DELHI TRANSCO LIMITED
(A Govt. of NCT of Delhi Undertaking)
An ISO 9001:2008 certified company
Office of DGM(T) OS, Convener-OCC
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Phone No.- (011)-23238882

No. F.DTL/831/F.4/2017-18/DGM (OS)/10 Date:24.04.2017

To,
All Members of Operation Co-ordination committee

DTL	General Manager (O&M)-I, Chairman OCC	Fax no. 011-23366160
	General Manager (O&M)-II	
	Executive Director (Planning) Fax No.011-23622707	
	DGM (O&M)- North, East, West, South	
	DGM (M/P)	Fax no. 011-23366160
	DGM(Plg.)	Fax No.011-23632031
SLDC	GM (SLDC)	Fax no. 011-23221069
	DGM (SO)	Fax no. 011-23221059/12,
TPDDL	HOD (PSC &AM)	Fax no. 011-66050602
	Sr. Manager (PSC)	Fax no. 011-66050602
BRPL	Asstt. Vice President (SO)	Fax no. 011-39996549
BYPL	General Manager (SO)	Fax no. 011-39996549
NDMC	Superintending Engineer	Fax no. 011-23235754
IPGCL	AGM (T) COS	Fax no. 011-23284797
	AGM (T) Opr. GTPS	Fax no. 011-23370884
PPCL	DGM (T) Opr. PPS-I	Fax no. 011-23378947
	DGM (T) Opr. PPS-III	Fax no. 011-27791175
MES	AEE/M.SLDC Officer	
BTPS	AGM (EEMG)	Fax no. 011-26944348
BBMB	Sr. Executive Engineer, O&M	Fax no. 011-28315542
DMRC	Addl. GM (Elect.)	Special Invitee
DMRC	General Manager (Elect.)	Special Invitee
N. Railways	Sr. DEE (TRD)	Special Invitee
EDWPCL	Director (EDWPCL)	Special Invitee
Delhi MSWSL	Station Incharge	Special Invitee

Sub: Agenda for OCC Meeting to be held on 27.04.2017 (Thursday) at 2:30 P.M.

Dear sir/madam,

The next OCC meeting is scheduled to be held on dt.- **27.04.2017(Thursday) at 2:30 P.M.** at the following venue:-

SLDC Building, Minto Road, Opp. MCD Civic Centre, New Delhi-110002

You are hereby requested to attend the meeting in accordance with the agenda enclosed herewith.

Thanking You.

Encl: Agenda for OCC meeting.

Yours Sincerely,
sd/-
(Hitesh Kumar)
DGM(OS),DTL
Convener-OCC

DELHI TRANSCO LIMITED

(Regd. Office: Shakti Sadan, Kotla Road, New Delhi-110002)

AGENDA FOR OCC MEETING DT. 27.04.2017

Date : 27.04.2017 (Thursday)
Time : 2:30 PM
Venue : SLDC Building
Minto Road, Opp. MCD Civic Centre,
New Delhi-110002

1. Confirmation of minutes of OCC meeting dated 28.03.17.

An OCC meeting was held on 28.03.17 in accordance with the agenda circulated vide letter dt. 21.03.17. Minutes of the aforesaid OCC meeting were issued vide letter dt.07.04.17.

Members may like to confirm the same.

2. DTL Agenda points:

2.1 Implementation of Special Protection Scheme

The matter was discussed in the last OCC meeting, wherein it was deliberated that to meet the expected Summer demand of 6600MW and to avoid cascading effect on outage of any transmission element, Special Protection Schemes be devised to obviate complete blackout of sub-stations during peak time, where severe constraints are in existence. SLDC has identified crucial transmission system including 220 kV transmission lines and 220/66 kV & 220/33 kV Transformers which are likely to be over loaded during the peak time this Summer.

The operation of Special Protection Scheme has to be activated when the loading of 220KV transmission Lines consisting of Zebra Conductors reaches to 700Amp. It was decided that scheme to be worked out so that the tripping command of 66kV, 33kV feeders and 11kV incomers can be given in stages so as to disconnect the load before the parallel over loaded upstream feeder/transformer Over current Relay initiate trip command on Over current protection. The feeders has been identified by the DISCOMs for disconnection in such scenario for the following specific transmission lines and are as under:

S. No.	Name of the Circuit	66/33 kV Feeders which can be switched off during the exigencies.
1	220kV Bamnauli-Papankalan-I ckt-I &ckt-II	66kV Bindapur Ckt-I & II 66kV Budhela Ckt-I & II
2	220kV Bamnauli-Papankalan-II ckt-I &ckt-II	66 kV Hastsal and Local Transformers.
3	220kV Bawana-Rohini-I ckt-I &ckt-II	66kV RG-24 Ckt.-I & II 66kV DC-I & II
4	220kV Ballabgarh-BTPS –I & II	The committee has decided during the exigency at Ballabgarh-BTPS –I &–II. The 66 kV Batra ,66 kV Tuglakabad and local transformers shall be switched off from 220 kV Okhla grid.

5	220kV Mandola-Gopalpur Ckt –I & II	33kV Model Town-I & II 33kV Indira Vihar-I
6	220kV BTPS-Mehrauli-I &II	Scheme is already commissioned. Tripping of 66kV Malviya Nagar –I & II and 66kV C dot-I & II for reliability of DIAL supply and to avoid isolation of BTPS from Bamnauli when the system is interconnected.
7	220kV Mundka-Peeragarhi-I &II	The committee has decided to take load on the U/G cable up to maximum capacity.
8	220kV Mundka-Najafgarh	2 nos Local Transformers, 66kV Nangloi, 66 kV Jafarpur
9	220kV BTPS-Okhla-I &II	The committee has decided during the exigency at Ballabgarh-BTPS –I &–II. The 66 kV Batra ,66 kV Tuglakabad and local transformers shall be switched off from 220 kV Okhla grid.
11	220kV Pragati-Park street-I &II	33 kV Motia khan, 33 kV Faiz Road, 33 kV Prasad Nagar and 66 kV School Lane. In case of the emergency the NDMC shall shift the load.
12	220 kV Mandaula-SOW-I,II,III and IV running parallel	66 kV Shastri Park at SOW and all 33kV feeders at Geeta colony.
13	220kV Ridge valley- Naraina	Scheme is already commissioned. Tripping of 33kV Inderpuri –I and II in Stage -1 and 220kV Bus Coupler in Stage –2 to avoid overloading of Ridge-Valley cable when Maharani Bagh and Bamnauli supply are interconnected through this link.

The Special Protection Scheme (SPS) for immediate load relief is to be implemented by 30th April, 2017. The scheme will be configured in respective Numerical Relays by the Protection Deptt. As decided in the last OCC meeting, the work of laying and termination of 4Cx2.5 sq. mm Control Cable from 220 kV Feeder Relay panel to the respective 66/33KV panel in respect of 220 kV transmission lines as mentioned above is to be done by the respective Sub-Station In-charge in consultation with the Protection Deptt., where the scheme are to be implemented. The work of the laying and termination of Control Cables was to be completed by 15th April, 2017.

DTL to update the status.

2.2 Tripping of 220/33kV 100MVA Tr.-II at 220kV Sub-stn Wazirpur on 21.03.2017 at 00:07 hrs.

The 220/33kV 100MVA Tr.-II at 220kV Sub-stn Wazirpur tripped on 21.03.2017 at 00:07 hrs. resulting load shedding.

It was informed by DTL(O&M) that there was no fault in the transformer as revealed by the DR of numerical relay. The tripping occurred due to LV to HV inter-tripping. The Transformer LV side switchgear and its control is within the premises of TPDDL and DTL has no control over it.

During the last OCC meeting dt.-28.03.2017, The representatives of TPDDL informed that they are unaware of the event and will update in the next OCC meeting.

Further OCC advised that DTL O&M deptt. in consultation with Planning deptt. should raise the requisition for having Transformer LV side switchgear and its control within DTL premises.

DTL & TPDDL may deliberate.

2.3 Storage of scrap material by BRPL Najafgarh at the common road at 220kV DTL Substation Najafgarh

The matter has been discussed in previous OCC meetings, wherein it was informed by Mgr(O&M), DTL (N-3) that BRPL Najafgarh is using the common road from Main Security Gate (at Main Road) to Security Gate at DTL 220kV Najafgarh Substation Security Gate which is creating the hindrance to men and material of DTL and common public at large too. The problem enhances and get gruesome when general public park their vehicles while visiting the BRPL Office encroaching the corridor. It can also not be ruled out that in case of major chaos, if any fire breaks out at DTL installation at Najafgarh or similar exigency, fire tenders/emergency vehicles may not be able to enter the premise due to space crunch created by storage of damaged & old scraps in the form of LT transformers, electrical poles and also due to parking of vehicles by general public.

During the last OCC meeting held on 28.03.2017, it was informed by DTL that some transformers have been removed from the site. BRPL assured for removing of the rest transformers by this May end. OCC advised BRPL for expediting the same.

DTL,BRPL to update the status.

3. SLDC Agenda points:

3.1. Split Bus Operation at 400KV Bamnauli

400KV Bamnauli –Jhatikalan Circuit No.2 has been operating on ERS since 22.05.2016. The revival of normal tower is expected to take by 31st May, 2017. Following the increasing load, load on the Circuit has the tendency to cross normal limit of 850MW. During the last Summer Season, a Bus Split arrangement was invoked. It is proposed to Split the Bus with one 500MVA Transformer on one 400kV bus and the other three ICT's on other 400kV Bus as detailed hereunder :-

400kV Bus-I	400kV Bus-II
1. 400KV Bamnauli-Ballabhgarh ckt. I & II 2. 315MVA ICT I & IV 3. 500MVA ICT-II 4. 220KV Bus C&D 5. 220KV Naraina Ckt. I & II 6. 220KV Papankalan-II Ckt. I & II 7. 220KV Najafgarh Ckt. I & II 8. 220KVDIAL Ckt. I & II	1. 400KV Bamnauli-Jhatikalan ckt.II (on ERS) 2. 500MVA ICT-II 3. 220KV Bus A& B 4. 220KV Papankalan-I Ckt. I & II

In case of outage of either the Jhatikalan 400kV Ckt. or the 500MVA Transformer, the Pappankalan-I load would be affected, till the same is shifted to other Bus with the approval of NRLDC.

OCC may deliberate.

3.2. Operating Procedure of Northern Region

NRLDC has drawn out operating procedure of Northern Region as per the Regulations of Electricity Grid Code. One of the important aspects with regard to Delhi system is the feeders identified in case of physical Regulation.

Feeders for physical regulation of supply in delhi				
S.No.	Transmission elements to be opened	Power supply interruption in	Approx. Relief (MW)	Remarks
1	220KV Mundka- Peeragarhi ckt 1 & 2	Peeragarhi	100-150	
2	220KV BTPS- Okhla 1 & 2	Okhla	200-350	
3	33kv Delhi ckt 1,2,3 & 4 feeders from Rohtak road (BBMB)	Rohtak road	20-30	
4.	220KV Maharani Bagh- Lodhi Road D/C	Lodhi road	200-300	Reliability of VIP load from Lodhi road may be affected
5	220KV Maharani Bagh -Masjid Moth D/C	Masjid Moth		

While identifying the above, it was required to be ensured that the inter connection system are not getting affected in case of physical power regulation to take care of the grid eventuality .
OCC may note.

3.3. Real Time Data of Renewable (Grid Connector)

Real Time data of Renewable Clauses 6(3) and 6(4)(b) of General Connectivity Conditions of Central Electricity Authority (Technical Standards for Connectivity to Grid) Regulations 2007 stipulates the voice and data communication requirements for all the generating projects including the renewable, which are getting connected to the grid at voltage level of 33 kV and above. The relevant clauses are as under:

"6(3) – The requester and user shall provide necessary facilities for voice and data communication and transfer of on-line operational data, such as voltage, frequency, line flows, and status of breaker and isolator position and other parameters as prescribed by the Appropriate Load Despatch Centre.

6(4) – The requester and user shall cooperate with the Regional Power Committee, and Appropriate Load Despatch Centres in respect of the matters listed below, but not limited to : - (b) agree to maintain meters and communication system in its jurisdiction in good condition;"

Similarly, **Clause 4(4) of General Connectivity Conditions of Central Electricity Authority (Technical Standards for Connectivity of the Distributed Generation Resources) Regulations, 2013** stipulates to provide communication facilities by generating stations feeding electricity into the system at voltage level of below 33 kV. The relevant clause is as under:

"4(4) – The applicant and the user shall provide necessary facilities in the distributed generation resource for communication and storage of data and other parameters as may be stipulated by the appropriate licensee in a nondiscriminatory manner."

In view of the relevant Clauses of the CEA Regulations cited above, it is obligatory for all the grid connected renewable generators to provide necessary facilities for data communication and data-storage and other parameters as may be stipulated. CEA had requested SLDCs to take up the matter with all the renewable generators to ensure transfer of data to the appropriate Load Despatch Centre, so that the real time generation data is available with them for centralized monitoring. The present status in this regard and the action plan with definite time frame to ensure real time data telemetry from all the grid connected Renewable Generators/Plants to the SLDCs is to be submitted to CEA and NRPC Sectt..

OCC may deliberate.

3.4. Summer Preparedness

On 31.03.2017, Secretary Power, Govt. of India took a meeting to review the power supply position of the country during the Summer 2017. The following were the main decision with regard to Delhi is concerned:-

a. From the weather outlook broadcast by IMD for March-May 2017, about 2^0 Celsius rise in temperature above the normal level for this period was forecasted over Northern Region and West Bengal, while across India Temperatures were expected to be about 1^0 Celsius degrees above normal. AGM(System Operation), NLDC stated that based on an earlier exercise by POSOCO, it was found that a 1 degree rise in temperature above $35\text{-}40^0$ contributes to about 3-4% rise in space cooling requirements for a metropolitan city like Delhi. He also stated that based on the MoU between POSOCO and IMD, the latter had developed a portal presenting comprehensive station-wise weather forecasts for about 100 weather stations in Northern Region, which would be helpful to the Northern Regional Load Despatch Centres (NRLDC) and State Load Despatch Centres(SLDCs) of Northern Region.

b. Secretary(Power), Delhi Government stated that Badarpur TPS has already started generating to meet high demand.
Trippings of 220KV Samaypur BBMB substations as well as the need for re-conductoring of 220KV Samaypur-Ballabgarh-BTPS was emphasized by Delhi.
Considering the N-1 insecurity of Delhi system in case imports exceeded 5000 MW, there is a need for maintaining core generation within Delhi, which is possible only with increase in gas generation.

c. Based on discussions, following action points were decided :
   i. States to maintain reserves at 50% of their largest size generating unit to take care of contingencies in the system and also in line with the CERC roadmap on operationalization of reserves in the country.
   ii. All State utilities to procure at least two Emergency Restoration Systems(ERS) to take care of transmission tower failures and minimize outages on this account. Regional Power Committees (RPCs) would monitor the same in respect of all transmission utilities under their jurisdiction.
   iii. Power Grid and the State Transmission Utilities would make efforts to expedite commissioning of the transmission lines under construction, so that further congestion in the transmission network is minimized.

OCC may deliberate.

4.0 TPDDL Agenda

4.1 Non-availability of alternate source at 66kV Rewari Line Grid:

TPDDL have informed that there are two 66kV source for Rewari Line Grid:

a) I/C from 220kV Pappankalan-I (DTL)
b) I/C from Pankha Road T-off Sagarpur (BRPL)

But since 30.07.2016, 66kV circuit from Pankha Road has been faulty. Due to which they are facing hindrance in their regular maintenance work. As temperature is going up, loading condition is also attaining severe now. In such condition, any further tripping results in high quantum of load shedding. On dated 15.04.2017, 66kV Pappankalan-I to Rewari Line circuit got tripped and during that time there were load constraint at Rohtak Road due to CT flashed at 220kV Narela (BBMB) end. So, TPDDL have requested that BRPL should look into the matter and arrange to make that 66kV circuit from Pankha Road grid available as early as possible.

TPDDL and BRPL may deliberate.

4.2 Issue in getting PTW from BSES Grid:

TPDDL have informed that during the last few days they are facing hindrance in getting PTW on feeder emanating from BSES grid. Whenever their authorised person visits any of their grid for PTW, they refuse to issue and ask unnecessary question about qualification, designation, experience etc. Even after answering all these things, they ask for showing document against the above detail. These unnecessary argument results in unsolicited delay in restoring consumer and creating tough situation to work on ground.

They have also informed that they have already created a Tagging List of authorised persons after proper training, assessment and interview. They will also undergo refresher training program after certain time period.

In view of above, TPDDL have requested that BRPL should confirm from Cennet regarding authenticity about any employee of their organization without indulging in unnecessary dispute.

TPDDL and BRPL may deliberate.

4.3 Low Voltage issue at DTL exchange points:

TPDDL have informed that with rise in summer load, voltage are getting as low as 62kV during peak time especially at 220kV Kanjhawala, 220kV Gopalpur and 220kV Narela. Similar problem have been noticed at 220/33kV Subji Mandi also. Therefore, TPDDL have requested to raise tap position of 220kV/66kV and 220kV/33kV Power Transformers.

TPDDL, DTL and SLDC may deliberate.

5. Proposed Planned Shutdowns

5.1 Proposed shutdowns of O&M, DTL

DTL O&M deptt. has proposed the planned shutdowns for the month of May 2017 as per enclosed Annexure.

OCC may deliberate.

6. Long/Recent outage of Elements in Delhi power system.

Members to update the status of following Long/Recent outage of Elements in Delhi Power system:

S.No.	Element's Name	Discom/ DTL	Date and Time of outage	Remarks/Status as on 24.04.2017
1.	33kV BAY -3 (IP – KILOKARI)	BRPL	22.02.11	Clearance from Railways for laying of Underground cables near Bhairon Road is pending. OCC advised BRPL to inform DTL after awarding of the said work. During the OCC meeting dt.-28.11.2016, It was deliberated that the above work shall be started after joint inspection with Railways.
2.	33kV RIDGE VALLEY - KHEBAR LINE CKT.-II	BRPL	31.01.16	R-Ph SINGLE CABLE FAULTY
3.	33kV IIT-JNU Ckt.	BRPL	27.11.16	CT problem
4.	66kV VASANT KUNJ INSTL.AREA-RIDGE VALLEY CKT.-I	BRPL	26.03.2017	Under Shutdown
5.	33kV OKHLA (220kV) ALAKNANDA CKT-I	BRPL	07.04.2017	SINGLE CABLE FAULTY
6.	33kV LODHI ROAD - EXHIBITION GROUND -II	BRPL	23.04.2017	Y & B-Phase Single Cable Faulty
7.	66kV SAGARPUR - REWARI LINE CKT.	BRPL	30.07.16	'B' PH. CABLE FAULTY. RE-ROUTING BEING DONE.
8.	66kV BUS COUPLER AT G-15 DWARKA	BRPL	22.11.2016	CT Blast.
9.	30MVA PR.TR. AT NANGLOI	BRPL	18.03.2017	PROTECTION PROBLEM
10.	33kV CHAUKHANDI - PACIFIC MALL CKT	BRPL	29.03.2017	SINGLE CABLE FAULTY
11.	20 MVA Pr. Tr. –III at G-5 MATIALA	BRPL	11.04.17	UNDER SHUT DOWN

12.	33kV NARAINA- MAYA PURI CKT.-I	BRPL	22.04.2017	R-Ph. SINGLE CABLE FAULTY
13.	33kV NARAINA- MAYA PURI CKT.-II	BRPL	22.04.2017	SINGLE CABLE FAULTY
14.	33kV GONDA - SEELAMPUR U/G CKT.	BYPL	22.04.2017	Y-PH. SINGLE CABLE FAULTY
15.	33kV GONDA - SEELAMPUR O/H CKT.	BYPL	23.04.2017	B & Y-PH. CABLE FAULTY
16.	33KV PANDAV NAGAR - DMS CKT.	TPDDL	03.04.16	PROBLEM IN RMU.
17.	33kV JAHANGIRPURI-SANJAY GANDHI TR. NGR CKT-I	TPDDL		R-PH CABLE FAULTY
18.	66KV S.G.T.N.(GIS) - PP 1 CKT.-1	TPDDL		Y-PH CABLE FAULTY
19.	33kV JAHANGIRPURI - AZADPUR CKT.-I	TPDDL	05.04.2017	B-PH SINGLE CABLE FAULTY
20.	33kV NARAINA (220kV) - PADAV NAGAR CKT.	TPDDL	11.04.2017	SINGLE CABLE FAULTY
21.	33kV EXHIBITION GROUND-II - TILAK MARG CKT.	NDMC	23.04.2017	CLAMP BURNT
22.	400kV BAMNAULI - JHAKTIKARA CKT.-I	DTL	22.05.16	Dead end Tower No.-169 along with gantry collapsed at Bamnauli end. Ckt.-II charged on ERS. Order placed. Expected by 30.04.17.
23.	100MVA Tr.-2 AT GEETA COLONY	DTL	01.12.16	Transformer declared faulty and the same is being replaced.
24.	220/33kV 100MVA PR.TR.-I AT 220kV WAZIRPUR	DTL	19.10.16	Tr. Tripped on Differential and Buchholz. Internal inspection has been carried out and the transformer being sent to OEM for repair. The third 100 MVA Tr. of Preet Vihar Sub-stn has been diverted to Wazirpur.Expected by 30.04.2017.
25.	220/33kV 100MVA PR.TR.-II AT 220kV LODHI ROAD	DTL	22.03.17	Transformer tripped on Differential and Bucholz relay.Tr. has been declared faulty and is to be replaced.
26.	220KV MAHARANI BAGH – LODHI ROAD CKT-I	DTL	05.04.17	Y-Phase Bushing of Cable END Box damaged at Maharani Bagh end. Expected by 30.04.2017.
27.	220/33kV 100MVA PR.TR.-IV AT 220kV OKHLA	DTL	07.04.17	Transformer tripped on Differential, PRV.Transformer declared faulty.

Thank You

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