EVENT ANALYSIS REPORT						
UNIT NO: 03	TPS: Khaperkheda TPS Unit Capacity: 210 MW					
1. *HO Code :	Station Code : T003	Time - 00:52 Hrs	Date - 07/01/201	17		from last sync. : 1 days
2. Operating conditions at the time of Event :-		'AU'	*		&	
Load		Coal Cy	Coal Cycles in service		Oil Support	
90 MW			A, B & C		NIL	
3. Nature of Event: TA set forced withdrawn due to boiler tube leakage at economiser zone.						
4. Name of First Up, Main Protections & Protection on which GCB tripped: Hand Tripped (First Up), MFT Operated, Turbine Tripped.						
5 A) Observations: - On dt. 07/01/2017 at 00:00 hrs, set was on load at 161 MW with five coal cycles in service						
(F - U/P) and no oil support. Furnace draft found maintaining on positive side. Drum level found dropping and						
DM make-up found increased. After confirmation of boiler tube leakage, load reduced gradually by withdrawing coal						
cycles E & D, one by one. Set hand tripped at 00:52 hrs when the load was 90 MW with C/M-A, B & C in service.						
GCB opened on generator reverse power protection.						
5 B) Remedial Action/work done : -						
Primary Failure – Economiser Upper Bank Coil No.149 Tube No.19 found punctured. Secondary Failure – Economiser Upper Bank Coil No.150 Tube No.20 found punctured and Tube No.21 found eroded Work carried out: Economiser Upper Bank Coil no.149 & 150 attended by welding hemispherical spools at Economiser Intermediate and Inlet header. (Total HP Weld Joints = 04 Nos.)						
6. Root Cause Analysis: Economiser Upper Bank Coil No.149 Tube No.19 failed due to localized flue gas erosion.						
7. Preventive action suggested (Short Term):-						
Dummied coil no. 149 & 150 will be normalized during forthcoming AOH of Unit-3.						
8. Preventive action suggested (Long Term) :-						
(1) OLC for Unit-3 is being declared less by 10 MW.						
(2) Load raising & lowering is being done gradually, i.e. @ 1.5 to 2.0 MW/min. Circular						
(No. 619 dtd 03.12.16) issued to all the concerned for implementation of the practice.						
(3) Every time during BTL occurrence erosion prone area is being checked thoroughly and the tubes with						
marginal thickness (Reduced by 20% of the original thickness, or lesser than that) are also dummied / attended.						
9. Similar event occurred last time :		Unit	No # 3 , 210 MW	Time: 11:00 Hrs		Date: 22/10/2016
Event: TA set withdrawn due to boiler tube leakage at economizer zone.						
Remedial Action / Work done: Economizer upper bank coil no. 136, 137 & 138 attended by welding hemispherical spools at economizer intermediate and economizer inlet header. Total HP weld joints = 06 Nos.						
9A. Implementation Status of Long Term/Short Term measures stated at Sr No 7 & 8:-						
10. Boiler lighted up		Time -	Time – 18:55 Hrs		Date - 07/01/2017	
11. T-A Set Synchronized		Time -	Time - 02:23 Hrs		Date - 08/01/2017	
12. Remark: - Chief Engineer						
13. Recommendations of Works Section:						
1. Procurement/Replacement Plan:						
2. Operational Error:						
3. Delay in Maintenance:						
4. Delay in bringing back the Unit:						
5. Training of Staff:						
6. Whether remedial action is completed satisfactory & point is closed:						
C E/Dy C E (Works)						