

State Load Despatch Center, Airoli (MSETCL) Statement I
Daily system Report for 05/Jan/2019 SATURDAY

I GENERATION (MUs)			II EXCHANGES (MUs)		
A) MSPGCL	Daily	Monthly	E) InterState Exchanges	Daily	Monthly
1) Thermal	146.761	700.103	1) Gujrat	1.046	10.370
2) Hydro	6.071	32.876	2) Madhya Pradesh	6.212	32.696
3) Gas	4.316	33.371	3) Chattisgarh	3.910	20.910
Total MSPGCL	157.148	766.350	4) Maharashtra Net	90.679	441.347
B) 1) APML	68.901	347.466	5) Goa (Amona)	-0.110	-1.034
2) JSWEL	23.911	112.559	Total	101.737	504.289
3) VIPL	5.463	27.153	a) Mumbai Schedule	15.452	85.690
4) RPL(AMT)	0.000	0.000	b) Mumbai Drawl	20.673	106.249
5) WPCL	0.000	0.000	c) MSEDCL Bilateral *	14.031	57.079
6) PGPL	0.000	0.000	Include PX	-4.211	-31.295
7) Other IPP	16.086	80.438	d) Mumbai Bilateral *	15.452	85.690
C) 1) TPCL Thermal	13.497	65.384	Include PX	-0.558	0.292
2) TPCL Hydro	2.680	15.784	Include Standby	0.000	0.000
3) TPCL Gas	4.408	21.577	H) ENERGY CATERED (MUs)		
4) R-INFRA Thermal	4.925	23.974	1) MSEDCL	364.887	1789.624
D) STATE			2) Mumbai Discoms	46.183	232.968
1) Thermal	279.544	1357.077	TOTAL STATE	411.070	2022.592
(A1+C1+C4+(B1-B6))					
2) Hydro	8.751	48.660			
(A2+C2)					
3) Gas	8.724	54.948			
(A3+B6+C3)					
4) Wind	6.609	28.876			
6) SOLAR	5.705	28.742			
TOTAL STATE	309.333	1518.303			

* Displayed for information, not added in total.

DETAILS OF MAHARASHTRA STATE PEAK DEMAND(MW) Statement II

PARTICULARS	A. Morning Peak at 11 Hrs	B. Day Peak at 13 Hrs	C. Evening Peak at 19 Hrs	D. Night Minimum at 2 Hrs
MSPGCL Thermal	6758	6679	6338	5406
MSPGCL Hydro	502	372	158	94
MSPGCL Gas	156	149	154	159
MSPGCL Total Generation	7416	7200	6650	5658
Central Sector Receipt	5317	4738	4389	3382
WIND	249	205	121	240
CPP / IPP Thermal	5444	5328	5194	3909
CPP / IPP Gas	0	0	0	0
SOLAR	731	871	0	0
Exchange with Mumbai	-1141	-1119	-1022	-511
MSEDCL DEMAND MET	18016	17224	15332	12678
Load Shedding	0	0	0	0
MSEDCL DEMAND	18016	17224	15332	12678
TPCL GENERATION	1008	1008	1068	686
R-INFRA GENERATION	251	253	190	191
MUMBAI DEMAND	2400	2380	2280	1388
STATE DEMAND MET	20416	19604	17612	14066
STATE DEMAND	20416	19604	17612	14066
Frequency (Hz)	49.98	49.99	50.02	49.94

FREQUENCY PARTICULARS

MAXIMUM FREQ.	MINIMUM FREQ.	AVERAGE FREQ.	FREQ. BELOW 49.2 Hz
50.23 Hz at 06.02 Hrs	49.75 Hz at 11.50 Hrs	50	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 05/Jan/2019

Generating unit	Generation			
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)
Koradi				
Unit 6	0.00	0.00	0	0
Unit 7	3.65	18.48	160	125
Unit 8	0.00	0.00	0	0
Unit 9	12.45	54.60	660	451
Unit 10	11.69	48.76	526	460
Total	27.79	121.83		
Bhusawal				
Unit 3	0.00	0.00	0	0
Unit 4	10.05	49.78	500	350
Unit 5	10.13	49.65	500	350
Total	20.18	99.43		
Parli				
Unit 4	0.00	0.00	0	0
Unit 5	0.00	0.00	0	0
Unit 6	0.00	0.00	0	0
Unit 7	0.00	0.00	0	0
Unit 8	4.71	24.44	214	148
Total	4.71	24.44		
Chandrapur				
Unit 3	4.08	21.09	185	162
Unit 4	2.06	17.54	160	0
Unit 5	9.32	46.34	410	363
Unit 6	9.62	46.57	455	195
Unit 7	9.44	46.12	417	359
Unit 8	10.22	51.48	475	360
Unit 9	10.43	52.70	485	362
Total	55.18	281.84		
Paras				
Unit 3	0.00	0.00	0	0
Unit 4	5.68	26.18	259	191
Total	5.68	26.18		
Khaparkheda				
Unit 1	3.77	17.66	175	135
Unit 2	3.65	16.90	165	135
Unit 3	3.78	17.88	168	150
Unit 4	3.72	17.24	160	140
Unit 5	10.10	48.96	500	374
Total	25.02	118.65		
Nasik				
Unit 3	4.05	6.84	195	160
Unit 4	4.15	20.89	200	162
Unit 5	0.00	0.00	0	0
Total	8.20	27.73		
Uran				
All Units	4.32	33.37	318	148
Total	4.32	33.37		
PGPL				
Unit 1	0.00	0.00	0	0
Unit 2	0.00	0.00	0	0
Total	0.00	0.00		
PENCH (MS)				
Pench (MS)	0.03	0.36	10	0

Generating unit	Generation			
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)
Total	0.03	0.36		
Koyna				
Stage 1-2	1.50	10.11	165	35
Stage 4	0.00	1.42	0	0
Stage 3	0.58	2.73	116	0
Total	2.08	14.26		
Hydro				
KDPH	0.44	0.63	19	19
VTRNA	0.52	2.60	61	0
TILLARI	0.54	2.08	60	0
BHTGR/VEER	0.00	0.00	0	0
BHIRA T.R.	0.20	0.79	80	0
RNGR+BHTSA	0.31	1.60	13	12
BHANDARDRA	0.00	0.00	0	0
ELDARY	0.22	1.14	10	9
SMLHY_PTN	0.36	2.15	23	13
GHATGHAR	1.39	7.64	250	0
Total	3.99	18.62		
Wind				
Total	6.61	28.88	0	0
Total	6.61	28.88		
CPP				
APML(Mus)	68.90	347.47	0	0
JSWEL(Mus)	23.91	112.56	0	0
VIPL(Mus)	5.46	27.15	0	0
RPLAMT(Mus)	0.00	0.00	0	0
WPCL(Mus)	0.00	0.00	0	0
Other(Mus)	16.09	80.44	0	0
Total	114.36	567.62		
SOLAR				
Total	5.70	28.74	0	0
Total	5.70	28.74		
Tata				
Trombay 5	8.17	39.01	468	296
Trombay 6	0.00	0.00	0	0
Trombay 7A	2.80	13.62	118	115
Trombay 7B	1.61	7.96	68	66
Trombay 8	5.33	26.38	242	202
TATA Hydro	2.68	15.78	353	0
Total	20.58	102.74		
R-INFRA				
DTPS U-1&2	4.92	23.97	253	189
Total	4.92	23.97		

* Infirm Power			Summary			Summary		
Particulars	Daily (Mus)	Monthly	Particulars	Daily (Mus)	Monthly (Mus)	Particulars	Daily (Mus)	Monthly (Mus)
			MSPGCL Thermal	146.76	700.10	MSPGCL Total	157.15	766.35
			MSPGCL Thml+Gas	151.08	733.47	Koyna 1,2 & 4 Total	1.50	11.53
			MSPGCL Hydro	6.07	32.88	State Total	309.33	1518.30

State Load Despatch Center,Airoli (MSETCL)

Annexure-2

Hourly Load Data As on 05/Jan/2019

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	5327	94	206	5626	261	3979	0	0	3728	3583	-635	12814	0	12814	1513	14328	49.96
2	5406	94	159	5658	240	3909	0	0	3450	3382	-511	12678	0	12678	1388	14066	49.94
3	5457	100	160	5716	207	3909	0	0	3259	3365	-446	12752	0	12752	1324	14076	50.02
4	5477	98	171	5746	267	3902	0	0	3348	3436	-410	12940	0	12940	1288	14228	50.06
5	5488	92	161	5742	431	3914	0	0	4046	3714	-423	13378	0	13378	1301	14678	50.02
6	5589	104	161	5854	590	3954	0	0	4574	4747	-531	14614	0	14614	1408	16022	50.01
7	6149	210	172	6532	711	4527	0	3	4913	4380	-688	15464	0	15464	1562	17026	50.07
8	6363	248	162	6774	567	5093	0	66	4563	4855	-699	16656	0	16656	1706	18362	50.01
9	6626	368	161	7154	343	5441	0	300	4543	4605	-790	17054	0	17054	1958	19012	50.01
10	6650	552	168	7370	310	5489	0	572	4680	4845	-966	17620	0	17620	2211	19830	50.05
11	6758	502	156	7416	249	5444	0	731	5100	5317	-1141	18016	0	18016	2400	20416	49.98
12	6755	518	151	7424	215	5430	0	848	5158	4954	-1120	17752	0	17752	2427	20178	49.84
13	6679	372	149	7200	205	5328	0	871	4949	4738	-1119	17224	0	17224	2380	19604	49.99
14	6558	294	149	7002	168	5243	0	816	4580	4739	-999	16968	0	16968	2241	19210	49.98
15	6427	324	149	6900	160	5214	0	699	4744	4992	-1167	16798	0	16798	2229	19026	49.99
16	6618	304	148	7070	143	5226	0	502	4771	4630	-1176	16396	0	16396	2227	18622	49.91
17	6589	292	151	7032	152	5241	0	257	4750	4496	-1146	16032	0	16032	2212	18244	49.94
18	6285	140	152	6578	79	5147	0	40	4242	4398	-1038	15204	0	15204	2226	17430	49.99
19	6338	158	154	6650	121	5194	0	0	4427	4389	-1022	15332	0	15332	2280	17612	50.02
20	6214	152	176	6542	138	5093	0	0	4366	3893	-960	14706	40	14746	2230	16976	50.04
21	5773	232	204	6210	181	4817	0	0	3806	4029	-991	14246	0	14246	2135	16380	50.03
22	5755	322	263	6340	257	4576	0	0	3624	3559	-997	13734	0	13734	1994	15728	50.08
23	5768	278	315	6360	290	4313	0	0	3098	3468	-909	13522	0	13522	1845	15368	50.01
24	5712	224	318	6254	324	3978	0	0	3159	3223	-789	12990	0	12990	1698	14688	50.02
MUs	146.76	6.07	4.32	157.15	6.61	114.36	0.00	5.70	101.88	101.74	-20.67	364.89	0.04	364.93	46.18	411.11	50.00

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 05/Jan/2019

Position as on 6.30 Hrs of 06/Jan/2019

Generating Company	Name of Generating Unit	Capacity	Tripped Date	Tripped Time	Sync.Date	Sync. Time	Reason of Outage	Expected Date
PLANNED OUTAGE								
CPP	SWPGL U-3	135	01/11/2018	00.28		Continued.	Annual Overhaul	
MSPGCL	Nasik Unit 5	210	22/11/2018	03.50		Continued.	Boiler Tube Leakage work completed on 24/11/2018. Available against case 4 from 25/11/2018. Converted to COH from 00:00 Hrs of 05/12/2018 (for 40 Days)	
RINFRA-G	REL Unit 1	250	23/12/2018	06.06		Continued.	For COH.	
FORCED OUTAGE								
TPC-G	Trombay 6	500	15/07/2015	17:08		Continued.	Economic shutdown	
IPP	SWPGL U-1	135	16/02/2016	17.09		Continued.	No PPA.	
MSPGCL	Parli Unit 5	210	01/04/2016	00.00		Continued.	Economic shutdown	
MSPGCL	Parli Unit 4	210	01/04/2016	00.00		Continued.	Economic shutdown	
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	Uran Unit 7	108	20/07/2018	12.53		Continued.	Compressor & Turbine Blade Failure.	
IPP	IEPL Unit 1	270	28/08/2018	21.26		Continued.	Poor Coal Receipt	
MSPGCL	Uran Unit 8	108	08/09/2018	22.08		Continued.	Withdrawn due to B0 & U-7	
MSPGCL	Paras Unit 3	250	15/09/2018	00.55		Continued.	Stator Earth Fault	
IPP	RPL(AMT) U-4	270	20/09/2018	00.01		Continued.	Zero Schedule.	
MSPGCL	Koyana Unit 4	70	03/11/2018	09.02		Continued.	Stator Earth Fault	
MSPGCL	Koyana Unit 1	70	26/11/2018	00.00		Continued.	Oil Cooler Leakage.	
IPP	SWPGL U-2	135	27/11/2018	00.00		Continued.	No Schedule.	
MSPGCL	Parli Unit 7	250	12/12/2018	00.00		Continued.	ZERO SCHEDULE.	
MSPGCL	Parli Unit 6	250	12/12/2018	00.00		Continued.	ZERO SCHEDULE.	
MSPGCL	Bhusawal Unit 3	210	14/12/2018	03.00		Continued.	Zero Schedule.	
IPP	RPL(AMT) U-1	270	14/12/2018	16.00		Continued.	Zero Schedule.	
IPP	RPL(AMT) U-3	270	14/12/2018	16.30		Continued.	Zero Schedule.	
CPP	SWPGL U-4	135	15/12/2018	00.00		Continued.	No Schedule	
MSPGCL	Koradi Unit 6	210	22/12/2018	01.18	06/01/2019	15.35	Bearing Temperature high	
IPP	RPL(AMT) U-2	270	27/12/2018	19.30		Continued.	Zero Schedule.	
IPP	RPL(AMT) U-5	270	28/12/2018	19.30		Continued.	Zero Schedule.	
IPP	VIPL U-1	300	29/12/2018	00.30		Continued.	Coal Shortage	
MSPGCL	Koradi Unit-8	660	29/12/2018	23.01		Continued.	FOR BOILER VALIDITY EXTENSION PCR.	
MSPGCL	Chandrapur Unit 4	210	04/01/2019	16.40	05/01/2019	09.03	Bus bar operated.	
MSPGCL	Uran Unit 5	108	05/01/2019	00.06	05/01/2019	19.28	Filter replacement work.	
MSPGCL	Koradi Unit 6	210	06/01/2019	17.45		Continued.	Generator electrical protection operated.	

State Load Despatch Center, Airoli (MSETCL)
Details of Line outages/Trippings for 05/Jan/2019

Statement-VII

Position as on 6.30 Hrs of 06/Jan/2019

Name of Line	Inter State / Intra State	Tripped Date	Tripped Time	Sync. Date	Sync. Time	Outage Type	Reason of Outage
400 KV LINE Outages/Trippings							
Karad Solapur (PG)	InterState	03/05/2017	11:49		Continued.	PO	Line converted as 220 kV Solapur (PG)- Jeur from LOC 403
Dhule Sar'Sarovar II	InterState	24/12/2018	18.09		Continued.	HT	Over Voltage
Chakan Talegaon(Pg)	InterState	06/01/2019	09.33	06/01/2019	18.51	PO	Routine Maintenance Work
Padghe - Nagothane - II	IntraState	03/01/2019	11.30		Continued.	PO	New Line Tower Erection work
Padghe - Nagothane - I	IntraState	03/01/2019	11.30		Continued.	PO	New Line Tower Erection work
karad -kolhapur-II	IntraState	04/01/2019	10.26	05/01/2019	09.32	PO	Annual Maintenance Work
Khadka-Aurangabad (Waluj)	IntraState	04/01/2019	18.00	05/01/2019	08.51	HT	Over Voltage
Lonikand I - Koyna stage-IV	IntraState	04/01/2019	23.58	05/01/2019	08.32	HT	Over Voltage
Jaigad-Karad Ckt-I	IntraState	04/01/2019	23.59		Continued.	HT	Over Voltage
Padghe - Kalwa- I	IntraState	05/01/2019	06.02	05/01/2019	08.11	EO	Hot spot on Y PH CT.
Khadka - Bableshtar	IntraState	05/01/2019	09.31	05/01/2019	19.24	PO	DCRM Of CB & Bay Maint Work.
Bus Coupler @ Kalwa	IntraState	05/01/2019	11.00	05/01/2019	12.56	EO	Attending Hot Spot
Kharghar-Talegaon(PG)	IntraState	05/01/2019	13.08	05/01/2019	20.31	EO	Attending Oil Leakage
Khadka-Aurangabad (Waluj)	IntraState	05/01/2019	17.38		Continued.	HT	Over Voltage
Lonikand I - Koyna stage-IV	IntraState	06/01/2019	01.07	06/01/2019	09.19	HT	Over Voltage
Lonikand I - Koyna stage-IV	IntraState	06/01/2019	23.05		Continued.	HT	Over Voltage
400 KV ICT Outages/Trippings							
400/220/33 Kv 315 Mva ICT 1 @Padghe	IntraState	15/11/2018	10.07		Continued.	T	Differential protection, Declared Faulty.
400/220kV 315MVA ICT-I@Parly	IntraState	24/12/2018	15.40		Continued.	PO	Replacement Of B-PH Unit By Re paired One.
400/220KV 315MVA ICT3@Bhusawal II (khadaka)	IntraState	05/01/2019	10.33	05/01/2019	20.04	PO	CSD Device Retrofitting.
400/220/33 Kv 500 MVA ICT-II @Lonikand 2	IntraState	05/01/2019	10.42	05/01/2019	14.01	PO	Attend Nitrogen Gas Leakage Of CTR Make NIFPS.
400/220 kV 500 MVA ICT-III @ Kalwa	IntraState	05/01/2019	19.39	05/01/2019	20.13	T	Due To Tripping Of 220 kalwa AKP Line.
400/220 Kv 500 MVA ICT-I @Kalwa	IntraState	05/01/2019	19.39	05/01/2019	20.13	T	Due To Tripping Of 220 Kalwa AKP Line.
400/220KV 315MVA ICT3@Bhusawal II (khadaka)	IntraState	05/01/2019	21.29	06/01/2019	19.52	EO	To Check Trip Ckt Faulty.
400/220 Kv 500 MVA ICT-III @Kalwa	IntraState	06/01/2019	09.40	06/01/2019	20.47	T	Routine Maintenance Work
220 KV LINE Outages/Trippings							
Talandage - Chikodi	InterState	01/06/2017	00.01		Continued.	PO	No Schedule
Mudshingi - Chikodi	InterState	01/06/2017	00.06		Continued.	PO	No Schedule.
Butibori 3-Butibori 1	InterState	06/01/2019	16.45	06/01/2019	17.40	T	Bus I busbar operated.
Mahalakshmi Amona	InterState	06/01/2019	20.55	06/01/2019	21.10	T	B PH E/F OV 1.89, AR lockout, generation 4.3 MW affected, dist. 7.5 KM.
Chandrapur GCR - Warora - I	IntraState	05/04/2015	09.13		Continued.	PO	Bunching of conductor Loc no 86 Disconnecting of jumper 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	For Bunching Of Conductor at Loc No.86 Disconnecting Of jumper at Loc No.86 to 107 And Deenergising The Line Between Loc No.86 To 107.
BOISAR BORIVALI	IntraState	24/07/2018	13.18		Continued.	HT	To control line loading.
Kalwa-TIFIL	IntraState	27/11/2018	06.06		Continued.	EO	Tapping Of Tifil Substation On 220KV Kharghar-Borivali Line
Padgha-Temghar-II	IntraState	03/12/2018	08.15	05/01/2019	05.45	EO	To control load on Padgha ICTs.
Padgha - Temghar I	IntraState	03/12/2018	08.15	05/01/2019	05.43	EO	To control load on Padgha ICTs.

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 05/Jan/2019

Statement-VII

Position as on 6.30 Hrs of 06/Jan/2019

Name of Line	Inter State / Intra State	Tripped Date	Tripped Time	Sync. Date	Sync. Time	Outage Type	Reason of Outage
Taloja II - OCIL-I	IntraState	31/12/2018	10.50	05/01/2019	16.25	PO	REPLACEMENT OF METERING CT & PT & AT OCIL END.
Dahanu Versova	IntraState	05/01/2019	08.20	05/01/2019	18.11	PO	Preventive Maintenance.
Main Bus I @ Dahanu	IntraState	05/01/2019	09.15	05/01/2019	20.47	PO	Annual Maintenance Work
Urse - Talegaon (Ambi) Ckt 1	IntraState	05/01/2019	09.33	05/01/2019	18.24	PO	Hardware Conversion Work.
Wpcl-Warora 2	IntraState	05/01/2019	10.28	05/01/2019	17.04	PO	Line Maintenance work
Uran - Jnpt	IntraState	05/01/2019	11.33	05/01/2019	15.10	PO	BPI Replacement Work At JNPT End.
Mahad-Kandalgaon	IntraState	05/01/2019	11.35	05/01/2019	14.47	EO	Flashover At Disc Insulator.
Nashik-Airoli Knowledge Park	IntraState	05/01/2019	14.33	05/01/2019	20.16	EO	Attending Hot Spot
Kalwa-Salsette-IV	IntraState	05/01/2019	19.39	05/01/2019	20.13	T	Due To Tripping Of 220 kalwa AKP Line.
Kalwa - Airoli Knowledge Park	IntraState	05/01/2019	19.39	06/01/2019	05.33	T	Wave Trap Dropped At Both End Of Kalwa AKP Line.
Kalwa - Mulund 2	IntraState	05/01/2019	19.39	05/01/2019	20.12	T	Due To Tripping Of 220 Kalwa AKP Line.
Kalwa - Colourchem	IntraState	05/01/2019	19.39	05/01/2019	20.13	T	Due To Tripping Of 220 kalwa AKP Line.
Kalwa - Borivali	IntraState	05/01/2019	19.39	05/01/2019	20.12	T	Due To tripping Of 220 kalwa AKP Line.
REL Borivali Aarey Line	IntraState	06/01/2019	06.08	06/01/2019	07.29	T	Distance Protection
Boisar(M) - Ghodbunder II	IntraState	06/01/2019	06.08	06/01/2019	07.30	T	CB tripped at borivali end only.
Ghodbunder - Gorai	IntraState	06/01/2019	06.08	06/01/2019	06.24	T	Distance Protection
Boisar Versova Line	IntraState	06/01/2019	10.06	06/01/2019	19.13	PO	Routine Maintenance Work
Butibori-Abhijeet	IntraState	06/01/2019	16.45	06/01/2019	17.08	T	Bus I busbar operated.
Main Bus I @ Dahanu	IntraState	06/01/2019	19.50	06/01/2019	20.42	EO	Isolator blade replacement of station T/F.
Ghatghar - Bapgaon	IntraState	06/01/2019	20.10	06/01/2019	20.30	T	R PH E/F
220 KV ICT Outages/Trippings							
220/132 kV 200MVA ICT II @ Girwali	IntraState	05/01/2019	11.18	05/01/2019	13.34	PO	Oil Top UP in OLTC Tank
220/132 kV 100 MVA ICT II @ Butibori	IntraState	06/01/2019	16.45	06/01/2019	17.12	T	Bus I busbar operated.

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