

State Load Despatch Center, Airoli (MSETCL) Statement I
Daily system Report for 21/Sep/2016 WEDNESDAY

I GENERATION (MUs)			II EXCHANGES (MUs)		
A) MSPGCL	Daily	Monthly	E) InterState Exchanges	Daily	Monthly
1) Thermal	58.345	2207.902	1) Gujrat	-1.322	9.143
2) Hydro	8.448	174.142	2) Madhya Pradesh	13.130	187.603
3) Gas	5.983	144.494	3) Chattisgarh	8.210	118.550
Total MSPGCL	72.776	2526.538	4) Maharashtra Net	85.365	1681.908
B) 1) APML	62.894	1218.019	5) Goa (Amona)	-0.594	-11.690
2) JSWEL	20.638	416.205	6) TAPS 1&2 Injection	7.655	160.963
3) VIPL	10.956	235.793	7) RGPPL Injection	11.897	251.069
4) RPL(AMT)	0.000	65.208	8) Pench (MS)	0.858	19.817
5) WPCL	5.013	92.451	9) Pench (Excess)	-0.858	-19.817
6) PGPL	0.000	80.445	Total	123.483	2377.729
7) Other IPP	2.518	52.959	a) Mumbai Schedule	19.000	391.664
C) 1) TPCL Thermal	13.251	255.753	b) Mumbai Drawl	20.744	516.164
2) TPCL Hydro	6.998	105.496	c) MSEDCL Bilateral *	30.577	558.024
3) TPCL Gas	4.034	88.673	Include PX	-1.650	-44.570
4) R-INFRA Thermal	9.990	215.454	d) Mumbai Bilateral *	19.000	391.150
D) STATE			Include PX	0.096	27.216
1) Thermal	183.605	4759.744	Include Standby	0.000	0.514
(A1+C1+C4+(B1-B6))			H) ENERGY CATERED (MUs)		
2) Hydro (A2+C2)	15.446	279.638	1) MSEDCL	299.765	7011.161
3) Gas (A3+B6+C3)	10.017	313.612	2) Mumbai Discoms	55.017	1181.545
4) Wind	21.358	443.255	TOTAL STATE	354.782	8192.706
6) SOLAR	0.873	18.723			
TOTAL STATE	231.299	5814.972			

* Displayed for information, not added in total.

DETAILS OF MAHARASHTRA STATE PEAK DEMAND(MW) Statement II

PARTICULARS	A. Morning Peak at 10 Hrs	B. Day Peak at 18 Hrs	C. Evening Peak at 20 Hrs	D. Night Minimum at 3 Hrs
MSPGCL Thermal	2485	2356	2580	2256
MSPGCL Hydro	564	180	1217	192
MSPGCL Gas	236	265	271	269
MSPGCL Total Generation	3285	2801	4068	2717
Central Sector Receipt	5851	5849	5396	3836
WIND	841	1164	1073	990
CPP / IPP Thermal	4487	4279	4642	3788
CPP / IPP Gas	0	0	0	0
SOLAR	88	7	0	0
Exchange with Mumbai	-993	-1157	-906	-468
MSEDCL DEMAND MET	13559	12943	14273	10863
Load Shedding	0	0	0	0
MSEDCL DEMAND	13559	12943	14273	10863
TPCL GENERATION	1215	1055	1254	719
R-INFRA GENERATION	482	401	505	403
MUMBAI DEMAND	2690	2613	2665	1590
STATE DEMAND MET	16249	15556	16938	12453
STATE DEMAND	16249	15556	16938	12453
Frequency (Hz)	49.97	49.98	49.98	49.96

FREQUENCY PARTICULARS

MAXIMUM FREQ.	MINIMUM FREQ.	AVERAGE FREQ.	FREQ. BELOW 49.2 Hz
50.16 Hz at 22.50 Hrs	49.83 Hz at 09.45 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/Sep/2016

Generating unit	Generation			
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)
Koradi				
Unit 5	0.00	10.83	0	0
Unit 6	0.00	0.00	0	0
Unit 7	0.00	51.03	0	0
Unit 8	10.79	222.86	524	391
Total	10.79	284.72		
Bhusawal				
Unit 2	0.00	0.00	0	0
Unit 3	0.00	6.80	0	0
Unit 4	0.00	93.04	0	0
Unit 5	0.00	136.14	0	0
Total	0.00	235.98		
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
Total	0.00	0.00		
Chandrapur				
Unit 3	4.18	87.77	193	159
Unit 4	4.09	67.56	185	161
Unit 5	9.19	186.17	430	351
Unit 6	0.00	176.83	0	0
Unit 7	8.74	176.43	397	287
Unit 8	0.00	146.45	0	0
Total	26.20	841.21		
Paras				
Unit 3	0.00	92.20	0	0
Unit 4	2.26	97.64	210	0
Total	2.26	189.84		
Khaparkheda				
Unit 1	0.00	45.01	0	0
Unit 2	0.00	62.12	0	0
Unit 3	0.00	70.68	0	0
Unit 4	0.00	68.43	0	0
Unit 5	11.02	216.39	500	400
Total	11.02	462.62		
Nasik				
Unit 3	0.00	0.00	0	0
Unit 4	4.02	86.37	202	162
Unit 5	4.06	86.38	191	160
Total	8.08	172.75		
Uran				
All Units	5.98	144.49	281	150
Total	5.98	144.49		
PGPL				
Unit 1	0.00	51.09	0	0

Generating unit	Generation			
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)
Unit 2	0.00	29.35	0	0
Total	0.00	80.44		
PENCH (MS)				
Pench (MS)	0.86	19.82	41	33
Total	0.86	19.82		
Koyna				
Stage 1-2	2.52	61.85	330	40
Stage 4	0.82	26.21	488	0
Stage 3	1.28	26.06	202	0
Total	4.62	114.12		
Hydro				
KDPH	0.87	10.24	37	36
VTRNA	1.18	2.80	60	0
TILLARI	0.37	6.15	62	0
BHTGR/VEER	0.00	0.00	0	0
BHIRA T.R.	0.48	9.47	80	0
RNGR+BHTSA	0.38	1.05	16	15
BHANDARDRA	0.11	5.18	5	4
ELDARY	0.00	0.00	0	0
SMLHY_PTN	0.43	6.53	19	18
GHATGHAR	0.00	18.62	0	0
Total	3.83	60.02		
Wind				
Total	21.36	443.26	0	0
Total	21.36	443.26		
CPP				
APML(Mus)	62.89	1218.02	0	0
JSWEL(Mus)	20.64	416.20	0	0
VIPL(Mus)	10.96	235.79	0	0
RPLAMT(Mus)	0.00	65.21	0	0
WPCL(Mus)	5.01	92.45	0	0
Other(Mus)	2.52	52.96	0	0
Total	102.02	2080.64		
SOLAR				
Total	0.87	18.72	0	0
Total	0.87	18.72		
Tata				
Trombay 5	8.21	148.47	467	312
Trombay 6	0.00	0.00	0	0
Trombay 7A	2.51	55.74	122	64
Trombay 7B	1.52	32.93	69	50
Trombay 8	5.04	107.28	245	198
TATA Hydro	7.00	105.50	387	72
Total	24.28	449.92		
R-INFRA				
1-2	9.99	215.45	505	370
Total	9.99	215.45		

* Infirm Power		
Particulars	Daily (Mus)	Monthly
Chandrapur 9	0.00	20.78
Koradi 9	0.00	0.00
Koradi 10	0.00	0.00
Parli 8	0.00	0.00

Summary		
Particulars	Daily (Mus)	Monthly (Mus)
MSPGCL Thermal	58.34	2207.90
MSPGCL Thml+Gas	64.33	2352.40
MSPGCL Hydro	8.45	174.14

Summary		
Particulars	Daily (Mus)	Monthly (Mus)
MSPGCL Total	72.78	2526.54
Koyna 1,2 & 4 Total	3.34	88.06
State Total	231.30	5814.97

State Load Despatch Center,Airoli (MSETCL)

Annexure-2

Hourly Load Data As on 21/Sep/2016

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	2259	197	278	2734	960	3877	0	0	4196	4067	-560	11078	0	11078	1824	12902	49.96
2	2256	462	279	2997	997	3789	0	0	3435	3655	-467	10971	0	10971	1658	12629	49.97
3	2256	192	269	2717	990	3788	0	0	3782	3836	-468	10863	0	10863	1590	12453	49.96
4	2266	172	279	2717	960	3786	0	0	3798	3929	-456	10936	0	10936	1560	12496	49.98
5	2245	255	280	2780	794	3834	0	0	4008	4266	-435	11239	0	11239	1568	12807	49.95
6	2297	314	280	2891	810	3918	0	0	4483	4750	-445	11924	0	11924	1686	13610	49.97
7	2532	245	272	3049	909	4250	0	0	5081	5331	-551	12988	0	12988	1862	14850	49.96
8	2544	200	280	3024	875	4363	0	19	5459	5641	-689	13233	0	13233	2066	15299	49.99
9	2511	379	280	3170	776	4359	0	71	5543	5996	-813	13559	0	13559	2302	15861	49.96
10	2485	564	236	3285	841	4487	0	88	5579	5851	-993	13559	0	13559	2690	16249	49.97
11	2452	476	150	3078	692	4541	0	107	5555	5651	-1039	13030	0	13030	2819	15849	49.99
12	2399	360	168	2927	561	4520	0	113	5583	5728	-1154	12695	0	12695	2835	15530	49.97
13	2333	340	173	2846	538	4337	0	138	5594	5791	-1295	12355	0	12355	2801	15156	49.95
14	2525	184	188	2897	498	4358	0	122	5503	5565	-1191	12249	0	12249	2674	14923	49.99
15	2546	219	216	2981	495	4386	0	114	5486	5473	-1182	12267	0	12267	2667	14934	49.94
16	2535	243	224	3002	718	4375	0	80	5501	5524	-1152	12547	0	12547	2640	15187	49.99
17	2399	171	231	2801	922	4281	0	14	5466	5331	-1131	12218	0	12218	2617	14835	49.94
18	2356	180	265	2801	1164	4279	0	7	5703	5849	-1157	12943	0	12943	2613	15556	49.98
19	2469	947	281	3697	1050	4377	0	0	5694	5996	-1237	13883	0	13883	2677	16560	49.99
20	2580	1217	271	4068	1073	4642	0	0	5513	5396	-906	14273	0	14273	2665	16938	49.98
21	2599	421	276	3296	1283	4748	0	0	5446	5300	-908	13719	0	13719	2569	16288	49.99
22	2605	262	265	3132	1198	4460	0	0	5292	5084	-907	12967	0	12967	2373	15340	50.01
23	2489	257	277	3023	1103	4214	0	0	5297	5064	-885	12519	0	12519	2239	14758	50.04
24	2407	191	265	2863	1151	4050	0	0	4871	4409	-723	11750	0	11750	2022	13772	50.01
MUs	58.34	8.45	5.98	72.78	21.36	102.02	0.00	0.87	121.87	123.48	-20.74	299.77	0.00	299.77	55.02	354.78	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/Sep/2016

Position as on 6.30 Hrs of 22/Sep/2016

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	Koyna Unit 10	80	29/12/2015	08:00	21/09/2016	14.55	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	20/03/2015	01.02		Continued.	Economic shutdown	
MSPGCL	Parli Unit 6	250	25/06/2015	15.03		Continued.	Water Shortage	
MSPGCL	Parli Unit 4	210	05/07/2015	18.45		Continued.	Water Shortage	
MSPGCL	Parli Unit 5	210	06/07/2015	14.55		Continued.	Water Shortage.	
MSPGCL	Parli Unit 7	250	08/07/2015	12.08		Continued.	Water Shortage	
CPP	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	
IPP	RPL(AMT) U-5	270	24/05/2016	00.05		Continued.	Zero Schedule By MSEDCL.	
MSPGCL	Koradi Unit 9	660	04/06/2016	14.45		Continued.	No concent to operate	
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	
MSPGCL	Koyna Unit 8	80	19/08/2016	11.00		Continued.	High Vibration On LGB & UGB.	
RGPL	Dabhol 2A	230	24/08/2016	13.31		Continued.	Change Over.	
MSPGCL	Nasik Unit 3	210	28/08/2016	21.45		Continued.	Zero Shedule By MSEDCL.	
MSPGCL	Koradi Unit 5	200	05/09/2016	00.21		Continued.	ID Fan Problem	
IPP	RPL(AMT) U-2	270	12/09/2016	00.03		Continued.	Zero Schedule by MSEDCL	
PGPL	PGPL U2	126	14/09/2016	00.16		Continued.	Due To No Shedule.	
PGPL	PGPL U1	262	14/09/2016	00.20		Continued.	Due To No Shedule.	
IPP	RPL(AMT) U-1	270	14/09/2016	23.55		Continued.	Zero Schedule by MSEDCL	
IPP	RPL(AMT) U-4	270	15/09/2016	18.09		Continued.	Zero Schedule by MSEDCL	
MSPGCL	Bhusawal Unit 4	500	15/09/2016	23.59		Continued.	Zero Schedule by MSEDCL	
MSPGCL	Bhusawal Unit 3	210	16/09/2016	00.02		Continued.	Zero Schedule by MSEDCL	
MSPGCL	Koradi Unit 7	210	16/09/2016	00.06		Continued.	Zero Schedule by MSEDCL	

State Load Despatch Center,Airoli (MSETCL) Statement-VI
Details of Generating Unit Outages/Trippings for 21/Sep/2016

Position as on 6.30 Hrs of 22/Sep/2016

Generating Company	Name of Generating Unit	Capacity	Tripped Date	Tripped Time	Sync.Date	Sync. Time	Reason of Outage	Expected Date
MSPGCL	Khaparkheda Unit 1	210	17/09/2016	13.39		Continued.	Zero Schedule by MSEDCL	
MSPGCL	Khaparkheda Unit 2	210	17/09/2016	13.43		Continued.	Zero Schedule by MSEDCL	
MSPGCL	Bhusawal Unit 5	500	17/09/2016	13.51		Continued.	Zero Schedule by MSEDCL	
MSPGCL	Khaparkheda Unit 3	210	17/09/2016	20.40		Continued.	Zero Schedule by MSEDCL	
MSPGCL	Khaparkheda Unit 4	210	17/09/2016	20.48		Continued.	Zero Schedule by MSEDCL	
MSPGCL	Paras Unit 3	250	18/09/2016	14.58		Continued.	Air heater problem	
MSPGCL	Uran Unit 6	108	18/09/2016	23.42		Continued.	Maintenance work	
MSPGCL	Paras Unit 4	250	19/09/2016	15.34	21/09/2016	12.05	Boiler Tube Leakage	
MSPGCL	Chandrapur Unit-8	500	19/09/2016	18.43		Continued.	Boiler Tube Leakage	
MSPGCL	Chandrapur Unit 6	500	19/09/2016	22.37		Continued.	Boiler Tube Leakage	
MSPGCL	Uran Unit A0	120	21/09/2016	09.36	21/09/2016	16.06	Feed Water pump Problem	
MSPGCL	Uran Unit 5	108	21/09/2016	09.36	21/09/2016	10.52	Feed Water pump Problem	
IPP	JSW (J) U4	300	21/09/2016	23.46		Continued.	Condensor Cleaning	

State Load Despatch Center,Airoli (MSETCL)
Details of Line outages/Trippings for 21/Sep/2016

Statement-VII

Position as on 6.30 Hrs of 22/Sep/2016

Name of Line	Inter State / Intra State	Tripped Date	Tripped Time	Sync. Date	Sync. Time	Outage Type	Reason of Outage
500 KV LINE Outages/Trippings							
HVDC Pole-I	IntraState	19/09/2016	08.38		Continued.	PO	Annual Maintenance Work
400 KV LINE Outages/Trippings							
Kolhapur Solapur (PG) II	InterState	16/09/2016	22.52	21/09/2016	09.30	HT	Over Voltage
Dhule Sar'Sarovar II	InterState	20/09/2016	22.04		Continued.	HT	Over Voltage
Kolhapur Solapur(PG) I	InterState	21/09/2016	16.27	22/09/2016	06.38	HT	Over Voltage
Kolhapur Solapur (PG) II	InterState	22/09/2016	02.49		Continued.	T	Over Voltage
Ektuni-Bableshtar ckt II	IntraState	01/08/2016	09.53		Continued.	HT	To control Padgha-BBLSR L/L
Karad-Jaigad - I	IntraState	16/09/2016	11.27		Continued.	EO	Attending Hot Spot, Line RFC @ 14.19 Hrs.
karad -kolhapur-I	IntraState	17/09/2016	03.43		Continued.	T	Over Voltage,B Pole of Breaker Bust.
Khadka-Aurangabad (Waluj)	IntraState	19/09/2016	15.14		Continued.	HT	Over Voltage
Padgha-HVDC(AC)-II	IntraState	20/09/2016	13.05	21/09/2016	17.02	EO	AC ckt taken on TBC due to heavy sparking at isolator at Padgha end.
Lonikand I - Koyna stage-IV	IntraState	20/09/2016	23.42	21/09/2016	07.33	HT	Over Voltage
New Koyna - Dabhol-I	IntraState	21/09/2016	09.05		Continued.	PO	String repl.work (RFC 19.02Hrs)
Akola - Bhusawal	IntraState	21/09/2016	09.18	21/09/2016	17.33	PO	Heavy Oil Leakage and Testing work
Girwali-Solapur (Lamboti)	IntraState	21/09/2016	11.27	21/09/2016	16.53	PO	Repl.of Insulator
Akola II - Akola I Ckt-II	IntraState	21/09/2016	11.55	21/09/2016	16.57	PO	Quarterly Maintainance Work
Padghe - Kharghar	IntraState	21/09/2016	17.07	21/09/2016	17.14	EO	To attend Hot Spot
Chandrapur - Parli	IntraState	21/09/2016	17.41	21/09/2016	18.21	PO	For taking Line Reactor out of service
Kalwa - Kharghar	IntraState	21/09/2016	17.55	21/09/2016	22.01	EO	To attend Hot Spot
Lonikand I - Koyna stage-IV	IntraState	22/09/2016	00.31	22/09/2016	06.28	HT	Over Voltage
Chandrapur-II - Nanded	IntraState	22/09/2016	02.54		Continued.	T	Over Voltage
400 KV ICT Outages/Trippings							
400/220kv, 500 MVA ICT-III @Babhleshwar	IntraState	20/08/2016	11.06		Continued.	PO	Shifted on TBC, by hot line jumper open for construction of kudus bay ektuni CKT-2 will remain off during this outage period.
400/220KV 500MVA ICT1@koradi 2	IntraState	21/09/2016	06.18	21/09/2016	11.57	T	Differential protection
400/220/33 Kv 500 MVA ICT-I @Lonikand 2	IntraState	21/09/2016	16.01	21/09/2016	16.28	T	NDR Operated
400/220/33 Kv 500 MVA ICT-II @Lonikand 2	IntraState	21/09/2016	16.01	21/09/2016	16.18	T	NDR Operated
220 KV LINE Outages/Trippings							
Mudshingi - Chikodi	InterState	01/09/2016	00.00		Continued.	HT	No schedule from Karnataka(H/T from Chikodi end)
Talandage - Chikodi	InterState	01/09/2016	00.00		Continued.	HT	No schedule from Karnataka(H/T from Talandage end)
Tillari Amona	InterState	22/09/2016	06.19		Continued.	T	Tripped at Amona end only
Mahalakshmi Amona	InterState	22/09/2016	06.19		Continued.	T	Tripped at Amona end only
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.
GIS Bhandup - Borivali	IntraState	11/01/2016	07.42		Continued.	PO	Tower Erection Work.
Kalwa-Salsette-IV	IntraState	28/06/2016	18.17		Continued.	T	Distance Protection
Bableshtar- Alephata	IntraState	26/08/2016	20.54		Continued.	HT	Hand tripped.

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/Sep/2016

Statement-VII

Position as on 6.30 Hrs of 22/Sep/2016

Name of Line	Inter State / Intra State	Tripped Date	Tripped Time	Sync. Date	Sync. Time	Outage Type	Reason of Outage
Pophali - New Koyna	IntraState	21/09/2016	08.05	21/09/2016	16.35	PO	Routine Maintenance Work
Kalmeshwar-Pandhurna	IntraState	21/09/2016	09.02	21/09/2016	17.47	PO	Stringing work of 400KV Mouda-Betul line
Badnera-Akola li	IntraState	21/09/2016	09.35	21/09/2016	16.58	PO	Signature Analysis Test
Butibori - VIPL Ckt II	IntraState	21/09/2016	12.25	21/09/2016	14.17	EO	To attend 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)
220/132 kv 200 MVA ICT- I @ Nanded	IntraState	20/09/2016	18.37	21/09/2016	17.20	T	Differential protection
132 KV LINE Outages/Trippings							
Girwali-Renapur-Ahamadpur	IntraState	16/09/2016	15.37		Continued.	T	Distance Protection, Trial Failed.
Beed(220kv) -Telgaon	IntraState	21/09/2016	05.22	21/09/2016	05.57	T	Distance Protection
100 KV LINE Outages/Trippings							
Vasai-li - Vasai 2 Line	IntraState	13/08/2016	08.53		Continued.	HT	ICT Problem.

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