

State Load Despatch Center, Airoli (MSETCL) Statement I
Daily system Report for 02/Jan/2021 SATURDAY

I GENERATION (MUs)			II EXCHANGES (MUs)		
A) MSPGCL	Daily	Monthly	E) InterState Exchanges	Daily	Monthly
1) Thermal	123.600	252.851	1) Gujrat	2.275	4.196
2) Hydro	16.893	29.357	2) Madhya Pradesh	7.845	13.477
3) Gas	6.433	12.949	3) Chattisgarh	7.310	12.850
Total MSPGCL	146.926	295.157	4) Maharashtra	145.749	293.370
B) 1) APML	24.080	39.843	5) Goa (Amona)	-1.175	-2.102
2) JSWEL	18.593	37.590	Total	162.004	321.791
3) VIPL	0.000	0.000	a) Mumbai Schedule	18.243	34.120
4) RPL(AMT)	28.630	55.547	b) Mumbai Drawl	18.323	36.755
5) WPCL	8.164	15.987	c) MSEDCL Bilateral *	49.509	94.402
6) Other IPP	18.101	35.137	Include PX	19.413	34.463
7) PGPL	0.000	0.000	d) Mumbai Bilateral *	18.243	34.120
C) 1) TPCL Thermal	13.676	27.153	Include PX	8.567	15.627
2) TPCL Hydro	3.973	6.875	Standby	0.000	0.000
3) TPCL Gas	1.256	3.381	H) ENERGY CATERED (MUs)		
4) AEML Thermal	9.774	19.328	1) MSEDCL	406.956	803.035
D) STATE			2) Mumbai Discoms	47.002	93.492
1) Thermal	244.618	483.436	TOTAL STATE	453.958	896.527
(A1+C1+C4+(B1-B6))					
2) Hydro	20.866	36.232			
(A2+C2)					
3) Gas	7.689	16.330			
(A3+B7+C3)					
4) Wind	12.938	27.029			
6) SOLAR	5.843	11.709			
TOTAL STATE	291.954	574.736			

* 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 13 Hrs	C. Evening Peak at 19 Hrs	D. Night Minimum at 3 Hrs
MSPGCL Thermal	5274	5267	5135	4486
MSPGCL Hydro	1756	1544	1152	108
MSPGCL Gas	270	290	291	241
MSPGCL Total Generation	7300	7100	6578	4836
Central Sector Receipt	8361	7758	5905	5805
WIND	282	233	338	786
CPP / IPP Thermal	4463	4571	4620	3151
CPP / IPP Gas	0	0	0	0
SOLAR	928	956	0	0
Exchange with Mumbai	-891	-843	-744	-704
MSEDCL DEMAND MET	20444	19776	16698	13874
Load Shedding	0	0	0	0
MSEDCL DEMAND	20444	19776	16698	13874
TPCL GENERATION	1047	1047	1012	508
AEML GENERATION	499	500	499	283
MUMBAI DEMAND	2437	2390	2255	1495
STATE DEMAND MET	22880	22166	18952	15368
STATE DEMAND	22880	22166	18952	15368
Frequency (Hz)	49.97	49.99	50.03	49.98

FREQUENCY PARTICULARS

MAXIMUM FREQ.	MINIMUM FREQ.	AVERAGE FREQ.	FREQ. BELOW 49.2 Hz
50.2 Hz at 06.03 Hrs	49.79 Hz at 15.55 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 02/Jan/2021

Generating unit	Generation			
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)
Koradi				
Unit 6	2.20	5.01	145	0
Unit 7	1.50	4.37	110	0
Unit 8	13.15	24.59	633	467
Unit 9	13.96	25.88	625	515
Unit 10	0.00	0.00	0	0
Total	30.80	59.86		
Bhusawal				
Unit 3	1.76	1.76	160	0
Unit 4	11.00	21.45	480	450
Unit 5	0.00	0.00	0	0
Total	12.76	23.21		
Parli				
Unit 4	0.00	0.00	0	0
Unit 5	0.00	0.00	0	0
Unit 6	5.34	10.43	250	165
Unit 7	5.05	10.21	249	155
Unit 8	5.42	10.70	251	172
Total	15.81	31.34		
Chandrapur				
Unit 3	4.00	7.98	177	120
Unit 4	3.76	7.50	162	139
Unit 5	7.62	15.62	340	280
Unit 6	0.86	0.86	334	0
Unit 7	6.74	14.87	305	245
Unit 8	0.00	0.00	0	0
Unit 9	11.41	23.07	495	404
Total	34.39	69.90		
Paras				
Unit 3	5.33	10.90	240	160
Unit 4	5.76	11.40	250	182
Total	11.09	22.30		
Khaparkheda				
Unit 1	3.52	6.73	160	120
Unit 2	4.10	7.70	185	115
Unit 3	2.82	6.98	175	0
Unit 4	4.35	8.47	190	130
Unit 5	0.00	8.74	0	0
Total	14.80	38.63		
Nasik				
Unit 3	0.00	0.00	0	0
Unit 4	3.96	7.62	196	128
Unit 5	0.00	0.00	0	0
Total	3.96	7.62		
Uran				
All Units	6.43	12.95	293	232
Total	6.43	12.95		
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)	0.58	1.17	27	22

Generating unit	Generation			
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)
Total	0.58	1.17		
Koyna				
Stage 1-2	3.08	6.95	450	35
Stage 4	8.55	12.60	752	0
Stage 3	2.42	4.04	320	0
Total	14.05	23.58		
Hydro				
KDPH	0.44	0.89	19	19
VTRNA	0.00	0.00	0	0
TILLARI	0.00	0.00	0	0
BHTGR/VEER	0.00	0.00	0	0
BHIRA T.R.	0.22	0.46	40	0
RNGR+BHTSA	0.36	0.72	15	15
BHANDARDRA	0.00	0.00	0	0
ELDARY	0.36	0.72	15	14
SMLHY_PTN	0.24	0.49	10	9
GHATGHAR	1.23	2.50	250	0
Total	2.84	5.77		
Wind				
Total	12.94	27.03	0	0
Total	12.94	27.03		
CPP				
APML(Mus)	24.08	39.84	0	0
JSWEL(Mus)	18.59	37.59	0	0
VIPL(Mus)	0.00	0.00	0	0
RPLAMT(Mus)	28.63	55.55	0	0
WPCL(Mus)	8.16	15.99	0	0
Other(Mus)	18.10	35.14	0	0
Total	97.57	184.10		
SOLAR				
Total	5.84	11.71	0	0
Total	5.84	11.71		
Tata				
Trombay 5	9.11	18.10	463	275
Trombay 6	0.00	0.00	0	0
Trombay 7A	0.70	1.88	49	0
Trombay 7B	0.55	1.50	40	0
Trombay 8	4.56	9.06	231	137
TATA Hydro	3.97	6.88	345	0
Total	18.90	37.41		
AEML				
DTPS U-1&2	9.77	19.33	500	281
Total	9.77	19.33		

* Infirm Power			Summary			Summary		
Particulars	Daily (Mus)	Monthly	Particulars	Daily (Mus)	Monthly (Mus)	Particulars	Daily (Mus)	Monthly (Mus)
			MSPGCL Thermal	123.60	252.85	MSPGCL Total	146.93	295.16
			MSPGCL Thml+Gas	130.03	265.80	Koyna 1,2 & 4 Total	11.62	19.55
			MSPGCL Hydro	16.89	29.36	State Total	291.95	574.74

State Load Despatch Center,Airoli (MSETCL)

Annexure-2

Hourly Load Data As on 02/Jan/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	4964	108	232	5304	976	3300	0	0	5709	5692	-824	14448	0	14448	1663	16112	50.03
2	4739	104	242	5084	843	3126	0	0	5926	5616	-763	13906	0	13906	1561	15468	50.00
3	4486	108	241	4836	786	3151	0	0	6013	5805	-704	13874	0	13874	1495	15368	49.98
4	4588	154	243	4984	727	3125	0	0	6011	5952	-664	14124	0	14124	1452	15576	50.03
5	4827	124	252	5202	810	3163	0	0	6249	6365	-665	14876	0	14876	1455	16330	50.02
6	4923	188	243	5354	914	3556	0	0	6795	6737	-744	15818	0	15818	1534	17352	50.03
7	5168	108	253	5530	981	3860	0	5	7585	7279	-723	16932	0	16932	1612	18544	50.07
8	5308	636	242	6186	978	4044	0	64	7460	7597	-444	18424	0	18424	1748	20172	50.03
9	5307	886	243	6436	836	4160	0	268	7687	7737	-620	18816	0	18816	1958	20774	50.00
10	5424	1020	262	6706	580	4251	0	517	7885	7900	-756	19198	0	19198	2199	21398	49.97
11	5478	1514	290	7282	366	4332	0	802	8372	8233	-864	20150	0	20150	2387	22538	49.92
12	5274	1756	270	7300	282	4463	0	928	8269	8361	-891	20444	0	20444	2437	22880	49.97
13	5267	1544	290	7100	233	4571	0	956	7885	7758	-843	19776	0	19776	2390	22166	49.99
14	5311	1196	279	6786	225	4478	0	877	7784	7697	-736	19328	0	19328	2261	21588	49.95
15	5306	1238	269	6812	205	4504	0	725	8030	8036	-744	19538	0	19538	2236	21774	49.92
16	5252	1284	279	6816	210	4503	0	444	7992	7816	-671	19118	0	19118	2204	21322	49.95
17	5268	1482	280	7030	161	4576	0	223	7309	7140	-662	18468	0	18468	2187	20656	49.98
18	5182	1268	281	6732	208	4569	0	34	6470	6407	-637	17312	0	17312	2167	19480	49.98
19	5135	1152	291	6578	338	4620	0	0	5947	5905	-744	16698	0	16698	2255	18952	50.03
20	5239	596	292	6128	427	4565	0	0	5889	5520	-727	15912	0	15912	2234	18146	49.99
21	5288	122	282	5692	462	4332	0	0	5856	6065	-902	15650	0	15650	2102	17752	50.00
22	5349	108	292	5748	482	4238	0	0	5601	5502	-1047	14924	0	14924	1960	16884	50.03
23	5277	102	292	5672	463	4069	0	0	5730	5394	-1001	14596	0	14596	1810	16406	50.00
24	5240	92	293	5626	445	4012	0	0	5757	5490	-947	14626	0	14626	1695	16320	50.01
MUs	123.60	16.89	6.43	146.93	12.94	97.57	0.00	5.84	164.21	162.00	-18.32	406.96	0.00	406.96	47.00	453.96	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 02/Jan/2021

Position as on 6.30 Hrs of 03/Jan/2021

Generating Company	Name of Generating Unit	Capacity	Tripped Date	Tripped Time	Sync.Date	Sync. Time	Reason of Outage	Expected Date
PLANNED OUTAGE								
MSPGCL	Koyna STG-IV Unit-2	250	23/11/2020	08.00		Continued.	Capital Overhaul	
MSPGCL	Chandrapur Unit-8	500	20/12/2020	00.00		Continued.	Annual Overhaul	
MSPGCL	Khaparkhedda Unit 5	500	01/01/2021	23.13		Continued.	Annual Overhaul	
FORCED OUTAGE								
IPP	SWPGL U-1	135	16/02/2016	17.09		Continued.	No PPA.	
PGPL	PGPL U1	262	07/02/2017	17.30		Continued.	No Schedule	
PGPL	PGPL U2	126	07/02/2017	17.30		Continued.	No Schedule	
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	
IPP	VIPL U-2	300	17/01/2019	00.15		Continued.	Coal Shortage	
MSPGCL	Bhusawal Unit 3	210	01/09/2019	17.56	02/01/2021	06.35	Zero Schedule from 18:00hrs of 28/09/2019	
MSPGCL	Nasik Unit 5	210	12/12/2019	10.25		Continued.	PA Fan Problem (Under Case 4 Bidding From 11.00Hrs DT. 13-12-2019)	
MSPGCL	Uran Unit 8	108	01/03/2020	20.57		Continued.	Gas shortage	
MSPGCL	Uran Unit B0	120	25/05/2020	12.51		Continued.	Turbine Blade Failure	
MSPGCL	Uran Unit 7	108	25/05/2020	12.51		Continued.	Turbine Blade Failure	
IPP	JSW (J) U2	300	01/11/2020	04.44		Continued.	No Schedule	
MSPGCL	Nasik Unit 3	210	03/12/2020	06.45		Continued.	Economizer Tube Leakage. (Zero Schedule from 18:45hrs of 05.12.2020)	
IPP	Adani U-4	660	15/12/2020	23.48		Continued.	Zero schedule.	
IPP	Adani U-5	660	16/12/2020	03.50	02/01/2021	07.15	Zero schedule.	
IPP	Adani U-1	660	16/12/2020	10.58		Continued.	Withdrawal For RSD.	
IPP	Adani U-3	660	23/12/2020	23.59		Continued.	Turbine Bearing Vibration.	
MSPGCL	Bhusawal Unit 5	500	24/12/2020	21.15		Continued.	Due to clinker formed inside the bottom ash hopper	
MSPGCL	Koradi Unit 10	660	25/12/2020	10.56	03/01/2021	22.40	Boiler Tube Leakage	
MSPGCL	Chandrapur Unit 6	500	30/12/2020	07.07	02/01/2021	20.31	Boiler Tube Leakage	
MSPGCL	Koradi Unit 7	210	02/01/2021	11.05	02/01/2021	20.21	Flame Failure	
MSPGCL	Koradi Unit 6	210	02/01/2021	11.09	02/01/2021	16.53	Flame Failure	
TPC-G	Trombay 7B	60	02/01/2021	14.06		Continued.	Gas shortage	
TPC-G	Trombay 7A	120	02/01/2021	14.27		Continued.	Gas shortage	
MSPGCL	Khaparkhedda Unit 3	210	02/01/2021	17.30		Continued.	Boiler Tube Leakage	
MSPGCL	Bhusawal Unit 3	210	02/01/2021	22.35	03/01/2021	02.43	Boiler Pressure High.	
MSPGCL	Koradi Unit 9	660	03/01/2021	01.24	03/01/2021	04.29	Flame Failure	
MSPGCL	Bhusawal Unit 3	210	03/01/2021	19.37		Continued.	Stator Earth Fault	

State Load Despatch Center,Airoli (MSETCL)
Details of Line outages/Trippings for 02/Jan/2021

Statement-VII

Position as on 6.30 Hrs of 03/Jan/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 - Tirora - I	IntraState	02/01/2021	08.27	03/01/2021	16.58	PO	Annual Maintenance Work
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	31/12/2020	16.57	02/01/2021	10.15	HT	Over Voltage
Dhule Sar'Sarovar I	InterState	02/01/2021	11.35		Continued.	PO	Replacement of damaged earthwire, replacement PID suspicious disc insulator and other maintenance work.(RFC 02.01.2020 17:30)
Karad - Jaigad - II	IntraState	16/09/2020	23.34	03/01/2021	12.33	HT	Over Voltage (Tower Collapsed Loc No.150 at 18.59Hrs DT.27/09/2020).
Jaigad-Karad Ckt-I	IntraState	27/09/2020	18.59	03/01/2021	12.03	T	Distance Protection(Tower Collapsed Loc No.150 at 18.59Hrs DT.27/09/2020).
Lonikand 1 - Talegaon(Pgcil)	IntraState	31/12/2020	10.17		Continued.	PO	1)Erection of 89A(N+27) & 90A(N+27); 2) loc no. 89A to 90A stringing; 3) loc no. 89A to 82 stringing;4) loc no. 90 to 92 stringing; 5)Dismantling of old towers 89 & 90
Dhule- Bableshwar - I	IntraState	01/01/2021	19.32	02/01/2021	07.38	HT	Over Voltage
Khadka-Aurangabad (Waluj)	IntraState	01/01/2021	23.41	02/01/2021	06.35	HT	Over Voltage
Khadka-Aurangabad (Waluj)	IntraState	02/01/2021	21.08	03/01/2021	07.53	HT	Over Voltage
Dhule - Bableshwar - II	IntraState	02/01/2021	21.18	03/01/2021	10.18	HT	Over Voltage
Karad-Jaigad - I	IntraState	03/01/2021	19.39		Continued.	HT	Heavy sparking Observed at B-Ph line isolator
Khadka-Aurangabad (Waluj)	IntraState	03/01/2021	20.21		Continued.	HT	Over Voltage
Dhule- Bableshwar - I	IntraState	03/01/2021	22.11		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 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.
400/220/33 Kv 315 Mva Ict 2 @Dhule	IntraState	23/09/2020	09.12		Continued.	PO	Augmentation work of 400/220 315MVA ICT-II to 501MVA
400/220/33 Kv 315 MVA ICT -I @Kharghar	IntraState	02/01/2021	10.28	02/01/2021	18.24	PO	Diagnostic Test (DCRM Test of CB).
400/220/33 Kv 315 Mva ICT I @ Akola (M)	IntraState	02/01/2021	11.38	02/01/2021	20.22	T	Buchholz Protection.
400/220 Kv 500 MVA ICT-III @Kalwa	IntraState	03/01/2021	09.07	03/01/2021	17.54	PO	Testing Work
400/220/33 Kv 315 Mva ICT I @ Akola (M)	IntraState	03/01/2021	10.13	03/01/2021	16.51	T	B-PH Buccholz Fault.
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)
Parli 3 (Old Gcr)-Girwali Ckt-3	IntraState	20/08/2020	13.05		Continued.	PO	Erection of Tower Due to Railway Crossing
Parli 3(Old Gcr)- Girwali Ckt 4	IntraState	20/08/2020	13.06		Continued.	PO	Erection of Tower Due to Railway Crossing
Trombay - Kalwa	IntraState	16/12/2020	06.43		Continued.	PO	HTLS work.
Trombay Carnac 5	IntraState	02/01/2021	07.36	02/01/2021	19.49	PO	Conductor replacement work.
Boisar II - Boisar PG I	IntraState	02/01/2021	09.26	02/01/2021	21.13	PO	R/M works of complete bay.
Phursungi-Serum	IntraState	02/01/2021	09.54	02/01/2021	15.56	PO	Replacement of PID faulty string at L.N.18.19.21.

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 02/Jan/2021

Statement-VII

Position as on 6.30 Hrs of 03/Jan/2021

Name of Line	Inter State / Intra State	Tripped Date	Tripped Time	Sync. Date	Sync. Time	Outage Type	Reason of Outage
Trombay-Salsette II	IntraState	02/01/2021	09.55	02/01/2021	19.35	PO	Work in Vicinity.
Boisar Versova Line	IntraState	02/01/2021	09.59	02/01/2021	21.19	HT	Load management.
Hingoli- Girawali	IntraState	02/01/2021	10.39	02/01/2021	16.57	PO	Repairing of Conductor between loc 252-253.
Chikhli-Jalna-I	IntraState	02/01/2021	11.38	03/01/2021	20.47	T	LTS Operated.
Chikhli-Jalna-II	IntraState	02/01/2021	11.38	03/01/2021	20.50	T	LTS Operated.
Apta - Hoc	IntraState	02/01/2021	11.44	02/01/2021	17.45	T	Apta Bus Section outage.
Vilebagad-Kandalgaon(Inox tap)	IntraState	02/01/2021	12.00	02/01/2021	20.20	PO	Line Isolator maintenance at 220 KV Vilebhagad ss end.
Apta - Kalwa1	IntraState	02/01/2021	12.38	02/01/2021	17.55	HT	Apta Bus Section outage.
Apta - Tambati	IntraState	02/01/2021	12.42	02/01/2021	17.50	HT	Apta Bus Section outage.
Uran - Apta II	IntraState	02/01/2021	12.45	02/01/2021	17.46	HT	Apta Bus Section outage.
Apta - Bombay Dyeing	IntraState	02/01/2021	12.46	02/01/2021	17.52	HT	Apta Bus Section outage.
TOPWORTH VILEBHAGAD	IntraState	02/01/2021	16.10	02/01/2021	17.20	PO	AMR Meter Work.
BHIRA (T) - KARANJADE CKT - 7	IntraState	03/01/2021	00.50	03/01/2021	06.00	PO	Routine Maintenance Work
Trombay Carnac 6	IntraState	03/01/2021	07.38	03/01/2021	19.52	PO	Conductor replacement
Padghe - Jambhul 2	IntraState	03/01/2021	08.49	03/01/2021	18.27	PO	Fixing of additonal Jumper
Trombay-Salsette II	IntraState	03/01/2021	09.19	03/01/2021	18.58	T	Work in Vicinity.
Chikhli-Jalna-II	IntraState	03/01/2021	10.13	03/01/2021	17.10	T	LTS Operated.
Chikhli-Jalna-I	IntraState	03/01/2021	10.13	03/01/2021	17.08	T	LTS Operated.
220 KV ICT Outages/Trippings							
220/100 Kv 100 Mva Emco Ict 1 @Tambati	IntraState	01/01/2021	09.40		Continued.	PO	Routine Maintenance Work
220/132kv 100MVA ICT @ KALWAN (BHENDI)	IntraState	02/01/2021	10.05	02/01/2021	16.00	PO	quarterly maintenance work & diagnostic testing work.
220/132 Kv 150 Mva Cgl Ptr No 7 @Chinchwad	IntraState	02/01/2021	11.07	02/01/2021	13.18	PO	For finding oil leakage from ICT top and attending same.
220/100 kV 200 MVA ICT III @Apta	IntraState	02/01/2021	12.40	02/01/2021	18.14	HT	Apta Bus Section outage.
220/100 Kv 200 MVA ICT IV @Apta	IntraState	02/01/2021	12.45	02/01/2021	18.11	HT	Apta Bus Section outage.
220/33KV 100MVA ICT II @ chakan	IntraState	03/01/2021	09.34	03/01/2021	18.33	PO	Attending Oil Leakage
220/132kv 100MVA ICT-II @ Alephata	IntraState	03/01/2021	11.15	03/01/2021	17.19	PO	Testing Work

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