


EVENT ANALYSIS REPORT				
UNIT NO : 03	TPS : Khaperkheda TPS		Unit Capacity : 210 MW	
1. *HO Code :	Station Code : T003	Time - 12:31 Hrs	Date - 11/11/2015	No. of Days from last sync. : 6 days
2. Operating conditions at the time of Event :-				
Load		Coal Cycles in service	Oil Support	
80 MW		C, D	Nil	
3. Nature of Event: T.A. Set forced withdrawn due to Boiler tube leakage in second pass of Boiler.				
4. Name of First Up , Main Protections & Protection on which GCB tripped : Hand Tripped (First Up), MFT Operated, Gen. Protection Operated, Boiler Fire Off, Gen. Class 'A' Trip.				
5A) Observations: At about 12:00 hrs on dt. 11/11/2015, set was on load at 140 MW with 5 coal cycles in service. Due to boiler tube leakage, DM water consumption found increased and furnace draft unable to maintain. So, load reduced by withdrawing coal mills one by one in order to withdraw unit for attending boiler tube leakage. Set hand tripped at 12:31 hrs when load was 80 MW with coal cycles C, D in service.				
5B) Remedial Action/work done :- 1. Stub no. 4 of LTSH coil no. 120, 119 & 118 replaced with new ones. 2. RHS steam cooled wall tube no. 2 & 3 replaced with new ones. 3. Economiser coil no. 48 dummied by welding hemispherical spool piece as tube no. 5 of the assembly found punctured during hydraulic test of the boiler.				
6. Root Cause Analysis : Stress rupture followed by flue gas erosion might be the root cause of failure of stub no. 4 of LTSH inlet header SHH 9 of coil no. 120. Stub no. 4 of coil no. 119 & 118 also found eroded. RHS steam cooled wall tube no. 2 & 3 found punctured.				
7. Preventive action suggested (Short Term):-				
8. Preventive action suggested (Long Term) :- 1. D.P. test of stub joints of LTSH inlet header SHH 9 and LHS & RHS steam cooled wall inlet header SHH 4 during forthcoming AOH. 2. Replacement of LTSH coils during forthcoming AOH.				
9. Similar event occurred last time:-		U - 3, 210 MW	Time- 20.37 Hrs	Date: 16-10-15
Event: T.A. Set withdrawn for attending Boiler Tube Leakage at Steam Cooled Water Wall Zone.				
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.1 of bent steam cooled water wall header SHH5 & stub No. 1 & 2 of LHS steam cooled water wall header SHH4.				
9A. Implementation Status of Long Term/Short Term measures stated at Sr. No 7 & 8 :-				
10. Boiler lighted up		Time - 05:05 Hrs	Date- 13/11/2015	
11. T-A Set Synchronized		Time - 09:59 Hrs	Date- 13/11/2015	
12. Remark: - During above outage, cleaning of flame scanners of all the elevations carried out. Similarly, rotor earth fault relay checked & found healthy. Its alarm & tripping settings ensured operating at specified units.				
 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)				