

State Load Despatch Center, Airoli (MSETCL) Statement I
Daily system Report for 22/Aug/2022 MONDAY

I GENERATION (MUs)			II EXCHANGES (MUs)		
A) MSPGCL	Daily	Monthly	E) InterState Exchanges	Daily	Monthly
1) Thermal	98.966	2251.911	1) Gujrat	10.398	194.398
2) Hydro	12.722	288.418	2) Madhya Pradesh	8.872	120.672
3) Gas	6.237	110.129	3) Chattisgarh	2.870	64.060
Total MSPGCL	117.925	2650.458	4) Maharashtra	137.061	3112.730
B) 1) APLM	58.265	1092.876	5) Goa (Amona)	-2.128	-35.372
2) JSWEL	14.076	310.015	Total	157.073	3456.488
3) VIPL	0.000	0.000	a) Mumbai Schedule	34.353	668.156
4) RPL(AMT)	17.481	440.543	b) Mumbai Drawl	37.588	729.794
5) SWPGPL	5.481	135.378	c) MSEDCL Bilateral *	86.998	1675.366
6) Other IPP	5.150	128.920	Include PX	0.000	0.000
7) PGPL	0.000	0.000	d) Mumbai Bilateral *	34.353	667.931
C) 1) TPCL Thermal	9.716	224.905	Include PX	0.000	0.000
2) TPCL Hydro	6.502	129.036	Standby	0.000	0.224
3) TPCL Gas	2.199	42.134	H) ENERGY CATERED (MUs)		
4) AEML Thermal	4.978	188.123	1) MSEDCL	395.485	8373.244
D) STATE			2) Mumbai Discoms	60.983	1313.992
1) Thermal	214.113	4772.671	3) Other Discoms	9.044	190.708
(A1+C1+C4+(B1-B6))			TOTAL STATE	465.512	9877.944
2) Hydro	19.224	417.454			
(A2+C2)					
3) Gas	8.436	152.263			
(A3+B7+C3)					
4) Wind	59.515	907.264			
6) SOLAR	7.151	171.804			
TOTAL STATE	308.439	6421.456			

* Displayed for information, not added in total.

DETAILS OF MAHARASHTRA STATE PEAK DEMAND(MW) Statement II

PARTICULARS	A. Morning Peak at 9 Hrs	B. Day Peak at 13 Hrs	C. Evening Peak at 20 Hrs	D. Night Minimum at 2 Hrs
MSPGCL Thermal	4292	3683	4392	3915
MSPGCL Hydro	477	523	1351	328
MSPGCL Gas	277	267	232	289
MSPGCL Total Generation	5046	4473	5975	4532
Central Sector Receipt	7580	7179	7290	5146
WIND	2915	2977	1747	2464
CPP / IPP Thermal	4215	3552	5008	3957
CPP / IPP Gas	0	0	0	0
SOLAR	462	901	0	0
Exchange with Mumbai	-1700	-2082	-1683	-1087
MSEDCL DEMAND MET	18104	16596	17917	14701
Load Shedding	0	0	0	0
MSEDCL DEMAND	18104	16596	17917	14701
TPCL GENERATION	756	750	884	718
AEML GENERATION	177	230	226	177
MUMBAI DEMAND	2633	3062	2793	1982
OTHER DISCOM DEMAND	415	404	420	311
STATE DEMAND MET	21151	20062	21130	16994
STATE DEMAND	21151	20062	21130	16994
Frequency (Hz)	50.04	49.95	49.96	50.01

FREQUENCY PARTICULARS

MAXIMUM FREQ.	MINIMUM FREQ.	AVERAGE FREQ.	FREQ. BELOW 49.4 Hz
50.17 Hz at 13:02 Hrs	49.76 Hz at 12:46 Hrs	50.01	0 % of Time(min)

Note : The report is based on Operational Data and is for statistical purpose only.

Daily and Progressive Generation,Maximum,Minimum for 22/Aug/2022

Generating unit	Generation			
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)
Koradi				
Unit 6	3.29	54.20	170	95
Unit 7	0.00	0.00	0	0
Unit 8	0.00	102.62	0	0
Unit 9	0.00	46.51	0	0
Unit 10	10.24	225.65	463	395
Total	13.54	428.98		
Bhusawal				
Unit 3	0.00	7.23	0	0
Unit 4	8.22	177.58	390	280
Unit 5	0.00	55.81	0	0
Total	8.22	240.61		
Parli				
Unit 6	4.10	89.82	201	144
Unit 7	4.03	79.77	194	148
Unit 8	2.56	77.48	164	0
Total	10.69	247.07		
Chandrapur				
Unit 3	0.00	32.41	0	0
Unit 4	0.00	12.42	0	0
Unit 5	5.74	112.94	272	185
Unit 6	6.82	108.77	325	265
Unit 7	5.43	32.76	240	212
Unit 8	9.46	192.41	451	288
Unit 9	9.82	201.51	452	290
Total	37.27	693.21		
Paras				
Unit 3	4.25	75.16	199	152
Unit 4	3.94	80.04	183	145
Total	8.19	155.20		
Khaparkheda				
Unit 1	0.00	37.40	0	0
Unit 2	0.00	44.16	0	0
Unit 3	3.36	73.86	158	129
Unit 4	3.71	47.89	190	131
Unit 5	8.33	155.53	420	275
Total	15.41	358.84		
Nasik				
Unit 3	2.90	64.97	138	82
Unit 4	0.00	0.00	0	0
Unit 5	2.76	63.02	129	92
Total	5.67	128.00		
Uran				
All Units	6.24	110.13	327	231
Total	6.24	110.13		
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)	0.59	13.12	27	23
Total	0.59	13.12		
Koyna				

Generating unit	Generation			
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)
Stage 1-2	2.00	51.33	315	30
Stage 4	0.83	39.73	628	0
Stage 3	1.22	31.34	206	0
Total	4.05	122.41		
Hydro				
KDPH	0.86	9.82	36	36
VTRNA	0.60	13.19	61	0
TILLARI	0.46	11.55	58	0
BHIRA T.R.	0.50	10.26	80	0
SMLHY_PTN	5.65	104.45	245	220
GHATGHAR	0.00	3.64	0	0
Total	8.08	152.89		
Wind				
Total	59.52	907.26	0	0
Total	59.52	907.26		
CPP				
APML(Mus)	58.26	1092.88	0	0
JSWEL(Mus)	14.08	310.02	0	0
VIPL(Mus)	0.00	0.00	0	0
RPLAMT-Mus	17.48	440.54	0	0
SWPGPL-Mus	5.48	135.38	0	0
Other(Mus)	5.15	128.92	0	0
Total	100.45	2107.73		
SOLAR				
Total	7.15	171.80	0	0
Total	7.15	171.80		
Tata				
Trombay 5	6.52	150.10	311	266
Trombay 6	0.00	0.00	0	0
Trombay 7A	1.20	24.42	63	41
Trombay 7B	1.00	17.72	50	36
TATA Hydro	6.50	129.04	383	125
Trombay 8	3.20	74.81	137	132
Total	18.42	396.08		
AEML				
DTPS U-1&2	4.98	188.12	246	165
Total	4.98	188.12		

* Infirm Power			Summary			Summary		
Particulars	Daily (Mus)	Monthly	Particulars	Daily (Mus)	Monthly (Mus)	Particulars	Daily (Mus)	Monthly (Mus)
			MSPGCL Thermal	98.97	2251.91	MSPGCL Total	117.92	2650.46
			MSPGCL Thml+Gas	105.20	2362.04	Koyna 1,2 & 4 Total	2.83	91.06
			MSPGCL Hydro	12.72	288.42	State Total	308.44	6421.46

State Load Despatch Center,Airoli (MSETCL)

Hourly Load Data As on 22/Aug/2022

Annexure-2

TIME SR. NO.	MSPGCL GEN.			TOTAL	WIND	CPP / IPP		SOLAR	CS SHARE	CS RECPT	Mum. NET EXCH.	MSEDC L DEM. MET	LOAD SHED DING	MSEDC L DEM. WITH LS	MUMBAI DEMAN D	OTHER DISCOM DEMAN D	STATE DEMAND	FREQ. (Hz)
	THM	HY	GAS			THM	GAS											
1	4073	398	262	4733	2522	3963	0	0	5223	5156	-1126	14923	0	14923	2120	325	17368	50.02
2	3915	328	289	4532	2464	3957	0	0	5194	5146	-1087	14701	0	14701	1982	311	16994	50.01
3	3978	330	327	4635	2360	3743	0	0	5228	5578	-1030	14994	0	14994	1870	292	17156	50.02
4	3990	337	267	4594	2472	3900	0	0	5337	5322	-996	14997	0	14997	1806	295	17098	50.03
5	4200	333	267	4800	2640	4178	0	0	5315	5051	-1009	15336	0	15336	1807	324	17467	50.03
6	4181	352	270	4803	2551	4473	0	0	6071	5752	-1058	16184	0	16184	1939	337	18460	50.01
7	4253	391	267	4911	2804	4189	0	46	7183	7406	-1200	17778	0	17778	2110	377	20266	50.01
8	4061	625	267	4953	2750	4144	0	235	7375	7823	-1423	18087	0	18087	2326	395	20808	50.04
9	4292	477	277	5046	2915	4215	0	462	7241	7580	-1700	18104	0	18104	2633	415	21151	50.04
10	4250	466	267	4983	2988	4130	0	685	7412	6946	-1918	17398	0	17398	2939	415	20753	49.95
11	3807	574	267	4648	2889	3666	0	771	7619	7625	-2079	17113	0	17113	3124	407	20644	49.95
12	4092	592	263	4947	3019	3629	0	873	7497	7232	-2136	17140	0	17140	3154	425	20718	50.04
13	3683	523	267	4473	2977	3552	0	901	7462	7179	-2082	16596	0	16596	3062	404	20062	49.95
14	3658	448	269	4375	2978	3350	0	980	7297	6844	-2006	16131	0	16131	2931	390	19452	50.05
15	3849	680	269	4798	2818	3390	0	892	6644	6839	-1994	16331	0	16331	2940	412	19683	50.01
16	4089	464	260	4813	2718	3742	0	684	6737	6629	-1963	16246	0	16246	2961	377	19584	50.00
17	4117	754	256	5127	2327	3879	0	408	6918	7193	-1914	16623	0	16623	2904	396	19924	49.96
18	4414	562	234	5210	2255	4654	0	198	6706	6568	-1838	16653	0	16653	2863	394	19910	50.01
19	4389	833	233	5455	1921	4696	0	18	7045	7201	-1741	17133	0	17133	2824	416	20374	50.00
20	4392	1351	232	5975	1747	5008	0	0	7359	7290	-1683	17917	0	17917	2793	420	21130	49.96
21	4339	592	233	5164	1835	5008	0	0	7150	6981	-1591	17000	0	17000	2672	397	20069	50.00
22	4379	565	231	5175	1813	5013	0	0	6429	6331	-1441	16497	0	16497	2533	394	19424	50.03
23	4300	395	231	4926	1858	5002	0	0	6123	6035	-1336	16113	0	16113	2407	372	18892	50.03
24	4265	352	232	4849	1894	4972	0	0	6007	5366	-1237	15491	0	15491	2283	353	18127	50.01
MUs	98.97	12.72	6.24	117.92	59.51	100.45	0.00	7.15	158.57	157.07	-37.59	395.48	0.00	395.48	60.98	9.04	465.51	50.01

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 22/Aug/2022

Position as on 6.30 Hrs of 23/Aug/2022

Generating Company	Name of Generating Unit	Capacity	Tripped Date	Tripped Time	Sync.Date	Sync. Time	Reason of Outage	Expected Date
PLANNED OUTAGE								
MSPGCL	Koyna Unit 9	80	15/06/2022	08:00		Continued.	Capital Overhaul	30/09/2022
MSPGCL	Koyna Unit 4	70	05/08/2022	17:20		Continued.	Generator winding differential protection	20/09/2022
MSPGCL	Koradi Unit 9	660	07/08/2022	14:53		Continued.	Boiler Tube Leakage (Converted to Annual Overhaul from 11.08.2022 for 45 Days)	26/09/2022
MSPGCL	Bhusawal Unit 5	500	08/08/2022	12:31		Continued.	Bottom ash Hopper damaged due to felling of clinker in the boiler (Converted into Annual Overhaul for 33 Days.)	10/09/2022
MSPGCL	Koyna STG-IV Unit-4	250	13/08/2022	10:06		Continued.	Commissioning and installation of new TSLG Governor	22/08/2022
FORCED OUTAGE								
PGPL	PGPL U1	262	07/02/2017	17.30		Continued.	No Schedule (NO PPA)	
PGPL	PGPL U2	126	07/02/2017	17.30		Continued.	No Schedule.(NO PPA)	
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. (NO PPA From 20.05.2019)	
IPP	VIPL U-2	300	17/01/2019	00.15		Continued.	Coal shortage.(NO PPA From 20.05.2019)	
CENT.SECTOR	Tarapur 1	160	08/01/2020	10:37		Continued.	Refueling. While refueling preparation, some repair works identified which are being executed before refueling.	31/03/2023
MSPGCL	Uran Unit 7	108	25/05/2020	12.51		Continued.	Turbine Blade Failure	22/10/2022
CENT.SECTOR	Tarapur 2	160	13/07/2020	04:38		Continued.	For cleaning of clogged basket strainer of cooling water system due to heavy ingress of debris from sea. The outage extended for repair and re-fueling.	31/03/2023
MSPGCL	Koradi Unit 7	210	27/04/2021	20.03		Continued.	Retired (04/08/2021 At 00.00)	
IPP	JSW (J) U1	300	16/03/2022	23:16		Continued.	Turbine Vibration	
MSPGCL	Ghatghar Unit-1	125	20/04/2022	00:35		Continued.	Stator Earth Fault	01/09/2022
IPP	RPL(AMT) U-3	270	30/06/2022	15:00		Continued.	Coal Shortage	
IPP	JSW (J) U4	300	01/07/2022	13:03		Continued.	Turbine bearing Vibration high	24/08/2022
MSPGCL	Nasik Unit 4	210	14/07/2022	19:55		Continued.	Wet Coal Problem.	
IPP	SWPGPL U-2	135	20/07/2022	01:00		Continued.	Coal Shortage	
MSPGCL	Chandrapur Unit 4	210	09/08/2022	20:25		Continued.	FURNACE DRAFT VERY HIGH/ poor coal receipt & wet coal.	
MSPGCL	Chandrapur Unit 3	210	15/08/2022	12:50		Continued.	Poor Coal Receipt	
MSPGCL	Uran Unit 5	108	15/08/2022	19:41	22/08/2022	00:19	Gas shortage	
IPP	SWPGPL U-4	135	16/08/2022	00:45		Continued.	Coal Shortage	
MSPGCL	Bhusawal Unit 3	210	16/08/2022	03:44		Continued.	Wet coal problem.	

State Load Despatch Center,Airoli (MSETCL) Statement-VI
Details of Generating Unit Outages/Trippings for 22/Aug/2022

Position as on 6.30 Hrs of 23/Aug/2022

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	16/08/2022	04:28		Continued.	DUE TO WET STEAM PROTECTION/ poor coal receipt & wet coal.	
AEML	AEML Unit 1	250	18/08/2022	10:04		Continued.	UAT T/F Buchholz relay tripped	22/08/2022
MSPGCL	Khaparkheda Unit 2	210	19/08/2022	02:18		Continued.	Furnace Pressure High/poor coal receipt & wet coal.	
IPP	RPL(AMT) U-5	270	19/08/2022	11:00		Continued.	Coal Shortage	
MSPGCL	Parli Unit 8	250	21/08/2022	05:10	22/08/2022	05:56	Fault of station TF	22/08/2022
MSPGCL	Koradi Unit 8	660	21/08/2022	14:10		Continued.	SUSPECTED BOILER TUBE LEAKAGE	27/08/2022
MSPGCL	Uran Unit 6	108	22/08/2022	02:50		Continued.	Gas shortage	
MSPGCL	Ghatghar Unit-2	125	22/08/2022	18:25		Continued.	Excitation Problem	
MSPGCL	Nasik Unit 3	210	23/08/2022	06:06		Continued.	Bus Bar Protection operated	

State Load Despatch Center,Airoli (MSETCL)
Details of Line outages/Trippings for 22/Aug/2022

Statement-VII

Position as on 6.30 Hrs of 23/Aug/2022

Name of Line	Inter State / Intra State	Tripped Date	Tripped Time	Sync. Date	Sync. Time	Outage Type	Reason of Outage
765 KV MAINBAY Outages/Trippings							
MAIN BAY (704) OF EKTUNI CKT - 1 @ AKOLA 2	IntraState	22/08/2022	10:15	22/08/2022	15:22	PO	Circuit Breaker SF6 gas analysis & CB Preventive maintenance activities
500 KV LR Outages/Trippings							
Pole-1 Non base AC filter Z3 (120 MVAR) @ Chandrapur HVDC	IntraState	16/08/2022	15:11			HT	This breaker put in lock out at 15:06hrs dt.15.08.2022 and this filter is under breakdown and expert service are required for
400 KV MAINBAY Outages/Trippings							
400KV MAIN BAY 413 OF SPARE BAY @ CHANDRAPUR 2	InterState	23/06/2022	20:33			EO	for requirement of trip coil material from 400 kv spare bay 413 CB and utilise it in 400 kv Warora Ckt 2 CB 425
400 KV LINE Outages/Trippings							
KOLHAPUR - SOLAPUR (PG) CKT - 2	InterState	22/08/2022	09:31	23/08/2022	02:06	PO	400kv TBC B bus isolator repair work
KHADKA-AURANGABAD (WALUJ)	IntraState	21/08/2022	19:43	22/08/2022	07:19	HT	H/T ON OV
JAIGAD - KARAD CKT - 2	IntraState	22/08/2022	00:24			HT	To control OV
KHADKA- DEEPNAGAR CKT 2	IntraState	22/08/2022	09:40	22/08/2022	17:12	PO	For MTAMC work.
KARAD - TALANDGE CKT - 2	IntraState	22/08/2022	09:44	23/08/2022	00:38	PO	400kv TBC B bus isolator repair work
MAIN BUS - 2 @ TALANDGE	IntraState	22/08/2022	10:20	22/08/2022	23:51	PO	1. PID faulty insulator string replacement work 2. Chemical cleaning of Bus insulator 3. Annual Testing of Bus CVT
NAGOTHANE - DABHOL CKT - 2	IntraState	22/08/2022	13:38	22/08/2022	15:59	EO	Refixing work of earthwire at location No. 298 which has slipped from tension clamp
400 KV ICT Outages/Trippings							
400 /7.6KV Station T/F-5 A @ KHAPERKHEDA	IntraState	22/08/2022	10:26	22/08/2022	16:55	PO	Replacement of Top Stack of R Ph LA
220 KV LINE Outages/Trippings							
INFOSYS - HINJAWADI 1	IntraState	22/08/2022	08:14	22/08/2022	18:47	PO	A) Tower Erection - 72MT MCTT Tower Main Body Erection B) Erection of one side Cross Arm (Road Side) C) Tower Tightneing
JEJURI-PHURSUNGI 1	IntraState	22/08/2022	10:23	22/08/2022	15:58	PO	1)Replacement of PID Faulty string at L.N.-52 ¿Pilot (Y Phase-Phursungi Side), L.N.-52 ¿Pilot (Y Phase-Jejuri Side), L.N.-52 ¿Pilot (B Phase-Jejuri Side), L.N.-54 ¿Pilot (R Phase-Phursungi Side), L.N.-57 ¿Pilot (B Phase-Jejuri Side) 2) Double Jumpering work at L.N.-31(R phase), L.N.-55(R Phase),L.N.-21(B Phase),L.N.-49(B phase),L.N.12 3) L.N.-17-B Phase,19-B& Y Phase,L.N.-20-Y Phase(1to 21 M/c tower), L.N.-2-Y Phase (1 to 6 M/c) D Shackle Nutbolt tightening work.
BABLESHWAR AHAMADNAGAR-II	IntraState	22/08/2022	10:45	22/08/2022	15:10	PO	CB Timing DCRM
TALANDAGE - FIVE STAR MIDC 1	IntraState	22/08/2022	11:46	22/08/2022	15:21	PO	For diagnostic testing and quaterly maintenance work
KANDALGAON - ONGC PANVEL	IntraState	22/08/2022	12:10	22/08/2022	17:55	PO	Rutine Maintenance of Emmergency Tree Cutting Work

State Load Despatch Center, Airoli (MSETCL)
Details of Line outages/Trippings for 22/Aug/2022

Statement-VII

Position as on 6.30 Hrs of 23/Aug/2022

Name of Line	Inter State / Intra State	Tripped Date	Tripped Time	Sync. Date	Sync. Time	Outage Type	Reason of Outage
SADAWAGHAPUR KARAD CKT 1	IntraState	22/08/2022	16:03	22/08/2022	19:21	EO	Emergency outage for attending hot spot at R Ph jump between 29C & 29D isolator. (temp-157 deg)
MALHARPETH SATARA MIDC	IntraState	23/08/2022	01:57			T	DP
MAIN BUS SECTION - 2 @ EKLAHARE (GCR)	IntraState	23/08/2022	06:06			T	Tripped due to CT burst of BBLR Nashik 2
EKLAHARA(GCR)(NASIK)-BABLESHWAR 2	IntraState	23/08/2022	06:06			T	R-ph CT busrt
EKLAHARA(GCR)(NASIK)-BABLESHWAR 1	IntraState	23/08/2022	06:06			T	Tripped on Overload
EKLAHARE (GCR) - AIROLI KNOW PARK	IntraState	23/08/2022	06:06			T	Tripped due to same Bus as BBLR Nashik 2
MAIN BUS SECTION - 1 @ EKLAHARE (GCR)	IntraState	23/08/2022	06:06			T	Tripped due to CT burst of BBLR Nashik 2
220 KV ICT Outages/Trippings							
220 / 110 / 22kV 250 MVA ICT 1 @ SALSETTE	IntraState	12/10/2020	11:35			T	Tripped due to Grid disturbance.
220/22 KV 50 MVA PTR 1 @ MAHAD	IntraState	22/08/2022	09:20	22/08/2022	15:06	PO	LV & HV panel height rising work
220/33 KV 50 MVA PTR - 7 @ WATHAR	IntraState	22/08/2022	10:20	22/08/2022	16:40	PO	Relay Tesing work & Quarterly Maintainance works
220/33KV 25MVA PTR 1 @ HALKARNI	IntraState	22/08/2022	10:35	22/08/2022	16:40	PO	Annual Protection Relay Testing, Diagnostic Testing of CT,CB.
220/132 KV 200 MVA ICT 1 @ EKLHARE(GCR)	IntraState	23/08/2022	06:06			T	Tripped due to same Bus as BBLR Nashik 2
220/132 KV 150 MVA ICT 2 @ EKLAHRE (GCR)	IntraState	23/08/2022	06:06			T	Tripped due to same Bus as BBLR Nashik 2
220/132KV 200MVA ICT 6 @ EKLAHARE (GCR)	IntraState	23/08/2022	06:06			T	Tripped due to same Bus as BBLR Nashik 2
110 KV LINE Outages/Trippings							
DHARAVI VIKHROLI	IntraState	30/08/2021	00:03			PO	Shifting of OPGW and stringing of conductor of 220 kV Trombay-Dharavi- Salsette line and replacement and shifting of conductor of Dharavi Powai and Dharavi Vikhroli line on new tower and dismantling old towers in section 32 to 38. 110 KV Vikhroli Powai line will be formed for dual feed to Vikhroli and Powai.
DHARAVI POWAI	IntraState	30/08/2021	00:03			PO	Shifting of OPGW and stringing of conductor of 220 kV Trombay-Dharavi- Salsette line and replacement and shifting of conductor of Dharavi Powai and Dharavi Vikhroli line on new tower and dismantling old towers in section 32 to 38. 110 KV Vikhroli Powai line will be formed for dual feed to Vikhroli and Powai.

HT : Hand Tripping, T : Tripping, PO : Planned Outage, EO : Emergency Outage