

State Load Despatch Center, Airoli (MSETCL) Statement I
Daily system Report for 24/Feb/2016 WEDNESDAY

I GENERATION (MUs)			II EXCHANGES (MUs)		
A) MSPGCL	Daily	Monthly	E) InterState Exchanges	Daily	Monthly
1) Thermal	112.421	2572.413	1) Gujrat	-1.440	-78.620
2) Hydro	9.937	141.718	2) Madhya Pradesh	10.963	214.741
3) Gas	7.688	235.655	3) Chattisgarh	5.550	126.150
Total MSPGCL	130.046	2949.786	4) Maharashtra Net	75.253	1832.462
B) 1) APML	67.071	1476.722	5) Goa (Amona)	-0.518	-11.320
2) JSWEL	25.329	599.859	6) TAPS 1&2 Injection	3.711	82.390
3) VIPL	12.952	242.271	7) RGPPL Injection	11.654	278.848
4) RPL(AMT)	16.932	476.713	8) Pench (MS)	0.465	12.154
5) WPCL	5.104	107.501	9) Pench (Excess)	-0.465	-12.090
6) Other IPP	9.055	217.347	Total	104.708	2432.561
C) 1) TPCL Thermal	10.169	202.361	a) Mumbai Schedule	17.687	395.643
2) TPCL Hydro	4.204	85.654	b) Mumbai Drawl	23.335	542.545
3) TPCL Gas	4.137	91.476	c) MSEDCL Bilateral *	27.807	703.750
4) R-INFRA Thermal	11.572	254.807	Include PX	-0.609	-70.952
D) STATE			d) Mumbai Bilateral *	17.687	395.643
1) Thermal	270.605	6149.994	Include PX	1.395	25.595
(A1+C1+C4+(B1-B6))			Include Standby	0.000	0.000
2) Hydro (A2+C2)	14.141	227.372	H) ENERGY CATERED (MUs)		
3) Gas (A3+C3)	11.825	327.131	1) MSEDCL	357.614	8156.497
4) Wind	8.457	166.626	2) Mumbai Discoms	53.417	1176.837
6) SOLAR	1.295	29.656	TOTAL STATE	411.031	9333.334
TOTAL STATE	306.323	6900.779			

* Displayed for information, not added in total.

DETAILS OF MAHARASHTRA STATE PEAK DEMAND(MW) Statement II

PARTICULARS	A. Morning Peak at 11 Hrs	B. Day Peak at 13 Hrs	C. Evening Peak at 20 Hrs	D. Night Minimum at 3 Hrs
MSPGCL Thermal	4967	4949	4916	4135
MSPGCL Hydro	1307	902	174	108
MSPGCL Gas	223	141	289	459
MSPGCL Total Generation	6497	5992	5379	4702
Central Sector Receipt	4946	4660	4465	4091
WIND	125	251	346	386
CPP / IPP	5985	6022	5939	4896
SOLAR	150	175	0	0
Exchange with Mumbai	-1073	-1236	-1022	-672
MSEDCL DEMAND MET	16630	15864	15107	13403
Load Shedding	5	5	5	5
MSEDCL DEMAND	16635	15869	15112	13408
TPCL GENERATION	1118	1008	1076	466
R-INFRA GENERATION	514	517	516	402
MUMBAI DEMAND	2705	2761	2614	1540
STATE DEMAND MET	19335	18625	17721	14943
STATE DEMAND	19340	18630	17726	14948
Frequency (Hz)	49.99	49.97	49.95	50.00

FREQUENCY PARTICULARS

MAXIMUM FREQ.	MINIMUM FREQ.	AVERAGE FREQ.	FREQ. BELOW 49.2 Hz
50.26 Hz at 18:03 Hrs	49.77 Hz at 18:43 Hrs	49.99	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 24/Feb/2016

Generating unit	Generation			
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)
Koradi				
Unit 5	0.00	62.24	0	0
Unit 6	0.00	0.00	0	0
Unit 7	4.06	23.16	175	162
Unit 8	8.41	144.51	353	349
Total	12.47	229.92		
Bhusawal				
Unit 2	4.16	96.15	180	165
Unit 3	4.14	86.26	180	160
Unit 4	0.00	121.46	0	0
Unit 5	10.50	191.60	500	350
Total	18.80	495.47		
Parli				
Unit 3	0.00	0.00	0	0
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 1	0.00	0.00	0	0
Unit 2	0.00	0.00	0	0
Unit 3	4.60	85.36	208	167
Unit 4	4.42	100.11	202	162
Unit 5	9.82	225.29	440	357
Unit 6	0.00	196.73	0	0
Unit 7	9.98	168.60	448	342
Total	28.82	776.08		
Paras				
Unit 3	5.65	118.08	258	186
Unit 4	5.65	113.71	260	188
Total	11.30	231.79		
Khaparkheda				
Unit 1	4.05	88.38	180	150
Unit 2	3.94	81.80	180	150
Unit 3	4.49	74.80	202	160
Unit 4	4.45	94.25	201	156
Unit 5	11.05	239.24	500	365
Total	27.99	578.47		
Nasik				
Unit 3	4.36	65.40	200	160
Unit 4	4.26	98.30	196	160
Unit 5	4.41	93.72	202	163
Total	13.04	257.42		
Uran				
All Units	7.69	235.66	460	136
Total	7.69	235.66		

Generating unit	Generation			
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)
PENCH (MS)				
Pench (MS)	0.46	12.15	40	0
Total	0.46	12.15		
Koyna				
Stage 1-2	3.12	54.24	515	40
Stage 4	3.62	12.76	703	0
Stage 3	1.27	14.79	160	0
Total	8.01	81.79		
Hydro				
KDPH	0.64	10.03	35	17
VTRNA	0.00	0.28	0	0
TILLARI	0.18	2.05	60	0
BHTGR/VEER	0.00	0.00	0	0
BHIRA T.R.	0.17	5.17	40	0
RNGR+BHTSA	0.21	5.30	10	0
BHANDARDRA	0.00	4.89	0	0
ELDARY	0.00	0.00	0	0
SMLHY_PTN	0.72	17.02	31	30
GHATGHAR	0.00	15.18	0	0
Total	1.93	59.92		
Wind				
Total	8.46	166.63	0	0
Total	8.46	166.63		
CPP				
APML(Mus)	67.07	1476.72	0	0
JSWEL(Mus)	25.33	599.86	0	0
VIPL(Mus)	12.95	242.27	0	0
RPLAMT(Mus)	16.93	476.71	0	0
WPCL(Mus)	5.10	107.50	0	0
Other(Mus)	9.06	217.35	0	0
Total	136.44	3120.41		
SOLAR				
Total	1.30	29.66	0	0
Total	1.30	29.66		
Tata				
Trombay 5	10.17	166.59	494	315
Trombay 6	0.00	0.00	0	0
Trombay 7A	2.59	56.17	116	89
Trombay 7B	1.55	35.31	68	58
Trombay 8	0.00	35.77	0	0
TATA Hydro	4.20	85.65	441	0
Total	18.51	379.49		
R-INFRA				
1-2	11.57	254.81	519	402
Total	11.57	254.81		

Infirm Power	Chandrapur 8	0.00	Koradi 9	0.00
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Summary		
Particulars	Daily (Mus)	Monthly (Mus)
MSPGCL Thermal	112.42	2572.41
MSPGCL Thml+Gas	120.11	2808.07

Summary		
Particulars	Daily (Mus)	Monthly (Mus)
MSPGCL Hydro	9.94	141.72
MSPGCL Total	130.05	2949.79

Summary		
Particulars	Daily (Mus)	Monthly (Mus)
Koyna 1,2 & 4 Total	6.74	67.00
State Total	306.32	6900.78

State Load Despatch Center,Airoli (MSETCL)

Annexure-2

Hourly Load Data As on 24/Feb/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													
1	4161	103	458	4722	509	5051	0	4629	4596	-864	14014	5	14019	1732	15751	49.98
2	4150	103	459	4712	446	4893	0	4435	4364	-743	13672	5	13677	1608	15285	49.98
3	4135	108	459	4702	386	4896	0	4165	4091	-672	13403	5	13408	1540	14948	50.00
4	4134	238	459	4831	375	5000	0	4079	4164	-629	13741	5	13746	1496	15242	49.99
5	4130	108	459	4697	224	5333	0	4332	4121	-621	13754	5	13759	1488	15247	50.01
6	4636	97	460	5193	236	5563	0	4523	4210	-639	14563	5	14568	1604	16172	50.01
7	4925	399	456	5780	224	5849	0	4698	4531	-705	15679	5	15684	1820	17504	49.98
8	4985	1057	456	6498	159	5885	10	4609	4746	-664	16634	5	16639	1947	18586	50.01
9	4997	970	310	6277	117	5962	59	4719	4659	-868	16206	5	16211	2257	18468	50.00
10	4976	1158	292	6426	123	5992	134	4728	4864	-984	16555	5	16560	2538	19098	50.00
11	4967	1307	223	6497	125	5985	150	4806	4946	-1073	16630	5	16635	2705	19340	49.99
12	4961	1302	136	6399	118	6033	173	4812	4811	-1151	16383	5	16388	2774	19162	49.97
13	4949	902	141	5992	251	6022	175	4848	4660	-1236	15864	5	15869	2761	18630	49.97
14	4920	253	180	5353	468	6034	177	4799	4621	-1161	15492	5	15497	2610	18107	50.05
15	4919	136	180	5235	552	6014	171	4786	4411	-1169	15214	5	15219	2658	17877	50.02
16	4916	120	263	5299	570	6009	131	4768	4631	-1170	15470	5	15475	2668	18143	50.00
17	4927	115	277	5319	607	5978	83	4627	4162	-1190	14959	5	14964	2664	17628	49.99
18	4962	405	288	5655	551	5998	31	3317	2939	-1204	13970	5	13975	2613	16588	50.00
19	4958	115	285	5358	400	5993	1	3995	3367	-1165	13954	5	13959	2581	16540	50.00
20	4916	174	289	5379	346	5939	0	4641	4465	-1022	15107	5	15112	2614	17726	49.95
21	4729	179	280	5188	338	5739	0	4613	4402	-1039	14628	5	14633	2395	17028	49.95
22	4642	124	293	5059	486	5570	0	4499	4119	-1146	14088	5	14093	2309	16402	49.99
23	4192	270	293	4755	424	5285	0	4477	4490	-1177	13777	5	13782	2091	15873	49.91
24	4234	194	292	4720	422	5419	0	4466	4338	-1043	13856	5	13861	1944	15805	49.96
MUs	112.4 2	9.94	7.69	130.05	8.46	136.44	1.29	108.37	104.71	-23.33	357.61	0.12	357.73	53.42	411.15	49.99

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 24/Feb/2016

Position as on 6.30 Hrs of 25/Feb/2016

Generating Company	Name of Generating Unit	Capacity	Tripped Date	Tripped Time	Sync.Date	Sync. Time	Reason of Outage	Expected Date
PLANNED OUTAGE								
CENT.SECTOR	Tarapur 2	160	10/09/2015	12.55		Continued.	Refuelling work	
MSPGCL	Koyna Unit 10	80	29/12/2015	08:00		Continued.	Annual Overhaul	
FORCED OUTAGE								
RGPL	Dabhol 1B	230	28/05/2013	22:02		Continued.	Gas Shortage.	
RGPL	Dabhol 3A	230	06/06/2013	08.28		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 schedule	
MSPGCL	Chandrapur Unit 1	210	28/08/2014	07:15		Continued.	Economic Shutdown.	
MSPGCL	Koradi Unit 6	210	20/03/2015	01.02		Continued.	Economic shutdown	
MSPGCL	Parli Unit 3	210	14/06/2015	12.58		Continued.	Water Shortage	
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	
TPC-G	Trombay 6	500	15/07/2015	17.08		Continued.	Economic shutdown	
MSPGCL	Chandrapur Unit-8	500	10/11/2015	12.10		Continued.	Drum level low	
RGPL	Dabhol 3B	230	07/01/2016	17:51		Continued.	Change Over.	
MSPGCL	Chandrapur Unit 2	210	12/01/2016	04.47		Continued.	Boiler Tube Leakage	
MSPGCL	Uran Unit 5	108	19/01/2016	14.34		Continued.	Overhauling	
RGPL	Dabhol 3X	290	03/02/2016	15:36		Continued.	Change Over	
TPC_G	Trombay 8	250	07/02/2016	17.40		Continued.	Boiler Maintenance Work,Bearing Inspection.	
MSPGCL	Ghatghar Unit-2	125	09/02/2016	18.00		Continued.	oil filtration work.	
MSPGCL	Bhusawal Unit 4	500	14/02/2016	12.10		Continued.	Zero Schedule Given by MSEDCL.	
MSPGCL	Ghatghar Unit-1	125	15/02/2016	00.00		Continued.	Attending Water valve Leakage.	
IPP	RPL(AMT) U-2	270	16/02/2016	01.14		Continued.	Due to Zero Schedule Given by MSEDCL.	
IPP	RPL(AMT) U-3	270	16/02/2016	01.17		Continued.	Due to Zero Schedule Given by MSEDCL.	
CPP	WPCL U-1	135	16/02/2016	17.09		Continued.	Change Over , No Schedule	
MSPGCL	Koradi Unit 5	200	18/02/2016	11.21		Continued.	MSEDCL Zero Shedule.	
CENT.SECTOR	TARAPUR 4	540	21/02/2016	10:33		Continued.	Transient Electric fault in Nuclear reactor.	
MSPGCL	Chandrapur Unit 6	500	21/02/2016	15.19		Continued.	Boiler Tube Leakage	
IPP	WPCL U-3	135	23/02/2016	07.28		Continued.	Botom Ash Conveyer belt problem.	
MSPGCL	Uran Unit 7	108	24/02/2016	08.10		Continued.	Gas shortage	
MSPGCL	Uran Unit 6	108	24/02/2016	10.28	24/02/2016	12.32	Generator Protection	

State Load Despatch Center,Airoli (MSETCL) Statement-VI
Details of Generating Unit Outages/Trippings for 24/Feb/2016

Position as on 6.30 Hrs of 25/Feb/2016

Generating Company	Name of Generating Unit	Capacity	Tripped Date	Tripped Time	Sync.Date	Sync. Time	Reason of Outage	Expected Date
MSPGCL	Uran Unit A0	120	24/02/2016	10.28	24/02/2016	14.56	operated	
							Generator Protection operated	
IPP	RPL(AMT) U-4	270	24/02/2016	20.56	24/02/2016	22.57	Supply Board Problem.	

State Load Despatch Center,Airoli (MSETCL)
Details of Line outages/Trippings for 24/Feb/2016

Statement-VII

Position as on 6.30 Hrs of 25/Feb/2016

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	19/02/2016	09:28		Continued.	PO	Annual Maintenance Work (Main Bay 712 only)
500 KV LINE Outages/Trippings							
HVDC Pole-I	IntraState	23/02/2016	22.42	24/02/2016	01.55	PO	For Testing Work.
400 KV LINE Outages/Trippings							
Dhule Sar'Sarovar I	InterState	23/02/2016	09.16	24/02/2016	07.15	PO	Maintenance Work (RFC a t17.39)
Kolhapur Solapur(PG) I	InterState	23/02/2016	18.03	24/02/2016	06.30	HT	Over Voltage
Chandrapur Bhadravati II	InterState	24/02/2016	09.02	24/02/2016	13.55	PO	Sem Meter Calibration work at Chandrapur End.
Dhule Sar'Sarovar II	InterState	24/02/2016	09.37		Continued.	PO	String Replacement Work (RFC at 18:30)
Akola Aurangabad(PG) I	InterState	24/02/2016	13.35	24/02/2016	13.35	PO	A/R Succesful.
Chandrapur Bhadravati III	InterState	24/02/2016	14.39	24/02/2016	20.04	PO	Sem Meter Calibration work at Chandrapur end.
Kolhapur Solapur(PG) I	InterState	24/02/2016	17.47	25/02/2016	06.39	HT	Over Voltage
Akola II - Taptitanda ckt-II	IntraState	31/12/2015	18.16		Continued.	HT	Change over
Bhusawal-Aurangabad	IntraState	11/02/2016	14.05		Continued.	HT	Over Voltage
Babhaleshwar-Taptitanda ckt-II	IntraState	11/02/2016	18.40		Continued.	HT	CHANGE OVER
karad -kolhapur-II	IntraState	23/02/2016	16.40	24/02/2016	09.23	HT	Over Voltage
Karad - Jaigad - II	IntraState	23/02/2016	16.44	24/02/2016	09.27	HT	Over Voltage
Lonikand I - Koyna stage-IV	IntraState	24/02/2016	07.28	24/02/2016	19.58	PO	For Replacement of Normal Disc to Antifog Disc Insulator.
Main Bus-I @ Koradi III	IntraState	24/02/2016	09.13	25/02/2016	00.34	PO	Annual Maintenance Work
Chandrapur-II - Nanded	IntraState	24/02/2016	10.40	24/02/2016	19.00	PO	Replacement of Vibration Dampers and Spacers.
Koradi-Bhusawal	IntraState	24/02/2016	10.42	24/02/2016	11.21	T	Distance Protection
koaradi II - Wardha(PG)	IntraState	24/02/2016	12.14		Continued.	PO	Fixing of Corona Ring.
karad -kolhapur-I	IntraState	24/02/2016	16.34		Continued.	HT	Over Voltage
Karad - Jaigad - II	IntraState	24/02/2016	16.37		Continued.	HT	Over Voltage
Lonikand 1 - Talegaon(Pgcil)	IntraState	25/02/2016	06.21		Continued.	PO	Sprining of conductor of brigestone chakan line.
220 KV LINE Outages/Trippings							
Hingoli- Girawali	InterState	14/02/2016	12.37		Continued.	HT	To Improve Voltage @ Hingoli.
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.
Kalwa - Borivali	IntraState	10/01/2016	09:15		Continued.	PO	Tower Erection Work.
GIS Bhandup - Borivali	IntraState	11/01/2016	07.42		Continued.	PO	Tower Erection Work.
Padghe - Vasai	IntraState	24/01/2016	08.32		Continued.	PO	For Formation of Temp. Padgha-Borivali (Charge upto 51/1).
Bableshtar- Alephata	IntraState	03/02/2016	06.28		Continued.	HT	controlling bblsr ICT Overloading
Bableshtar- Ranjangaon	IntraState	03/02/2016	07.12		Continued.	HT	controlling bblsr ICT Overloading
Padghe - Jambhul 1	IntraState	19/02/2016	15.10		Continued.	PO	Strengthening of A and B Bus structure(For 8 Days),Taken on TBC.
Miraj - Ichalkaranji II	IntraState	22/02/2016	09.07		Continued.	HT	To Control Loading of ICT @ Kolhapur TO Avail Outage.
Chikhli-Jalna-II	IntraState	22/02/2016	15.05		Continued.	HT	For Akola ICT Over Loading.
Chikhli-Jalna-I	IntraState	22/02/2016	15.05		Continued.	HT	For Akola ICT Over Loading.

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 24/Feb/2016

Statement-VII

Position as on 6.30 Hrs of 25/Feb/2016

Name of Line	Inter State / Intra State	Tripped Date	Tripped Time	Sync. Date	Sync. Time	Outage Type	Reason of Outage
Hinjawadi I- Chinchwad	IntraState	23/02/2016	20.46	24/02/2016	06.07	PO	To Control Urse-Chinchwad line Loading.
Chakan-Chinchwad	IntraState	23/02/2016	21.06	24/02/2016	04.05	PO	M/C Tower Erection Work.
Telco- Chinchwad	IntraState	23/02/2016	21.07	24/02/2016	05.49	PO	M/C Tower Erection Work.
Tata Borivli MSETCL Borivli 4	IntraState	24/02/2016	04.44	24/02/2016	07.57	T	Distance Protection
Salsette Borivli 2	IntraState	24/02/2016	04.44	24/02/2016	04.54	T	Distance Protection
Salsette Borivli 1	IntraState	24/02/2016	04.44	24/02/2016	07.47	T	Distance Protection
Flagship-Nandedcity	IntraState	24/02/2016	05.58	24/02/2016	20.46	HT	Control Line Loading.
Talandage(kolh'r)- Sawantwadi II	IntraState	24/02/2016	06.24	24/02/2016	06.44	T	Distance Protection
Nagothane - ACCIL	IntraState	24/02/2016	10.08	24/02/2016	15.30	PO	Testing Work
Kandalgaon - Topworth	IntraState	24/02/2016	10.10	24/02/2016	15.55	PO	bunching work for Pioneer s/sn.
Nigade- Peth Line	IntraState	24/02/2016	10.43	24/02/2016	11.41	PO	Signature Analysis Work.
Lamboti-Vita	IntraState	24/02/2016	11.35	24/02/2016	19.12	PO	Due to outage on Lamboti ICT- I.
Pedhambe - Oni	IntraState	24/02/2016	15.18	24/02/2016	16.55	PO	To attend Hot Spot
Hinjawadi I- Chinchwad	IntraState	24/02/2016	20.45	25/02/2016	06.08	HT	To Control Over loading for Urse-Chinchwad Line.
Chakan-Chinchwad	IntraState	24/02/2016	21.04	25/02/2016	05.53	PO	Narrow Base M/C New Tower Erection Work.
Telco- Chinchwad	IntraState	24/02/2016	21.10	25/02/2016	05.55	PO	Narrow Base M/C New Tower Erection Work.
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 - 2 @Harangul	IntraState	15/02/2016	13.04		Continued.	PO	Work of Oil Filtration of ICT.
220/33kv 100 MVA ICT-II @ Boisar	IntraState	20/02/2016	14.51		Continued.	T	Differential Protn.Optd./Internal Fault.Declared Faulty.
132 KV LINE Outages/Trippings							
Beed (220kv) - Beed (132kv)	IntraState	24/02/2016	18.48	24/02/2016	21.01	T	Distance Protection

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