



No. F.DTL/201-F.4/2021-22/DGM(OS)/179

Date: 20.01.2022

To,
All Members of Operation Co-ordination Committee

DTL	General Manager (O&M)-I, Chairman OCC General Manager (O&M)-II General Manager (P&M, DM&S) General Manager (Planning) DGM (O&M) - North, East, West, South DGM (M/P) DGM (Planning)	
SLDC	ED (SLDC) DGM (SO)	
TPDDL	HOD (PSC&AM) Sr. Manager (PSC)	
BRPL	AVP (SO)	
BYPL	AVP (SO)	
NDMC	Superintending Engineer, E-1	
IPGCL	AGM (T) Opr. GTPS	
PPCL	AGM (T) Opr.PPS-I AGM (T) Opr. PPS-III	
MES	AEE/M.SLDC Officer	
BBMB	Sr. Executive Engineer, O&M	
DMRC	Addl. GM (Elect.) Sr.DGM (Traction)	
GMR(DIAL)	GM (DIAL)	Special Invitee
N. Railways	Sr. DEE (TRD)	Special Invitee

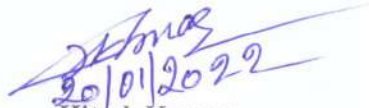
Sub: Agenda for 10th Delhi OCC Meeting (2021-22) to be held on 28.01.2022 at 11:00 A.M. through video conferencing.

The 10th Delhi OCC meeting (2021-22) is scheduled to be held on dt.- **28.01.2022, 11:00 A.M** and will be conducted through video conferencing as per attached agenda. **The link and password for joining the meeting is attached in mail.**

Members are hereby requested to make it convenient to attend the meeting via **video conferencing**.

Thanking You.

Sincerely yours,


20/01/2022
Hitesh Kumar
DGM(T)OS, DTL

DELHI TRANSCO LIMITED

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

AGENDA FOR DELHI OCC MEETING NO. 10/2021-22

Date : **28.01.2022**
Time : **11:00 AM**
Venue : **Via Video conferencing**
In O/o-GM(O&M)-I, Delhi Transco Ltd.,
220 kV Sub-Stn Park Street Building,
New Delhi-110001

1. Confirmation of minutes of 9th Delhi OCC meeting (2021-22) held on dated 28.12.2021.

The 9th Delhi OCC meeting (2021-22) was held on 28.12.2021 through video conferencing in accordance with the agenda circulated vide letter dt: 22.12.2021 & 24.12.2021. Minutes of the OCC meeting were issued on 31.12.2021 and was uploaded on DTL website (http://dtl.gov.in/content/344_1_OCC-Meeting2021.aspx).

DTL Agenda:-

2. Proposed planned shutdowns of DTL for the month of February-2022.

DTL proposed planned shutdowns for the month of February-2022 (Annexure-I).

(OCC may deliberate)

3. Frequent tripping of 66 kV Feeders at 220 kV Substation SOW , DTL

It has been observed that 66 kV Feeders are tripped very frequently from SOW end. It is related with those feeders which are connected with underground cable system. However, it was observed that these circuits are being tripped with heavy fault current on the distance protection relay and other protective relays, and within 2-3 hours there were energized. Now, it is matter of concern, if these circuits are underground cables and fault incepted then how they can be energized in such a small time span. Either these circuits are not fully underground cables or these trippings are due to some external faults in the system, which are outside the domain of the protective relays. Tripping details of recent incidents are as below:-

S.No	Name of Element	Tripping date/time	Energization date/time	Relay indication
1	66kV Yamuna Vihar Ckt-II	16.01.22 at 08:43 hrs	16.01.22 at 10:45 hrs	R-Ph Trip Zone-I, dist.-2 KM
2	66kV Ghonda Ckt-I	16.01.22 at 22:52 hrs	17.01.22 at 00:43 hrs	CN phase trip, E/F trip dist- 32.38 km
3	66kV Ghonda Ckt-II	16.01.22 at 22:52 hrs	Under B/D	distance 0.4 Km, Zone-I, L3 E

Therefore, from the above details , it is very much evident that tripping of Yamuna Vihar Ckt-II and Ghonda Ckt-I are not accepted, keeping in view that these are underground cable system. Such tripping, which could be avoided, affects the healthiness of our power transformers.

OCC may deliberate.

(OCC may deliberate)

SLDC Agenda:-

4. High voltages and reactive power issues in Delhi power system

With onset of winter, High Voltages conditions have been faced in Delhi System. This is happening because of decrease in power demand in Delhi area. High voltage also causes stress on Transmission system equipments. It has been observed that during high voltage conditions Delhi injects reactive power to the grid resulting payment of heavy penalty to NRPC reactive account by Delhi.

In 190th NRPC OCC Meeting held on 21.12.2021, it has been observed that generators are not absorbing reactive power as per their capability curve.

Following steps are in practice and discussed in previous OCC meetings to control the high voltage/ injection of reactive power .

- (i) Switching off the capacitors at all the Substations of Delhi.
- (ii) Transformer taps optimization by DTL and DISCOM.
- (iii) Monitoring of all 400/220kV ICTs and taking actions wherein VAR flows are observed from 220kV to 400kV side. In this respect reactive energy changes could also be monitored.
- (iv) Opening of lightly loaded transmission cables/transmission lines keeping reliability in focus.
- (v) Absorption of reactive power by all generating units as per its capability curve.

In 9th Delhi OCC, December-2021, high voltage & reactive power injection issue was deliberated and following corrective actions were advised:-

- i. Switching off the capacitors at all the Substations of Delhi.***
- ii. Transformer tap optimization by DTL and DISCOM.***
- iii. Monitoring of all 400/220kV ICTs and taking actions wherein VAR flows are observed from 220kV to 400kV side. In this respect reactive energy changes could also be monitored.***
- iv. Opening of lightly loaded transmission cables/transmission lines keeping reliability in focus.***
- v. All the generators are advised not to inject MVAR in grid and should absorb MVAR particularly during high voltage condition above 400kV to improve voltage profile of the grid as per their capability curve. The detail of MVAR generated /absorbed by each machine be intimated to SLDC for proper analysis.***
- vi. DISCOMs/DMRC were requested to select the list of feeders for switching exercise to control reactive power injection. List of selected feeders to be shared with SLDC.***
- vii. For switching of 220kV level double ckt U/G cables, OCC advised switching of U/G cable circuits on alternate basis to ensure the healthiness of both the ckts. DTL/O&M shall inform the SLDC if any U/G cable ckt switched off for more than a week.***

OCC also advised DMRC, DTL & DISCOMs to explore all possibilities to control system voltage profile and reactive power injection in system from their respective ends. Action should be taken by Generators (IPGCL,PPCL, Bawana) to absorb reactive power at high voltages.

(OCC may deliberate)

5. Long/recent Outage/breakdown of elements in Delhi power system.

Members may update the latest status of following Long/Recent Outage/Breakdowns of elements in the Delhi Power system as under:

S. no.	Element's Name	Utility	Date of outage	Status of outage as on 17.01.2022
1.	220kV PEERAGARHI - 33kV A-4 PASCHIM VIHAR CKT.	BRPL	10.07.21	'Y' PH. SINGLE CABLE CONNECTOR FAULTY.
2.	220kV OKHLA - 33kV EAST OF KAILASH CKT.	BRPL	25.08.21	'R' PH. SINGLE CABLE FAULTY.
3.	220kV PPK-II - 66kV HASTAL CKT.-I	BRPL	18.10.21	'B' PH. SINGLE CABLE FAULTY.
4.	220kV IP -BAY 24 IP-NEHRU STADIUM	BRPL	12.01.22	B' & Y' PH. SINGLE CABLE FAULTY.
5.	33kV SCOPE MINAR - MOTHER DAIRY CKT.	BYPL	27.12.22	'Y' PH. CABLE FAULTY
6.	220kV PATPARGANJ -33kV GURU ANGAD NAGAR-II	BYPL	16.01.22	'R' PH.CABLE FAULTY
7.	220kV S.O. WAZIRABAD - 66kV GONDA CKT.-II	BYPL	16.01.22	'B'PH. CABLE FAULTY
8.	33kV SHASHTRI PARK - SEELAMPUR CKT.	BYPL	16.01.22	'R' PH. SINGLE CABLE FAULTY.
9.	220kV PARK STREET - 66kV DMRC CKT.-I&-II	DMRC	19.10.21	SHUT DOWN FOR GRID SHIFTING WORK AT DMRC END.
10.	400kV BAWANA, 315MVA ICT-II	DTL	30.03.21	315MVA ICT-II CAUGHT FIRE AND DAMAGED.
11.	AT PEERAGARHI: - 220/33kV 100MVA TRF.-I	DTL	10.07.21	TRIPPED ON DIFFERENTIAL. TX FAULTY.
12.	220kV LODHI ROAD - 33 kV VIDYUT BHAWAN, JLN STADIUM FEEDERS	DTL	29.11.21	AFFECTED DUE TO BOTH 33kV BUSES DEAD BECAUSE OF FIRE IN 33kV GIS
13.	AT MUNDKA: 315MVA ICT – IV	DTL	13.11.21	TRIPPED ON BUCHLOZ RELAY. 'R' PH. WINDING DAMAGED.
14.	AT ROHINI I:- 220/66KV 100MVA TR.-I	DTL	28.12.21	SHUT DOWN FOR OVERHAULING OF TRANSFORMER.
15.	AT MEHRAULI: 20MVA PR.TR.-II	DTL	01.01.22	SHUT DOWN FOR OVERHAULING OF TRANSFORMER.

S. no.	Element's Name	Utility	Date of outage	Status of outage as on 17.01.2022
16.	AT MEHRAULI: 100MVA PR.TR.-II	DTL	07.01.22	TRIPPED ON BUCHHOLZ RELAY.
17.	AT MEHRAULI: 220KV DIAL CKT-I&II, 20MVA PR. TR.-I, ALL 11KV FEEDERS	DTL	08.01.22	CONTROL PANEL DAMAGED. DUE TO FIRE IN 11KV SWITCHGEAR.
