

DELHI TRANSCO LIMITED
(Regd. Office: Shakti Sadan, Kotla Road, New Delhi-110002)
Office of Dy. Gen. Mgr. (OS & Lines)
220KV S/Stn. Bldg. Naraina, New Delhi-110010
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AGENDA OF THE OCC MEETING DT. 07.07.2015

Date : **07.07.2015 (Tuesday)**
Time : **11:00 AM**
Venue : **Conference Room, SLDC Building, Minto Road.**

1.0 Confirmation of minutes of OCC meeting dtd. 08.06.2015

Last OCC meeting was held on 08.06.15 in accordance with the agenda circulated vide letter dt.05.06.15. Minutes of the aforesaid OCC meeting were issued vide letter dated 12.06.2015.

Members may like to confirm 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 was submitted by CPRI and for its implementation; a copy of report had been emailed to all DISCOMs and GENCOs.

SLDC convened a meeting with DISCOMs on dt. 18.02.15 to discuss on the Reactive Power Study report submitted by CPRI. Comments from BRPL and BYPL have been received.

During OCC meeting dt. 08.06.15, OCC advised TPDDL and NDMC to submit their comments to DTL Planning at the earliest, along with a copy to Delhi SLDC.

TPDDL and NDMC to update the status.

2.2 Status of Hot Reserve of transformers at all levels.

DTL to update 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

3.	220/33kV, 100MVA Tx,	36	Substation.
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2.3 Long/Recent outage of Elements in Delhi power system as on 03.07.2015 at 08:00 Hrs.

Members to update 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 03.07.2015
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 Kilokri – Jamia CKT. ('R' & 'B' Ph. Cable)	BRPL	15.03.14	Expected by 18.06.15
4.	33kV RIDGE VALLEY - KHEBAR LINE CKT.-I	BRPL	08.02.15	Y-PH. CABLE AND BREAKER FAULTY (SINGLE CABLE)
5.	66kV V.KUNJ - PALAM CKT.	BRPL	13.06.15	Y-PH. SPARE CABLE FAULTY
6.	33kV OKHLA (220kV)-ALAKHNANDA CKT.-I	BRPL	29.06.15	'R' AND 'B'PHASE SINGLE CABLE FAULTY
7.	66kV G-5 MATIALA - DELHI JAL BOARD CKT.-II	BRPL	12.06.15	Y-PH. CABLE FAULTY
8.	66kV PPG INDL. AREA - KHICHRIPUR CKT.-II	BYPL	03.05.15	R phase Cable faulty. Expected by 08.08.15
9.	66kV GH-II - GH-I CKT-I	BYPL	17.06.15	CABLE FAULTY
10.	66kV WAZIRABAD - GONDA CKT.-I	BYPL	29.06.15	CABLE FAULTY
11.	33kV VIDYUT BHAWAN - SCHOOL LANE CKT.	NDMC	14.05.15	Y-PH. FAULTY
12.	66kV GT- VIDYUT BHAWAN CKT.-II	NDMC	18.06.15	CABLE FAULTY
13.	33kV GT-SCHOOL LANE CKT.-I	NDMC	02.07.15	R-PH. FAULTY
14.	220kV MAHARANI BAGH - ELECTRIC LANE CKT.-II	DTL	17.04.15	Cable faulty during digging by MTNL. Expected by mid July, 2015
15.	400kV BAMNAULI - JHATIKARA CKT.-I	DTL	27.05.15	Joint Box burnt. Expected by the end of July, 2015

2.4 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.

During the meeting dt. 08.06.15, OCC advised DTL to carry out internal inspection and dehydration of the transformer and outage for the same shall be provided by TPDDL.

DTL and TPDDL to update the status.

2.5 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.

During the OCC meeting dt. 08.06.15, BRPL informed that they shall look into the issue and attend the same within a week.

BRPL to update.

2.6 Back feed & RMU provision for 11 kV feeders by TPDDL at 220 kV Substation Kanjhawala

220 kV Substation Kanjhawla has 9 Nos. of 11 kV feeders feeding to TPDDL. Out of these 9 feeders, 04 No. feeders i.e Ghewara, SOS Bawana, JJ cluster, ABC Kanjhawala does not have back feed by any other TPDDL grid. These feeders feed to the area nearby Kanjhawala S/Stn and outage of these lines for any reason result in gathering of miscreants /local public at the substation demanding for total black out.

Further, several areas of TPDDL are fed without RMU through auto reclose system i.e directly from DTL which results in numerous tripping at Kanjhawala sub-station. One such feeder is 11kV Ghewara.

In this regard, DTL requested TPDDL to make arrangement in line with DERC guidelines for back-feeding of the said 4 feeders to avoid any unwanted situation and to safeguard DTL system for any fault at TPDDL end

DTL and TPDDL to deliberate.

3.1 Issue of supply restoration on 66 KV O/G feeders from Harsh Vihar grid

BYPL have 4 nos. 66 KV feeders from 400/220/66 KV Harsh Vihar grid station. In case of tripping of any of the feeders, the restoration process is very difficult and complex. There is no arrangement for PT isolation at Harsh Vihar end, hence high voltage testing of feeders is not possible. The only way is to call the OEM and get the cable ends isolated from the GIS panels and test thereafter. This involves lot of efforts, time and cost. In summer months when there will be no/little margin available on alternate sources, this unwanted delay may lead to large scale load shedding in parts of east Delhi.

BYPL informed that they have already written couple of times to DTL with the request to address this issue on priority, but we are still waiting for a response from DTL. Therefore, it is requested to make suitable arrangement to test the feeders at DTL end to avoid any unwanted delay in restoration of feeder and thereby any load shedding in the area.

During the OCC meeting dt. 11.05.15, OCC advised BYPL and DTL to have joint inspection at the substation for looking into the feasibility of testing.

The following members from DTL have been nominated for the said inspection:

1. Hitesh Kumar, Manager (T)-Protection
2. Mukesh Rana, Manager(T)-400kV Harsh Vihar

66kV/33kV Cable testing procedure for FLC and energizing shall be conveyed to BYPL. From BYPL, officers from Protection department and Maintenance department have been nominated for the said inspection.

DTL and BYPL to update the status.

4.0 Proposed Shutdowns

4.1 Proposed shutdown at 220kV Kashmere Gate.

DTL proposed the following shutdown at 220kV Kashmere Gate S/S:

S. No.	Proposed Date & time of S/D	Name of the feeder / equipment	Work to be carried out
1	03.07.15 (07:00Hrs. to 10:00Hrs.)	33kV Civil Line Ckt-II	Drying of SF ₆ gas in feeder compartment of 33kV Civil Line II Feeder bay by GIS Expert team as ppmw of SF ₆ gas is high

4.2 Proposed shutdown at 220kV Pappankalan-I.

DTL proposed the following shutdown at 220kV Pappankalan-I S/S:

S. No.	Proposed Date & time of S/D	Name of the feeder / equipment	Work to be carried out
1	03.07.15 (06:30Hrs. to 09:30Hrs.)	66kV Bus Coupler along with Bus-I	To attend hot points on Y-phase isolator Bus-I side
2	04.07.15 (06:30Hrs. to 09:30Hrs.)	66kV Rewari Line	To replace Spring Charge Motor and Gen. Mtc.

4.3 Proposed shutdown at 220kV Gopalpur.

DTL proposed the following shutdown at 220kV Gopalpur S/S:

S. No.	Proposed Date & time of S/D	Name of the feeder / equipment	Work to be carried out	Remarks
1	06.07.2015(06 AM to 11AM)	33kV Indira Vihar ckt.-I	For attending hotpoints at B phase jackbus Dropdown conductor & line isolator alignment	The load may please be transfer at 33kV Indira Vihar ckt.-II

2	10.07.2015(06 AM to 11AM)	33kV DIFR ckt.	For attending hotpoint at Y phase line isolator clamp CT side.	The load may please be transfer at 33kV Civil Line ckt.
3	15.07.2015(06 AM to 10AM)	33kV Wazirabad ckt.-II	For attending hotpoint at 33kV Y phase CT clamp towards line isolator.	The load may please be transfer at 33kV Wazirabad ckt.-I
4	19.07.2015(06 AM to 11AM)	33kV Indira Vihar ckt.-II	For doing line isolator alignment	The load may please be transfer 33kV Indira vihar ckt.-I
5	24.07.2015(06 AM to 9AM)	33kV Civil Line Ckt.	For doing general maintenance work	The load may please be transfer at 33kV DIFR ckt.
6	26.07.2015(06 AM to 11AM)	33kV Wazirabad ckt.-I	For line isolator alignment and general maintenance work.	The load may please be shifted t 33kV Wazirabad ckt.-II.

4.4 Proposed shutdown at 220kV Okhla.

DTL proposed the following shutdown at 220kV Okhla S/S:

S. No.	Proposed Date & time of S/D	Name of the feeder / equipment	Work to be carried out	Remarks
1	11.07.2015 (08:00Hrs to 17:00Hrs.)	100 MVA, 220/66/11 KV Power Transformer No. I along with I/c No-I	Replacement of 220 KV Bushing of B- Phase (Having high Tan delta)	Load to be taken on 220/66/11 KV Power Transformer No. II. Excess load if any, to be managed by BRPL.
2	12.07.2015 (08:00Hrs to 12:30Hrs.)	33 KV East of Kailash along with 33 KV Bus-II and 33 KV I/c-III & IV	Earthing of Bus & line isolator	Load, to be managed by BRPL.
3	12.07.2015 (13:00Hrs to 17:30Hrs.)	33 KV Alaknanda Ckt-I along with 33 KV Bus-II and 33 KV I/c-III & IV	Earthing of Bus & line isolator	Load will be taken on Alaknanda Ckt-II Excess load, if any, to be managed by BRPL.
4	13.07.2015 (09:30Hrs to 17:30Hrs.)	100 MVA, 220/33/11 KV Power Transformer No. V and 33 KV I/c-V	Work to be done by OEM, i.e. M/s CGL for replacement of PRV stud, Seal in relay of SPR, Mounting of PRV support pipes and Remote TPI.	Load to be taken on 220/33/11 KV Power Transformer No. III and IV.
5	13.07.2015 (09:30Hrs to 14:00Hrs.)	33 KV Alaknanda Ckt-II along with 33 KV Bus-I and 33 KV I/c-V	Earthing of Bus & line isolator	Load will be taken on Alaknanda Ckt-I Excess load, if any, to be managed by BRPL.
6	14.07.2015 (09:30Hrs to 14:00Hrs.)	33 KV Okhla Ph-II Ckt-I	Earthing of Bus & line isolator	Load will be taken on Okhla Ph-II, Ckt-II. Excess load, if any, to be managed by BRPL.
7	15.07.2015 (09:30Hrs to 14:00Hrs.)	33 KV Okhla Ph-II Ckt-II	Earthing of Bus & line isolator	Load will be taken on Okhla Ph-II, Ckt-I. Excess load, if any, to be managed by BRPL.
8	16.07.2015 (09:30Hrs to 14:00Hrs.)	33 KV Balaji Ckt-II	Earthing of Bus & line isolator	Load will be taken on 33 KV Balaji Ckt-I. Excess load, if any, to be managed by BRPL.
9	17.07.2015 (09:30Hrs to 14:00Hrs.)	33 KV i/c-III along with 100 MVA, 220/33/11 KV Power Transformer No.III	Earthing of Bus & line isolator	Load to be taken on 220/33/11 KV Power Transformer No. IV and V.
10	18.07.2015 (09:30Hrs to 14:00Hrs.)	33 KV i/c-IV along with 100 MVA, 220/33/11 KV Power Transformer No.IV	Earthing of Bus & line isolator	Load to be taken on 220/33/11 KV Power Transformer No. III and V.

11	20.07.2015 (09:30Hrs to 14:00Hrs.)	33 KV i/c-V along with 100 MVA, 220/33/11 KV Power Transformer No.V	Earthing of Bus & line isolator	Load to be taken on 220/33/11 KV Power Transformer No. III and IV.
12	21.07.2015 (09:30Hrs to 14:00Hrs.)	33 KV Tughlakabad	Earthing of Bus & line isolator	Load to be managed by BRPL.
13	22.07.2015 (09:30Hrs to 14:00Hrs.)	33 KV Capacitor Bank	Earthing of Bus & line isolator	

4.5 Proposed shutdown at 400kV Bamnauli Substation.

DTL proposed the following shutdown at 400kV Bamnauli S/S:

S. No.	Proposed Date & time of S/D	Name of the feeder / equipment	Work to be carried out
1	28.07.15(06:00hrs to 11:00hrs)	220 KV DIAL-Ckt-1	CT & CVT Tan delta testing and general maintenance work.
2	29.07.15(06:00hrs to 11:00hrs)	220 KV DIAL-Ckt-2	
3	30.07.15(06:00hrs to 11:00hrs)	220 KV PPK1 CKT2	

4.6 Proposed shutdown at 400kV Tikri Kalan Substation.

DTL proposed the following shutdown at 400kV Tikri Kalan S/S:

S. No.	Proposed Date & time of S/D	Name of the feeder / equipment	Work to be carried out
1	10.07.15(8:00Hrs. to 12:00Hrs.)	160MVA Tr. No.3 (Bay no. 213, along with 66kV I/c-3)	For preventive mtc work
2	09.07.15 (9:30Hrs. to 12:00Hrs.)	220kV Bus Section 210A & 210B	For rectification of faulty configuration with M/s Schneider Engineer
3	09.07.15(13:30Hrs. to 17:30Hrs.)	66kV Bus Section 615A & 615B	

5.0 Any additional agenda points with the permission of the Chair.