

State Load Despatch Center, Airoli (MSETCL) Statement I
Daily system Report for 21/Jan/2017 SATURDAY

I GENERATION (MUs)			II EXCHANGES (MUs)		
A) MSPGCL	Daily	Monthly	E) InterState Exchanges	Daily	Monthly
1) Thermal	137.838	2821.181	1) Gujrat	-2.562	-10.763
2) Hydro	19.269	345.135	2) Madhya Pradesh	10.116	206.371
3) Gas	6.551	196.230	3) Chattisgarh	8.230	173.820
Total MSPGCL	163.658	3362.546	4) Maharashtra Net	125.697	2478.477
B) 1) APML	43.465	990.436	5) Goa (Amona)	-0.538	-13.478
2) JSWEL	9.231	193.889	Total	140.943	2834.427
3) VIPL	6.649	132.910	a) Mumbai Schedule	18.958	343.367
4) RPL(AMT)	0.000	0.000	b) Mumbai Drawl	24.903	465.749
5) WPCL	2.146	79.516	c) MSEDCL Bilateral *	34.495	711.233
6) PGPL	0.000	24.068	Include PX	5.172	68.944
7) Other IPP	7.909	177.341	d) Mumbai Bilateral *	18.958	343.367
C) 1) TPCL Thermal	5.342	138.158	Include PX	6.297	98.696
2) TPCL Hydro	5.649	108.742	Include Standby	0.000	0.000
3) TPCL Gas	2.253	72.954	H) ENERGY CATERED (MUs)		
4) R-INFRA Thermal	10.423	218.437	1) MSEDCL	358.666	7462.632
D) STATE			2) Mumbai Discoms	48.571	1004.045
1) Thermal	223.003	4751.868	TOTAL STATE	407.237	8466.677
(A1+C1+C4+(B1-B6))					
2) Hydro	24.918	453.877			
(A2+C2)					
3) Gas	8.804	293.252			
(A3+B6+C3)					
4) Wind	8.367	109.107			
6) SOLAR	1.201	24.141			
TOTAL STATE	266.293	5632.245			

* 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	6379	6439	6021	4906
MSPGCL Hydro	1830	1777	854	102
MSPGCL Gas	201	270	289	299
MSPGCL Total Generation	8410	8486	7164	5307
Central Sector Receipt	6734	6546	6395	4499
WIND	416	435	145	493
CPP / IPP Thermal	2866	2868	2871	2876
CPP / IPP Gas	0	0	0	0
SOLAR	183	174	0	0
Exchange with Mumbai	-1266	-1220	-1244	-721
MSEDCL DEMAND MET	17343	17289	15331	12454
Load Shedding	0	0	0	0
MSEDCL DEMAND	17343	17289	15331	12454
TPCL GENERATION	737	745	708	295
R-INFRA GENERATION	503	508	396	387
MUMBAI DEMAND	2506	2473	2348	1403
STATE DEMAND MET	19849	19762	17679	13857
STATE DEMAND	19849	19762	17679	13857
Frequency (Hz)	49.99	49.96	49.97	49.98

FREQUENCY PARTICULARS

MAXIMUM FREQ.	MINIMUM FREQ.	AVERAGE FREQ.	FREQ. BELOW 49.2 Hz
50.14 Hz at 17:01 Hrs	49.8 Hz at 18:11 Hrs	49.98	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 21/Jan/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	3.57	43.24	160	140
Unit 8	0.00	0.00	0	0
Unit 9	11.56	241.46	636	261
Unit 10	0.00	81.18	0	0
Total	15.13	365.87		
Bhusawal				
Unit 2	0.00	0.00	0	0
Unit 3	0.00	0.00	0	0
Unit 4	10.67	187.48	510	360
Unit 5	10.42	215.43	505	370
Total	21.08	402.92		
Parli				
Unit 4	0.00	0.00	0	0
Unit 5	0.00	0.00	0	0
Unit 6	0.00	99.94	0	0
Unit 7	5.16	108.91	245	191
Unit 8	0.00	0.00	0	0
Total	5.16	208.85		
Chandrapur				
Unit 3	4.50	93.22	200	165
Unit 4	4.48	92.34	198	170
Unit 5	10.01	205.99	460	361
Unit 6	7.97	175.46	425	0
Unit 7	9.35	144.49	430	337
Unit 8	8.03	168.12	500	0
Unit 9	10.30	154.85	508	308
Total	54.64	1034.47		
Paras				
Unit 3	0.00	0.00	0	0
Unit 4	5.42	110.72	251	190
Total	5.42	110.72		
Khaparkheda				
Unit 1	4.22	86.74	190	160
Unit 2	4.27	86.72	195	160
Unit 3	4.41	86.35	202	160
Unit 4	4.25	48.65	190	152
Unit 5	10.63	216.52	500	380
Total	27.77	524.99		
Nasik				
Unit 3	0.00	0.00	0	0
Unit 4	4.32	87.39	205	164
Unit 5	4.31	85.96	200	165
Total	8.64	173.35		
Uran				
All Units	6.55	196.23	351	144
Total	6.55	196.23		
PGPL				
Unit 1	0.00	14.50	0	0
Unit 2	0.00	9.57	0	0
Total	0.00	24.07		

Generating unit	Generation			
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)
PENCH (MS)				
Pench (MS)	0.24	9.42	52	0
Total	0.24	9.42		
Koyna				
Stage 1-2	4.42	82.30	430	40
Stage 4	7.22	120.03	760	0
Stage 3	2.29	40.87	240	0
Total	13.93	243.20		
Hydro				
KDPH	0.44	7.82	19	18
VTRNA	1.02	12.73	60	0
TILLARI	0.50	7.84	64	0
BHTGR/VEER	0.00	0.00	0	0
BHIRA T.R.	0.30	6.36	80	0
RNGR+BHTSA	0.32	6.40	14	13
BHANDARDRA	0.00	5.14	0	0
ELDARY	0.28	2.00	12	11
SMLHY_PTN	0.46	12.50	29	16
GHATGHAR	2.01	41.15	250	0
Total	5.34	101.93		
Wind				
Total	8.37	109.11	0	0
Total	8.37	109.11		
CPP				
APML(Mus)	43.46	990.44	0	0
JSWEL(Mus)	9.23	193.89	0	0
VIPL(Mus)	6.65	132.91	0	0
RPLAMT(Mus)	0.00	0.00	0	0
WPCL(Mus)	2.15	79.52	0	0
Other(Mus)	7.91	177.34	0	0
Total	69.40	1574.09		
SOLAR				
Total	1.20	24.14	0	0
Total	1.20	24.14		
Tata				
Trombay 5	0.00	26.38	0	0
Trombay 6	0.00	0.00	0	0
Trombay 7A	1.25	44.35	53	52
Trombay 7B	1.00	28.61	43	40
Trombay 8	5.34	111.78	250	201
TATA Hydro	5.65	108.74	424	5
Total	13.24	319.85		
R-INFRA				
1-2	10.42	218.44	510	385
Total	10.42	218.44		

* Infirm Power			Summary			Summary		
Particulars	Daily (Mus)	Monthly	Particulars	Daily (Mus)	Monthly (Mus)	Particulars	Daily (Mus)	Monthly (Mus)
			MSPGCL Thermal	137.84	2821.18	MSPGCL Total	163.66	3362.55
			MSPGCL Thml+Gas	144.39	3017.41	Koyna 1,2 & 4 Total	11.64	202.33
			MSPGCL Hydro	19.27	345.14	State Total	266.29	5632.24

State Load Despatch Center,Airoli (MSETCL)

Annexure-2

Hourly Load Data As on 21/Jan/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	4993	102	283	5378	485	2865	0	0	4625	4720	-899	12549	0	12549	1581	14130	49.98
2	4986	102	290	5378	466	2895	0	0	4760	4473	-793	12419	0	12419	1474	13893	49.97
3	4906	102	299	5307	493	2876	0	0	4656	4499	-721	12454	0	12454	1403	13857	49.98
4	4709	100	311	5120	508	2895	0	0	4518	4795	-678	12640	0	12640	1360	14000	49.96
5	4780	111	305	5196	459	2893	0	0	4858	4929	-687	12790	0	12790	1372	14162	49.96
6	5189	396	323	5908	449	2897	0	0	5228	5361	-734	13881	0	13881	1514	15395	49.99
7	5817	582	351	6750	489	2906	0	0	5778	5446	-674	14917	0	14917	1650	16567	49.98
8	6114	1399	256	7769	496	2926	0	6	6150	6357	-679	16875	0	16875	1836	18711	49.96
9	6199	1691	146	8036	400	2932	0	54	6557	6640	-749	17313	0	17313	2013	19326	49.95
10	6201	1809	144	8154	344	2919	0	112	6258	6208	-1162	16575	0	16575	2338	18913	49.99
11	6262	1804	173	8239	338	2905	0	138	6381	6332	-1237	16715	0	16715	2447	19162	49.99
12	6379	1830	201	8410	416	2866	0	183	6807	6734	-1266	17343	0	17343	2506	19849	49.99
13	6439	1777	270	8486	435	2868	0	174	6954	6546	-1220	17289	0	17289	2473	19762	49.96
14	6529	1154	281	7964	361	2879	0	175	6918	6632	-1174	16837	0	16837	2350	19187	49.99
15	6437	761	282	7480	281	2912	0	152	6916	6849	-1165	16509	0	16509	2325	18834	49.94
16	6383	989	274	7646	225	2903	0	116	6914	6966	-1182	16674	0	16674	2319	18993	49.97
17	6425	1287	279	7991	161	2890	0	73	6312	6369	-1150	16334	0	16334	2330	18664	49.97
18	6384	952	290	7626	132	2907	0	18	6127	5973	-1070	15586	0	15586	2320	17906	49.98
19	6021	854	289	7164	145	2871	0	0	6199	6395	-1244	15331	0	15331	2348	17679	49.97
20	6272	455	301	7028	180	2857	0	0	6342	5992	-1370	14687	0	14687	2353	17040	50.02
21	5623	234	294	6151	183	2855	0	0	6212	6240	-1384	14045	0	14045	2237	16282	50.03
22	4947	372	307	5626	229	2896	0	0	5569	5879	-1295	13335	0	13335	2131	15466	49.99
23	4953	238	296	5487	328	2889	0	0	5349	5356	-1224	12836	0	12836	1999	14835	49.96
24	4890	168	306	5364	364	2900	0	0	5365	5252	-1146	12734	0	12734	1891	14625	50.02
MUs	137.84	19.27	6.55	163.66	8.37	69.40	0.00	1.20	141.75	140.94	-24.90	358.67	0.00	358.67	48.57	407.24	49.98

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 21/Jan/2017

Position as on 6.30 Hrs of 22/Jan/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	Paras Unit 3	250	25/10/2016	08.54		Continued.	(Stator Fault)continued under AOH.26/10/2016 00.00hrs	
MSPGCL	Koradi Unit-8	660	12/12/2016	23.59		Continued.	Annual Overhaul	
TPC-G	Trombay 5	500	03/01/2017	21.49		Continued.	Annual Overhaul	
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	WPCL U-1	135	16/02/2016	17.09		Continued.	No PPA.	
IPP	WPCL U-2	135	29/02/2016	21.46		Continued.	Change over against Unit III	
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)	
IPP	RPL(AMT) U-3	270	29/06/2016	03.01		Continued.	Zero Shedule By MSEDCL.	
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	
MSPGCL	Bhusawal Unit 3	210	16/09/2016	00.02		Continued.	Zero Schedule by MSEDCL	
IPP	Adani U-1	660	06/11/2016	11.10		Continued.	Coal Shortage	
IPP	RPL(AMT) U-5	270	15/11/2016	20.00		Continued.	Zero schedule	
IPP	JSW (J) U1	300	16/11/2016	14.38		Continued.	Due To CW Duct Leakage.	
IPP	RPL(AMT) U-4	270	16/11/2016	21.03		Continued.	Zero Schedule By MSEDCL.	
IPP	RPL(AMT) U-2	270	16/11/2016	22.36		Continued.	Zero Schedule By MSEDCL.	
IPP	RPL(AMT) U-1	270	17/11/2016	17.23		Continued.	Zero Schedule.	
MSPGCL	Parli Unit 8	250	18/11/2016	16.23		Continued.	w/dn for balance work.	
IPP	JSW (J) U2	300	01/12/2016	00.00		Continued.	No Schedule.	

State Load Despatch Center,Airoli (MSETCL) Statement-VI
Details of Generating Unit Outages/Trippings for 21/Jan/2017

Position as on 6.30 Hrs of 22/Jan/2017

Generating Company	Name of Generating Unit	Capacity	Tripped Date	Tripped Time	Sync.Date	Sync. Time	Reason of Outage	Expected Date
MSPGCL	Nasik Unit 3	210	11/12/2016	16.50		Continued.	withdraw on BTL ,converted to zero schedule w.e.f 16.12.2016 at 00:00 Hrs	
IPP	VIPL U-1	300	03/01/2017	00.45		Continued.	turbine bearing temprature high.	
PGPL	PGPL U1	262	13/01/2017	19.15		Continued.	No schedule.	
PGPL	PGPL U2	126	13/01/2017	19.15		Continued.	No schedule.	
MSPGCL	Koradi Unit 10	660	15/01/2017	04.10	22/01/2017	05.09	Boiler Tube Leakage	
MSPGCL	Uran Unit 6	108	18/01/2017	09.55	21/01/2017	04.56	Gas shortage	
MSPGCL	Koyna STG- IV Unit - 1	250	19/01/2017	17.00		Continued.	GV Bolt Replacement.	
MSPGCL	Parli Unit 6	250	20/01/2017	05.30		Continued.	Drum level low	
MSPGCL	Chandrapur Unit-8	500	21/01/2017	02.39	21/01/2017	06.33	Drum level low	
CPP	WPCL U-4	135	21/01/2017	06.01		Continued.	Drag chain conveyer problem.	
MSPGCL	Uran Unit 7	108	21/01/2017	07.20		Continued.	Gas shortage	
MSPGCL	Uran Unit B0	120	21/01/2017	07.22		Continued.	Gas shortage	
MSPGCL	Uran Unit 6	108	21/01/2017	07.35	21/01/2017	09.50	Bearing vibration high	
MSPGCL	Chandrapur Unit 6	500	21/01/2017	20.45		Continued.	Boiler Tube Leakage	
MSPGCL	Koradi Unit 7	210	22/01/2017	01.47		Continued.	Water Valve leakage	

State Load Despatch Center,Airoli (MSETCL)
Details of Line outages/Trippings for 21/Jan/2017

Statement-VII

Position as on 6.30 Hrs of 22/Jan/2017

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							
Dhule Sar'Sarovar II	InterState	20/01/2017	19.15	21/01/2017	07.21	HT	Over Voltage
Dhule Sar'Sarovar I	InterState	21/01/2017	17.42	21/01/2017	07.21	HT	Over Voltage
Dhule Sar'Sarovar I	InterState	22/01/2017	18.05		Continued.	HT	Over Voltage
karad -kolhapur-I	IntraState	17/01/2017	16.39	21/01/2017	09.48	HT	Opportunity Outage availed on 19.01.2017 at 09.45Hrs for Cold Washing of Insulator(RFC @ 19.15 Hrs).
TBC @ Babhaleshwar	IntraState	18/01/2017	16:50	21/01/2017	20.00	PO	Repairing,Retrofitting & Alignment Work of 400KV PG Isolator.
Karad-Jaigad - I	IntraState	20/01/2017	16.36	21/01/2017	09.45	HT	Over Voltage
Bhusawal-Aurangabad	IntraState	20/01/2017	19.08	21/01/2017	07.16	HT	Over Voltage
karad -kolhapur-II	IntraState	21/01/2017	16.37	22/01/2017	10.05	HT	Over Voltage
Karad-Jaigad - I	IntraState	21/01/2017	16.42	22/01/2017	10.08	HT	Over Voltage
Bhusawal-Aurangabad	IntraState	21/01/2017	19.58	22/01/2017	07.15	HT	Over Voltage
koaradi II - Wardha(PG)	IntraState	22/01/2017	09.45	22/01/2017	18.43	PO	Testing Work
karad -kolhapur-I	IntraState	22/01/2017	16.03		Continued.	HT	Over Voltage
Karad - Jaigad - II	IntraState	22/01/2017	16.04		Continued.	HT	Over Voltage
New Koyana - Koyana Stage IV-II	IntraState	22/01/2017	16.30		Continued.	T	Over Voltage
Bhusawal-Aurangabad	IntraState	22/01/2017	19.39		Continued.	HT	Over Voltage
400 KV ICT Outages/Trippings							
400/220/33 Kv 500 MVA ICT-I @Lonikand 2	IntraState	21/01/2017	10.12	21/01/2017	14.20	PO	Attending Oil Leakage
220 KV LINE Outages/Trippings							
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.
Wani-Warora	IntraState	21/01/2017	07.00	21/01/2017	18.26	PO	Erection Of New Line Tower At Loc 29 Due To Damaged Leg.
Mahape - TIFIL	IntraState	21/01/2017	08.42	21/01/2017	22.28	PO	LA REplacement Work.
Tata Borivli MSETCL Borivli 5	IntraState	21/01/2017	09.30	21/01/2017	12.20	PO	Attending Hot Spot
Nagar-Bose I	IntraState	21/01/2017	10.05	21/01/2017	14.04	PO	Line Maintenance work
Infosys - Hinjawadi 1	IntraState	21/01/2017	10.05	21/01/2017	16.41	PO	To Increase Voltage At Solhapur & Control Line Loading Of Above Two Lines.
Trombay Carnac 5	IntraState	21/01/2017	10.30	21/01/2017	19.38	PO	Routine Maintenance Work
Nasik - Raymond	IntraState	21/01/2017	16.23	21/01/2017	18.06	PO	Testing Work
Alephata-Pargaon(Kathapur)	IntraState	21/01/2017	22.37	21/01/2017	23.00	T	Distance Protection
Wani-Warora	IntraState	22/01/2017	10.03	22/01/2017	12.58	PO	Damaged Leg Of Tower.
Trombay Carnac 5	IntraState	22/01/2017	10.30	22/01/2017	14.30	PO	Annual Maintenance Work
Bhira Dharavi 8	IntraState	22/01/2017	22.25		Continued.	PO	Attending Hot Spot
Trombay Salsette 1 Backbay	IntraState	22/01/2017	23.25		Continued.	PO	Attending Hot Spot
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)
220/100 Kv 50 Mva Gec Ict 1 @Kandalgaon	IntraState	15/12/2016	12.15		Continued.	PO	Augmentation Work(Outage for 3 Months).

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 21/Jan/2017

Statement-VII

Position as on 6.30 Hrs of 22/Jan/2017

Name of Line	Inter State / Intra State	Tripped Date	Tripped Time	Sync. Date	Sync. Time	Outage Type	Reason of Outage
220/132 Kv 100 Mva Gec Ict 1 @Pusad	IntraState	13/01/2017	15.23		Continued.	PO	Work of tap changer.
220/33kV 100 MVA Transformer 4 @Versova R/S	IntraState	21/01/2017	08.15	21/01/2017	21.55	PO	Annual Maintenance Work
220/33kV 125 MVA Transformer 3 @Saki R/S	IntraState	21/01/2017	08.47	21/01/2017	17.36	PO	Testing Work
220/33 Kv 100 Mva Cgl Ptr 3 @Jamde	IntraState	21/01/2017	11.16	21/01/2017	13.40	PO	Tan Delta Measurment of CTs
220/33kV 100 MVA Transformer 3 @Ghodbunder R/S	IntraState	21/01/2017	12.01	21/01/2017	13.44	PO	33KV incomer CB Maint. work.
220/132 kV 200 MVA ICT-III @ Nanded	IntraState	21/01/2017	15.07	21/01/2017	17.03	PO	Tan Delta Measurment of CTs
220/33kV 125 MVA Transformer 1 @Saki R/S	IntraState	22/01/2017	00.28	22/01/2017	04.05	PO	Testing Work
Carnac : 220 / 110 / 33 315 MVA ICT 5	IntraState	22/01/2017	09.50	22/01/2017	14.30	PO	Checking Gas Purity.
132 KV LINE Outages/Trippings							
Chitegaon - Paithan	IntraState	21/01/2017	00.00	22/01/2017	06.34	T	CKT Under Breakdown Y Phase Conductor Snapped AT Loc 99.
Waghala (Nanded2) - Umri 1	IntraState	21/01/2017	03.43	21/01/2017	04.39	T	Distance Protection

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