



No. F.DTL/2019-20/Mgr.(OS)-II/7

Date:24.05.2019

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 (Plg.)	
SLDC	ED (SLDC) DGM (SO)	
TPDDL	HOD (PSC &AM) Sr. Manager (PSC)	
BRPL	AVP (SO)	
BYPL	AVP (SO)	
NDMC	Superintending Engineer	
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.)	
GMR(DIAL)	GM(DIAL)	Special Invitee
N. Railways	Sr. DEE (TRD)	Special Invitee

Sub: Agenda for 2nd Delhi OCC Meeting(2019-20) to be held on 29.05.2019 (Wednesday) at 2:30 P.M.

Dear sir/madam,

The 2nd Delhi OCC meeting (2019-20) is scheduled to be held on dt.- **29.05.2019 (Wednesday), 2:30 P.M.** in the office of **GM(O&M)-II, Delhi Transco Ltd., 220kV Sub-Stn Park Street, Opp. Talkatora Stadium, Near R.M.L. Hospital, New Delhi-110001**

Agenda enclosed, Members are hereby requested to make it convenient to attend the meeting.

Thanking You.

Yours Sincerely,

sd/-

(Shankar Kumar)
Mgr.(T) OS-II,DTL

DELHI TRANSCO LIMITED

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

AGENDA FOR DELHI OCC MEETING NO. 02/2019-20

Date : 29.05.2019
Time : 2:30 PM
**Venue : O/o-GM(O&M)-II, Delhi Transco Ltd.,
220 kV Sub-Stn Park Street,
Opp. Talkatora Stadium, Near R.M.L. Hospital,
New Delhi-110001**

1. Confirmation of minutes of 1st Delhi OCC meeting (2019-20) held on dated 26.04.2019.

The 1st Delhi OCC meeting (2019-20) was held on 26.04.2019 in accordance with the agenda circulated vide letter dt: 22.04.2019. Minutes of the aforesaid OCC meeting were issued vide letter dt.07.05.2019. The same was also uploaded on DTL website.

Members may like to confirm the same.

2. DTL AGENDA:

2.1 Power evacuation plan for newly commissioned/to be commissioned DTL substations and overloading of Transmission elements during the upcoming summer season.

Discoms were requested to submit the schedule for evacuation plan for upcoming summer season for newly commissioned/to be commissioned grids, i.e. R.K. Puram, Tughlakabad, Pappankalan-III and Preet Vihar for load optimization on DTL network.

The following was updated by respective Discom representatives during last OCC meeting: -

(a) BRPL informed that 66 kV Tuglakabad-Okhla phase-I & 66 kV Tuglakabad-Mohan co-operative Industrial Area Ckts. are expected to be operational in June-2019. OCC advised BRPL to expedite the energization of said feeders by end of May 2019 as the same will provide load relief to Okhla and Mehrauli Substations particularly in view of outage of one 220/66KV 100MVA Trf. at Okhla.

DTL pointed out that Tughlakabad Substation was energized on 05.10.2018. But despite of regular persuasions, energization of the above feeders are getting delayed.

(b) BRPL informed that the work of laying 66 kV R K Puram-Vasant Kunj B-Block ckt is under progress and is expected to be functional by end of May 2019.

DTL pointed out that R.K. Puram Substation was energized in the month of May 2018. However, the energization of the above feeder got delayed which may result into overloading at Vasant Kunj Substation particularly in view of outage of 220/66KV 160MVA Trf. at Vasant Kunj.

(c) BRPL informed that the work of laying 66 kV PPK-III - G-2 ckt has been started & is expected to be operational by the end of May-2019.

DTL pointed out that 220 kV PPK-III Substation was energized in Dec 2017. However, the energization of the above feeder got delayed which might have given load relief to PPK-I/II substations.

(d) BYPL informed that 02 no. 33 kV Preet Vihar-Dwarkapuri Ckts. will be operational by Dec-2019.

OCC advised Planning deptt. DTL to take up the matter with Discoms in steering committee meeting to optimize the load at subjected under-loaded sub-stations in line with above. Discoms to put all out efforts for optimum loading at new substations against their capacity in order to provide load relief to the over loaded Transformers & old substations.

DTL further requested BRPL to draw max. load on 66 kV Batra & 66 kV Malviya Nagar feeders emanating from Tughlakabad substation to ease the load condition at 220 kV Okhla & Mehrauli substations.

OCC requested all DISCOMs to expedite for early completion of all pending projects to provide load relief at over loaded substation such as 220kV Okhla, Mehrauli, PPK-I, Najafgarh, Kanjhawala, Rohini-I, Shalimarbagh, & Park Street etc.

OCC also informed that the issue for load relief to 220 kV overloaded substations & Transformers has been discussed several times in previous OCC meetings. DISCOMs were requested to complete their pending projects well in time before summer season in order to avoid load shedding.

BRPL was informed that they should remain prepared to shift the entire 66 kV load from Okhla in case of emergency as there is single 220/66 kV level 100 MVA transformer at Okhla at present. Therefore, the 66 kV Okhla & Mohan co-operative Industrial Area feeders be energized from Tughlakabad Substation at the earliest.

(DISCOMs may please update the status)

2.2 Proposed planned shutdowns of O&M, DTL for the month of June 2019.

DTL O&M deptt. has proposed the planned shutdowns for the month of June-2019.

OCC may deliberate.

3. SLDC Agenda

3.1 High Voltage Operation of the Grid during Winter nights

This issue is regular agenda of Delhi OCC and being continuously discussed in OCC meeting from Oct-17 onwards. OCC has advised DTL to take various steps to sort out the problem of high voltage conditions and injection of reactive power particularly during high voltage conditions in winter months. Following steps were deliberated In the OCC meeting to control the injection of reactive power:

- a. Switching off the capacitors at all the Substations of Delhi, but during winter season proper monitoring of the same is yet to be put in place.
- b. Transformer taps optimization by DTL and DISCOM. DTL has changed Taps positions of most of the transformers at 220kV S/Stns
- c. Monitoring of all 400/220kV ICTs and taking actions wherein VAR flows are observed from 220kV to 400kV side. In this respect reactive energy accounts could also be monitored.
- d. Opening of lightly loaded transmission cables/ transmission lines keeping reliability in focus.
- e. Absorption of reactive power by generating units.

Inspite of taking all out efforts mentioned above, there was hardly any change in the status. Delhi has to pay heavy amount to NRPC reactive pool account due to injection of reactive

power particularly during high voltage conditions in winter months. Penalty amount increases with the progress of winter despite taking all possible steps to reduce reactive power injection during high voltage period. The details of NRPC reactive account bill from March 2018 onwards are as under:

Weeks No.	Weeks	Payable by Delhi (in Lakhs)	Receivable by Delhi (in Lakhs)
1	26th March to 01st April, 2018	23.38106	
2	02nd to 08th April, 2018	4.00526	
3	09th to 15th April, 2018		0.42442
4	16th to 22nd April, 2018	4.9357	
5	23rd to 29th April, 2018	4.27266	
6	30th April to 06th May, 2018	0.5019	
7	07th to 13th May, 2018	8.1305	
8	14th to 20th May, 2018	2.35494	
9	21 st to 27th May, 2018	0.94808	
10	28th May to 03rd June, 2018		0.7664
11	04th to 10th June, 2018		0.54549
12	11th to 17th June, 2018		0.62646
13	18th to 24th June, 2018		0.1326
14	25th June to 01 st July, 2018		0.95092
15	02nd to 08th July, 2018		1.36213
16	09th to 15th July, 2018		1.22088
17	16th to 22nd July, 2018		0.91089
18	23,rd to 29th July, 2018.		1.19315
19	30th July to 05th August, 2018.		2.10464
20	06th August to 12th August, 2018,		0.69601
21	13th to 19th August, 2018.		0.07342
22	20th to 26th August, 2018.		0.51055
23	27th August to 02nd September,2018	0.47138	
24	03rd to 09th September, 2018.	1.65998	
25	10th to 16th September, 2018.	1.38278	
26	17th to 23th September, 2018.		1.2998
27	24'h to 30th September, 2018		0.02028
28	01 st to 7th October, 2018		0.11568
29	08th to 14th October, 2018.		0.33282
30	15th to 21 st October, 2018.	5.1093	
31	22nd to 28th October, 2018.	10.22182	
32	29th October to 04th November	7.60634	
33	05th November to 11 November	44.88414	
34	12th to 18th November, 2018	28.6405	
35	19th to 25th November, 2018.	27.69186	
36	26th November to 02nd December,2018	12.3564	
37	03rd to 09th December, 2018	19.96652	
38	10th to 16th December, 2018.	22.89784	

39	17th to 23rd December, 2018	11.95656	
40	24th to 30th December, 2018.	28.6545	
41	31 st December 2018 to 06th January, 2019.	27.32492	
42	07th to 13th January, 2019.	21.40208	
43	14th to 20th January, 2019.	27.52274	
44	21 st to 2th January, 2019	34.74212	
45	28th January to 03rd February, 2019.	30.0699	
46	04th to 10th February, 2019	31.0709	
47	11th to 17th February, 2019.	34.82836	
48	18th to 24th February, 2019	36.92654	
49	25th February to 03rd March, 2019	43.63436	
	Total	559.55194	13.28654

DTL has been advised for early commissioning of Reactors at various locations based on the feasibility study conducted by DTL, the 40th Standing Committee Meeting of CEA held on 13.07.2018 advised DTL/PGCIL to install reactors at the following locations:-

S. No.	Name of the Grid	Voltage level	Reactors proposed in MVAR	Remarks
1.	Mundka	400kV	125	To be installed by DTL
2.	Bamnauli	220kV	2X25	
3.	Indraprastha	220kV	2X25	
4.	Harsh Vihar	220kV	2X50	
5.	Electric Lane	220kV	1X50	
6.	Mundka	220kV	25	
7.	Peera Garhi	220kV	1X50	
8.	Maharani Bagh (PG)	400kV	125	To be installed by Power Grid.
9.	Mandola(PG)	400kV	125	
	Total	700		

Planning Department was requested to explore the possibility for early commissioning of reactors as decided in the 40th Standing Committee Meeting of CEA held on 13.07.2018. DMRC is requested to submit their status of reactor installation and its control.

(OCC may deliberate)

3.2 Providing source of power supply and its alternate source for important establishments

All the Discoms/deemed Licenses are requested to provide the source of power supply and alternate supply arrangements of all important establishments (ex. important building, hospitals or any other essential services).

S. no	Name of establishment	Details of main source of supply	Details of Alternate power supply

BYPL and TPDDL have submitted the data. Other discoms to submit the data to SLDC at the earliest.

(Discoms to update)

3.3 Correction in Nomenclature of 33/66kV Feeders from 220kV DTL Sub Stations.

The matter was deliberated in the previous OCC meeting that request for any change in the nomenclature of DISCOMs 66 kV/33 kV/11 kV O/G feeders have to submitted by the concerned DISCOM in the office of GM(Planning)DTL, Jhandewalan in the desired format with all necessary supporting documents as agreed in the 3rd steering committee meeting (2018-19) held in the office of GM(Planning), DTL, Jhandewalan on dt. 06.12.2018.

The updation in nomenclature will be communicated to the concerned DISCOM by GM(Planning) office.

As per data available at SLDC, following are the feeders of BRPL which require name change:-

S.No.	DTL GRID	NAME OF FEEDER
1.	220kV Sarita Vihar	Mathura Road Ckt.01 and Ckt. 02
2.	220kV Lodhi Road	Defence Colony Ckt.02
3.	220kV Lodhi Road	Lajpat Nagar 01 and 02
4.	220kV IP	Defence Colony (Bay 24)
5.	220kV Mehrauli	Malviya Nagar Ckt.01 and Ckt.02
6.	220kV Okhla	Malviya Nagar Ckt.03
7.	220kV Masjid Moth	Court Complex 01 and 02
8.	220kV Vasant Kunj	Rigid Valley Ckt.01 and Ckt.02

All DISCOMS are requested to provide the necessary documents to Planning at the earliest and confirm the status.

(Discoms may update)

3.4. Implementation of Automatic Demand Management Scheme by Discoms

Refer S.No. 2.2 of 20th GCC MoM wherein NDMC had informed that their software for ADMS has been upgraded and under testing and work is linked with the IPDS project, for which efforts shall be made to complete at the earliest.

The matter was deliberated and as informed in the previous OCC meeting, NDMC reconfirmed that the work is expected to be completed by Sep-19.

NDMC to confirm the latest status.

3.5 Survival of Local Island at GTPS/Pragati.

During 20th GCC meeting as per MoM at S.No. 2.4 (9.12) following was discussed:-

“BYPL representative raised the issue of survival and subsequent synchronizing of local islanding at GT/ Pragati.

GCC advised DTL to carry out a joint visit with Discoms and IPGCL/ PPCL to analyse the requirements for sustaining local island at GT station”.

The matter was deliberated in the previous OCC meeting and a committee comprising of following members was constituted for carrying out the above desired work at Pragati:-

(i) Sh. Satyendra Prakash, AGM(Elect./C&I), PPS-I, PPCL

- (ii) Sh. Hitesh Kumar, DGM(OS), DTL
- (iii) Sh. B.L. Gujar, DGM(Prot.), DTL
- (iv) Sh. Deepak Kumar, AM(T)-Pragati, DTL

Accordingly, OCC advised to do the needful at the earliest. Status of the above may be updated.

4. DTL Agenda

4.1 Outage due to sudden failure of Outlived 100 MVA Power Transformers.

DTL is transmitting Power to Delhi Discoms at 66 kV and 33 kV level with a transmission network of around 82 nos. 100 MVA(220/33KV -42 no. and 220/66KV – 40no.) and 26 no. 160 MVA Power Transformers across NCT of Delhi. In addition to mentioned existing capacity number of Power transformers are also under planning through new installation/augmentation schemes. Out of the existing 82 nos. 100 MVA Power transformers, 22 no.(220/33KV -5 no. and 220/66KV – 17no.) transformers are already outlived and has completed their useful life of 25 years as per DERC approved norms. However, replacement of these transformers in one go shall require extensive capital expenditure of around Rs.110 Crores in addition to the already approved 13th business plan expenditure resulting additional tariff burden to the consumers of Delhi. As operational performance and test results of many of these outlived transformers are still in order, matter was discussed at various levels at the time of formation of transmission plan and it was decided that in order to avoid sudden tariff burden on Delhi consumers, these transformers shall be replaced/augmented in a phase manner with an average of 02 nos. of transformers per year.

However, it is also true that with the ageing of these transformers, the life cycle of these transformers is uncertain and is prone to sudden termination/failure. In such event of sudden failure of these outlived transformers, the best efforts are made to replace these transformers with the hot reserve transformers. However, sometimes in the event of failure of some other working transformer, hot reserve transformers do not become available and in such cases, the replacement of these outlived transformer takes a minimum possible duration of 15 months (4-month award + 9-month delivery + 2-month ETC period) making a large impact on the DTL availability. As the decision to replace these outlived transformers in a phased manner is a forced measure owing to balancing of consumer tariff, the impact of outage due to failure of these outlived 100 MVA transformers should not be attributable to DTL and must be considered as deemed available. OCC is requested to approve the same.

(OCC may deliberate)

4.2 Operational stability for Waste to energy generating plant(EDWPCL) of Ghazipur.

The waste to energy plant at Gazipur is connected to 220KV Gazipur at 66KV level through 400mm² four no. cables(one cable is kept open at Ghazipur).

It has been reported by EDWPCL that the plant gets often affected due to supply interruptions from 220KV Gazipur Substation. The plant has provided the following information of supply interruption during 2018-19:

Grid Fail Record (APRIL-18 to Till date)								
S. No	Outage -Grid			Relay Indication	Synchronization			Remarks
	Date	Time-fail	Restore		Date	Time-Trip	Time-TG -Synch	
1	11.04.18	10:32	10:34	86-High speed Tripping Relay Trip, Vector Shift relay operated	11.04.18	10:32	10:52	Maharanibagh feeder trip
2	14.04.18	12:00	12:05	86-High speed Tripping Relay Trip, Vector Shift relay operated	14.04.18	12:00	12:22	Vivek vihar Breaker trip
3	18.04.18	13:42	13:44	86-High speed Tripping Relay Trip, Vector Shift relay operated	18.04.18	13:42		220 kv line trip in Maharanibagh
4	29.05.18	06:27	18:56	86-High speed Tripping Relay Trip, Vector Shift relay operated	29.05.18	06:27	09:59	220 kv line trip in Maharanibanibag
5	09.06.18	17:29	17:31	86-High speed Tripping Relay Trip, Vector Shift relay operated	09.06.18	17:29	17:29	Maharanibagh feeder trip
6	03.07.18	08:13	08:15	86-High speed Tripping Relay Trip, Vector Shift relay operated	03.07.18	08:13		Tripping in Ghazipur Sub-station
7	03.07.18	08:28	08:33	86-High speed Tripping Relay Trip, Vector Shift relay operated	03.07.18	08:28		Tripping in Ghazipur Sub-station
8	01.08.18	06:16	Heavy jerk	Heavy jerk, Vector shift relay	01.08.18	06:16	08:31	Reason of jerk not clear
9	02.08.18	14:20	Heavy jerk	Heavy jerk, Vector shift relay	02.08.18	14:20		Reason of jerk not clear
10	03.08.18	17:13	Heavy jerk	Heavy jerk, Vector shift relay	03.08.18	17:13		Reason of jerk not clear
11	04.08.18	19:15	Heavy jerk	AVR come in manual mode	04.08.18	19:15		Pragati and saritavihar 220 kv line trip
12	15.08.18	10:10	Heavy jerk	Heavy jerk, Vector shift relay	15.08.18	10:10		Due to earth fault in 220 kvPragati transmission line
13	15.08.18	12:59	Heavy jerk	Heavy jerk, Vector shift relay	15.08.18	12:59		Due to earth fault in 220 kvPragati transmission

								line
14	15.08.18	17:10	Heavy jerk	AVR come in manual mode	15.08.18	17:10		Pragati maidan feeder trip
15	15.08.18	18:06		AVR come in manual mode	15.08.18	18:06		Pragati maidan feeder trip
16	15.08.18	20:05	20:05	Heavy jerk, Vector shift relay	15.08.18	20:05	20.25	Reason of jerk not clear
17	16.08.18	02:44		Heavy jerk, Vector shift relay	16.08.18	02:44		Reason of jerk not clear
18	20.08.18	07:19		Heavy jerk, Vector shift relay	20.08.18	07:19		Reason of jerk not clear
19	27.08.18	14:21	14:24	Heavy jerk, Vector shift relay	27.08.18	14:21		132 kv BSESline Kundali feeder trip
20	05.09.18	09:27	09:35	Heavy jerk, Vector shift relay	05.09.18	09:27		220 kv line trip in Maharaniabagh
21	02.10.18	09:10	09:12	Vector surge protection oparete	02.10.18	09:10	09:32	
22	22.11.18	13:44	13:46	Tg on home load	22.11.18	13:44	13:47	Ghazipur 220 kv line tripon over voltage,confirm to SLDC operation
23	22.11.18	19:28	19:35	Black out contol room	22.11.18	19:28		220kv feeder for Padpadganj trip
24	15.02.19	04:16	04:25	Over voltage at 66KV	15.02.19	04:16		Maharaniabagh 400kv line trip
25	15.02.19	04:32	04:33	Over voltage at 66KV	15.02.19	04:32		Reason not clear in Gazipur side
26	21.02.19			Over voltage at 66KV				
27	23.02.19	16:51	17:01	Total blackout happned / 220KV failed	23.02.19	16:51	17:45	Patpadganj Line trip
28	24.02.19	00:05	00:12	220KV failed	24.02.19	00:05	00:31	Padpadganj Line trip
29	25.02.19	00:04	00:09	Over voltage at 66KV: Over fluxing relay activiated	25.02.19	00:04	00:10	over voltage & Over fluxing relay activated
30	16.04.19	20:00	22:00	Over voltage at 66KV bay , over fluxing activated			01:28	over voltage & Over fluxing relay activated
31	17.04.19	03:00		Over voltage at 66KV bay , over fluxing activated				

Note:- Mainly two relay operates-

1. Phase shift relay &

2. Over fluxing relay. Most of the time vector shift relay operates due to fluctuation in 220&66KV lines and secondly over fluxing relay due to over voltage at low load condition in the grid.

It has been observed that during the period of review the details of 220KV supply failure to Gazipur S/Stn. Has been as under:

S.No	Name of Feeder that tripped causing disturbance	Outage		Relay indications	Synchronization		Remarks
		Date	time		Date	time	
1	220kV Maharani Bagh - I 220kV Maharani Bagh -II 220kV Patparganj	29.05.18	6:32 Hrs.	MHB-I O/C, E/F MHB-II CVT disappeared PPG Gnl trip, O/C trip, R Ph, B Ph trip	29.05.18	6:32 Hrs.	MHB-I and PPG feeders tripped. Simultaneously MHB-II CVT disappeared.
2	220kV Maharani Bagh - I 220kV Maharani Bagh -II	13.01.2019	17:11 Hrs.	86 Tripped	13.01.2019	17:58Hrs	66kV Kondli-I, Y Ph. CT burnt out but didn't blast. Caused tripping of both incoming 220kV source feeders and 100MVA TxS.
3	220kV Patparganj	24.02.2019	00:10 Hrs.	Gnl. Trip (O/V)	24.02.2019	00:12 Hrs.	Only source 220kV Patparganj tripped due to O/V. Supply restored after BTPS was closed. MHB feeders were under S/D for PWD work Barapula elevated road
4	220kV Patparganj	25.02.2019	00:10 Hrs.	Gnl. Trip (O/V)	25.02.2019	00:14 Hrs.	Only source 220kV Patparganj tripped due to O/V. Supply restored after BTPS was

							closed. MHB feeders were under S/D for PWD work Barapula elevated road
5	220kV Maharani Bagh - I 220kV Maharani Bagh -II	03.03.2019	03:55 Hrs.	CVT Disappeared on both feeders	03.03.2019	04:05 Hrs.	After the Maharani Bagh sources failed. Supply restored after BTPS was closed.

Note: Whenever 220KV supply failure occurs the Gazipur Generating plant gets disconnected from the grid.

It has also been observed that number of 66kv tripping also reported causing jerk in the system affecting the stability of the generating plant. The details of tripping are as under-

Sr. no.		Outage		Relay Indications	Synchronization	
		Date	time		Date	Time
1	66KV KONDLI CKT -1	22.5.18	11:15	86, RYB Ph, Dist. 0.5 km	22.5.18	11:32
		13.01.19	17:11	Dist. Prot. Relay, Zone-I & II	15.01.19	17:05
		15.02.19	4:22	WITHOUT INDICATION	15.02.19	4:35
		16.02.19	9:10	ZONE-I Y PH.	16.02.19	11:30
2	66KV KONDLI CKT -2	22.5.18	11:15	86, RYB Ph, Dist. 0.5 km	22.5.18	11:32
		15.8.18	20:06		15.8.18	20:47
		27.8.18	14:22	O/C E/F	27.8.18	14:28
3	66KV PPG IND. AREA (VIVEK VIHAR -1)	02.5.18	14:32	86, Zone-1, Dist. 0.5 km	02.5.18	15:00
		07.5.18	23:15	Zone-1 & 4, Dist. 4.2 km	8.5.18	0:42
		13.5.18	20:52	Zone-1 & 4, Dist. 2.8 km	13.5.18	22:52
		26.5.18	1:00	Zone-1, Dist. 2.7 km	26.5.18	3:45
		15.6.18	6:04	86, Zone-1, Dist. 3.1 km	15.6.18	7:17
		18.6.18	18:15	Zone-1, Dist. 3.8 km	18.6.18	19:45
		25.6.18	9:29	Zone-1, Dist. 2.0 km	25.6.18	11:06
		06.7.18	7:10	86, Zone-1, B Ph., Dist. 4.6 km	06.7.18	9:10
		15.02.19	4:22	WITHOUT INDICATION	15.02.19	4:35
		22.02.19	5:10	ZONE-I Y PH.	22.02.19	6:35
		17.03.19	10:50	86 ZONE-I B PH.	19.03.19	10:22
		19.03.19	18:30	86 ZONE-I B PH.	23.03.19	9:27
		12.4.19	20:03	ZONE-I B Y PH. 1.2 km	18.4.19	10:50
		18.4.19	13:01	ZONE-I B PH. 1.1 km	20.4.19	19:50
		20.4.19	21:30	86T	23.4.19	23:10
26.4.19	18:08	86 ZONE-I B PH. 0.8 km	27.4.19	14:22		
28.4.19	23:45	86T 86 ZONE-I Y PH. 1.3km	29.4.19	01:07		

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4	66KV VIVEK VIHAR -2	13.5.18	20:52	Zone-1 & 4, B Ph, Dist. 14.7 km	13.5.18	23:25
		26.5.18	1:00	Zone-1, RY Ph. Dist. 5.9 km	26.5.18	3:45
		10.6.18	10:00	Zone-1 & 4, B Ph, Dist. 4.3 km	10.6.18	13:58
		22.7.18	8:30	R Ph., Dist 0.5km	22.7.18	11:41
		09.9.18	18:40	86, Zone-1, R Ph., Dist. 4.2 km	09.9.18	20:05
		22.9.18	8:53	86, Zone-1, Y Ph., Dist. 0.7 km	22.9.18	10:16
		07.02.19	9:29	86 ZONE-I B PH.	07.02.19	14:18
		08.2.19	7:20	86 ZONE-I B PH.	09.02.19	23:30
		20.02.19	9:35	WITHOUT INDICATION	20.02.19	11:48
		17.03.19	10:50	86 ZONE-I B PH.	17.03.19	12:06
	16.4.19	0:28	ZONE-I R PH. 3.4 km	16.4.19	2:15	
5	66KV EDWPCL	N I L				
6	66KV DMRC-II	10.02.19	17:32	86 ZONE-I Y PH. O/C E/F	10.02.19	18:40
		03.03.19	03:55	O/V	03.03.19	06:22
7	66KV DMRC-I	03.03.19	03:55	O/C E/F O/V	03.03.19	08:07

Note: BYPL may indicate reasons of tripping and remedial action taken to avoid the tripping.

OCC may discuss the strategy to ensure stable operation of the waste to energy plant as the stability required to be ensured for environmental reasons as well.

5. PPCL Agenda

5.1 Regarding UI Waiver for Tripping on Dated 15.05.2019.

On 15.05.2019, GT # 1 and STG # 1 of Module – I, Pragati Power Station III were running at 154 MW and 87 MW respectively. GT # 4 and STG # 2 of Module – II were running at 130 MW and 84 MW respectively. GTGT # 2 and GTGT # 3 were in back - charged condition for meeting the station auxiliary supply.

At around 07:42 Hrs, a heavy jerk along with an explosion sound and smoke appeared to be emanating from the enclosure of Excitation Transformer of STG # 1, subsequently at 07:42 Hrs, STG # 1 tripped on Generator Protection (Overall Differential).

After about two minutes, at 07:44 Hrs, another jerk was observed and STG # 2 tripped on Earth Fault Protection of Generator Transformer STGT # 2. A heavy jerk was observed in the 400 KV system.

- **As learnt from DTL, due to sudden heavy downpour along with hailstorm, there was a flash over on one of the CTs of DTL, Bawana Switchyard. Simultaneously, ICT – 2, ICT – 3 and ICT – 4 of DTL, Bawana tripped on Transformer Differential Protection.**
- **At the same time, Generator Transformer of STG # 2 tripped on the Instantaneous High – Set Element of Stand – By Earth Fault Protection.**
- **It is important to mention here that, as per the deliberations and discussions at NRPC (9th PSAG meeting), the High – Set setting of the Stand- By Earth Fault Protection has been increased to a Pick up value of 6 times the nominal current along with a time delay of 150 msec.**

The flash over on the 400 KV CT along-with tripping of 3 Nos. of ICTs of DTL, Bawana might have resulted in high fault current, resulting into tripping of STG # 2 Generator transformer on the High – set element of Stand – By Earth Fault Protection.

STG#2 sensed the fault & tripped at 07:44 hrs, on Standby Earth Fault protection due to disturbance in grid, initiated from 400 KV line and the same was informed to SLDC vide message no.CCGT15052019/01 dated 15.05.2019 at 07:54 hrs. Tripping of Generator Transformer of STG # 2, caused Generation loss to PPCL, for no in plant deficiency. **This resulted into generation loss of 84 MW.** The tripping could not be attributed on account of PPCL Bawana and hence UI and penalty towards under injection should not be imposed.

Hence it is requested to kindly waive off the UI w.e.f. 07:44 hrs till synchronization of STG#2.

STG#2 synchronized at 13:21 hrs on dated 15.05.2019.

(OCC may deliberate)

6. 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 Delhi Power system as under:

S.N	Element's Name	Discom/DTL	Date and Time of outage	Status of outage as on 20.05.2019
1.	33kV ALAKHNANDA - OKHLA CKT.-I	BRPL	19.04.2018	BREAKER PROBLEM.
2.	33kV BUS COUPLER AT TUGLAKABAD	BRPL	05.12.2018	'R' PH. CLAMP BLAST. BREAKER BY PASSED.
3.	33kV BUS COUPLER AT SARAI JULIENA	BRPL	02.01.2019	LIMB BLAST (BREAKER FAULTY)
4.	220kV TRAUMA CENTRE - 33kV IIT CKT.	BRPL	15.05.2019	R & Y-Ph. CABLE FAULTY
5.	220kV OKHLA - 33kV EAST OF KAILASH CKT.	BRPL	15.05.2019	'Y' PH. SINGLE CABLE FAULTY
6.	220kV OKHLA - 33kV ALAKHNANDA CKT.	BRPL	16.05.2019	UNDER BREAKDOWN
7.	66kV MUNDKA - NANGLOI CKT	BRPL	03.02.2019	'Y' PH. CABLE FAULTY
8.	66kV PPK -II - HASTAL CKT.-I	BRPL	06.05.2019	B- PH. SINGLE CABLE FAULTY
9.	33kV REWARI LINE - VISHAL CKT.-I	BRPL	10.05.2019	R- PH. SINGLE CABLE FAULTY
10.	33kV CIVIL LINE - O/G FOUR POLE 42 CKT.	TPDDL	07.05.2019	'Y' PH. CABLE FAULTY
11.	33kV TRIPOLIA - G.T.K. CKT.	TPDDL	07.05.2019	CABLE FAULTY
12.	220kV TRAUMA CENTRE - KIDWAI NAGAR WEST CKT.	NDMC	18.05.2019	'Y' PH. CABLE FAULTY
13.	220/66kV 160MVA PR.TR.-III AT 220kV VASANT KUNJ	DTL	26.04.2018	TRANSFORMER BURNT DUE TO FIRE. TO BE REPLACED.
14.	33kV BUS COUPLER AT KASHMERE GATE	DTL		TRIPPING COIL PROBLEM.

15.	220/33kV 100MVA PR. TR.-I AT 220kV RPH STN.	DTL	03.09.2018	TRIPPED ON BUCHOLZ AND DIFFERENTIAL RELAY. PR. TR FAILED.
16.	220/66kV 100MVA PR. TR.-I AT 220kV OKHLA STN.	DTL	27.09.2018	'Y' PH. WINDING DAMAGED. PR. TR FAILED.
17.	PATPARGANJ - 220/33kV 100MVA PR. TR.-I	DTL	10.01.2019	TR. DAMAGED. TO BE REPLACED.
18.	GAZIPUR:- 220/66/33kV 100MVA PR. TR.-I	DTL	22.03.2019	TRANSFORMER DISMANTLED AND SHIFTED TO RPH FOR TR.-II
19.	VASANT KUNJ:-220kV R.K.PURAM -VASANT KUNJ CKT.-II	DTL	10.05.2019	CKT. BREAKER PROBLEM.
20.	RAJGHAT: ALL BAYS EXCEPT BAY No.-1,2,5&6	DTL	15.05.2019	DUE TO FIRE IN CONTROL CABLE TENCH.
21.	400kV TUGLAKABAD - BAMNAULI CKT.-I	DTL	12.10.2018	CKT. CHARGED ON ERS ON TOWER NO. 174 ON 16.04.2019 AT 19:06HRS. HOWEVER, TOWER NO. 173 ERECTION WORK IN PROGRESS.
22.	400kV BAWANA:- CKT. BREAKER No. 652 OF ICT-III	DTL	15.05.2019	SHUT DOWN TO REPLACE 'Y' PH. CT BY PGCIL.
23.	OKHLA:- 66kV BUS COUPLER	DTL	16.05.2019	SHUT DOWN FOR REPLACEMENT OF ISOLATOR.
24.	220KV BTPS - NOIDA - GAZIPUR CKT.	UPPTCL	12.04.2019	SHUT DOWN AWAILED BY UPPCL FOR 10 DAYS FOR LILO WORK AT NOIDA SEC-20.

7. Additional Agenda

7.1. SLDC additional agenda

7.1.1. Feeders for physical opening during bad weather conditions:

NRPC has desired the above data considering that manual opening of feeders shall be restricted to only those having threat to life or materials. Thus, it is important to classify feeders in two lists:

- One which do not require manual opening (in view of safety requirements)
- Other with safety concern DISCOMs, to share as early as possible. OCC advised all discoms to submit the data as desired to SLDC.

This issue was discussed in last OCC meeting but till date no information has received to SLDC.

(Action by Discoms)

7.1.2. Information required by FOLD:

- a) Delhi has total generating capacity of 2024 MW in which 1972 MW is Gas Based Plants and 52MW is waste to Energy Plants. However data pertaining to solar/rooftop generation is not available to SLDC Delhi which may help in more informed forecasting and planning.

So all Discoms are requested to provide relevant data w.r.t. solar/rooftop generation if any within their respective area.

- b) In recent 29th FOLD Meeting held on 14.05.2019; it was suggested that all SLDC should have data regarding type of load and its characteristics. It was also advised to all SLDC's to segregate its load i.e. residential, commercial and industrial as it may help in forecasting demand.

So all discoms are requested to give segregated data of load and its characteristics in their operational areas to SLDC Delhi.

(Action by Discoms)

7.1.3. Real time verification of Force scheduling Instances of Discoms.

As per directions of DERC, SLDC has to certify the force scheduling instances of discoms. SLDC has already advised discoms to submit the instances of force scheduling if any through email to SLDC in real time, so that same may be checked and authenticated by SLDC. However, it has been observed that the same has not been followed by discoms.

In view of above, it is once again advised that the instances of force scheduling shall be submitted to SLDC in real time for checking and authentication.

(Action by Discoms)

7.2. TPDDL Additional Agenda

7.2.1 Status of installation of power transformers.

TPDDL have requested to update the status of installation of power transformers by DTL (which were planned to be installed before summer period).

7.2.2 Restoration of DTL Gopalpur ICCP link

During ICCP project roll-out there was two redundant link established for ICCP. One was from Kanjawala and the other was from Gopalpur. However we have experienced frequent failure of link from GPL.

The Link is also not working from last 6 month.

7.2.3 Sharing of CT ration change information to TPDDL

We have experienced a delay in information regarding CT ratio change on exchange meter (SL-1). It affects us daily meter reading and have huge financial impact on power management

7.2.4 DTL FO network at Kashmiri gate

We are facing frequent communication failure from Kashmiri gate due to GPRS network. We request you to provide FO network.
