


EVENT ANALYSIS REPORT				
UNIT NO : 03	TPS : Khaperkheda TPS		Unit Capacity : 210 MW	
1. *HO Code :	Station Code : T003	Time - 20:37 Hrs	Date - 16/10/2015	No. of Days from last sync. : 27 days
2. Operating conditions at the time of Event :-				
Load 65 MW		Coal Cycles in service A, B & C	Oil Support NIL	
3. Nature of Event : : T.A. Set withdrawn for attending Boiler Tube Leakage at Steam Cooled Water Wall Zone.				
4. Name of First Up , Main Protections & Protection on which GCB tripped : Flame Failure (First Up) ,Turbine Tripped, Generator Reverse Power Relay Operated, Generator Protection Operated.				
5A) Observations: DM water make up found increased due to suspected Boiler Tube Leakage & hence it was difficult to maintain drum level . Boiler tripped on "flame failure" protection while withdrawing T.A. set due to boiler tube leakage.				
5B) Remedial Action/work done : Replacement of eroded and punctured tubes and bends of centre stub No.2 of connecting elbow of steam cooled water wall inlet header SHH4 to SHH5, stub No.1of bent steam cooled water wall header SHH5 & stub No. 1 & 2 of LHS steam cooled water wall header SHH4.				
6. Root Cause Analysis : Erosion might be the root cause of failure of centre offset bend at Corner No. 1 of SHH4 to SHH5 (Front & LHS steam cooled water wall header) connecting elbow.				
7. Preventive action suggested (Short Term):-				
8. Preventive action suggested (Long Term) :- (1) The heat flow pattern to be checked. (2) D.P. test of stub joints of front LHS & RHS Steam cooled water wall header. (3) Thickness survey in the vicinity of stub of Steam cooled water wall.				
9. Similar event occurred last time:-		U - 3, 210 MW	Time- 17:49 Hrs	Date: 28/06/2015
Event : T.A. Set withdrawn for attending Boiler Tube Leakage at Steam Cooled Water Wall Zone.				
Remedial Actions : BM : Replacement of damaged & eroded tubes & bend of Stub No. 1 & 2.				
Primary Failure : Steam Cooled Water wall Inlet Header SHH4 to SHH5 connecting elbow at Corner No.4, Stub No.1 found punctured.				
Secondary Failure: Steam Cooled Water wall Inlet Header SHH4 to SHH5 connecting elbow at Corner No.4, Stub No.2 found eroded. Total no of 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 - 03:18 Hrs	Date - 18/10/2015	
11. T-A Set Synchronized		Time - 09:47 Hrs	Date - 18/10/2015	
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)				