

Northern Region-Event Report for October 2018

S.No.	Region	Name of Elements (Tripped/Manually opened)	Affected Area	Outage		Revival		Duration	Event (As reported)	Generation Loss(MW)	Load Loss(MW)	Category as per CEA Grid Standards	Energy Unservd (in MU)
				Date	Time	Date	Time						
1	NR	1) 450 MVA ICT 1 at 400/220kV Panipat(BBMB) 2) 450 MVA ICT 2 at 400/220kV Panipat(BBMB) 3) 220kV Panipat(BBMB)-Kurukshetra(HVPLN) 4) 220kV Chhajpur(HVPLN) - Panipat(BBMB) ckt-1 5) 220kV Panipat(BBMB)-Dhulkote(BBMB) ckt-2 6) 220kV Panipat(BBMB)-Narela(DTL) ckt-1, ckt-2 & ckt-3 7) 220kV Panipat(BBMB)-Narela(DTL) ckt-1, ckt-2 & ckt-3 8) 220kV Chhajpur(HVPLN) - Panipat(BBMB) ckt-2 9) 220kV Panipat(BBMB)-Charkhi Dadri 10) 220kV Panipat TPS(HVPLN)-Panipat(BBMB) ckt-2, ckt-3, ckt-4 11) 220kV Panipat TPS(HVPLN)-Pipli	Delhi & Haryana	1-Oct-18	10:34	1-Oct-18	12:13	01:39	Bus bar protection of 220 kv Bus-1 & 2 operated at 400/220kV Panipat(BBMB) due to broken conductor of 220kV Panipat- Kurukshetra fall down on 220 kv BUS-2 at 400/220kV Panipat(BBMB). As per PMU, R-B fault is observed and Rise in frequency of around 0.03Hz is observed. In antecedent conditions, 450 MVA ICT 1 & ICT 2 carrying 210 MW each.	NIL	290	GD-1	0.48
2	NR	1) 220kV Amargarh(NRSS29)-Delina(JK) ckt-1 2) 220kV Amargarh(NRSS29)-Zainkot(JK) ckt-1	Jammu & Kashmir	1-Oct-18	18:53	1-Oct-18	22:22	03:29	220kV Amargarh(NRSS29)-Delina(JK) ckt-1 & 220kV Amargarh(NRSS29)-Zainkot(JK) ckt-1 tripped on Phase to earth fault. As per PMU, R-N fault is observed. In antecedent conditions, 220kV Amargarh(NRSS29)-Delina(JK) ckt-1 carrying 43 MW.	NIL	NIL	GI-2	NIL
3	NR	1) 400kV Bus 1 at 400kV Chamera (NHPC) 2) 400kV Chamera (NHPC)-Jalandhar(PG) ckt-1 3) Bus reactor 1 at 400kV Chamera (NHPC).	Himachal Pradesh & Punjab	6-Oct-18	02:29	6-Oct-18	11:39	09:10	400kV Bus 1 at 400kV Chamera (NHPC) tripped due to operation of Bus Bar Differential relay. At the same time, 400kV Chamera (NHPC)-Jalandhar(PG) ckt-1 also tripped. In antecedent conditions, 400kV Chamera (NHPC)-Jalandhar(PG) ckt-1 carrying 80 MW. As per PMU, R-N fault is observed with no autoreclosing attempt.	NIL	NIL	GI-2	NIL
4	NR	1) 450 MVA ICT 1 at 400/220kV Panipat(BBMB) 2) 220kV Panipat(BBMB)-Kurukshetra(HVPLN) 3) 220kV Chhajpur(HVPLN) - Panipat(BBMB) ckt-1 4) 220kV Panipat(BBMB)-Narela(DTL) ckt-1 5) 220kV Panipat(BBMB)-Narela(DTL) ckt-3 6) 220kV Panipat TPS(HVPLN)-Panipat(BBMB) ckt-1 7) 220kV Panipat TPS(HVPLN)-Panipat(BBMB) ckt-3 8) 220kV Panipat(BBMB)-Dhulkote(BBMB) ckt-1	Delhi & Haryana	8-Oct-18	11:50	8-Oct-18	12:12	00:22	Bus bar protection of 220 kv Bus-1 operated at 400/220kV Panipat(BBMB) leading to tripping of 450 MVA ICT 1 at 400/220kV Panipat(BBMB) and connected 220kV lines to 220kV Bus 1. As per PMU, Y-N fault is observed and Rise in frequency of around 0.023Hz is observed. In antecedent conditions, 450 MVA ICT 1 carrying 245 MW.	NIL	160	GD-1	0.06
5	NR	1) 315 MVA ICT 1 at 400/220kV Bawana(DTL) 2) 315 MVA ICT 2 at 400/220kV Bawana(DTL)	Delhi	8-Oct-18	19:43	8-Oct-18	22:28	02:45	315 MVA ICT 1 & ICT 2 at 400/220kV Bawana(DTL) tripped on auxiliary Buchholz relay. As per PMU, Y-N fault is observed. In antecedent conditions, 315 MVA ICT 1 & ICT 2 carrying 144 MW & 141 MW respectively.	NIL	NIL	GI-2	NIL
6	NR	1) 220kV Sala(NHPC)-Kishenpur(PG) ckt-1 2) 220kV Sala(NHPC)-Kishenpur(PG) ckt-2	Jammu & Kashmir	9-Oct-18	03:15	9-Oct-18	03:59	00:56	220kV Sala(NHPC)-Kishenpur(PG) ckt-2 tripped on Phase to earth fault(B-N fault), 8.03 kms from Sala(NHPC) end. At the same time, 220kV Sala(NHPC)-Kishenpur(PG) ckt-1 also tripped only at Kishenpur(PG) end. As per PMU, R-B fault is observed. In antecedent conditions, 220kV Sala(NHPC)-Kishenpur(PG) ckt-1 & ckt-2 carrying 36 MW & 39 MW respectively.	NIL	NIL	GI-2	NIL
7	NR	1) 315 MVA ICT 1 at 400/220kV Jalandhar(PG) 2) 315 MVA ICT 2 at 400/220kV Jalandhar(PG)	Punjab	9-Oct-18	05:17	9-Oct-18	06:13	00:44	315 MVA ICT 1 & ICT 2 at 400/220kV Jalandhar(PG) tripped due to operation of Back up earth fault protection at 220 kv side as there was Fire at 220kV Kanjali station of Punjab. As per PMU, Voltage dip in three phases is observed. In antecedent conditions, 315 MVA ICT 1 & ICT 2 at 400/220kV Jalandhar(PG) carrying 22 MW & 24 MW respectively.	NIL	NIL	GI-2	NIL
8	NR	1) 400 kv Obra-B(UP)-Rewa road(UP) 2) 400 kv Obra-B(UP)-Sultanpur(UP) 3) 315 MVA ICT-1 at 400/220kV Obra-B(UP) 4) 315 MVA ICT-2 at 400/220kV Obra-B(UP) 5) Unit -9 (200 MW) at 400/220kV Obra-B(UP) 6) Unit -10 (200 MW) at 400/220kV Obra-B(UP) 7) Unit -11 (200 MW) at 400/220kV Obra-B(UP) 8) 220 kv/6.6 kv, 30 MVA Station transformer at 400/220kV Obra-B(UP)	Uttar Pradesh	14-Oct-18	04:37	27-Oct-18	10:36	317:59:00	Fire was observed around 04.30 hrs in cable gallery at 400/220kV Obra-B(UP). 220 kv/6.6 kv, 30 MVA Station transformers was tripped at 04.37 hrs, results in failure of station supply. Consecutively unit no 9, 10 & 11 each of 200 MW of capacity tripped at 04.37 hrs and total generation loss was of 460 MW. At the same time 04.37 hrs, 400 kv Obra (B) - Rewa road and 400 kv Obra (B) - Sultanpur lines also tripped. At 04.43 hrs 400 kv Obra (B) - Anpara line was manually opened from both ends. As per PMU, no fault is observed.	460	160	GD-1	NIL
9	NR	1) 200 MVA ICT1 at 400/220kV Rosa(UP) 2) 200 MVA ICT2 at 400/220kV Rosa(UP)	Uttar Pradesh	14-Oct-18	13:20	14-Oct-18	14:21	01:01	200 MVA ICT1 & ICT2 at 400/220kV Rosa(UP) tripped on earth fault. In antecedent condition, both ICTs carrying 64MW each. As per PMU, B-N fault followed by R-N fault is observed.	NIL	NIL	GI-2	NIL
10	NR	1) 400 kv Bus 1 at Jhakri(SIVNL) 2) 400 kv Jhakri(SIVNL)-Rampur(SIVNL) ckt-1 3) 400 kv Jhakri(SIVNL)-Panchkula(PG) ckt-1 4) 400 kv Jhakri(SIVNL)-Karchamwangtoo(JP)	Himachal Pradesh	16-Oct-18	03:48	16-Oct-18	06:40	02:52	Flash over occurred in R-phase circuit breaker pole of 400 kv NJPC-Rampur ckt-1 in 400 kv GIS of NJPC due to which Bus bar protection operated at NJPC. This line was already opened on HV. Only CB was opened and isolator was connected to Bus-1 at NJPC end as reported. Due to this BUS-1 bus bar protection operation 400kV Jhakri-Panchkula-1 and 400 kv Jhakri-Karchamwangtoo(JP) tripped. As per PMU, R-N fault is observed. In antecedent conditions, 400 kv Jhakri(SIVNL)-Karchamwangtoo(JP) & 400 kv Jhakri(SIVNL)-Panchkula(PG) ckt-1 carrying 103 MW & 32 MW respectively.	NIL	NIL	GI-2	NIL
11	NR	1) 220kV Kanpur(PG)-Naubasta(UP) 2) 220kV Fatehpur(PG)-Naubasta(UP)	Uttar Pradesh	17-Oct-18	11:16	17-Oct-18	12:03	00:47	220kV Fatehpur(PG)-Naubasta(UP) tripped on B-N fault. At the same time, 220kV Kanpur(PG)-Naubasta(UP) also tripped on Y-N fault. As per PMU, B-N fault is observed. In antecedent conditions, 220kV Kanpur(PG)-Naubasta(UP) & 220kV Fatehpur(PG)-Naubasta(UP) carrying 119 MW & 49 MW respectively.	NIL	130	GD-1	0.10
12	NR	1) 220kV Kota Th(Raj)-Sakatpura(Raj) ckt 1,2,3,4 2) 220kV Kota Th(Raj)- Modak(Raj) 3) 220kV Kota Th(Raj)-Kota(PG) D/c 4) 220kV Kota Th(Raj)-vatika(Raj) 5) 220kV Kota Th(Raj)-Bewar(Raj) 6) 220kV Kota Th(Raj)-Heerapur(Raj) 7) 220kV Kota Th(Raj)-Silor(Raj) 8) 220kV Kota Th(Raj) Unit#1, 2, 4, 5, 6, 7 9) 220kV Sakatpura(Raj)- RAPP A ckt 1,3 10) 220kV Sakatpura(Raj)- RAPP B ckt 2 11) 100MVA ICT 2 & 3, 160MVA ICT 1 & 4 at 220kV Sakatpura(Raj)	Rajasthan	20-Oct-18	21:00	20-Oct-18	22:47	01:47	At 220kV KTPS (Raj) switchyard heavy arcing occurred at 220kV Kota Th(Raj)-Morak(Raj) feeder during restoration activity of 220kV Bus 3 & 5, due to this Bus coupler 1 tripped on earth fault and various emanating feeders tripped resulting in tripping of all the running units. As per PMU, Voltage dip in all the three phases is observed and dip in frequency of around 0.052Hz is observed.	850	150	GD-1	0.27
13	NR	1) 315 MVA ICT 2 at 400kV Gorakhpur(UP) 2) 500 MVA ICT 1 at 400kV Gorakhpur(UP) 3) 220kV Gorakhpur(UP)-Gorakhpur(UP) II ckt-1 4) 220kV Gorakhpur(UP)-Gorakhpur(UP) I ckt-2 5) 220kV Deoria(UP)-Gorakhpur(UP) 6) 220kV Gorakhpur(UP)-Gorakhpur New(UP) ckt-1 7) 220kV Gorakhpur(UP)-Gorakhpur New(UP) ckt-2	Uttar Pradesh	22-Oct-18	10:03	22-Oct-18	10:48	00:45	Bus bar protection operated at 220kv side of 400/220kV Gorakhpur(UP) leading to tripping of all ICTs and 220kV transmission line connected with 400/220kV Gorakhpur(UP). As per PMU, R-N fault observed with delayed clearance. In antecedent condition, 500 MVA ICT 1 & 315 MVA ICT 2 carrying 130 MW & 81 MW respectively.	NIL	210	GD-1	0.15

S.No.	Region	Name of Elements (Tripped/Manually opened)	Affected Area	Outage		Revival		Duration	Event (As reported)	Generation Loss(MW)	Load Loss(MW)	Category as per CEA Grid Standards	Energy Unserviced (in MU)
				Date	Time	Date	Time						
14	NR	1) 400kV Kashipur (UTT)-Nehtaur 400 (UP) 2) 400kV Kashipur(UTT)-Moradabad(UP) 3) 315 MVA ICT 1 at 400/220kV Kashipur(UTT) 4) 315 MVA ICT 2 at 400/220kV Kashipur(UTT) 5) 160 MVA ICT 2 at 220/132kV Kashipur(UTT) 6) 400kV Kashipur (UTT)-Pantnagar(UTT) ckt-1 7) 400kV Kashipur (UTT)-Pantnagar(UTT) ckt-2	Uttarakhand	25-Oct-18	13:28	25-Oct-18	14:27	00:59	200kV Main Bus 1 and 160 MVA ICT 1 was under shutdown for maintenance. At 14:28 Hrs, Y and B phases of isolator 201-89B(160 MVA ICT 1 main Bus 2 isolator) got stuck mechanically while closing and created a spark resulting into complete burnout of mentioned isolator phases leading to a Bus fault on 220kV Bus 2. This resulted into tripping of 315 MVA ICTs, 160 MVA ICTs, all 220kV feeders and 400kV Kashipur (UTT)-Nehtaur 400 (UP) & 400kV Kashipur(UTT)-Moradabad(UP). As per PMU, Y-B fault is observed with delayed clearance of 1640ms.	182	225	GD-1	0.22

Western Region-Event Report for October 2018

S.No	Region	Name of Elements	Owner/Agency	Outage		Revival		Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Category as per CEA standards	Energy Unserviced (MU)
				Date	Time	Date	Time	Time					
1	WR	Tripping of 1.220 kV Khedamara-Bemetra 2.220 kV Suhela-Bemetra D/C 3.132 kV feeders at Bemetra s/s	CSPTCL	03-10-2018	22:58	03-10-2018	23:32	00:34	Tripping of 220kV Khedamara – Bemetra resulted in overloading of 220kV Suhela - Bemetra D/C, which eventually got tripped. This has caused the total interruption at 220/132 KV S/s Bemetra and downstream 220/132/33KV & 132/33KV S/s. CSPTCL has reported load loss of around 450MW.	Nil	450	GD-1	0.255
2	WR	Tripping of 1.400/220 kV 315 MVA Mansar ICT 1 2.400 kV Mansar Bus coupler 3.400 kV Mansar-Bhachau 4.400 kV Mansar-Chorania 5.400/220 kV 315 MVA Mansar ICT 2	GETCO	16-10-2018	07:01	16-10-2018	12:26	05:25	400 kV Mansar Bus 1 and associated elements tripped on Bus bar protection operation at 07:01 Hrs on Y phase fault. insulator flashover. 400 kV Mansar Bus 2 and associated elements tripped on Bus bar protection operation at 07:50 Hrs on Y phase fault. insulator flashover.	Nil	Nil	GI-2	Nil
3	WR	Tripping of 1.400/220 kV 315 MVA Mansar ICT 1 2.400 kV Mansar Bus coupler 3.400 kV Mansar-Bachau 4.400 kV 80 MVAR Mansar Bus reactor 5.400 kV Mansar-Chorania 6.400/220 kV 315 MVA Mansar ICT 2	GETCO	18-10-2018	06:31	18-10-2018	19:40	13:09	400 kV Mansar Bus 1 and associated elements tripped on Bus bar protection operation at 06:31 Hrs on Y phase fault. insulator flashover 400 kV Mansar Bus 2 and associated elements tripped on Bus bar protection operation at 07:15 Hrs on Y phase fault. insulator flashover.	Nil	Nil	GI-2	Nil
4	WR	Tripping of 1.250 MW Sikka Unit 3 2.220 MW Sikka Unit 4 3.220 kV Sikka Main bus 2	GSECL	26-10-2018	13:10	26-10-2018	14:34	01:24	At 220kV Sikka S/s, Main bus 2 tripped due to LBB protection maloperation. 250 MW Sikka units 3&4 connected to that bus tripped.	340	Nil	GI-1	Nil
5	WR	Tripping of 1.400/132 kV Pirana ICT 1 2.400/132 kV Pirana ICT 3 3.132 kV Pirana Bus 1 and associated elements	TPL	26-10-2018	15:31	26-10-2018	15:41	00:10	At Pirana S/s, metallic yarn fell on 132 kV bus 1 and resulted in tripping of associated elements on Bus bar protection operation.	Nil	54	GI-1	0.009
6	WR	Tripping of 1.220/66 kV 160 MVA Khadoli ICT 1 2.220/66 kV 160 MVA Khadoli ICT 2 3.66 kV feeders at Khadoli s/s	DNH	27-10-2018	17:00	27-10-2018	17:30	00:30	At 220 kV Khadoli S/s, during primary injection testing at CT of 66 kV Khadoli -Khadoli -3, 66 kV side elements tripped on LBB operation.	Nil	209	GI-1	0.1045
7	WR	Tripping of 1.CGPI 800 MW Unit 30 2.CGPI 800 MW Unit 40 3.CGPI 800 MW Unit 50	CGPL	30-10-2018	19:22	31-10-2018	03:10	07:48	At 400kV CGPL S/s, Bus 1 shut down was availed by PGCIL WR2 for 400 kV Bhuj PS D/C bay extension works and so the generators were connected to 400 kV Bus 2 through tie bays. Generator Class A 2 protection operated at Unit 30, 40&50 and the generators tripped.	2247	Nil	GI-2	Nil

Disclaimer : The Above details are based on the preliminary/flash report of the event and may change after finalisation of the detailed report.The quantum of load/generation loss is based on details given by SLDC and utility and may vary later with updated details.

Southern Region-Event Report for October 2018

Sl. No.	Region	Name of Elements (Tripped/Manually opened)	Owner / Agency	Outage		Revival		Outage Duration	Event (As reported)	Generation Loss (MW)	Load Loss (MW)	Category as per CEA Grid Standards	Energy Unserved (MU)
				Date	Time	Date	Time	Time					
1	SR	1. 220kV Idukki - Kalamessery ckt-1&2 2. 220kV Idukki - Lower Periyar ckt-1&2 3. 220kV Idukki - Udumalpet 4. Unit # 1, 2, 4, 5 and 6	KSEB	1-Oct-18	04:16	1-Oct-18	08:06	03:50	Complete Outage of 220kV Idukki Power Station: Triggering incident was R-N fault in 220kV Idukki Kalamessary line-2. R-phase pole of breaker didn't open at Idukki end. LBB operated due to stuck breaker condition resulting in tripping of all connected elements at Bus-2 along with running unit#4 at Idukki. At the same time, 220kV Idukki Kalamessary line-1 also got tripped at Idukki end. Subsequently running units 1 and 2 also tripped on Governor oil Low Pressure due to loss of AC supply. This resulted in complete outage of Idukki PS.	125 MW	29 MW	GD-1	0.111
2	SR	All elements connected to 230kV Gummidipoondi	TANTRANSCO	5-Oct-18	00:42	5-Oct-18	03:10	02:28	Complete outage of 230kV Gummidipoondi Station: Triggering incident was B-phase fault at 230kV Gummidipoondi substation due to which 230kV Bus-1 Bus-bar protection operated. 230kV Gummidipoondi Station was under single bus operation, hence operation of Bus-bar protection resulted in tripping of all connected elements.	148 MW	22 MW	GD-1	0.058
3	SR	1. 230kV Tiruvalum - Tiruvalum ckt-1&2 2. 230kV Tiruvalum - Chittoor 3. 230kV Tiruvalum - Mosur 4. 230/110kV ICT-1,2,3,4	TANTRANSCO	5-Oct-18	14:32	5-Oct-18	15:00	00:28	Complete outage of 230kV Thiruvalam Substation: Bus-1 got tripped at 230kV Thiruvalam substation due to spurious LBB relay (independent) operation of 230kV Thiruvalam Chittoor line. 230kV Thiruvalam substation was under single bus operation; hence operation of LBB protection resulted in tripping of all connected elements resulting in the complete outage	----	244 MW	GD-1	0.105
4	SR	1. 765kV Srikakulam - Angul Ckt-1&2 2. 765kV Srikakulam - Vemagiri Ckt-1&2 3. 765/400kV ICT-1&2 at Srikakulam 4. 400kV Srikakulam - Maradam Ckt-1&2 5. 220kV Tekkali - Garividi Ckt-1&2	PGCIL & APTRANSCO	11-Oct-18	03:08	11-Oct-18	20:20	17:12	Complete outage of 765/400kV Srikakulam SS and 220kV Tekkali SS due to TITLI Cyclone: Due to heavy wind and rain, all connected elements of 765kV and 400kV Srikakulam substations got tripped subsequently from 22:21hrs on 10-10-2018 to 03:10hrs of 11-10-2018 resulting in the complete loss of supply. Due to tripping of 220kV Garividi Tekkali line 2 at 22:44hrs on 10-10-2018 and 220kV Garividi Tekkali line 1 at 04:15hrs on 11-10-2018 because of heavy rain and wind, there was complete loss of supply at 220kV Tekkali Station . This further resulted in the loss of supply to radially fed 132kV stations of Tekkali namely 132kV Naupada,132kV Palasa, 132kV Narasannapatna, 132kV Baruva and 132kV Pathapatnam substations of APTRANSCO.	----	100 MW	GD-1	----
	SR	1. 220kV Madakathra- Shornur 2. 220kV Madakathra - Palakkad 3. 220kV Madakathra - Lower periyar-2 4. 400/220kV, 315 MVA ICT-2 5. 220/110kV, 200MVA, ICT-2	KSEB	15-Oct-18	08:57	15-Oct-18	10:31	01:34	Multiple tripping at 220kV Madakathra station: Bus bar protection of bus-2 operated due to maloperation of bus bar relay resulting in tripping of all elements connected to bus-2.	----	----	GI-1	----

Eastern Region_ Grid Events for Oct-2018

Sl. No.	Region	Name of major elements	Owner / Agency	Outage		Revival		Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Category as per CEA Grid Standards	Loss of Energy(in MU)
				Date	Time	Date	Time	Time					
1	ERLDC	400 kV Binaguri - Rangpo - I	ISTS	1-Oct-18	15:41	1-Oct-18	16:16	00:35	At 15:41 hrs, 400 kV Binaguri - Rangpo - I tripped on R-N fault resulting generation loss at Teesta III, Jorethang, Dikchu, Chuiachen and Tashiding due to operation of SPS - I at Rangpo.	856	0	GI-II	0.0000
2	ERLDC	220 kV Hatia - Ranchi DC	JUSNL	3-Oct-18	17:23	3-Oct-18	18:17	00:54	220 kV PTPS - Hatia DC were under shutdown. 220 kV Hatia - Ranchi DC tripped from Hatia end due to suspected bus fault at Hatia	52	200	GD-1	0.1800
3	ERLDC	220 kV Hatia - Ranchi DC	JUSNL	4-Oct-18	00:18	4-Oct-18	00:56	00:38	220 kV PTPS - Hatia DC were under shutdown. 220 kV Hatia - Ranchi DC tripped from Hatia end due to suspected bus fault at Hatia	52	130	GD-1	0.0823
4	ERLDC	220 kV Purnea - Purnea DC 220 kV Purnea - Dalkhola DC	ISTS	7-Oct-18	16:56	7-Oct-18	17:40	00:44	220 kV Purnea - Purnea DC and 220 kV Purnea - Dalkhola DC tripped due to Y phase CVT failure of 220 kV Purnea - I at Purnea Old end	0	160	GD-1	0.1173
5	ERLDC	220 kV Purnea - Madhepura - II	BSPTCL	20-Oct-18	09:48	20-Oct-18	10:08	00:20	220 kV New Purnea-Madhepura I was kept open due to high voltage condition. At 09:48 hrs 220 kV Purnea - Madhepura - II tripped on R-N fault resulting total power failure at Madhepura.	0	62	GD-1	0.0207
6	ERLDC	220 kV TLDP-III - NJP	WBSETCL	27-Oct-18	10:24	27-Oct-18	10:46	00:22	At 10:24 Hrs, 220 kV TLDP-III - NJP tripped due to Y-B-N fault leading to tripping of all 4 units at TLDP III due to loss of evacuation path	134	0	GD-1	0.0000
7	ERLDC	1. 765KV 240MVAR Bus reactor-1 2. 765KV 240MVAR Bus reactor-2 3. 765KV Sundargarh-Angul Ckt-1 4. 765KV Sundargarh-darlipali(NTPC) Ckt-1 5. 765KV Sundargarh-darlipali(NTPC) Ckt-2	ISTS	31-Oct-18	23:52	1-Nov-18	00:50	00:58	During PLCC testing of new 765kV Sundargarh-Dharamjaygarh Ckt-4, 765KV Bus-2 along with following 765KV elements connected with the Bus were tripped at 23:52 hrs of 31.10.2018 due to mal-function of Tie LBB relay of 765KV Angul Ckt-1. 1. 765KV 240MVAR Bus reactor-1 2. 765KV 240MVAR Bus reactor-2 3. 765KV Sundargarh-Angul Ckt-1 4. 765KV Sundargarh-darlipali(NTPC) Ckt-1 5. 765KV Sundargarh-darlipali(NTPC) Ckt-2	0	0	GI-II	0.0000

NER_Grid Disturbances for October 2018

Sl. No.	Region	Name of Element	Owner / Agency	Outage		Revival		Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
				Date	Time	Date	Time							
1	NER	132 kV Lekhi - Pare Line	DoP, AP & POWERGRID	01-10-2018	06:39:00	01-Oct-18	07:39:00	01:00	Lekhi - Nirjuli area of Arunachal Pradesh Power System were connected with rest of NER Grid through 132 kV Lekhi - Pare Line. 132 kV Gohpur - Nirjuli line & 132 kV Lekhi - Itanagar line were kept opened for overloading of 132 kV Lekhi - Nirjuli Line. At 06:39 Hrs on 01.10.2018, 132 kV Lekhi - Pare Line tripped. Due to tripping of this element, Lekhi and Nirjuli area were separated from rest of NER Grid and subsequently collapsed due to no source in these areas.	0	37	0.000	0.037	GD-I
2	NER	132 kV Udaipur - Monarchak Line	TSECL	02-10-2018	11:22:00	02-10-2018	12:41:00	01:19	Monarchak Power Station and Rabindranagar area of Tripura Power System were connected with rest of NER Grid through 132 kV Udaipur -Monarchak Line. 132 kV Rokhia - Monarchak line was kept open at Rokhia end as 132 kV Agartala - Rokhia 1 Line was under shutdown for pre-puja maintenance work. At 11:22 Hrs on 02.10.2018, 132 kV Udaipur -Monarchak Line tripped. Due to tripping of this element, Monarchak Power Station and Rabindranagar area were separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in this area.	64	5	0.084	0.007	GD-I
3	NER	132 kV Lekhi - Nirjuli Line	DoP, AP & POWERGRID	10-Oct-2018	10:36:00	10-Oct-2018	10:52:00	00:16	Nirjuli area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Lekhi - Nirjuli Line. 132 kV Gohpur - Nirjuli line was kept opened for overloading of 132 kV Lekhi - Nirjuli Line. At 10:36 Hrs on 10.10.2018, 132 kV Lekhi - Nirjuli Line tripped. Due to tripping of this element, Nirjuli area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	11	0.000	0.003	GD-I
4	NER	132 kV Dimapur (PG) - Dimapur (DoP, Nagaland) 1 & 2 Lines	POWERGRID & DoP, Nagaland	10-Oct-2018	23:29:00	10-Oct-18	23:48:00	00:19	Dimapur area of Nagaland Power System was connected with rest of NER Grid through 132 kV Dimapur (PG) - Dimapur (DoP, Nagaland) 1 & 2 lines. At 23:29 Hrs on 10.10.2018, 132 kV Dimapur (PG)-Dimapur (DoP, Nagaland) 1 & 2 lines tripped. Due to tripping of these elements, Dimapur area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	31	0.000	0.021	GD-I
5	NER	132 kV Balipara - Khupi Line	NEEPCO & DoP, AP	13-Oct-2018	15:46:00	13-Oct-2018	16:22:00	00:36	Khupi area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Balipara- Khupi line. At 15:46 Hrs on 13.10.2018, 132 kV Balipara-Khupi line tripped. Due to tripping of this element, Khupi area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	15	0.000	0.021	GD-I
6	NER	132 kV Dimapur (PG) - Kohima Line	POWERGRID & DoP, Nagaland	15-Oct-2018	09:52:00	15-Oct-2018	10:01:00	00:09	Capital area of Nagaland Power System was connected with rest of NER Grid through 132 kV Dimapur(PG) - Kohima (DoP, Nagaland) line. 132 kV Karong - Kohima line kept idle charged from Kohima (due to overloading of 132 kV Dimapur (PG) - Kohima Line), 132 kV Wokha - Kohima line was under outage since 09:52 Hrs on 15.10.2018 and 66 kV Tuensang - Likhimro line kept open (Cause : construction activities). At 09:52 Hrs on 15.10.2018, 132 kV Dimapur(PG) - Kohima (DoP, Nagaland) line tripped. Due to tripping of this element, Capital area was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in this area.	21	14	0.003	0.004	GD-I
7	NER	132 kV Badarpur - Panchgram Line & 132 kV Hailakandi - Panchgram Line	POWERGRID & AEGCL	18-Oct-2018	10:12:00	18-Oct-2018	10:20:00	00:08	Panchgram area of Assam Power System was connected with rest of NER Grid through 132 kV Badarpur - Panchgram line and 132 kV Hailakandi - Panchgram line. 132 kV Srikona-Panchgram line kept idle charged due to Tower collapsed and 132 kV Lumshong - Panchgram line kept open for satisfying the condition of SPS-1 operation. At 10:12 Hrs on 18.10.2018, 132 kV Badarpur - Panchgram line and 132 kV Hailakandi - Panchgram line tripped. Due to tripping of these elements, Panchgram area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	25	0.000	0.003	GD-I
8	NER	132 kV Dimapur (PG) - Kohima Line	POWERGRID & DoP, Nagaland	20-Oct-2018	03:56:00	20-Oct-2018	04:20:00	00:24	Capital area of Nagaland Power System was connected with rest of NER Grid through 132 kV Dimapur(PG) - Kohima (DoP, Nagaland) line. 132 kV Karong - Kohima line kept idle charged from Kohima end (due to overloading of 132 kV Dimapur (PG) - Kohima Line), 132 kV Wokha - Kohima line was kept open (Cause : improper relay co-ordination of 132 kV Dimapur - Kohima - Wokha link) and 66 kV Tuensang - Likhimro line kept open (Cause : construction activities). At 03:56 Hrs on 20.10.2018, 132 kV Dimapur(PG) - Kohima (DoP, Nagaland) line tripped. Due to tripping of this element, Capital area was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in this area.	16	15	0.006	0.008	GD-I

Sl. No.	Region	Name of Element	Owner / Agency	Outage		Revival		Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
				Date	Time	Date	Time							
9	NER	132 kV Dimapur (PG) - Kohima Line	POWERGRID & DoP, Nagaland	22-Oct-18	10:15:00	22-Oct-18	10:34:00	00:19	Capital area of Nagaland Power System was connected with rest of NER Grid through 132 kV Dimapur(PG) - Kohima (DoP, Nagaland) line. 132 kV Karong - Kohima line kept idle charged from Kohima (due to overloading of 132 kV Dimapur (PG) - Kohima Line). 132 kV Wokha - Kohima line was kept open (Cause : improper relay co-ordination of 132 kV Dimapur - Kohima - Wokha link) and 66 kV Tuensang - Likhimro line kept open (Cause : construction activities). At 10:15 Hrs on 22.10.2018, 132 kV Dimapur(PG) - Kohima (DoP, Nagaland) line tripped. Due to tripping of this element, Capital area was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in this area.	4	19	0.001	0.006	GD-I
10	NER	132 kV Badarpur - Panchgram line and 132 kV Hailakandi - Panchgram line	POWERGRID & AEGCL	27-Oct-18	12:25:00	27-Oct-2018	12:30:00	00:05	Panchgram area of Assam Power System was connected with rest of NER Grid through 132 kV Badarpur - Panchgram line and 132 kV Hailakandi - Panchgram line. 132 kV Srikona-Panchgram line kept idle charged due to Tower collapsed and 132 kV Lumshnong - Panchgram line kept open for satisfying the condition of SPS-1 operation. At 12:25 Hrs on 27.10.2018, 132 kV Badarpur - Panchgram line and 132 kV Hailakandi - Panchgram line tripped. Due to tripping of these elements, Panchgram area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	25	0.000	0.002	GD-I

NER_List of Grid Incidents during October 2018

S.No	Region	State(s) Involved	Name of Elements	Owner / Agency	Outage		Revival		Outage Duration	Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserviced (MU)	Category as per CEA Grid Standards
					Date	Time	Date	Time						
1	NER	AGTCCPP	AGTCCPP Unit 3 & STG-2	NEEPCO	05-Oct-18	16:01:00	05-Oct-18	16:45:00	00:44:00	AGTCCPP Unit 3 & AGTCCPP STG-2 tripped at 16:01 Hrs on 05.10.2018 due to over frequency. (Revision of schedule from Block No.68 on 05.10.2018).	28	0	0.021	GI-I
2	NER	AGBPP	AGBPP Unit 7	NEEPCO	05-Oct-18	22:42:00	05-Oct-18	23:30:00	00:48:00	AGBPP Unit 7 tripped at 22:42 Hrs on 05.10.2018 due to auxiliary power supply failure. (Revision of schedule from Block No.95 on 05.10.2018).	26	0	0.021	GI-II
3	NER	Palatana	Palatana GTG 1 & 2 and STG 1 & 2	OTPC	17-Oct-2018	09:00:00	17-Oct-2018	09:15:00	00:15:00	Palatana GTG 1 & 2 and STG 1 & 2 tripped at 09:00 Hrs on 17.10.17 due to over frequency. (Revision of schedule from Block No. 37 on 17.10.18).	558	0	0.139	GI-II
4	NER	BgTPP	BgTPP Unit 2	NTPC	20-Oct-2018	08:11:00	20-Oct-2018	09:15:00	01:04:00	BgTPP Unit 2 tripped at 08:11 Hrs on 20.10.18 due to boiler furnace high temperature. (Revision of schedule from Block No. 37 on 20.10.18).	190	0	0.155	GI-II
5	NER	BgTPP	BgTPP Unit 2	NTPC	20-Oct-2018	13:57:00	20-Oct-2018	14:45:00	00:48:00	BgTPP Unit 2 tripped at 13:57 Hrs on 20.10.18 due to mainstream temperature low. (Revision of schedule from Block No. 60 on 20.10.18).	51	0	0.041	GI-II
6	NER	Kopili	Kopili Unit 4	NEEPCO	25-Oct-18	10:50:00	25-Oct-18	11:45:00	00:55:00	Kopili Unit 4 tripped at 10:50 Hrs on 25.10.18 due to Rotor earth fault. (Revision of schedule from Block No. 48 on 25.10.18).	42	0	0.039	GI-II
7	NER	Pare	Pare Unit 2	NEEPCO	26-Oct-18	09:02:00	26-Oct-18	09:30:00	00:28:00	Pare Unit 2 tripped at 09:02 Hrs on 26.10.18 due to Under Excitation. (Revision of schedule from Block No. 39 on 26.10.18).	55	0	0.026	GI-I
8	NER	AGTCCPP	AGTCCPP Unit 2	NEEPCO	30-Oct-18	13:02:00	30-Oct-18	14:00:00	00:58:00	AGTCCPP Unit 2 tripped at 13:02 Hrs on 30.10.18 due to under voltage. (Revision of schedule from Block No. 57 on 30.10.18).	19	0	0.016	GI-I