

State Load Despatch Center,Airoli (MSETCL) Statement I
Daily system Report for 13/Apr/2017 THURSDAY

I GENERATION (MUs)			II EXCHANGES (MUs)		
A) MSPGCL	Daily	Monthly	E) InterState Exchanges	Daily	Monthly
1) Thermal	174.045	2020.517	1) Gujrat	-0.882	16.478
2) Hydro	13.018	189.850	2) Madhya Pradesh	10.265	134.066
3) Gas	10.490	128.918	3) Chattisgarh	6.150	58.540
Total MSPGCL	197.553	2339.285	4) Maharashtra Net	133.628	1698.530
B) 1) APML	52.331	602.428	5) Goa (Amona)	-0.550	-8.028
2) JSWEL	25.458	276.805	Total	148.611	1899.586
3) VIPL	0.926	162.137	a) Mumbai Schedule	23.341	322.332
4) RPL(AMT)	19.529	334.434	b) Mumbai Drawl	31.408	360.827
5) WPCL	4.454	55.682	c) MSEDCL Bilateral *	34.304	449.428
6) PGPL	0.000	0.000	Include PX	-0.832	28.392
7) Other IPP	3.427	49.127	d) Mumbai Bilateral *	23.341	322.332
C) 1) TPCL Thermal	15.658	200.496	Include PX	11.201	46.202
2) TPCL Hydro	5.133	49.208	Include Standby	0.000	0.000
3) TPCL Gas	4.487	58.739	H) ENERGY CATERED (MUs)		
4) R-INFRA Thermal	11.478	146.758	1) MSEDCL	428.435	5536.553
D) STATE			2) Mumbai Discoms	68.164	816.041
1) Thermal	307.306	3848.384	TOTAL STATE	496.599	6352.594
(A1+C1+C4+(B1-B6))					
2) Hydro	18.151	239.058			
(A2+C2)					
3) Gas	14.977	187.657			
(A3+B6+C3)					
4) Wind	6.101	158.722			
6) SOLAR	1.453	19.174			
TOTAL STATE	347.988	4452.995			

* Displayed for information, not added in total.

DETAILS OF MAHARASHTRA STATE PEAK DEMAND(MW) Statement II

PARTICULARS	A. Morning Peak at 12 Hrs	B. Day Peak at 16 Hrs	C. Evening Peak at 20 Hrs	D. Night Minimum at 4 Hrs
MSPGCL Thermal	7415	7583	7244	7299
MSPGCL Hydro	710	1006	336	193
MSPGCL Gas	420	426	439	450
MSPGCL Total Generation	8545	9015	8019	7942
Central Sector Receipt	6985	6955	5853	5613
WIND	94	156	264	307
CPP / IPP Thermal	4336	4556	4790	4026
CPP / IPP Gas	0	0	0	0
SOLAR	197	131	0	0
Exchange with Mumbai	-1590	-1530	-1513	-929
MSEDCL DEMAND MET	18567	19283	17413	16959
Load Shedding	0	0	0	0
MSEDCL DEMAND	18567	19283	17413	16959
TPCL GENERATION	1330	1377	1085	698
R-INFRA GENERATION	497	497	457	507
MUMBAI DEMAND	3417	3404	3055	2134
STATE DEMAND MET	21984	22687	20468	19093
STATE DEMAND	21984	22687	20468	19093
Frequency (Hz)	49.96	49.94	49.95	49.92

FREQUENCY PARTICULARS

MAXIMUM FREQ.	MINIMUM FREQ.	AVERAGE FREQ.	FREQ. BELOW 49.2 Hz
50.14 Hz at 09.36 Hrs	49.75 Hz at 19.15 Hrs	49.94	0 % of Time(min)

Note : The report is based on Operational Data and is for statistical purpose only.

Shift Engineer

Shift Incharge

Daily and Progressive Generation,Maximum,Minimum for 13/Apr/2017

Generating unit	Generation			
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)
Koradi				
Unit 5	0.00	0.00	0	0
Unit 6	0.00	0.00	0	0
Unit 7	3.82	49.53	165	155
Unit 8	14.04	165.29	620	500
Unit 9	14.38	172.22	612	572
Unit 10	9.60	16.02	525	193
Total	41.84	403.05		
Bhusawal				
Unit 2	0.00	0.00	0	0
Unit 3	3.30	53.52	160	0
Unit 4	9.28	127.54	405	355
Unit 5	9.27	127.98	420	355
Total	21.86	309.03		
Parli				
Unit 4	0.00	0.00	0	0
Unit 5	0.00	0.00	0	0
Unit 6	5.96	75.55	250	241
Unit 7	5.92	51.35	252	223
Unit 8	2.81	6.22	195	0
Total	14.70	133.12		
Chandrapur				
Unit 3	3.16	60.13	202	0
Unit 4	4.68	60.87	199	190
Unit 5	10.71	101.72	455	430
Unit 6	9.64	132.84	416	380
Unit 7	0.00	0.00	0	0
Unit 8	7.67	106.67	360	0
Unit 9	11.34	121.65	500	378
Total	47.20	583.88		
Paras				
Unit 3	5.98	76.89	255	219
Unit 4	5.81	61.13	254	157
Total	11.79	138.02		
Khaparkheda				
Unit 1	4.07	51.73	175	155
Unit 2	4.26	52.51	185	170
Unit 3	4.60	53.96	196	175
Unit 4	4.29	52.01	181	170
Unit 5	10.54	136.72	500	250
Total	27.77	346.93		
Nasik				
Unit 3	0.00	36.00	0	0
Unit 4	4.49	16.54	200	155
Unit 5	4.40	53.95	202	164
Total	8.89	106.49		
Uran				
All Units	10.49	128.92	461	407
Total	10.49	128.92		
PGPL				
Unit 1	0.00	0.00	0	0
Unit 2	0.00	0.00	0	0
Total	0.00	0.00		

Generating unit	Generation			
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)
PENCH (MS)				
Pench (MS)	0.03	1.03	21	0
Total	0.03	1.03		
Koyna				
Stage 1-2	4.64	57.26	555	40
Stage 4	4.16	59.65	500	0
Stage 3	2.29	26.58	160	0
Total	11.10	143.49		
Hydro				
KDPH	0.74	7.46	31	30
VTRNA	0.00	9.07	0	0
TILLARI	0.00	1.70	0	0
BHTGR/VEER	0.00	0.00	0	0
BHIRA T.R.	0.30	2.60	80	0
RNGR+BHTSA	0.00	3.39	0	0
BHANDARDRA	0.51	6.55	22	21
ELDARY	0.00	0.00	0	0
SMLHY_PTN	0.37	7.07	16	15
GHATGHAR	0.00	8.52	0	0
Total	1.92	46.36		
Wind				
Total	6.10	158.72	0	0
Total	6.10	158.72		
CPP				
APML(Mus)	52.33	602.43	0	0
JSWEL(Mus)	25.46	276.80	0	0
VIPL(Mus)	0.93	162.14	0	0
RPLAMT(Mus)	19.53	334.43	0	0
WPCL(Mus)	4.45	55.68	0	0
Other(Mus)	3.43	49.13	0	0
Total	106.12	1480.61		
SOLAR				
Total	1.45	19.17	0	0
Total	1.45	19.17		
Tata				
Trombay 5	10.30	131.10	493	309
Trombay 6	0.00	0.00	0	0
Trombay 7A	2.89	37.78	122	117
Trombay 7B	1.60	20.96	67	66
Trombay 8	5.36	69.40	244	199
TATA Hydro	5.13	49.21	459	0
Total	25.28	308.44		
R-INFRA				
DTPS U-1&2	11.48	146.76	508	388
Total	11.48	146.76		

* Infirm Power			Summary			Summary		
Particulars	Daily (Mus)	Monthly	Particulars	Daily (Mus)	Monthly (Mus)	Particulars	Daily (Mus)	Monthly (Mus)
			MSPGCL Thermal	174.04	2020.52	MSPGCL Total	197.55	2339.28
			MSPGCL Thml+Gas	184.54	2149.44	Koyna 1,2 & 4 Total	8.80	116.91
			MSPGCL Hydro	13.02	189.85	State Total	347.99	4453.00

State Load Despatch Center,Airoli (MSETCL)

Annexure-2

Hourly Load Data As on 13/Apr/2017

TIME SR. NO.	MSPGCL GEN.			TOTAL	WIND	CPP / IPP		SOLAR	CS SHARE	CS RECPT	Mum. NET EXCH.	MSEDCL DEM. MET	LOAD SHEDDI NG	MSEDCL DEM. WITH LS	MUMBAI DEMAND	STATE DEMAND	FREQ. (Hz)
	THM	HY	GAS			THM	GAS										
1	7321	748	448	8517	375	4447	0	0	5717	5504	-1186	17657	0	17657	2722	20379	49.92
2	7219	464	450	8133	362	4440	0	0	5634	5561	-914	17582	0	17582	2420	20002	49.88
3	7237	193	440	7870	331	4194	0	0	5854	5842	-956	17281	0	17281	2258	19539	49.90
4	7299	193	450	7942	307	4026	0	0	5755	5613	-929	16959	0	16959	2134	19093	49.92
5	7294	193	459	7946	235	3958	0	0	5705	5837	-870	17106	0	17106	2089	19195	49.91
6	7225	441	451	8117	307	3967	0	0	5716	6127	-736	17782	0	17782	2114	19896	49.89
7	7079	1288	444	8811	328	3896	0	5	5787	5705	-721	18024	0	18024	2175	20199	49.97
8	7041	1068	453	8562	182	3963	0	39	6326	6238	-786	18198	0	18198	2246	20444	49.96
9	7043	844	461	8348	82	4040	0	98	6564	6577	-1111	18034	0	18034	2620	20654	49.97
10	7289	523	427	8239	31	4355	0	140	6560	5585	-1345	17005	0	17005	2936	19941	49.98
11	7286	113	423	7822	49	4308	0	173	6701	6331	-1510	17173	0	17173	3270	20443	49.96
12	7415	710	420	8545	94	4336	0	197	7006	6985	-1590	18567	0	18567	3417	21984	49.96
13	7462	878	407	8747	131	4497	0	186	7016	6937	-1627	18871	0	18871	3425	22296	49.97
14	7474	865	408	8747	123	4547	0	200	6803	6693	-1557	18753	0	18753	3317	22070	49.97
15	7537	767	419	8723	128	4559	0	170	6682	6764	-1522	18822	0	18822	3393	22215	49.91
16	7583	1006	426	9015	156	4556	0	131	6687	6955	-1530	19283	0	19283	3404	22687	49.94
17	7379	748	437	8564	232	4737	0	81	6710	7093	-1540	19167	0	19167	3332	22499	49.97
18	7265	275	424	7964	219	4669	0	31	6506	6747	-1732	17898	0	17898	3245	21143	49.96
19	7353	215	426	7994	197	4519	0	2	6276	5789	-1633	16868	0	16868	3038	19906	49.98
20	7244	336	439	8019	264	4790	0	0	6069	5853	-1513	17413	0	17413	3055	20468	49.95
21	7126	282	440	7848	355	4836	0	0	5863	5774	-1523	17290	0	17290	2988	20278	49.95
22	7088	272	448	7808	469	4734	0	0	5611	5718	-1477	17252	0	17252	2846	20098	49.94
23	6931	205	433	7569	535	4775	0	0	6116	6261	-1546	17594	0	17594	2848	20442	49.91
24	6855	391	457	7703	609	4975	0	0	6141	6122	-1554	17855	0	17855	2872	20727	49.94
MUs	174.04	13.02	10.49	197.55	6.10	106.13	0.00	1.45	149.80	148.61	-31.41	428.44	0.00	428.44	68.16	496.60	49.94

NOTE : ALL VALUES IN MW

Mumbai Net Exch is shown with reference to MSETCL system and (-) sign indicates MSETCL periphery to Mumbai system.

State Load Despatch Center,Airoli (MSETCL) Statement-VI
Details of Generating Unit Outages/Trippings for 13/Apr/2017

Position as on 6.30 Hrs of 14/Apr/2017

Generating Company	Name of Generating Unit	Capacity	Tripped Date	Tripped Time	Sync.Date	Sync. Time	Reason of Outage	Expected Date
PLANNED OUTAGE								
TPC-G	Trombay 6	500	15/07/2015	17.08		Continued.	Economic shutdown,(AOH for 06.03.2016 To 04.04.2016) Unit Test synch.07.04.2016 (12.03 To 12.30hrs)After overhaul	
MSPGCL	Chandrapur Unit 7	500	25/01/2017	19.32		Continued.	Turbine Problem, continued under COH	
FORCED OUTAGE								
RGPL	Dabhol 1B	230	28/05/2013	22:02		Continued.	Gas Shortage.	
RGPL	Dabhol 1X	290	27/06/2013	21.46		Continued.	Gas Shortage	
RGPL	Dabhol 1A	230	27/06/2013	21.47		Continued.	Gas Shortage	
IPP	Dhariwal	300	28/05/2014	02.27		Continued.	No PPA.	
MSPGCL	Koradi Unit 6	210	09/07/2015	00.00		Continued.	EE R&M LE Work	
IPP	SWPGL U-1	135	16/02/2016	17.09		Continued.	No PPA.	
IPP	SWPGL U-2	135	29/02/2016	21.46		Continued.	No PPA	
MSPGCL	Parli Unit 4	210	01/04/2016	00.00		Continued.	Economic shutdown	
MSPGCL	Parli Unit 5	210	01/04/2016	00.00		Continued.	Economic shutdown	
MSPGCL	Bhusawal Unit 2	210	14/06/2016	19.35		Continued.	Boiler Tube Leakage(Converted to Zero Shedule By MSEDCL. from 00.00Hrs dt.19-6-16)	
MSPGCL	Uran Unit 8	108	14/08/2016	07.56		Continued.	Maintenance work	
RGPL	Dabhol 2A	230	24/08/2016	13.31		Continued.	Change Over.	
MSPGCL	Koradi Unit 5	200	05/09/2016	00.21		Continued.	ID Fan problem, Converted to Zero Schedule By MSEDCL from 00.00hrs/22-9-16. Shutdown taken on 18.10.2016 at 00:00Hrs for Turbine inspection and maintenance work	
PGPL	PGPL U1	262	07/02/2017	17.30		Continued.	No Schedule	
PGPL	PGPL U2	126	07/02/2017	17.30		Continued.	No Schedule	
MSPGCL	Koyna STG- IV Unit - 1	250	17/03/2017	10.45		Continued.	Turbine bearing Vabration high	
IPP	Adani U-3	660	03/04/2017	01.22	13/04/2017	20.06	Reduction in Hydrogen Pressure.	
IPP	Adani U-1	660	04/04/2017	12.52	13/04/2017	07.16	Bearing vibration high	
MSPGCL	Nasik Unit 3	210	09/04/2017	15.50		Continued.	tripped on boiler feed pump problem.	
IPP	VIPL U-2	300	11/04/2017	22.36	14/04/2017	03.03	Boiler Tube Leakage	
MSPGCL	Parli Unit 8	250	13/04/2017	00.53	13/04/2017	04.20	Drum level low	
IPP	VIPL U-1	300	13/04/2017	03.34		Continued.	Boiler Tube Leakage	
MSPGCL	Bhusawal Unit 3	210	13/04/2017	07.17	13/04/2017	09.17	Furnace draft very low.	
MSPGCL	Parli Unit 8	250	13/04/2017	08.03	13/04/2017	10.44	Vacumme pressure low.	
MSPGCL	Chandrapur Unit 3	210	13/04/2017	15.45	14/04/2017	03.07	turbine protection operated.	
MSPGCL	Chandrapur Unit-8	500	13/04/2017	22.03	14/04/2017	02.09	Drum level high.	

State Load Despatch Center,Airoli (MSETCL) Statement-VI
Details of Generating Unit Outages/Trippings for 13/Apr/2017

Position as on 6.30 Hrs of 14/Apr/2017

Generating Company	Name of Generating Unit	Capacity	Tripped Date	Tripped Time	Sync.Date	Sync. Time	Reason of Outage	Expected Date
MSPGCL	Parli Unit 8	250	14/04/2017	02.45		Continued.	Low vaccume.	

State Load Despatch Center,Airoli (MSETCL)
Details of Line outages/Trippings for 13/Apr/2017

Statement-VII

Position as on 6.30 Hrs of 14/Apr/2017

Name of Line	Inter State / Intra State	Tripped Date	Tripped Time	Sync. Date	Sync. Time	Outage Type	Reason of Outage
765 KV LINE Outages/Trippings							
Koradi III - Akola II- ckt-II	IntraState	13/04/2017	15.34	13/04/2017	16.26	T	Distance Protection
500 KV LINE Outages/Trippings							
Chandrapur - Padghe Hvdc Pole 2	IntraState	13/04/2017	01.14	13/04/2017	03.58	PO	TRANSFORMER MCB REPLACEMENT WORK.
400 KV LINE Outages/Trippings							
Kolhapur Solapur (PG) II	InterState	11/04/2017	10.30		Continued.	EO	Taken on TBC to Attend Hot Spot.
Ektuni-Bableshwar ckt I	IntraState	12/04/2017	19.02	13/04/2017	00.54	HT	TO AVAIL 400KV KALWA-PADGHA-2 OUTAGE.
Padghe - Kalwa-II	IntraState	12/04/2017	19.16	13/04/2017	00.45	T	Decapped Insulator String Replacement.
Chandrapur II - Chandrapur ckt I	IntraState	13/04/2017	09.46	13/04/2017	20.41	PO	Attending Hot Spot
400 KV ICT Outages/Trippings							
400/220 KV 500 MVA ICT- II @Warora	IntraState	27/03/2017	12.58		Continued.	PO	Dismantling Work And Will Be Transport At Padgha.
400/220 Kv 315 Mva ICT -I @Padghe	IntraState	13/04/2017	02.34	13/04/2017	09.29	T	B-PHASE 220KV SIDE CT BURST.
400/220 Kv 600 MVA ICT-IV @Padghe	IntraState	13/04/2017	04.33	13/04/2017	04.51	T	OVER LOADING.
400/220kv 315 Mva ICT III @Karad	IntraState	13/04/2017	09.37	13/04/2017	10.23	T	Backup o/c optd
400/220 Kv 500 MVA ICT 3 @Kolhapur	IntraState	13/04/2017	09.37	13/04/2017	10.15	T	Backup o/c optd.
400/220kv 315MVA ICT 2 @ Kolhapur	IntraState	13/04/2017	09.37	13/04/2017	10.07	T	Backup o/c optd.
400/220kv 315 Mva ICT II @Karad	IntraState	13/04/2017	09.37	13/04/2017	10.20	T	Backup o/c optd
400/220kv 315 Mva ICT I @Karad	IntraState	13/04/2017	09.37	13/04/2017	11.58	T	Backup o/c optd
400/220kv 315 MVA ICT I @ Kolhapur	IntraState	13/04/2017	09.37	13/04/2017	10.03	T	Overload trip.
220 KV LINE Outages/Trippings							
Talandge Chikodi	InterState	13/04/2017	09.37	13/04/2017	11.16	T	Load thrown off due to tripping of ICTs at Kolhapur.
Talandage - Chikodi	InterState	13/04/2017	09.59	13/04/2017	11.16	HT	Hand tripped as all three ict tripped at talangade.
Chandrapur GCR - Warora - I	IntraState	05/04/2015	09.13		Continued.	PO	Bunching of conductor Loc no 86 Disconnecting of jumer at Loc no 86 & 107 and de-energising the line bet.86 to 107.
Chandrapur GCR - Wani	IntraState	05/04/2015	09.15		Continued.	PO	Bunching of conductor Loc no 86 Disconnecting of jumer at Loc no 86 & 107 and de-energising the line bet.86 to 107.
Trombay MSETCL Tie 1	IntraState	05/04/2017	12.33		Continued.	PO	Relay and scada panel replacement
Kandalgaon - Koyna	IntraState	13/04/2017	04.57	13/04/2017	10.25	T	Distance Protection
Mahad - Pedambe	IntraState	13/04/2017	05.05	13/04/2017	09.01	T	Distance Protection
Pedhambe - Oni	IntraState	13/04/2017	09.04	13/04/2017	15.30	PO	Attending Hot Spot
Phursungi-Parvati	IntraState	13/04/2017	09.10	13/04/2017	13.27	PO	Routine Maintenance Work
Halkarni - Tillari II	IntraState	13/04/2017	09.27	13/04/2017	16.28	T	Tripped due to overloading.
Karad(400kv) -Mudshingi Ckt 2-Tak	IntraState	13/04/2017	09.37	13/04/2017	12.13	T	Due to tripping of ICTs at karad all 220KV load thrown off.
Karad(400kv) -Nigade	IntraState	13/04/2017	09.37	13/04/2017	12.09	T	Due to tripping of ICTs at karad all 220KV load thrown off.
Karad - Kadegaon	IntraState	13/04/2017	09.37	13/04/2017	10.31	T	Due to tripping of ICTs at karad all 220KV load thrown off.
Karad - Vita Ckt- II	IntraState	13/04/2017	09.37	13/04/2017	10.35	T	Due to tripping of ICTs at karad all 220KV load thrown off.
Karad - Vita Ckt- I	IntraState	13/04/2017	09.37	13/04/2017	10.41	T	Due to tripping of ICTs at karad all 220KV load thrown off.
Karad(400kv) - Wathar	IntraState	13/04/2017	09.37	13/04/2017	12.04	T	Due to tripping of ICTs at karad all 220KV load thrown off.

HT : Hand Tripping, MT : Multiple Tripping, T : Tripping, PO : Planned Outage, EO : Emergency Outage, OO : Opportunity Outage

State Load Despatch Center,Airoli (MSETCL)
Details of Line outages/Trippings for 13/Apr/2017

Statement-VII

Position as on 6.30 Hrs of 14/Apr/2017

Name of Line	Inter State / Intra State	Tripped Date	Tripped Time	Sync. Date	Sync. Time	Outage Type	Reason of Outage
Karad -Mudshingi Ckt- IV	IntraState	13/04/2017	09.37	13/04/2017	12.03	T	Due to tripping of ICTs at karad all 220KV load thrown off.
karad - Dasgaon	IntraState	13/04/2017	09.37	13/04/2017	10.53	T	Due to tripping of ICTs at karad all 220KV load thrown off.
Karad-Nerle	IntraState	13/04/2017	09.37	13/04/2017	10.47	T	Due to tripping of ICTs at karad all 220KV load thrown off.
Talandge(400)- Mudshingi 2 Line	IntraState	13/04/2017	09.55	13/04/2017	10.21	HT	Hand tripped as all three ict tripped at talangade.
Kolhapur-Bidri	IntraState	13/04/2017	09.56	13/04/2017	10.27	HT	Hand tripped as all three ict tripped at talangade.
Talandge(400kv)- Ichalkaranji 1	IntraState	13/04/2017	09.57	13/04/2017	10.23	HT	Hand tripped as all three ict tripped at talangade.
Talandge-Hamidwada	IntraState	13/04/2017	09.57	13/04/2017	10.17	HT	Hand tripped as all three ict tripped at talangade.
Talandage(kolh'r)- Sawantwadi II	IntraState	13/04/2017	09.58	13/04/2017	10.30	HT	Hand tripped as all three ict tripped at talangade.
Talandge(400kv)- Ichalkaranji 2	IntraState	13/04/2017	09.58	13/04/2017	10.32	HT	Hand tripped as all three ict tripped at talangade.
Talandage(400kv) - Five Star Midc	IntraState	13/04/2017	10.00	13/04/2017	10.12	HT	Hand tripped as all three ict tripped at talangade.
Talandge-Mudshingi Ckt-I	IntraState	13/04/2017	10.00	13/04/2017	10.09	HT	Hand tripped as all three ict tripped at talangade.
Uran - Kharghar 2	IntraState	13/04/2017	10.05	13/04/2017	15.55	PO	replacement of insulator string
Vsnl-512 Khadki	IntraState	13/04/2017	10.11	13/04/2017	16.22	PO	Routine Maintenance Work
Trombay - Kalwa	IntraState	13/04/2017	11.51	13/04/2017	12.05	PO	To remove metallic wire at loc 19.
Karad - Vita Ckt- I	IntraState	13/04/2017	17.29	13/04/2017	18.57	PO	Routine Maintenance Work
Karad(400kv) - Wathar	IntraState	13/04/2017	21.00	13/04/2017	22.10	T	Tripped only from wather end.
Karad(400kv) - Wathar	IntraState	14/04/2017	05.46		Continued.	T	Tripped only from wather end.
220 KV ICT Outages/Trippings							
220/100 Kv 200 MVA ICT III @Borivali	IntraState	21/09/2014	09.16		Continued.	T	Failed on internal Fault(Now repaired and ready for commissioning)

HT : Hand Tripping, MT : Multiple Tripping, T : Tripping, PO : Planned Outage, EO : Emergency Outage, OO : Opportunity Outage