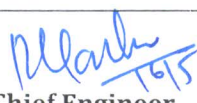


EVENT ANALYSIS REPORT				
UNIT NO : 04	TPS : Khaperkheda TPS		Unit Capacity : 210 MW	
1. *HO Code :	Station Code : T003	Time - 23:36Hrs	Date - 04/05/2017	No. of days from last sync. : 7 days
2. Operating conditions at the time of Event :-				
Load		Coal Cycles in service	Oil Support	
84 MW		A, B, D & E	NIL	
3. Nature of Event : TA set withdrawn due to boiler tube leakage in economiser zone.				
4. Name of First Up , Main Protections & Protection on which GCB tripped : Hand Trip (First Up), Generator Class A, Turbine Tripped, MFT Operated.				
5 A) Observations : On dt. 04/05/2017 at 22:00 hrs, set was on load at 185 MW with five coal mills in service and no oil support. Coal mill-C was U/P. Boiler tube leakage sound was noticed at 38.5 meters level near LRSB No.82. DM make up found increased to 81 TPH. Also, drum level found maintaining below -100 mm. After confirming boiler tube leakage, load reduced gradually. Coal cycle-F withdrawn at 23.25 hrs. Finally, set withdrawn at 23.36 hrs when the load was 84 MW with four coal cycles in service. GCB opened on Reverse Power Protection.				
5 B) Remedial Action/work done : <u>Primary Failure</u> - Economiser upper bank coil no. 43 tube no. 3 found fish mouth opening punctured. <u>Secondary failure</u> - No secondary failure observed. <u>Work carried out:</u> Economizer upper bank coil no.43 attended by welding hemispherical spool at economizer intermediate and economizer inlet header. <b>(Total No. of HP weld Joints = 02 Nos.)</b>				
6. Root Cause Analysis : Localized flue gas erosion of tube no. 3 of economizer upper bank coil no. 43.				
7. Preventive action suggested (Short Term) :				
8. Preventive action suggested (Long Term) : (1) Complete replacement of economizer upper & lower bank coils will be carried out during forthcoming overhaul of Unit no. 4 (July-17). (2) Normalization of plugged economiser coil no. 43 will be carried out during forthcoming overhaul of Unit no. 4.				
9. Similar event occurred last time :		Unit No # 4 , 210 MW	Time : 12:22 Hrs	Date : 28/12/2016
Event : T. A. set forced withdrawn due to boiler tube leakage at economizer zone.				
Remedial Actions : <u>Primary Failure</u> - Economizer upper bank coil no. 162 tube no.19 found punctured. <u>Secondary failure</u> -(1) Economizer upper bank coil no. 161 tube no.20 found punctured. (2) Economizer upper bank coil no. 160 tube no.20 found eroded. (3) RHS SCW manhole door opening rear side bend & tube no.1 punctured. (4) RHS SCW manhole door opening front side bend found eroded. <u>Work Carried Out</u> - <b>Total No. of HP weld joints = 12 Nos.</b> 1) Economizer upper bank coil no, 160, 161 & 162 attended by welding hemispherical spools at economizer intermediate and economizer inlet header. 2) All the eroded and punctured SCW manhole door opening bends & tubes replacement work carried out.				
9A. Implementation Status of Long Term/Short Term measures stated at Sr No 7 & 8 :-				
10. Boiler lighted up		Time - 18:35 Hrs	Date - 05/05/2017	
11. T-A Set Synchronized		Time - 03:18 Hrs	Date - 06/05/2017	
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)				