

State Load Despatch Center, Airoli (MSETCL) Statement I
Daily system Report for 25/May/2021 TUESDAY

I GENERATION (MUs)			II EXCHANGES (MUs)		
A) MSPGCL	Daily	Monthly	E) InterState Exchanges	Daily	Monthly
1) Thermal	128.471	3102.335	1) Gujrat	-1.575	-44.099
2) Hydro	29.481	593.741	2) Madhya Pradesh	3.017	250.253
3) Gas	3.131	164.192	3) Chattisgarh	4.890	128.667
Total MSPGCL	161.083	3860.268	4) Maharashtra	162.287	3333.317
B) 1) APML	30.798	1295.934	5) Goa (Amona)	-1.513	-38.447
2) JSWEL	15.298	464.443	Total	167.106	3629.691
3) VIPL	0.000	0.000	a) Mumbai Schedule	30.364	638.795
4) RPL(AMT)	31.393	740.853	b) Mumbai Drawl	28.280	587.729
5) SWPGPL	9.132	171.210	c) MSEDCL Bilateral *	51.767	875.237
6) Other IPP	10.391	304.499	Include PX	15.748	98.085
7) PGPL	0.000	0.000	d) Mumbai Bilateral *	30.301	638.733
C) 1) TPCL Thermal	16.191	376.592	Include PX	17.793	281.543
2) TPCL Hydro	6.252	106.318	Standby	0.063	0.063
3) TPCL Gas	0.000	70.751	H) ENERGY CATERED (MUs)		
4) AEML Thermal	6.016	238.306	1) MSEDCL	435.998	10608.625
D) STATE			2) Mumbai Discoms	56.739	1379.697
1) Thermal	247.690	6694.172	TOTAL STATE	492.737	11988.322
(A1+C1+C4+(B1-B6))					
2) Hydro	35.733	700.059			
(A2+C2)					
3) Gas	3.131	234.943			
(A3+B7+C3)					
4) Wind	32.131	550.813			
6) SOLAR	6.946	178.643			
TOTAL STATE	325.631	8358.630			

* 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 15 Hrs	C. Evening Peak at 22 Hrs	D. Night Minimum at 4 Hrs
MSPGCL Thermal	5322	5319	5240	5552
MSPGCL Hydro	800	1096	1020	1185
MSPGCL Gas	115	114	153	141
MSPGCL Total Generation	6237	6529	6413	6878
Central Sector Receipt	8153	8758	6476	5877
WIND	838	672	1869	1617
CPP / IPP Thermal	3979	3962	4033	4147
CPP / IPP Gas	0	0	0	0
SOLAR	971	717	0	0
Exchange with Mumbai	-1331	-1434	-1080	-1089
MSEDCL DEMAND MET	18847	19204	17711	17430
Load Shedding	0	0	0	0
MSEDCL DEMAND	18847	19204	17711	17430
TPCL GENERATION	1064	982	1031	690
AEML GENERATION	250	250	251	251
MUMBAI DEMAND	2645	2666	2362	2030
STATE DEMAND MET	21492	21870	20073	19460
STATE DEMAND	21492	21870	20073	19460
Frequency (Hz)	50.02	49.93	49.91	50.00

FREQUENCY PARTICULARS

MAXIMUM FREQ.	MINIMUM FREQ.	AVERAGE FREQ.	FREQ. BELOW 49.2 Hz
50.13 Hz at 10.00 Hrs	49.76 Hz at 21.18 Hrs	49.97	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 25/May/2021

Generating unit	Generation			
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)
Koradi				
Unit 6	0.00	0.00	0	0
Unit 7	0.00	0.00	0	0
Unit 8	1.49	269.56	447	0
Unit 9	12.92	203.48	608	405
Unit 10	10.76	252.32	520	400
Total	25.16	725.36		
Bhusawal				
Unit 3	0.00	13.68	0	0
Unit 4	11.97	247.27	500	480
Unit 5	11.75	272.30	500	475
Total	23.72	533.25		
Parli				
Unit 6	0.00	17.62	0	0
Unit 7	0.00	24.02	0	0
Unit 8	0.00	26.80	0	0
Total	0.00	68.44		
Chandrapur				
Unit 3	3.54	68.71	151	145
Unit 4	0.00	0.00	0	0
Unit 5	10.12	182.08	430	400
Unit 6	8.15	228.24	405	255
Unit 7	0.00	0.00	0	0
Unit 8	11.44	223.07	487	450
Unit 9	10.48	212.15	445	423
Total	43.72	914.25		
Paras				
Unit 3	5.33	117.44	250	200
Unit 4	3.29	101.30	230	79
Total	8.62	218.73		
Khaparkheda				
Unit 1	2.69	64.76	145	95
Unit 2	0.00	0.00	0	0
Unit 3	4.28	98.23	198	170
Unit 4	4.23	74.81	190	167
Unit 5	11.73	233.87	500	475
Total	22.93	471.66		
Nasik				
Unit 3	0.00	0.00	0	0
Unit 4	4.31	101.43	198	124
Unit 5	0.00	69.21	0	0
Total	4.31	170.64		
Uran				
All Units	3.13	164.19	153	114
Total	3.13	164.19		
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)	0.51	6.26	26	0
Total	0.51	6.26		
Koyna				

Generating unit	Generation			
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)
Stage 1-2	4.06	122.14	400	30
Stage 4	15.89	232.91	1000	0
Stage 3	4.90	78.80	240	138
Total	24.84	433.84		
Hydro				
KDPH	0.34	17.36	14	14
VTRNA	0.79	21.54	59	0
TILLARI	0.52	12.78	58	0
BHIRA T.R.	0.32	5.69	80	0
SMLHY_PTN	2.37	96.45	110	82
GHATGHAR	0.30	6.08	168	0
Total	4.64	159.90		
Wind				
Total	32.13	550.81	0	0
Total	32.13	550.81		
CPP				
APML(Mus)	30.80	1295.93	0	0
JSWEL(Mus)	15.30	464.44	0	0
VIPL(Mus)	0.00	0.00	0	0
RPLAMT-Mus	31.39	740.85	0	0
SWPGPL-Mus	9.13	171.21	0	0
Other(Mus)	10.39	304.50	0	0
Total	97.01	2976.94		
SOLAR				
Total	6.95	178.64	0	0
Total	6.95	178.64		
Tata				
Trombay 5	10.85	250.56	483	409
Trombay 6	0.00	0.00	0	0
Trombay 7A	0.00	44.76	0	0
Trombay 7B	0.00	25.99	0	0
Trombay 8	5.34	126.04	227	212
TATA Hydro	6.25	106.32	438	18
Total	22.44	553.66		
AEMIL				
DTPS U-1&2	6.02	238.31	251	250
Total	6.02	238.31		

* Infirm Power			Summary			Summary		
Particulars	Daily (Mus)	Monthly	Particulars	Daily (Mus)	Monthly (Mus)	Particulars	Daily (Mus)	Monthly (Mus)
			MSPGCL Thermal	128.47	3102.34	MSPGCL Total	161.08	3860.27
			MSPGCL Thml+Gas	131.60	3266.53	Koyna 1,2 & 4 Total	19.94	355.04
			MSPGCL Hydro	29.48	593.74	State Total	325.63	8358.63

State Load Despatch Center,Airoli (MSETCL)

Annexure-2

Hourly Load Data As on 25/May/2021

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	5685	1678	141	7504	1472	4140	0	0	6093	5871	-1255	17732	0	17732	2477	20209	49.94
2	5738	1695	142	7575	1371	4124	0	0	6030	5786	-1109	17747	0	17747	2297	20044	50.01
3	5750	1309	142	7201	1606	4110	0	0	6158	5986	-1110	17793	0	17793	2146	19939	49.99
4	5552	1185	141	6878	1617	4147	0	0	6071	5877	-1089	17430	0	17430	2030	19460	50.00
5	5369	1425	142	6936	1599	4131	0	0	6034	5973	-1041	17598	0	17598	1975	19573	49.92
6	5353	1736	142	7231	1612	4139	0	0	6446	6555	-1049	18488	0	18488	1974	20462	49.92
7	5351	1755	141	7247	1332	4080	0	74	7401	7194	-958	18969	0	18969	1932	20901	49.99
8	5363	1389	135	6887	1151	4098	0	266	7109	7096	-993	18505	0	18505	2002	20507	50.04
9	5316	1139	115	6570	1152	4128	0	504	7374	7263	-1131	18486	0	18486	2202	20688	49.99
10	5300	1020	114	6434	1033	4044	0	728	7644	7579	-1250	18568	0	18568	2425	20993	49.97
11	5271	605	115	5991	984	3975	0	866	8098	8101	-1325	18592	0	18592	2580	21172	50.03
12	5322	800	115	6237	838	3979	0	971	8166	8153	-1331	18847	0	18847	2645	21492	50.02
13	5357	1018	125	6500	606	3978	0	870	8258	7874	-1360	18468	0	18468	2645	21113	49.92
14	5308	754	115	6177	600	3935	0	863	8448	8264	-1352	18487	0	18487	2606	21093	49.88
15	5319	1096	114	6529	672	3962	0	717	8832	8758	-1434	19204	0	19204	2666	21870	49.93
16	5384	1141	125	6650	764	3987	0	551	8771	8492	-1377	19067	0	19067	2686	21753	49.95
17	5269	1720	115	7104	972	3994	0	330	7530	7286	-1292	18394	0	18394	2623	21017	50.02
18	5206	1328	115	6649	1406	3989	0	164	6915	6662	-1165	17705	0	17705	2471	20176	50.02
19	5119	1160	115	6394	1657	3983	0	42	6062	6018	-977	17117	0	17117	2317	19434	50.02
20	5148	1446	140	6734	1779	4002	0	0	5908	5940	-993	17462	0	17462	2331	19793	49.93
21	5221	1305	142	6668	1783	4006	0	0	6067	5985	-1041	17401	0	17401	2347	19748	50.01
22	5240	1020	153	6413	1869	4033	0	0	6533	6476	-1080	17711	0	17711	2362	20073	49.91
23	5288	877	143	6308	2103	4028	0	0	6892	7046	-1221	18264	0	18264	2456	20720	49.97
24	5242	880	144	6266	2153	4020	0	0	6776	6871	-1347	17963	0	17963	2544	20507	50.01
MUs	128.47	29.48	3.13	161.08	32.13	97.01	0.00	6.95	169.62	167.11	-28.28	436.00	0.00	436.00	56.74	492.74	49.97

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 25/May/2021

Position as on 6.30 Hrs of 26/May/2021

Generating Company	Name of Generating Unit	Capacity	Tripped Date	Tripped Time	Sync.Date	Sync. Time	Reason of Outage	Expected Date
PLANNED OUTAGE								
MSPGCL	Chandrapur Unit 4	210	16/03/2021	08.08		Continued.	Boiler Tube Leakage(converted to Capital overhaul)	
MSPGCL	Koyna Unit 6	80	22/04/2021	12.00		Continued.	UGC Oil Cooler Leakage.(Converted to Capital Overhaul from 08.00Hrs DT.23-4-2021)	25/06/2021
AEML	AEML Unit 1	250	19/05/2021	09.52		Continued.	HP turbine replacement.	
FORCED OUTAGE								
IPP	SWPGPL U-1	135	16/02/2016	17.09		Continued.	No PPA.	
PGPL	PGPL U2	126	07/02/2017	17.30		Continued.	No Schedule.(NO PPA)	
PGPL	PGPL U1	262	07/02/2017	17.30		Continued.	No Schedule (NO PPA)	
IPP	IEPL Unit 1	270	28/08/2018	21.26		Continued.	No PPA	
IPP	VIPL U-1	300	29/12/2018	00.30		Continued.	Coal Shortage. (NO PPA From 20.05.2019)	
IPP	VIPL U-2	300	17/01/2019	00.15		Continued.	Coal shortage.(NO PPA From 20.05.2019)	
MSPGCL	Uran Unit 7	108	25/05/2020	12.51		Continued.	Turbine Blade Failure	
MSPGCL	Nasik Unit 3	210	03/12/2020	06.45		Continued.	PA Fan Problem (Under Case 4 Bidding From 11.00Hrs DT. 21-01-2021).	
MSPGCL	Koyna Unit 11	80	19/01/2021	10.05		Continued.	Tripped on stator earth fault (will not be available till dt.24.05.21)	
MSPGCL	Chandrapur Unit 7	500	20/02/2021	23.43		Continued.	Generator Earth Fault.	
MSPGCL	Khaparkheda Unit 2	210	15/04/2021	16.54		Continued.	Critical coal stock position	
MSPGCL	Koradi Unit 6	210	27/04/2021	19.59		Continued.	Zero Schedule.	
MSPGCL	Koradi Unit 7	210	27/04/2021	20.03		Continued.	Retired (04/08/2021 At 00.00)	
MSPGCL	Parli Unit 6	250	04/05/2021	20.00		Continued.	Zero Schedule By MSEDCL	
MSPGCL	Bhusawal Unit 3	210	04/05/2021	20.00		Continued.	Zero Schedule.	
MSPGCL	Parli Unit 7	250	05/05/2021	19.00		Continued.	Zero Schedule.	
MSPGCL	Parli Unit 8	250	06/05/2021	19.45		Continued.	Zero Schedule	
IPP	Adani U-4	660	16/05/2021	10.01		Continued.	Zero Schedule.	
IPP	Adani U-1	660	16/05/2021	17.57		Continued.	Zero Schedule By MSEDCL.	
MSPGCL	Uran Unit 5	108	17/05/2021	11.52		Continued.	Due to jerk	
IPP	Adani U-5	660	17/05/2021	12.05		Continued.	Zero schedule.	
MSPGCL	Nasik Unit 5	210	17/05/2021	12.50		Continued.	Zero schedule.	
MSPGCL	Uran Unit 6	108	17/05/2021	22.59		Continued.	Gas shortage.	
MSPGCL	Uran Unit A0	120	17/05/2021	22.59		Continued.	Gas shortage	
TPC-G	Trombay 7B	60	17/05/2021	23.29		Continued.	Gas shortage	
TPC-G	Trombay 7A	120	17/05/2021	23.50		Continued.	Gas shortage	

State Load Despatch Center,Airoli (MSETCL) Statement-VI
Details of Generating Unit Outages/Trippings for 25/May/2021

Position as on 6.30 Hrs of 26/May/2021

Generating Company	Name of Generating Unit	Capacity	Tripped Date	Tripped Time	Sync.Date	Sync. Time	Reason of Outage	Expected Date
MSPGCL	Koyna Unit 1	70	24/05/2021	09.50	25/05/2021	11.45	Needle Problem	
MSPGCL	Koradi Unit-8	660	25/05/2021	03.52		Continued.	Boiler Tube Leakage	
IPP	JSW (J) U1	300	25/05/2021	09.41		Continued.	CW DUCT Water Leakage.	

State Load Despatch Center, Airoli (MSETCL)
Details of Line outages/Trippings for 25/May/2021

Statement-VII

Position as on 6.30 Hrs of 26/May/2021

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	25/05/2021	10.19	25/05/2021	15.32	EO	Attending Hot Spot On Y-PH Neutral Bushing Of 712 Line Reactor Of 765KV, KORADI-3-AKOLA-2 LINE-2.
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 Khandwa II	InterState	24/05/2021	16.15	25/05/2021	17.30	T	Distance Protection
Babhleshwar - RIPL(Nashik)	IntraState	18/03/2021	15.48		Continued.	PO	Hot spot attending.
Padghe - Nagothane - I	IntraState	25/05/2021	08.15	25/05/2021	16.48	PO	Insulator String Replacement Work.
Babhleshwar- Aurangabad (Waluj)	IntraState	25/05/2021	18.43	25/05/2021	19.57	EO	Availed For LA Work At WALUJ S/STN.
Kalwa - Talegaon(PG)	IntraState	26/05/2021	03.35	26/05/2021	07.27	EO	Attending Hot Spot
125 MVAR Bus Reactor @ Warora	IntraState	26/05/2021	10.24	26/05/2021	12.16	PO	Pre-monsoon maintenance work.
400 KV ICT Outages/Trippings							
400/220kv 315 MVA ICT I @ KOLHAPUR-III (TALANDGE)	IntraState	10/08/2020	09.58		Continued.	PO	Replacement of existing 315 MVA ICT by 3*167 MVA ICT.(FTC DT 16/08/2021 At 14.42)
400/220 KV 300 MVA ICT- I @Koradi	IntraState	24/05/2021	12.42	25/05/2021	01.32	PO	For Checking SF6 Gas Leakage From R-Phase CB Pole. ICT 1 CB Is To Be Shifted On TBC.
400/132 Kv 200 Mva Ict 1 @Khadka	IntraState	25/05/2021	08.31	25/05/2021	11.03	PO	For pre-monsoon maintenance work.
220 KV LINE Outages/Trippings							
Mudshingi Chikodi	InterState	24/09/2019	17.12		Continued.	PO	No Schedule(Charge from Mudshingi end only)
Talandage - Chikodi	InterState	01/10/2019	17.10		Continued.	PO	No Schedule(Close at Chikodi end only)
Dondaicha- Shahada	IntraState	24/05/2021	16.12	25/05/2021	01.02	T	Distance Protection
Taloja II - OCIL-I	IntraState	25/05/2021	08.13	25/05/2021	20.03	PO	Cleaning of 220kV switchgear & checking of tightness of 220kV Bus bars.
Dasturi-Kandalgaon Line	IntraState	25/05/2021	09.34	25/05/2021	17.50	PO	Jumper nut bolt tightening & Insulator string replacement.
Karad - Vita Ckt- I	IntraState	25/05/2021	10.20	25/05/2021	19.49	PO	Relay testing & allied bay equipment maintenance work.
Kharepatan -Pawas Line	IntraState	25/05/2021	11.31	25/05/2021	13.18	PO	For alignment of line isolator B phase blade.
Padghe - Kambha	IntraState	25/05/2021	12.15	25/05/2021	16.19	EO	Attending Red Hot spot at LILO loc no. 1
Satara (MIDC)-Ajinkyatara	IntraState	25/05/2021	12.18	25/05/2021	14.21	PO	Quarterly maintenance work, Relay Testing Work.
satara MIDC- Malharpeth	IntraState	25/05/2021	14.48	25/05/2021	16.43	PO	Quarterly maintenance work, Relay Testing Work.
Lonikand-II- Kathapur	IntraState	25/05/2021	16.15	25/05/2021	20.02	T	Distance Protection
Boisar Versova Line	IntraState	25/05/2021	18.58	25/05/2021	22.13	T	Distance Protection
Taloja li - OCIL-II	IntraState	26/05/2021	07.46	26/05/2021	19.22	PO	Cleaning of 220kv switchgear & checking of tightness of 220kv bus bars.
Kharghar-Sonkhar	IntraState	26/05/2021	09.59	26/05/2021	15.43	PO	To Fix repair sleeve between loc no. 74-75.
Apta - Bombay Dyeing	IntraState	26/05/2021	11.00	26/05/2021	14.00	EO	Attending Hot Spot
Tuljapur-Lamboti(Tap to Vairag s/st.)	IntraState	26/05/2021	11.59	26/05/2021	18.55	PO	Auxiliary isolater alignment work.
Alephata-Pargaon(Kathapur)	IntraState	26/05/2021	14.28	26/05/2021	23.28	T	B-Phase LA burst.
Mahad - Pedambe	IntraState	26/05/2021	18.45	26/05/2021	23.15	EO	Attending Hot Spot
Theur-Jejuri	IntraState	26/05/2021	18.55	26/05/2021	20.15	EO	Availed Y-phase LA jump replacement at jejuri end.

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 25/May/2021

Statement-VII

Position as on 6.30 Hrs of 26/May/2021

Name of Line	Inter State / Intra State	Tripped Date	Tripped Time	Sync. Date	Sync. Time	Outage Type	Reason of Outage
220 KV ICT Outages/Trippings							
220/132 KV 150MVA ICT I @ Boisar	IntraState	17/05/2021	11.19		Continued.	T	ICT Failed due to internal fault.
220/33kV 100 MVA Transformer 1 @Ghodbunder R/S	IntraState	25/05/2021	09.13	25/05/2021	11.52	PO	Pre-monsoon Maintenance Work.
220/33kV 125 MVA Transformer 1 @Chembur R/S	IntraState	25/05/2021	09.31	25/05/2021	12.36	PO	Pre-monsoon Maintenance of Transformer.
220/33kV 125 MVA T/F-II @ Goregaon	IntraState	25/05/2021	10.25	25/05/2021	12.17	PO	Pre monsoon Maintenance of Transformer.
220/132-110/11kv 200MVA ICT 1 @Miraj	IntraState	25/05/2021	11.00	25/05/2021	13.35	PO	Pre monsoon Maintenance. Quarterly Maintenance Work & Attending Hot Spot Work.
220/66 Kv 150 Mva Emco Ict 2 @Gadchandur	IntraState	25/05/2021	11.20	25/05/2021	17.15	PO	For Oil Leakage Attending Work.
220/100 KV 200MVA ICT II @ Pal	IntraState	25/05/2021	11.27	25/05/2021	14.32	PO	Pre-monsoon maintenance work.
220/100 Kv 200 MVA ICT I @Kolshet	IntraState	25/05/2021	11.36	25/05/2021	12.30	PO	Plastic paper wrapping work.
220/100 Kv 200 MVA ICT II @Kolshet	IntraState	25/05/2021	12.49	25/05/2021	13.53	PO	Plastic paper wrapping work.
220/33kV 125 MVA Transformer 2 @Chembur R/S	IntraState	25/05/2021	13.02	25/05/2021	14.44	PO	Pre monsoon Maintenance of Transformer.
220/33kV 100 MVA Transformer 2 @Ghodbunder R/S	IntraState	25/05/2021	14.12	25/05/2021	15.54	PO	Pre-monsoon Maintenance Work.
220/132 Kv 100 Mva Ict 2 @Paranda	IntraState	25/05/2021	14.30	25/05/2021	15.20	PO	Pre-monsoon Maintenance.
220/132 Kv 100 Mva Ict 1 @Tuljapur	IntraState	25/05/2021	16.20	25/05/2021	18.10	PO	Pre-monsoon Work.
220/132 Kv 100 Mva Ict 2 @Paranda	IntraState	25/05/2021	17.32	25/05/2021	18.00	PO	Pre-monsoon Maintenance.
220/33kV 100 MVA Transformer 3 @Ghodbunder R/S	IntraState	26/05/2021	09.51	26/05/2021	11.52	PO	Premonsooon maintenance of transformer.
220/33kv 125 Mva Transformer 4 @Ghodbunder R/S	IntraState	26/05/2021	10.10	26/05/2021	16.37	PO	Premonsooon maintenance of transformer.
220/132 Kv 200 Mva Bbl Ict 3 @Padegaon	IntraState	26/05/2021	12.08	26/05/2021	13.05	EO	To Remove bird nest wire on LV gantry.

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