/injection data in ULDC SCADA in order to monitor & tune the real time deviation more accurately. Any data discrepancy may cause severe financial penalty for the grid members like WBSEDCL during settlement of deviation charge based on ABT meter data. So, periodic calibration of SCADA data with ABT meter data is required to avoid any unnecessary penalty of the intra-state grid constituent.

Deliberation in the meeting:

At present WBSEDCL meter data (ABT meter) is not available, so calibration of SCADA data with ABT meter data is not possible. Once AMR is implemented it can be done.

ITEM No: 7. Date and venue of next SLCF (i.e. 60th) Meeting.

Date and venue of next SLCF meeting will be intimated later.


(P. K. Kundu)
C.E., SLDC, WBSETCL.

Annexure -1

New Transmission lines & Equipments

SI No.	Location	Identification of equipments	Date & Time
1	220 KV Gazole (GIS) sub/stn	132KV Malda-Balurghat-Gazole(tee)ckt	Charged on 11.06.19 at 19.45 hrs from Malda and closed at Gazole at 20.55 hrs.
		132 KV Raigunj-Gazole ckt	Charged on 11.06.19 at 20.11 hrs from Raigunj and closed at Gazole at 20.31 hrs.
		132 KV Bus-coupler breaker	Charged at 21.39 hrs of 11.06.19
2	220 KV Gazole (GIS) sub/stn	132 KV Malda-Gazole ckt	Charged on 12.06.19 at 17.56 hrs from Malda and closed at Gazole at 18.08 hrs.
		132 KV Samsi-Gazole ckt	Charged on 12.06.19 at 18.14 hrs from Gazole and closed at Samsi at 18.39 hrs.
		132/33 KV 50 MVA Tr # 2	Charged on 12.06.19 at 18.50 hrs from HV side and loaded at 18.55 hrs
3	220 KV Gazole (GIS) sub/stn	132/33 KV 50 MVA Tr # 1	Charged on 06.07.19 at 15.45 hrs from HV side and loaded at 13.15 hrs on 08.07.19.
4	400 KV New Chanditala Sub/stn	400 KV New Chanditala-Bidhannagar ckt	Charged on 10.07.19 at 19.33 hrs from New Chanditala and closed at Bidhannagar at 19.36 hrs.
		400 KV New Chanditala-Arambag ckt	Charged on 16.07.19 at 14.52 hrs from New Chanditala and closed at Arambag at 14.54 hrs.


5	220 KV Gazole (GIS) sub/stn	220 KV Malda(PG)-Gazole # 1	Charged on 25.07.19 at 19.08 hrs from Malda(PG) and closed at Gazole at 19.09 hrs.
		220 KV Dalkhola(PG)-Gazole # 1	Charged on 25.07.19 at 19.10 hrs from Dalkhola(PG) and closed at Gazole at 19.12 hrs.
		220 KV Malda(PG)-Gazole # 2	Charged on 25.07.19 at 19.54 hrs from Malda(PG) and closed at Gazole at 19.55 hrs.
		220 KV Dalkhola(PG)-Gazole # 1	Charged on 25.07.19 at 19.57 hrs from Dalkhola(PG) and closed at Gazole at 19.58 hrs.
6	220 KV Gazole (GIS) sub/stn	220/132 KV 160 MVA Tr # 1	Charged on 26.07.19 at 11.49 hrs from HV side and closed at LV side at 11.50 hrs.
		220/132 KV 160 MVA Tr # 2	Charged on 26.07.19 at 12.17 hrs from HV side and closed at LV side at 12.18 hrs.
		132 KV Bus-coupler	Charged on 26.07.19 at 12.35 hrs.

Memo No. SLDC/ How/ 109/ 2019-20/ 924(1-36)

Dated : 27/11/2019

Copy for information please:-

1. The Secretary, WBERC, FD-415A, PouraBhavan, 3rd Floor, Bidhannagar, Kolkata-700 106
2. PS to Managing Director, WBSETCL, Vidyut Bhavan, Kolkata-91.
3. PS to Managing Director, DPL, Kolkata -107.
4. PS to Director (Operations), WBSETCL, Vidyut Bhavan, Kolkata-91.
5. PS to Director (RT), WBSEDCL, Vidyut Bhavan, Kolkata-91.
6. PS to Executive Director (OS), WBPDC, Salt Lake City, Kolkata-700 098.
7. C.E, SLDC, WBSETCL, Howrah-09.
8. C.E, Transmission-I, WBSETCL, Vidyut Bhavan, Kol-91.
9. C.E, Transmission-II, WBSETCL, Vidyut Bhavan, Kol-91.
10. C.E, CTD, WBSETCL, AbhiksanBhavan, Kol-91.
11. C.E, Communication, WBSETCL, AbhiksanBhavan, Kol-91.
12. Chief Engineer, CLD, DVC, Howrah.
13. C.E.(PTP) WBSEDCL, Vidyut Bhavan, Kolkata-91.
14. G.M , (SO) CESC Ltd., Statesman House, Kol- 01.
15. G.M. BTPS, WBPDC.
16. G.M. STPS, WBPDC.
17. G.M. KTPP, WBPDC.
18. G.M. BKTPP, WBPDC.
19. G.M. SGTPP, WBPDC.
20. Sri I. B. Chakraborty, Vice-President, Engineering & Projects, IPCL
21. Addl. Chief Engineer, SLDC, WBSETCL, Howrah-09.
22. Addl. Chief Engineer, ALDC, WBSEDCL.
23. Sri N.G.Saha, DGM, WBPDC.
24. Sri A. Sen Gupta, DGM, System Control Department, CESC Ltd, CESC House, Kol- 01.
25. Sri S. K. Sarkar, G.S.(T&D, Load Management), DPSC Ltd.
26. Sri R. Biswas, Sr. Manager, ALDC, DPL.
27. Sri Suhas Ch. Ray Sr.Manager(Operation), KTPP WBPDC.
28. Sri Indrajit Banerjee Manager(Operation), KTPP WBPDC.
29. Sri D. Chanda, Sr.Manager(PS), BKTPP, WBPDC.
30. Mr. Joynal Abedin, Sr.Manager(E.O.), BKTPP, WBPDC.
31. Sri K. Banerjee, Manager, System Control Department, CESC Ltd, CESC House, Kol- 01.
32. Sri A.Biswas, Manager(PS), BKTPP, WBPDC.
33. Sri F.Hossain, Manager (PS), SGTPP, WBPDC.
34. Sri M.S.Bapari, Manager (PS), SGTPP, WBPDC.
35. Sri M. Mallik, Sr. Manager, (System Operation – Electrical), BTPS, WBPDC.
36. Sri S. Maiti, Sr. Manager (O), STPS, WBPDC.


Convenor, SLCF 27-11-19