

State Load Despatch Center, Airoli (MSETCL) Statement I
Daily system Report for 06/Jun/2018 WEDNESDAY

I GENERATION (MUs)			II EXCHANGES (MUs)		
A) MSPGCL	Daily	Monthly	E) InterState Exchanges	Daily	Monthly
1) Thermal	132.542	795.374	1) Gujrat	-6.720	-37.461
2) Hydro	10.225	46.864	2) Madhya Pradesh	8.762	51.286
3) Gas	9.114	55.382	3) Chattisgarh	5.170	36.260
Total MSPGCL	151.881	897.620	4) Maharashtra Net	125.219	751.929
B) 1) APML	40.669	261.827	5) Goa (Amona)	-0.044	-0.462
2) JSWEL	26.549	155.246	Total	132.387	801.552
3) VIPL	9.408	58.832	a) Mumbai Schedule	30.828	193.541
4) RPL(AMT)	19.298	106.025	b) Mumbai Drawl	35.623	191.988
5) WPCL	5.572	31.992	c) MSEDCL Bilateral *	37.028	269.299
6) PGPL	0.000	0.000	Include PX	2.387	65.123
7) Other IPP	13.180	80.757	d) Mumbai Bilateral *	30.828	192.105
C) 1) TPCL Thermal	17.249	101.499	Include PX	6.921	51.280
2) TPCL Hydro	4.480	29.592	Include Standby	0.000	1.436
3) TPCL Gas	3.184	21.945	H) ENERGY CATERED (MUs)		
4) R-INFRA Thermal	11.921	70.379	1) MSEDCL	386.682	2339.370
D) STATE			2) Mumbai Discoms	72.457	415.404
1) Thermal	276.388	1661.931	TOTAL STATE	459.139	2754.774
(A1+C1+C4+(B1-B6))					
2) Hydro	14.705	76.456			
(A2+C2)					
3) Gas	12.298	77.327			
(A3+B6+C3)					
4) Wind	17.936	106.997			
6) SOLAR	5.425	30.510			
TOTAL STATE	326.752	1953.221			

* 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 21 Hrs	D. Night Minimum at 5 Hrs
MSPGCL Thermal	5438	5624	5643	5499
MSPGCL Hydro	506	363	1133	218
MSPGCL Gas	372	374	365	408
MSPGCL Total Generation	6316	6361	7141	6125
Central Sector Receipt	6072	6434	4863	4882
WIND	776	1054	830	280
CPP / IPP Thermal	4842	4857	4883	4804
CPP / IPP Gas	0	0	0	0
SOLAR	742	356	0	0
Exchange with Mumbai	-1811	-1780	-1467	-975
MSEDCL DEMAND MET	16937	17282	16250	15116
Load Shedding	0	0	0	0
MSEDCL DEMAND	16937	17282	16250	15116
TPCL GENERATION	1218	1324	1154	844
R-INFRA GENERATION	491	496	498	496
MUMBAI DEMAND	3520	3600	3119	2315
STATE DEMAND MET	20457	20882	19369	17431
STATE DEMAND	20457	20882	19369	17431
Frequency (Hz)	49.95	50.00	49.88	50.02

FREQUENCY PARTICULARS

MAXIMUM FREQ.	MINIMUM FREQ.	AVERAGE FREQ.	FREQ. BELOW 49.2 Hz
50.1 Hz at 04.59 Hrs	49.74 Hz at 19.35 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 06/Jun/2018

Generating unit	Generation			
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)
Koradi				
Unit 6	0.00	0.00	0	0
Unit 7	3.55	21.42	164	120
Unit 8	0.00	24.11	0	0
Unit 9	7.78	42.78	381	290
Unit 10	7.58	41.77	370	270
Total	18.91	130.08		
Bhusawal				
Unit 3	0.00	0.00	0	0
Unit 4	10.84	62.22	485	400
Unit 5	10.82	62.36	470	400
Total	21.66	124.58		
Parli				
Unit 4	0.00	0.00	0	0
Unit 5	0.00	0.00	0	0
Unit 6	5.54	29.45	250	184
Unit 7	5.48	28.86	245	191
Unit 8	5.27	19.43	232	184
Total	16.30	77.74		
Chandrapur				
Unit 3	0.00	0.00	0	0
Unit 4	0.00	0.00	0	0
Unit 5	11.18	66.10	470	460
Unit 6	0.00	0.00	0	0
Unit 7	10.62	62.46	453	400
Unit 8	7.85	51.90	404	270
Unit 9	7.66	46.15	360	279
Total	37.31	226.61		
Paras				
Unit 3	5.84	33.71	250	190
Unit 4	5.83	33.78	250	212
Total	11.67	67.49		
Khaparkheda				
Unit 1	0.00	6.78	0	0
Unit 2	3.25	17.90	150	125
Unit 3	3.41	20.32	155	134
Unit 4	3.21	19.72	150	106
Unit 5	7.90	54.97	340	320
Total	17.77	119.69		
Nasik				
Unit 3	4.51	26.94	193	180
Unit 4	0.00	0.13	0	0
Unit 5	4.42	22.10	191	172
Total	8.92	49.17		
Uran				
All Units	9.11	55.38	408	347
Total	9.11	55.38		
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)	0.00	0.31	0	0

Generating unit	Generation			
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)
Total	0.00	0.31		
Koyna				
Stage 1-2	3.99	19.57	460	40
Stage 4	2.97	9.14	500	0
Stage 3	1.63	6.23	164	0
Total	8.59	34.94		
Hydro				
KDPH	0.32	2.23	14	13
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	1.71	77	0
RNGR+BHTSA	0.25	1.49	11	10
BHANDARDRA	0.00	0.00	0	0
ELDARY	0.00	0.00	0	0
SMLHY_PTN	0.15	2.16	14	4
GHATGHAR	0.69	4.33	125	0
Total	1.63	11.92		
Wind				
Total	17.94	107.00	0	0
Total	17.94	107.00		
CPP				
APML(Mus)	40.67	261.83	0	0
JSWEL(Mus)	26.55	155.25	0	0
VIPL(Mus)	9.41	58.83	0	0
RPLAMT(Mus)	19.30	106.02	0	0
WPCL(Mus)	5.57	31.99	0	0
Other(Mus)	13.18	80.76	0	0
Total	114.68	694.68		
SOLAR				
Total	5.42	30.51	0	0
Total	5.42	30.51		
Tata				
Trombay 5	11.63	67.76	492	467
Trombay 6	0.00	0.00	0	0
Trombay 7A	1.93	13.63	91	60
Trombay 7B	1.26	8.31	56	46
Trombay 8	5.62	33.74	243	231
TATA Hydro	4.48	29.59	459	0
Total	24.91	153.04		
R-INFRA				
DTPS U-1&2	11.92	70.38	500	491
Total	11.92	70.38		

* Infirm Power			Summary			Summary		
Particulars	Daily (Mus)	Monthly	Particulars	Daily (Mus)	Monthly (Mus)	Particulars	Daily (Mus)	Monthly (Mus)
			MSPGCL Thermal	132.54	795.37	MSPGCL Total	151.88	897.62
			MSPGCL Thml+Gas	141.66	850.76	Koyna 1,2 & 4 Total	6.96	28.71
			MSPGCL Hydro	10.22	46.86	State Total	326.75	1953.22

State Load Despatch Center,Airoli (MSETCL)

Annexure-2

Hourly Load Data As on 06/Jun/2018

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	5501	782	385	6668	864	4841	0	0	4968	5039	-1452	15960	0	15960	2866	18826	49.99
2	5530	450	391	6371	578	4799	0	0	4893	4901	-1282	15367	0	15367	2640	18007	49.98
3	5482	296	407	6185	383	4778	0	0	4850	4939	-1141	15144	0	15144	2485	17629	50.02
4	5489	233	406	6128	313	4796	0	0	4791	5105	-1013	15329	0	15329	2356	17685	50.01
5	5499	218	408	6125	280	4804	0	0	4773	4882	-975	15116	0	15116	2315	17431	50.02
6	5499	123	407	6029	419	4810	0	0	5111	5346	-1000	15604	0	15604	2343	17947	50.01
7	5506	422	371	6299	339	4810	0	40	5128	5409	-1008	15889	0	15889	2328	18217	50.01
8	5528	287	347	6162	422	4786	0	160	5204	5472	-1134	15868	0	15868	2456	18324	50.04
9	5564	72	375	6011	332	4763	0	397	5417	5759	-1444	15818	0	15818	2787	18605	50.00
10	5494	342	371	6207	410	4789	0	621	5629	5812	-1647	16192	0	16192	3162	19354	49.96
11	5493	264	369	6126	660	4813	0	674	5777	5975	-1783	16465	0	16465	3428	19893	49.95
12	5438	506	372	6316	776	4842	0	742	5855	6072	-1811	16937	0	16937	3520	20457	49.95
13	5510	169	375	6054	846	4843	0	738	6525	6459	-1860	17080	0	17080	3515	20595	49.98
14	5544	208	383	6135	971	4728	0	749	6478	6487	-1786	17284	0	17284	3427	20711	49.99
15	5581	243	363	6187	1003	4749	0	520	6693	6420	-1827	17052	0	17052	3541	20593	49.95
16	5624	363	374	6361	1054	4857	0	356	6872	6434	-1780	17282	0	17282	3600	20882	50.00
17	5628	198	385	6211	1373	4774	0	287	6527	6046	-1731	16960	0	16960	3517	20477	49.99
18	5580	314	366	6260	1250	4575	0	123	5455	5292	-1679	15821	0	15821	3373	19194	50.01
19	5296	313	387	5996	1151	4495	0	18	5291	5360	-1568	15452	0	15452	3206	18658	49.99
20	5421	829	377	6627	743	4692	0	0	5203	5095	-1415	15742	0	15742	3154	18896	49.86
21	5643	1133	365	7141	830	4883	0	0	5090	4863	-1467	16250	0	16250	3119	19369	49.88
22	5645	1060	387	7092	1016	4894	0	0	4912	4762	-1580	16184	0	16184	3119	19303	49.90
23	5544	674	376	6594	1065	4813	0	0	5228	5168	-1590	16050	0	16050	3082	19132	49.86
24	5503	726	367	6596	858	4742	0	0	5466	5290	-1650	15836	0	15836	3118	18954	50.01
MUs	132.54	10.23	9.11	151.88	17.94	114.68	0.00	5.43	132.14	132.39	-35.62	386.68	0.00	386.68	72.46	459.14	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 06/Jun/2018

Position as on 6.30 Hrs of 07/Jun/2018

Generating Company	Name of Generating Unit	Capacity	Tripped Date	Tripped Time	Sync.Date	Sync. Time	Reason of Outage	Expected Date
PLANNED OUTAGE								
MSPGCL	Koradi Unit 6	210	09/07/2015	00.00		Continued.	EE R&M LE Work	
MSPGCL	Chandrapur Unit 6	500	04/01/2018	13.30		Continued.	Water Shortage, converted to AOH w.e.f 01.02.2018, 00:00Hrs	
FORCED OUTAGE								
TPC-G	Trombay 6	500	15/07/2015	17.08		Continued.	Economic shutdown. (NO PPA FROM 01.04.2018)	
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 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 U2	126	07/02/2017	17.30		Continued.	No Schedule	
PGPL	PGPL U1	262	07/02/2017	17.30		Continued.	No Schedule	
MSPGCL	Chandrapur Unit 3	210	03/12/2017	01.35		Continued.	Water Shortage	
MSPGCL	Chandrapur Unit 4	210	03/12/2017	14.17		Continued.	Water Shortage	
MSPGCL	Ghatghar Unit-1	125	14/04/2018	23.45		Continued.	Stator Earth Fault	
IPP	Adani U-5	660	24/04/2018	08.53		Continued.	Bottom Ash problem	
IPP	RPL(AMT) U-1	270	01/05/2018	00.00		Continued.	Coal Shortage	
IPP	RPL(AMT) U-2	270	06/05/2018	18.00		Continued.	Coal Shortage	
MSPGCL	Bhusawal Unit 3	210	21/05/2018	18.46		Continued.	IEPL INTER CHANGE.	
MSPGCL	Nasik Unit 4	210	01/06/2018	00.53		Continued.	Boiler Tube Leakage (Available since 03.06.2018 16:00Hrs)	
MSPGCL	Khaparkheda Unit 1	210	02/06/2018	23.57		Continued.	Poor coal receipt.	
MSPGCL	Koradi Unit-8	660	04/06/2018	18.15		Continued.	abnormal combustion.	
MSPGCL	Khaparkheda Unit 4	210	06/06/2018	23.44		Continued.	poor coal receipt	
CPP	IEPL Unit 1	270	07/06/2018	00.00		Continued.	Coal Shortage	

State Load Despatch Center,Airoli (MSETCL)
Details of Line outages/Trippings for 06/Jun/2018

Statement-VII

Position as on 6.30 Hrs of 07/Jun/2018

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 ckt-II	IntraState	02/06/2018	20.17		Continued.	T	Distance Protection,tower collapsed.
500 KV LINE Outages/Trippings							
HVDC Pole-I	IntraState	06/06/2018	18.22		Continued.	EO	REPLACEMENT OF B 1 BUSHING AND OIL FLOW.
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 I	InterState	05/06/2018	18.22		Continued.	HT	Over Voltage
Koradi Bhilai	InterState	06/06/2018	03.35	06/06/2018	06.38	T	L/R PROTCTION OPERATED AT BHILAI END.
Dhule- Bableswhar - I	IntraState	01/06/2018	16.42		Continued.	T	Distance Protection Y-PH (Tower Collapsed)
Dhule - Bableswhar - li	IntraState	01/06/2018	16.42		Continued.	T	Distance Protection Y-PH (Tower Collapsed)
Bhusawal-Aurangabad	IntraState	05/06/2018	19.53	06/06/2018	09.37	HT	Over Voltage
Deepnagar Taptitanda	IntraState	06/06/2018	07.05	06/06/2018	13.07	PO	Annual Maintenance Work
Nagothane - Dabhol-II	IntraState	06/06/2018	11.27	06/06/2018	14.42	EO	Attending Hot Spot
Lonikand 1 -Jejuri	IntraState	06/06/2018	16.15	06/06/2018	19.58	T	BD DUE TO STRING-1 DECAPING, NOW LINE IS CHARGED.
Khadka-Aurangabad (Waluj)	IntraState	06/06/2018	18.26		Continued.	HT	Over Voltage
400 KV ICT Outages/Trippings							
400/220/33 Kv 500 Mva Ict 1 @Chandrapur 2	IntraState	31/03/2018	21.21		Continued.	HT	hand tripped after charge.
400/220 Kv 600 MVA ICT-II @Kalwa	IntraState	01/06/2018	01.02		Continued.	T	Differential Protection and PRV Operated
400/220 KV 315 MVA ICT- I @Koradi	IntraState	06/06/2018	08.48	06/06/2018	17.48	PO	PREMANSOON MAINTENANCE WORK.
400/220/33 kv 315 MVA ICT-I @Chandrapur	IntraState	06/06/2018	12.53	06/06/2018	15.38	PO	PREMANSOON 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.
Wardha Deoli (Pg)	InterState	05/06/2018	16.40	06/06/2018	00.49	T	Distance Protection
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	Bunching of conductor Loc no 86 Disconnecting of jumper at Loc no 86 & 107 and de-energising the line bet.86 to 107.
Kalwa - Borivali	IntraState	01/06/2018	01.26		Continued.	HT	To control load on ICT.
Kalwa 52B Interconnector CB	IntraState	01/06/2018	01.35		Continued.	HT	To control load on ICT.
Trombay - Kalwa	IntraState	01/06/2018	01.43		Continued.	HT	To control load on ICT.
SAKI (REL) - SAKI (TATA) CKT - 1	IntraState	01/06/2018	03.29		Continued.	HT	To control load on ICT.
SAKI (REL) - SAKI (TATA) CKT - 2	IntraState	01/06/2018	03.29		Continued.	HT	To control load on ICT.
Kalwa-TIFIL	IntraState	01/06/2018	09.27		Continued.	HT	400KV Kalwa To Control ICT Overloading.
Salsette Borivli 1	IntraState	01/06/2018	10.45		Continued.	HT	Due To Overloading On ICT
Salsette Borivli 2	IntraState	01/06/2018	10.58		Continued.	HT	Due To Overloading On ICT.
Chalisgaon -Babhaleshwar	IntraState	01/06/2018	16.42		Continued.	T	Distance Protection,tower collapsed.
Oni Kharepatan Line	IntraState	05/06/2018	14.30		Continued.	T	Distance Protection
Boisar(M) - Ghodbunder	IntraState	05/06/2018	16.36	06/06/2018	00.15	T	Distance Protection

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 06/Jun/2018

Statement-VII

Position as on 6.30 Hrs of 07/Jun/2018

Name of Line	Inter State / Intra State	Tripped Date	Tripped Time	Sync. Date	Sync. Time	Outage Type	Reason of Outage
Lonikand-II- Kathapur	IntraState	06/06/2018	03.44	06/06/2018	03.50	T	TRIPPED ONLY KATHAPUR END.
Kharghar - Nerul	IntraState	06/06/2018	05.05	06/06/2018	09.00	PO	Attending Hot Spot
Ambazari-Amravati	IntraState	06/06/2018	08.11	06/06/2018	11.18	PO	Line Maintenance work
Butibori - VIPL Ckt I	IntraState	06/06/2018	10.24	06/06/2018	13.01	PO	REPLACEMENT OF B-PHASE JUMPER TO CB.
Wani-Warora	IntraState	06/06/2018	10.34	06/06/2018	13.14	PO	ABT METER INSTALLATION.
Talandage(400kv) - Five Star Midc	IntraState	06/06/2018	12.30	06/06/2018	14.54	PO	Testing Work
Wpcl-Warora 2	IntraState	06/06/2018	13.36	06/06/2018	14.31	PO	INSULATOR OF ABT METER.
Nagothane - ACCIL	IntraState	06/06/2018	14.50	06/06/2018	17.00	PO	ATTEND SPA
Osmanabad - Solapur (Bale)	IntraState	06/06/2018	15.28	06/06/2018	17.23	PO	Annual Maintenance Work
Versova Gorai Line	IntraState	06/06/2018	23.49		Continued.	PO	REPLACEMNET OF BARRER INSULATOR.
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(repaired and ready for commissioning)
220/33kv 125 Mva Transformer 2 @Gorai R/S	IntraState	27/05/2018	09.03		Continued.	T	WHILE CHANGEOVER 125 MVA TF 2 FROM M B 2 TO M B 1, BUS FAULT OF BUS 1 & 2 OCCURRED. LOAD AFFECTED 46 MW. ALL LOAD SHIFTED ON BUS 2.
220/132 kv 200MVA ICT II @ Akola	IntraState	04/06/2018	16.38	06/06/2018	13.37	PO	OIL FILTRATION WORK.
220/132 Kv 150 MVA ICT @Boisar-II	IntraState	06/06/2018	08.59	06/06/2018	11.05	PO	PREMANSOON MAINTENANCE WORK.
220/132 Kv 100 Mva Cgl Ict 1 @Dondaicha	IntraState	06/06/2018	09.07	06/06/2018	13.28	PO	OVERHAULING OF FIRE FIGHTING SCHEME.
220/33kv 125 Mva Transformer 1 @Rel Borivali	IntraState	06/06/2018	09.40	06/06/2018	16.29	PO	Routine Maintenance Work
220/132 Kv 200 Mva Bbl Ict 2 @Waghala Nanded	IntraState	06/06/2018	15.10	06/06/2018	16.55	PO	PREMONSOON WORK.
132 KV LINE Outages/Trippings							
Kanhan Pench	InterState	06/06/2018	09.51	06/06/2018	13.35	OO	OPPORTUNITY OUTAGE.
Mansar Pench	InterState	06/06/2018	16.21		Continued.	HT	Over Voltage
Amalner - Nardhana	IntraState	05/06/2018	21.25	06/06/2018	07.21	T	Distance Protection
Kardha-Asgaon	IntraState	06/06/2018	06.10	06/06/2018	11.20	PO	Replacement of Line Isolator
Ambazari-Hingna 1	IntraState	06/06/2018	08.49	06/06/2018	10.26	PO	MASUAREMENT OF CB TIMING AND CRM MASUARMENT OF TAN DELTA OF ICT.
Bhandara-Ambhora 1	IntraState	06/06/2018	10.04	06/06/2018	13.26	PO	REPLACEMENT CLOSING COIL.
Ambazari-Mankapur 1	IntraState	06/06/2018	10.39	06/06/2018	12.51	PO	DIGNOSTIC TESTING WORK.
Kalmeshwar-Hingna-II	IntraState	06/06/2018	11.42	06/06/2018	17.23	PO	REPLACEMENT OF LA COUNTER.
Padegaon Paithan	IntraState	06/06/2018	14.50	06/06/2018	17.56	PO	Testing Work
Harangul - Nilanga	IntraState	06/06/2018	17.15	06/06/2018	17.23	T	LOAD AFFECTED 26.3 MW.
Deepnagar (Gcr) - Supreme	IntraState	06/06/2018	19.58	07/06/2018	02.26	T	Distance Protection
Yawal - Chopda	IntraState	06/06/2018	21.38		Continued.	T	SOTF,23KM,2.3KA,R-PHASE.
100 KV LINE Outages/Trippings							
Kandalgaon - Roha II	IntraState	06/06/2018	10.50	06/06/2018	17.30	PO	Line Maintenance work

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