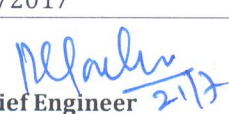


EVENT ANALYSIS REPORT				
UNIT NO : 04	TPS : Khaperkheda TPS		Unit Capacity : 210 MW	
1. *HO Code :	Station Code : T003	Time -10:20 Hrs	Date - 26/06/2017	No. of days from last sync. : 06 days
2. Operating conditions at the time of Event :-				
Load		Coal Cycles in service	Oil Support	
52 MW		B	NIL	
3. Nature of Event: T. A. set forced withdrawn (hand tripped) due to boiler tube leakage at economizer coils.				
4. Name of First Up , Main Protections & Protection on which GCB tripped : Emergency Push Button Operated Hand Tripped(First Up), MFT, Reheater Protection, Turbine Tripped, Generator Protection Operated.				
5 A) Observations: On dt. 26/06/17 at 09:00 hrs, set was on load at 136 MW with five coal cycles in service (F - S/by). The furnace draft went on positive side and drum level was also found dropping to low level. DM make up raised to 49 TPH also abnormal sound was observed at 30 mtr. level near corner No.4 of second pass. After confirmation of boiler tube leakage, coal mills were withdrawn one by one for reducing load in order to withdraw the set. GCB opened on Reverse Power Protection.				
5.B) Remedial Action/work done: <u>Primary Failure</u> - Economiser upper bank coil no. 144 tube no. 16 found fish mouth opening punctured. <u>Secondary failure</u> - 1) SCW inlet header SHH 4A connecting RHS offset bend no.1 & 2 found punctured and bend no.3 found eroded. 2) Economizer upper bank coil no. 145 tube no.17 found puncture. <u>Work Carried Out</u> - 1) Economizer upper bank coil 144 & 145 attended by welding hemispherical spool at economizer Intermediate and economizer Inlet header. 2) Replacement of SCW inlet header SHH 5 to SHH 4A connecting RHS offset no.1, 2 & 3. (Total no of HP joints =13)				
6. Root Cause Analysis: Localized flue gas erosion of tube no. 16 of economiser upper bank coil no.144 is the root cause of failure.				
7. Preventive action suggested (Short Term) :				
8. Preventive action suggested (Long Term) : 1) Replacement of all economizer coils will be carried out during forth coming AOH of unit no. 4. 2) Normalization of plugged eco. Coil no. 144 & 145 will be carried out during forth coming AOH of unit no.4 3) DP test of SCW inlet header SHH4 & SHH 5 will be carried out during forth coming AOH of unit no.4				
9. Similar event occurred last time:	Unit No # 4 , 210 MW		Time: 23:36 hrs	Date: 04/05/2017
Event: TA set withdrawn due to boiler tube leakage in economiser zone. Remedial Actions: <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. (Total No. of HP weld Joints = 02 Nos.)				
9A. Implementation Status of Long Term/Short Term measures stated at Sr No 7 & 8 :				
10. Boiler lighted up	Time - 00:45Hrs		Date - 06/07/2017	
11. T-A Set Synchronized	Time - 09:55 Hrs		Date - 06/07/2017	
12. Remark :				
 Chief Engineer 217				
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)				