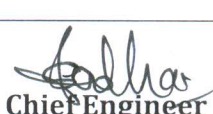


EVENT ANALYSIS REPORT				
UNIT NO : 01	TPS : Khaperkheda TPS		Unit Capacity : 210 MW	
1. *HO Code :	Station Code : T003	Time - 16:27 Hrs	Date - 01/10/2015	No. of days from last sync. : 22 days
2. Operating conditions at the time of Event :-				
Load 70 MW		Coal Cycles in service A,B	Oil Support AB elevn. with 2 guns	
3. Nature of Event: T.A. Set withdrawn due to boiler tube leakage at economizer side & Water Wall.				
4. Name of First Up , Main Protections & Protection on which GCB tripped : Flame Failure Trip. (First Up) : Turbine Tripped, Generator Reverse Power Relay Operated, Generator Protection Operated.				
5A) Observations : At 15:50 hrs, on date 01-10-2015 set was on load at 160 MW with 4 coal cycles in service. After taking 5 th coal cycle i.e. 1C, load found increased to 189 MW, furnace draft increased to 38 mmwc & drum level dropped to (-)274 mm. Consequently, DM water make up found increased to 134 t/hr. Due to suspected Boiler Tube Leakage, coal cycle i.e. 1E, 1D, 1C withdrawn, one by one and then turbine tripped manually.				
5 B) Remedial Action/work done : (1) Economiser upper bank coil no. 139 plugged by providing hemispherical spool at Economiser intermediate & Economiser inlet headers. (2) Replacement of Rear Water Wall tube no. 37 & 38. (3) Replacement of front steam cooled wall tube no. 7 & stub no. 5 of SHH-5 header observed during hydraulic test.				
6. Root Cause Analysis : (1) Stress rupture might be the root cause of failure of tube no. 2 of Economiser upper bank coil no. 139 (2) Fretting might be the root cause of failure of rear water wall tube no. 37 & 38 due to sudden pulsating load variation resulted into detachment of BAH seal plate from bottom most scalloped bar.				
7. Preventive action suggested (Short Term) :				
8. Preventive action suggested (Long Term) :- During forth coming AOH of Unit No.1 - (1) Normalization of Economiser coil no. 139. (2) Erosion Profile Mapping of Economiser coils will be done. (3) CAVT will be carried out. (4) Healthiness of furnace expansion probe will be ensured.				
9. Similar event occurred last time:-	Unit No # 1, 210 MW	Time : 22:26 hrs	Date : 03/09/2015	
Event : - Unit withdrawn due to Eco tube leakage.				
9A. Implementation Status of Long Term/Short Term measures stated at Sr No 7 & 8 :-				
10. Boiler lighted up	Time - 07:42 Hrs	Date- 03/10/2015		
11. T-A Set Synchronized	Time - 13:17 Hrs	Date- 03/10/2015		
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:				
CE/Dy CE (Works)				