


EVENT ANALYSIS REPORT				
UNIT NO : 04	TPS : Khaperkheda TPS		Unit Capacity : 210 MW	
1. *HO Code :	Station Code : T003	Time - 03:00 Hrs	Date - 11/05/2016	No. of days from last sync. : 02 days
2. Operating conditions at the time of Event :-				
Load		Coal Cycles in service	Oil Support	
90 MW		A, B, C & D	NIL	
3. Nature of Event: TA set tripped (hand tripped) due to boiler tube leakage at economizer zone.				
4. Name of First Up , Main Protections & Protection on which GCB tripped : Hand Tripped. (First Up) Turbine Tripped, MFT Acted, Gen. Class-A Tripped, Gen. Protection Operated.				
5 A) Observations: - On Dt.11/05/2016 at 02:00 hrs, set was on load at 200 MW with five coal cycles in service (F-Standby). At 02.12 hrs, drum level found dropped to low level and flue gas temperature after LTSH fell to 75° C with sudden increase in DM make-up. Tube leakage sound heard at economizer level at corner No. 3, near LRSB-81. This was confirmed by BM-I staff. Hence, load started reducing by withdrawing C/M-4E. Set hand tripped at 03:00 Hrs when the load was 90 MW with A, B, C & D coal mills in service and no oil support.				
5 B) Remedial Action/work done :- <u>Primary Failure</u> - Economizer upper bank coil no. 156, tube No.3 found fish mouth opening punctured and coil No. 112, tube No.8 found pin hole punctured. Economizer coil No. 156 & 112 attended by welding hemispherical spools at Economizer intermediate & inlet header. (Total Joints - 04 Nos) <u>Secondary failure</u> - There is no secondary failure observed.				
6. Root Cause Analysis: - Localized & concentrated flue gas erosion might be the root cause of failure of (1) Tube No.3 of economizer upper bank coil No.156 and (2) Tube No.8 of economizer upper bank coil No.112.				
7. Preventive action suggested (Short Term) :- 1) Dummied coil No. 156 & 112 will be normalized during forthcoming AOH of Unit-4. 2) Replacement of eroded and dummied coils will be carried out during forthcoming AOH of Unit-4.				
8. Preventive action suggested (Long Term) :-				
9. Similar event occurred last time:-	Unit No # 4 , 210 MW	Time : 08:55 Hrs	Date: 26/01/2016	
Event: TA Set withdrawn to attend Boiler Tube Leakage at Economizer Zone				
Remedial Actions: Economizer Coil no. 120 & 121 dummied by welding hemispherical spool at Economizer inlet & intermediate header.				
9A. Implementation Status of Long Term/Short Term measures stated at Sr No 7 & 8 :- The above corrective action will be implemented in August-16 by BM-I section.				
10. Boiler lighted up	Time - 00:03 Hrs	Date - 13/05/2016		
11. T-A Set Synchronized	Time - 04:12 Hrs	Date - 13/05/2016		
12. Remark :- APH Internal inspection and bottom ash hopper repairing carried out.				
 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)				