

	DELHI TRANSCO LIMITED (A Govt. of NCT of Delhi Undertaking) An ISO 9001:2008 certified company Office of DGM(T) OS, Convener-OCC 1st Floor, Shakti Sadan, Kotla Road, New Delhi-110002 Web:-www.dtl.gov.in, E-mail :- dgm.os@dtl.gov.in, Phone No.- (011)-23238882
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No. F.DTL/831/F.4/2017-18/DGM (OS)/23

Date:-07.06.2017

To,
All Members of Operation Co-ordination committee

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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 :- MOM of OCC Meeting held on 26.05.2017 at SLDC Minto Road.

Dear sir/madam,

The OCC meeting was held on **26.05.2017 at SLDC Building, Minto Road, Opp. MCD Civic Centre, New Delhi-110002.**

The minutes of meeting are enclosed herewith for your kind perusal and further necessary action please. The same has also been uploaded on DTL website, www.dtl.gov.in under the Tab "News and Information – OCC Meeting".

Thanking You.

Enclosure: MOM of OCC meeting.

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

Copy for favour of kind information to:

1. Member Secretary, NRPC, 18-A, SJS Marg, Katwaria Sarai, New Delhi-110016.
2. Secretary, DERC, Viniyamak Bhawan, C-Block, Shivalik, New Delhi-17.
3. Chairperson & Managing Director, DTL.
4. Chairperson, New Delhi Municipal Council, Palika Kendra, Sansad Marg, New Delhi.
5. Chairperson & Managing Director, Indraprastha Power Generation Company Ltd (Genco)/Pragati Power Corporation Ltd (PPCL), Himadri, Rajghat Power House, New Delhi-110002.
6. Director (Operations), DTL
7. Director (Finance), DTL
8. Executive Director (Planning), DTL
9. General Manager, NRLDC, SJS Marg, Katwaria Sarai, New Delhi-16
10. CEO, BSES Rajdhani Power Ltd, BSES Bhawan, Nehru Place, New Delhi-110019.
11. CEO, BSES Yamuna Power Ltd, Shakti Kiran Building, Karkardooma, New Delhi-110092.
12. CEO, North Delhi Power Ltd, 33kV Grid S/Stn, Hudson Lane, Kingsway Camp, Delhi-110009.
13. CWE (Utilities), MES, Kotwali Road, Near Gopi Nath Bazar, Delhi Cantt. New Delhi-110010.
14. General Manager, Badarpur Thermal Power Station, Badarpur, New Delhi-44.
15. General Manager (Project)-I, DTL
16. General Manager (Project)-II, DTL

**DGM(OS),DTL
Convener-OCC**

DELHI TRANSCO LIMITED

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

MOM OF OCC MEETING DT. 26.05.2017

GM (O&M)-I, DTL, Chairman-OCC welcomed the members of OCC. List of participants are enclosed herewith as Annexure-1.

The meeting was started with the presentation on review of grid operation for April 2017. It was informed that peak demand of 5685 MW for April-2017 was met on 21.04.2017 at 15:46:26 hrs. Discom wise load as well as generation within Delhi during the peak and load curve for all the Discoms during the April month was depicted. Planning of Grid operation for June 2017 was also discussed, wherein it was explained that the anticipated peak demand for June 2017 would be around 6500 MW.

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

1. Confirmation of minutes of OCC meeting dated 27.04.2017 & 28.04.2017.

The OCC meeting for the month of April 2017 was held on 27.04.2017 & 28.04.2017. Minutes of the aforesaid OCC meeting were issued vide letter dt. 02.05.17. No comments were received regarding the contents of MOM. **As such the minutes of meeting of OCC held on 27.04.2017 & 28.04.2017 were confirmed.**

2. DTL Agenda :

2.1 Implementation of Special Protection Scheme

The matter has been deliberated in the previous OCC meetings, wherein it was decided that to meet the expected Summer demand of 6600 MW and to avoid cascading outage of any transmission element, Special Protection Schemes be devised to obviate complete blackout of sub-stations in case of outage of any of the system elements during peak time, where severe constraints are in existence. Crucial transmission system including 220 kV transmission lines and 220/66 kV & 220/33 kV Transformers have been identified 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 220 kV transmission Lines consisting of Zebra Conductors reaches to 700 Amp. It was decided that scheme to be worked out so that the tripping command of 66 kV, 33 kV feeders and 11 kV 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 have 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	220 kV Bamnauli-Papankalan-I ckt-I & ckt-II	66 kV BindapurCkt-I & II 66 kV BudhelaCkt-I & II

2	220 kV Bamnauli-Papankalan-II ckt-I & ckt-II	66 kV Matiala-I & II
3	220 kV Bawana-Rohini-I ckt-I & ckt-II	66 kV RG-24 Ckt.-I & II 66 kV DC-I & II
4	220 kV Ballabgarh-BTPS –I & II	The committee decided that during the exigency at Ballabgarh-BTPS –I & –II, the 66 kV Malaviya Nagar-III, 33 kV Tughlakabad and 20 MVA Tr.-1 & 2 shall be switched off from 220 kV Okhla grid.
5	220 kV Mandola-Gopalpur Ckt –I & II	33 kV Model Town-I & II 33 kV Indira Vihar-I & II
6	220 kV BTPS-Mehrauli-I & II	Scheme is already commissioned. Tripping of 66 kV Malviya Nagar –I & II and 66 kV C Dot-I & II for reliability of DIAL supply and to avoid isolation of BTPS from Bamnauli when the system is interconnected.
7	220 kV Mundka-Peeragarhi-I & II	Manual load management
8	220 kV Mundka-Najafgarh	2 nos Local Transformers, 66 kV Nangloi, 66 kV Jafarpur
9	220 kV BTPS-Okhla-I & II	The committee has decided that during the exigency at Ballabgarh-BTPS ckt. I & II, The 66 kV Malaviya Nagar-III, 66 kV Okhla phase-1 ckt.-1 & 2 & 33 kV Tughlakabad shall be switched off from 220 kV Okhla grid.
11	220 kV Pragati-Park street-I & II	Manual load management
12	220 kV Mandaula-SOW-I,II,III and IV running parallel	66 kV Shastri Park at SOW and all 33 kV feeders at Geeta colony.
13	220 kV Ridge valley- Naraina	Scheme is already commissioned. Tripping of 33 kV Inderpuri –I and II in Stage -1 and 220 kV 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) 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 4Cx2.5sq. mm Control Cable from 220 kV Feeder Relay panel to the respective 66/33 kV 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.

During the last OCC meeting, It was emphasized that in the interest of grid security, implementation of SPS be done on top priority basis. Accordingly, O&M deptt. should expedite the work of laying and termination of 4Cx2.5 sq. mm Control Cables from 220 kV Feeder Relay panel to the respective 66/33 kV panel including wiring inside the panel in consultation with the Protection Deptt for timely implementation of scheme.

It was informed by DTL that the Special Protection Scheme (SPS) has been implemented for all the above 220 kV feeders except 220kV BTPS-Okhla ckt.-I & II which is expected to be completed by the end of May month.

2.2 Tripping of 220 kV Bamnauli-Pappankalan II Ckt.-1 & 2 from Bamnauli end on dt.-20.05.2017 at 23:53 hrs. and 23:57 hrs. respectively.

On dt.-20.05.2017, 220 kV Bamnauli-Pappankalan II Ckt-1& 2 got tripped at 23:53 hrs and 23:57 hrs respectively at Bamnauli end on backup protection and the supply at PPK-II got failed due to radial feed from Bamnauli grid. Later on it was came to notice that the fault was at BRPL 66 kV Hastal grid at the 11 kV end. The fault of 11 kV level should have been cleared at 11 kV or 66 kV level at the BRPL station, but it was not cleared leading to fire. In this particular case at the time of fault at BRPL end the current of 66 kV Hastal feeders was less than 800 Amp so the 66 kV feeder was not supposed to trip. Whereas the current of 220 kV feeder as noted from disturbance record of Bamnauli end was 1000 Amp and the feeder has rightly tripped on over current setting resulting supply at PPK-II got failed due to radial feed from Bamnauli grid.

BRPL should provide the following details before the OCC for deliberation of the above incident-

- A. Single line diagram of the 66 kV Hastal Grid substation.
- B. System configuration at the time of incident
- C. Connectivity of the BRPL Power network.
- D. Incident report by BRPL alongwith DR and SOE.
- E. Tripping analysis report by BRPL
- F. Details of the SCADA Connectivity along with DATA acquisition configuration of 66 kV Hastal to BRPL System Control Room (Balaji) for monitoring of the unmanned substation.
- G. Immediate Remedial measure to avoid such type of incident.

It was informed by BRPL that there was a line fault in 11kV feeder which led to fire in 11kV panel board due to which the DC supply got failed. However, a committee has been formed by BRPL for detailed analysis of the breakdown/fire. OCC requested BRPL to update the breakdown analysis by their committee in the next OCC meeting with all the desired details. BRPL agreed for the same. The matter was referred to protection sub committee for detailed analysis of the breakdown and suggesting the remedial measures to avoid the reoccurrence of such events.

2.3 Installation of Line differential relays in 66kV/33 kV O/G feeders from DTL.

As decided in the 6th Delhi GCC Meeting DISCOMs are supposed to provide Line differential relay for faster and selective fault clearance. The matter was also discussed in the last protection sub committee meeting, in which the need was felt to install Line Differential Relays in 66 kV/33 kV O/G feeders from DTL. As per present scenario many of the DISCOM feeders emanating from DTL S/Stns are not being provided with Line differential relay which also require the fibre connectivity to be provided by DISCOM along with cable between DTL S/Stns to DISCOMs S/Stns along with the new commissioned feeders.

It was deliberated that the discoms will submit the action plan for installation of line differential relays in the feeders emanating from DTL as well as in the feeders of their own network in the next OCC meeting.

2.4 Disturbance in Delhi power supply on 21st May 2017 following rain and thunderstorm.

The power supply in Delhi got disturbed on 21st May 2017 following rain and thunderstorm due to various trippings. Discoms are requested to provide the list of manual load sheddings if any.

It was deliberated that for safety point of view some 11 kV feeders are switched off manually by the discoms. The details of manual load shedding during the rain and thunderstorm will be provided by the discoms in the next OCC meeting.

2.5 Alternative source for 11 kV O/G feeders from 220 kV S/Stn sarita Vihar.

There are two nos 20 MVA Pr. Tx. available at 220 kV S/Stn sarita Vihar for catering the load of the following 09 nos 11 kV feeders at 220 kV S/Stn sarita Vihar:-

Sl. No.	Name of Feeder	Feeding Areas	Status of Alternative source
1.	11 kV Aali Village	Aali village	Nil
2.	11 kV Sourav Vihar No.-I	Various blocks of Sourav vihar, Hari nagar, Mithapur etc.	Nil
3.	11 kV Sourav Vihar No.-II	Various blocks of Sourav vihar,	Nil
4.	11 kV Jaitpur	Jaitpur , Gaddha colony	Nil
5.	11 kV S/Stn No-21 Sarita Vihar	Sarita vihar, Madanpur khaddar,	Nil
6.	11 kV S/Stn No-22 Sarita Vihar	Madanpur khaddar,	Nil
7.	11 kV Sewage pump	Sewage pump	Nil
8.	11 kV IOC	Mohan co-operative areas	Nil
9.	11 kV American Express	Mohan co-operative areas	Nil

Recently a shut-down was availed on 20 MVA PTR No-I w.e.f. 18.05.2017 to 21.05.2017 at 220 kV S/Stn Sarita Vihar after taking the consent from BRPL for maintenance of Tx. However, due to non availability of alternative source of above feeders from BRPL , the load shedding was carried out during the night hours. The 11 kV load exceeded from the capacity of 01 no Tx i.e. (1200 to 1300 Amp). BRPL may submit the action plan to avoid load shedding in the event of outage of any 20 MVA transformer at Sarita Vihar in future.

It was informed by BRPL that their 66/11 kV Sub-stn at Meethapur will be commissioned by 15th june 2017 and after that these 11 kV feeders will get back feed arrangement.

2.6 Storage of scrap material by BRPL Najafgarh at the common road at 220 kV 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.

It was informed by BRPL that some transformers have been removed from the site and the rest will be removed by 20th june. OCC advised BRPL for expediting the same. DTL should follow up with BRPL.

3. Proposed Planned Shutdowns

3.1 Proposed shutdowns of O&M, DTL

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

After deliberation the proposed shutdowns were approved except some shutdowns which were deferred till Sep-2017 due to ongoing summer season and peak demand. Those shutdowns be again re-planned and sent to OS deptt. in the month of Aug-2017. The duly approved shutdown list is enclosed as annexure.

3.2 Shutdown request of Power Grid for replacement of HTLS conductor of 220 kV SOW-Geeta Colony D/C line and 220 kV SaritaVihar-Pragati line.

M/s PGCIL have requested for shutdowns of following 220kV lines for HTLS conductor replacement:-

S.No.	Name of transmission line	Ckt.	Dates
1.	220 kV Geeta Colony-Wazirabad T/L	Ckt.-1	25 th May to 09 th June 2017
2.	220 kV Geeta Colony-Wazirabad T/L	Ckt.-2	14 th June to 02 nd Aug 2017
3.	220 kV SaritaVihar-Pragati	Ckt.-2	05 th Aug to 27 th Aug 2017

It was informed by SLDC that they have inquired from PGCIL about the reason of reconductoring. PGCIL have informed that during the reconductoring of 220 kV Pragati – Sarita Vihar Ckt. –II the core of the HTLS conductor got broken due to which delay in reconductoring occurred. It was also informed that the conductor of the same drum was utilized in 220 kV Geeta Colony – Wazirabad Section. Since the core of the conductor was broken as such the quality of the HTLS used in reconductoring work has come under question. As such PGCIL has pressed the contractor to change the entire section of the above mentioned ckts where the conductors of the same drum were used. The shutdowns of above mentioned line is required for change of the existing conductors thus used.

After deliberation the proposed shutdowns were deferred till Sep-2017 in view of ongoing summer season and peak demand.

Further, It was emphasized that PGCIL will submit all the relevant details like span, phase, length of conductor, tower no., etc. in which the conductor replacement is required alongwith the reason for replacement to GM(O&M)-II, DTL.

SLDC was advised to intimate PGCIL about the decision of OCC.

4. 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.N	Element's Name	Discom/ DTL	Date and Time of outage	Updated Status as on 26.05.2017
1.	33kV BAY -3 (IP – KILOKARI)	BRPL	22.02.2011	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	31.01.2016	R-Ph single cable faulty
3.	33kV IIT-JNU Ckt.	BRPL	27.11.2016	CT problem. To be revived within two months.
4.	66kV VASANT KUNJ INSTL.AREA-RIDGE VALLEY CKT.-I	BRPL	26.03.2017	Under Shutdown.Cable is being re-routed. Expected by 15.06.2017.
5.	33kV OKHLA (220kV) ALAKNANDA CKT-I	BRPL	07.04.2017	SINGLE CABLE FAULTY. EXPECTED WITHIN ONE WEEK.
6.	33kV LODHI ROAD - EXHIBITION GROUND -II	BRPL	04.05.2017	Y-PH. SINGLE CABLE FAULTY EXPECTED BY 10.06.2017
7.	33kV OKHLA (220kV) EAST OF KAILASH CKT	BRPL	15.05.2017	SINGLE CABLE FAULTY. EXPECTED BY 28.05.2017
8.	33kV KILOKRI - O/H SARAI JULIENA CKT	BRPL	20.05.2017	SINGLE CABLE FAULTY. EXPECTED BY 28.05.2017
9.	66kV SAGARPUR - REWARI LINE CKT.	BRPL	30.07.2016	'B' PH. CABLE FAULTY. RE-ROUTING BEING DONE. PERMISSION AWAITED FROM MCD.
10.	66kV BUS COUPLER AT G-15 DWARKA	BRPL	22.11.2016	CT Blast. Expected within one week.
11.	30MVA PR.TR. AT NANGLOI	BRPL	18.03.2017	Problem in Relay. Not required at the Sub-stn and will be utilized as spare.
12.	33kV REWARI LINE - METAL FORGING CKT.	BRPL	20.04.2017	SINGLE CABLE FAULTY. DMRC permission awaited.
13.	66kV HASTAL - GGSH CKT.-I	BRPL	11.05.2017	'B' PH. CABLE FAULTY. Expected by 04.06.2017.
14.	33kV SHASTRI PARK (E) - NIC CKT.-I	BYPL	21.05.2017	'R'PH. CABLE FAULTY ENERGIZED ON 25.05.2017
15.	66kV GONDA - KARAWAL NAGAR CKT.-I	BYPL	23.05.2017	'B'PH. SINGLE CABLE FAULTY ENERGIZED ON 24.05.2017
16.	33kV GONDA - O/H SEELAMPUR CKT.	BYPL	23.05.2017	'Y'PH. SINGLE CABLE FAULTY Expected by 28.05.2017
17.	220kV GAZIPUR - 66kV PPG INDL. AREA CKT.	BYPL	23.05.2017	'B' PH. CABLE FAULTY. ENERGIZED ON 24.05.2017

18.	33KV PANDAV NAGAR - DMS CKT.	TPDDL	03.04.2016	PROBLEM IN RMU. Expected by 25.06.2017.
19.	33kv JAHANGIRPURI-SANJAY GANDHI TR. NGR CKT-I	TPDDL		R-PH CABLE FAULTY Expected by 31.05.2017.
20.	33kv JAHANGIRPURI-AZADPUR CKT.-I	TPDDL	05.04.2017	B-PH SINGLE CABLE FAULTY Expected by 29.05.2017
21.	66kV ROHINI-II(220kV)-ROHINI -34 CKT.-II	TPDDL	26.03.2017	UNDER SHUT DOWN FOR REPLACEMENT OF CONTROL PANEL & RELAY.EXPECTED BY 29.05.2017
22.	33kv SHALIMARBAGH(220kV) - SMB -FC CKT.-II	TPDDL	23.05.2017	SINGLE CABLE FAULTY ENERGIZED ON 24.05.2017
23.	400kV BAMNAULI - JHAKTIKARA CKT.-I	DTL	22.05.2016	Dead end Tower No.-169 along with gantry collapsed at Bamnauli end. Ckt.-II charged on ERS. Order placed. Expected by 30.06.17.
24.	400kV BAWANA - MUNDKA CKT.- I & II	DTL	14.05.2017	LEGS OF TOWER NO.-116 TWISTED DUE TO FIRE BENEATH THE LINE. CKT.-I&II ENERGISED UPTO TOWER NO. 115 FROM BAWANA END. JUMPER OPENED AT TOWER NO. 115. EXPECTED WITHIN THREE MONTHS.
25.	220/33kV 100MVA PR.TR.-II AT 220kV LODHI ROAD	DTL	22.03.2017	TRIPPED ON DIFFERENTIAL, PROTECTION AND BUCHLOZ RELAY.TRANFORMER FAULTY AND TO BE REPLACED. EXPECTED BY 15.07.17.
26.	220/33kV 100MVA PR.TR.-IV AT 220kV OKHLA	DTL	07.04.2017	TRIPPED ON DIFFERENTIAL, HV & LV WINDINGS DAMAGED. EXPECTED BY 30.06.2017.

Additional Agenda by SLDC

1. System Study for Capacitor Requirement in Northern Region for the year 2016-17 and 2017-18.(134 th & 135 th NRPC OCC),(Agenda by SLDC)

A study for Capacitor bank requirement was carried out by CPRI on request of NRPC for 2017-18.

CPRI has submitted the detailed report for capacitor bank requirement in Northern Region for 2017-18.

Recommended Compensation for the Delhi as per Draft report:

S. No	Utility	Existing Capacitor Bank		Newly Recommended Banks (c) (MVAR)	Total (d=a+c) (MVAR)
		Operational (a) (MVAR)	Not in operational (b) (MVAR)		
1	DELHI	0	0	712.56	712.56

The modelling for system study for capacitor bank requirement done at 132kV Voltage level and above.

The above details has also been discussed in 17th GCC Meeting.

The detail report is available on NRPC website:

http://www.nrpc.gov.in/Reports/other/Report-NRPC_Draft.pdf

NRPC is asking comments on the draft report.

It was deliberated that all the discoms and DTL (Planning) department should submit their comments latest by 15th June, 2017.

2. Fifth Amendments in IEGC(Indian Electricity Grid Code) Regulation, 2017 for Technical Minimum Schedule for operation of Central Generating Stations and Inter-State Generating Stations(Agenda by SLDC) .

The Fifth Amendment to IEGC, 2010 dated 12th April 2017 has been recently notified by the Central Electricity Regulatory Commission (CERC) and made available on public domain on 21st April 2017.

Link of the amendment is given below:

<http://www.cercind.gov.in/2017/regulation/130.pdf>

A letter dated 29th April 2017 has also been issued to the Northern Regional constituents for smooth implementation of the amendments (Annexure-I). These amendments have provisions related to the changes in the existing scheduling framework which requires certain changes in the scheduling timelines and data submission. The 5th amendment to the IEGC shall come into force with effect from 01st May 2017.

The salient features of the 5th Amendment were presented by SLDC. The copy of the presentation is attached as Annexure -II.

Members noted the same.

3. Frequency response characteristic (Agenda by SLDC).

Two FRC based event have occurred on 18.05.2017 & 20.05.2017. Description of the events is as given below:

Sr. No.	Event Date	Time (in hrs)	Event Description	Starting Frequency (in Hz)	End Frequency (in Hz)	Δf (in Hz)
1	18.05.17	08.01	On 18-05-17 at 08:01 hrs, four out of six units at Rihand TPS tripped incurring generation loss of around 1850 MW. Remaining two units also tripped at 08:03 hrs incurring further generation loss of around 700MW.	49.993	50.131	- 0.138
2	20.05.17	20.06	On 20.05.17, at 20:06hrs, 765kV Anta-Phagi ckt-2 (tripped at 18:50hrs) was being charged at 20:06hrs, when the 765kV Anta-Phagi ckt-1 tripped resulting in	49.950	50.163	- 0.213

			evacuation constraint. As a result, the running generation at Kawai, Kalisindh, and Chabra tripped incurring a generation loss to the tune of 2150MW in NR.			
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Based on the one-on-one interaction with NRLDC and Delhi Generators held on 19.05.2017, following are the general action points:

1. Healthiness of FGMO/RGMO of generators. If not implemented or out of service/order, the date from when the FGMO/RGMO is out along with the date by which the same be put in operation.
2. Inclusion of action taken for improving the frequency response in FRC event details provided. Further, reason for poor frequency response to be indicated against each control area response.
3. Governor droop setting, post-response ramp back criteria of generators.
4. Governor being put in service when machine running on full load.

The details of FRC computation is enclosed as Annexure-III.

It has been requested by SLDC that Delhi Gencos & BTPS may compute FRC and analyses their governor response as per the relevant regulations/ orders of the CERC. It was also informed by Delhi Gencos that the FRC would be visible only in Gas turbines as the steam turbines driven by heat produced by the GTs would be less / negligible FRC. The issue was highlighted by NTPC also in NRPC OCC Meetings.

SLDC representative informed that the analysis done for only on GTs of Pragati Stn and Bawana Stns.

It was observed that PPS-III Bawana was having good response to FRC. BTPS will study and submit the data to SLDC.

4. Inadequate response from CCGT Bawana while restoration, during the incident on 21.05.2017

On dt. 21.05.2017 at 16.43hrs. multiple trippings occurred at 400kV CCGT Bawana Stn. (PPCL) and 400kV Bawana Stn (DTL).

While restoration of 400kV CCGT Bawana– Bahadurgarh ckt. & CCGT Bawana– Bhiwani ckt., SLDC faced problem because of lack of coordination from CCGT Bawana end.

CCGT Bawana were unable to communicate relevant tripping flags for aforesaid circuits till almost 4 hours after the incident.

OCC emphasized that there should be proper coordination between SLDC and CCGT Bawana for fast operation and restoration of the system.

It was deliberated that CCGT Bawana will look into the matter regarding any lack of coordination and will revert back to SLDC.

The meeting ended with vote of thanks to the Chair.

NOTE:-The MOM of OCC meeting can also be seen on DTL website (www.dtl.gov.in) under the Tab “News and Information – OCC Meeting”.
