

DELHI TRANSCO LIMITED
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Office of Dy. Gen. Mgr. (OS & Lines)
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MINUTES OF THE OCC MEETING DT. 08.06.2015

E.D. (Tech.) (O&M)-I, DTL, Chairman-Delhi OCC welcomed all the members of OCC and distinguished guests to the meeting.

List of participants is enclosed.

The point-wise deliberations made during the meeting are as below:

1.0 Confirmation of minutes of OCC meeting dtd. 11.05.2015

Last OCC meeting was held on 11.05.15 in accordance with the agenda circulated vide letter dt.06.05.15. Minutes of the aforesaid OCC meeting were issued vide letter dated 18.05.2015.

Members confirmed the same.

2.1 Status of Installation of Capacitors – Study by Planning Deptt., DTL

DTL had entrusted CPRI to study the installation of shunt capacitors in Delhi system on the advice of OCC. Accordingly CPRI carried out the study for reactive power compensation in Delhi. Final report had been submitted by CPRI and for its implementation; a copy of report had been emailed to all DISCOMs and GENCOs.

In the OCC meeting dt.13.01.15, DTL informed that during 33rd meeting of NRPC held on 11 Nov.2014 at Chandigarh it was decided that NRPC will hold a meeting with DTL and POWERGRID to finalize the requirements of reactors.

During OCC meeting dt.13.02.15, SLDC informed that a meeting has been scheduled with internal stake holders by SLDC on dt.18.02.15 regarding reactive power study.

SLDC convened a meeting with DISCOMs on dt. 18.02.15 to discuss on the Reactive Power Study report submitted by CPRI and DISCOMs informed that they shall provide their comments by the end of March, 2015.

DTL informed that comments from BRPL and BYPL have been received. Comments on the report are still pending from TPDDL and NDMC.

OCC advised TPDDL and NDMC to submit their comments to DTL Planning at the earliest, along with a copy to Delhi SLDC.

(Action by TPDDL, NDMC)

2.2 Status of Hot Reserve of transformers at all levels.

DTL updated the status of following hot reserves:

S. No	Capacity	Present population in nos.	Status of the hot reserve as on 08.06.15
1.	220/66kV, 160MVA Tx	18	DTL informed the work has been awarded to M/s Kanohar. Completion period is 5 months from date of award of work i.e. by the end of September, 2015.
2.	220/66kV, 100MVA Tx	41	DTL informed that indent has been sent for 220/66/33kV 100MVA Tx as hot reserve at 220kV Patparganj Substation.
3.	220/33kV, 100MVA Tx,	36	

OCC advised DTL to expedite the work.

(Action by DTL)

2.3 Long/Recent outage of Elements in Delhi power system as on 05.06.2015 at 08:00 Hrs.

Members updated the status of Long/Recent outage of Elements in Delhi Power system as below:

S. No.	Element's Name	DISCOM/D TL	Date and Time of outage	Remarks/ Status as on 08.06.2015
1	33kV BAY -3 (IP – Kilokri)	BRPL	22.02.11	Clearance from Railways for laying of Underground cables near Bhairon Road is pending. DTL informed that railways has issued the order for carrying maintenance work along railway lines without any charges and advised BRPL to take up with railways for revival of circuit.
2	66kV Vasant Kunj – Ridge Valley Ckt.-II ('Y' Ph. Cable)	BRPL	13.01.14	BRPL informed that contract is to be awarded for laying new cable.
3.	33kV BAY-5 (IP – Lajpat Nagar) along with 33KV ½ BUS at Lajpat Nagar.	BRPL	01.03.14	Energized on 15.05.15
4.	33kV Kilokri – Jamia CKT. ('R' & 'B' Ph. Cable)	BRPL	15.03.14	Expected by 18.06.15
5.	33kV VSNL – Nehru Place Ckt. (single cable)	BRPL	02.07.14	Energized on 07.06.15
6.	33kV NIZAMUDDIN – EXHIBITION GROUND –I	BRPL	20.01.15	Ckt. put OFF. BRPL informed that the circuit has been abandoned as it got outlived.
7.	66kV PPK –I BODELLA –I CKT.	BRPL	01.02.15	BRPL informed that one cable is faulty and expected by 11.06.15
8.	50MVA PR.TR.-I AT RIDGE VALLEY	BRPL	01.03.15	Circuit is energized. LA is not available
9.	50MVA PR.TR.-I AT NANGLOI	BRPL	01.03.15	Circuit is energized. LA is not available

10.	20MVA PR. TR.-IV AT BIJWASAN	BRPL	02.06.15	Circuit is energized. LA is not available
11.	33kV UDYOG NAGAR - NANGLOI CKT.-II	BRPL	08.04.15	Circuit is energized. LA is not available
12.	20MVA PR.TR.-III AT PANKHA ROAD	BRPL	30.05.15	Expected by 11.07.15
13.	66kV G-5 MATIALA - DELHI JAL BOARD CKT.-I	BRPL	01.06.15	Expected by 20.07.15
14.	66kV PPG INDL. AREA - KHICHRIPUR CKT.-II	BYPL	03.05.15	R phase Cable faulty. Expected by 08.08.15
15.	33kV KANTI NAGAR - KARKARDOOMA CKT.-I	BYPL	24.05.15	B&Y phase Cable faulty. Expected by 16.06.15
16.	66kV PPG INDL. AREA - KHICHRIPUR CKT.-I	BYPL	28.05.15	B phase Cable faulty. Energized on 07.06.15
17.	33kV ROHTAK ROAD - PRASAD NAGAR CKT.	BYPL	02.06.15	Single Cable faulty. Energized on 07.06.15
18.	66kV YAMUNA VIHAR - LONI ROAD CKT.	BYPL	03.06.15	Y phase Cable faulty. Energized on 07.06.15
19.	66kV DMRC CKT.-II AT 220kV PPK-I	DMRC	17.05.13	Cable damaged due to fire. civil work for nala crossing in progress. expected by end of June '2015.
20.	220kV MAHARANI BAGH - TRAUMA CENTRE CKT.-I	DTL	19.12.14	Cable damaged by DMRC. Expected by June, 2015
21.	220kV MAHARANI BAGH - ELECTRIC LANE CKT.-II	DTL	17.04.15	Cable faulty during digging by MTNL. Expected by mid July, 2015
22.	400kV BAMNAULI - JHATIKARA CKT.-I	DTL	27.05.15	Joint Box burnt. Expected by the end of July, 2015
23.	33kV PASCHIM PURI CKT.-I AT 220kV PEERAGARHI	DTL	27.05.15	Expected by 10.06.15

OCC advised BRPL, BYPL, DMRC and DTL to expedite the work.

(Action by BRPL, BYPL, DMRC and DTL)

2.4 Shifting of Control Room at 220kV Indra Prastha Substation.

The control room of 220 and 33kV switchyard at Indra Prastha substation was to be shifted from the old building of IP Power Station after its closure. During the OCC meeting held on dt. 20.10.14, GM (O&M)-II, DTL informed that a committee had been formulated regarding setting up of Control Room at I.P. Substation. DISCOMs requested that the construction and strengthening of boundary wall at I.P. Substation should be considered on priority to avoid theft to some extent and safety of assets and maintaining continuity of supply.

During OCC meeting dt. 13.01.15, DTL informed that the estimate for the same has been prepared and is under process of approval. Setting up of control room is expected by the end of December 2015. DTL also informed that the height of boundary wall shall be raised by the end of December, 2015 as the tender is being floated for both works of shifting of control room and rising of the height of boundary wall.

DTL informed that the work is expected to be completed by the end of December, 2015.

(Action by DTL)

2.5 Leakage from 33kV feeder at 220kV Trauma Centre S/S.

DTL informed that there has been a leakage of SF₆ gas from 33kV out-going feeder i.e. Rajeev Gandhi Bhawan at 220KV S/Stn Trauma Centre and is out of service from past eight months. As per the OEM i.e. Schneider Electric (Formerly Areva), the leakage was mainly due to the improper termination/connecting of 33KV cable in GIS. DTL informed that the terminations of feeder cable are made by NDMC and due to improper workmanship the leakage from the panel took place. NDMC informed that the feeder was in service for a considerable time and the SF₆ gas leakage is not attributable to them.

During meeting dtd. 24.03.15, OCC advised DTL and NDMC to have joint inspection on 6th April, 2015 at 11:00 A.M. at 220kV Trauma Center Substation for discussing above issue beside other issues like lighting, sewer problem etc. at substations.

DTL informed that the joint inspection along with has been carried out and DTL agreed for carrying out the repair work. DTL also informed that the issue is being taken up with OEM i.e. Schneider.

(Action by DTL)

2.6 Phasing out of 66/33kV, 30MVA Power Transformer at 220kV Narela Substation.

DTL informed that the said transformer is currently being utilized for feeding only 01 No. 33KV Circuit i.e. Khampur of TPDDL since 2010. 2nd feeder namely Haiderpur is under B/D since long time. Due to shortage of space in 66KV yard, the transformer is on single bus selection and the same needs to be switched 'OFF' during bus maintenance activities. Further, the transformer is placed adjacent to 20MVAR capacitor bank and thereby always remains in risk of fire during failure of any capacitor unit / cell.

In addition the 33KV yard construction is of vertical pole mounted type with single bus and maintenance works are thus quite difficult to carry out. The necessary clearances of 33KV yard have also not been maintained, as the construction is just touching the Control Room building. The transformer has already lived its useful life period of 25 years successfully as per DERC guidelines and is now under *outlived* condition.

In view of all above, DTL's proposal for phasing out of 30MVA, 66/33KV power transformer along with 33KV yard equipments has been initiated in the year 2010. The case has been examined / approved by the Planning Deptt. and put up in OCC accordingly. OCC recommended for consideration of the matter in Streeing Committee, in which approval has also been provided for shifting of 33KV load from Narela end by TPDDL.

The subjected transformer has developing acetylene gas during DGA testing, the concentration of which is increasing day by day which indicates some internal high temperature fault. The overhauling / internal inspection of transformer at this stage is not economically feasible (being outlived) and the same may be required to be taken out of service at any time.

Accordingly, DTL proposed for phasing out of 30MVA, 66/33KV power transformer along with 33KV yard equipments at 220KV S/Stn. Narela on priority basis, by directing TPDDL for immediate shifting of 33KV load from Narela end.

TPDDL informed that there is alternative feed for khampur is available; however the same is not reliable.

OCC advised DTL to carry out internal inspection and dehydration of the transformer and outage for the same shall be provided by TPDDL.

(Action by DTL, TPDDL)

2.7 Augmentation of 1 no. 400/220kV 500MVA ICT at 400kV Bannauli Substation in the place of existing 315MVA ICT

DTL informed that existing 315MVA ICT-II at 400kV Substation is being replaced with 500MVA ICT to increase the substation capacity at 400kV Bannauli Substation. Accordingly, the Shutdown of the said 315MVA ICT is being planned from 11.06.15 to 16.06.15 and work shall be started subject to the approval of Shutdown by NRPC.

The shutdown has been deliberated and BRPL informed that the shutdown may be availed by DTL subject to availability of 220kV Maharaniabagh-Trauma Center Ckt-I and completion of LILO of 220kV Kanjhawla-Najafgarh Ckt at Mundka. BRPL further informed that no load shedding is possible during the said shutdown.

(Action by DTL)

2.8 Strengthening of Earthing of 66kV Cables emanating from 220kV PPK-II substation.

DTL informed that at 220kV Sub Station PPK-II, 66kV Out going cables are with BRPL and the earthing of these cables are very degraded position. Due to this, at the time of any fault in 11kV System of BSES, 66kV Yard equipments at PPK-II substation are being affected.

Recently on dt.23.05.2015, 66kV Dwarka G-15 Ckt.-I tripped with heavy jerk (tripping might be due to weak earthing) because of which, 66kV Line Isolator (B phase) at 220kV PPK-II yard got damaged.

DTL also informed that the issue has been taken up with M/s BRPL, but till date no action has been taken or information provided by BRPL. Accordingly, DTL requested OCC to advise BRPL to take necessary action.

BRPL informed that they shall look into the issue and attend the same with in a week.

(Action by BRPL)

3.0 Agenda points of TPDDL

3.1 To replace 11kV Faulty Panel at 220kV Kanjhawla

TPDDL informed that 11kV JJ Colony Feeder -2 has been proposed from 220kV Kanjhawla. 11kV Feeder was laid and connected as per scheme. But it was on no load for long time due to 11kV VCB problem at grid. For summer 2015, to mitigate overloading of 11kV Feeder ABC Kanjhawla (from 220kV Kanjhawla), TPDDL need to take load on that Panel of 220kV Kanjhawla. TPDDL also inform that no additional load will be added at Grid as it is to reduce load of 11kV ABC Kanjhawla which is also emanating from 220kV Kanjhawla. Accordingly, TPDDL requested to provide VCB as early as possible in order to maintain reliability in zonal area and to avoid unnecessary overloading.

TPDDL informed that spare VCB of BHEL is available which needs to be repaired. After repairing, the same shall be provided to DTL within one week.

(Action by TPDDL, DTL)

4.0 Proposed Shutdowns

4.1 Proposed shutdown by DTL's Protection department.

OCC approved the following shutdowns proposed by DTL Protection department for retrofitting of Numerical Relays at various substations of DTL:

S. No.	Proposed Date & time of S/D	Name of the feeder / equipment	Work to be carried out	Approved Date & time of S/D
1	05.06.15 (06:00Hrs to 09:30Hrs)	220kV Bamnauli-Pappankalan-II Ckt-II	Retrofitting of Numerical Relays	Already availed
2	06.06.15 (06:00Hrs to 09:30Hrs)	220kV Najafgarh-Kanjhawla Ckt.-I		Already availed
3	07.06.15 (06:00Hrs to 09:30Hrs)	220kV Najafgarh-Kanjhawla Ckt.-II		Already availed
4	08.06.15 (06:00Hrs to 09:30Hrs)	220kV Bawana-Kanjhawla Ckt.-I		Already availed
5	09.06.15 (06:00Hrs to 09:30Hrs)	220kV Bawana-Kanjhawla Ckt.-II		09.06.15 (06:00Hrs to 09:30Hrs)
6	10.06.15 (06:00Hrs to 09:30Hrs)	220kV Bamnauli-Najafgarh Ckt-I		10.06.15 (06:00Hrs to 09:30Hrs)
7	11.06.15 (06:00Hrs to 09:30Hrs)	220kV Bamnauli-Najafgarh Ckt-II		11.06.15 (06:00Hrs to 09:30Hrs)
8	14.06.15 (06:00Hrs to 09:30Hrs)	220kV Bamnauli-DIAL Ckt-I		14.06.15 (06:00Hrs to 09:30Hrs)

(Action by DTL)

5.0 Additional agenda points with the permission of the Chair.

5.1 Proposed shutdown at 220kV Rohini-II.

OCC approved the following shutdowns proposed by DTL at 220kV Rohini-II S/S:





S. No.	Proposed Date & time of S/D	Name of the feeder / equipment	Work to be carried out	Remarks	Approved Date & time of S/D
1	16.06.15 (6:00Hrs to 12:00Hrs)	220/66kV 160MVA Tx-I & 66kV Incomer-I	For gen. mtc. Of transformer and interchanging the 66kV CT of Incomer-I with 66kV CT of spare bay	Load will not be affected	16.06.15 (6:00Hrs to 12:00Hrs)
2	16.06.15 (12:00Hrs to 16:30Hrs)	220/66kV 160MVA Tx-II & 66kV Incomer-II	For gen. mtc. Of transformer and interchanging the 66kV CT of Incomer-II with 66kV CT of spare bay		16.06.15 (12:00Hrs to 16:30Hrs)

(Action by DTL)

6.0 Meeting ended with vote of thanks to the Chair.

Attendance sheet of OCC Meeting held on dt. 08.06.15 at 03:00 P.M. in the Conference Room, 1st Floor, SLDC Building, Minto Road, New Delhi

S.No.	Name (Sh.)	Designation	Company	Mobile No.	e-mail Id.	Sign.
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