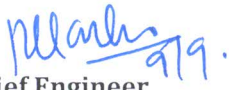


EVENT ANALYSIS REPORT				
UNIT NO : 03	TPS : Khaperkheda TPS		Unit Capacity : 210 MW	
1. *HO Code :	Station Code : T003	Time - 16:57 Hrs.	Date - 29/08/2017	No. of days from last sync. : 15 days.
2. Operating conditions at the time of Event :				
Load		Coal Cycles in service		Oil Support
80 MW		B, C		Nil
3. Nature of Event: Set withdrawn due to BTL in economizer zone.				
4. Name of First Up , Main Protections & Protection on which GCB tripped : Hand Tripped [First Up], MFT operated, Turbine Tripped, Trip Gear Operated.				
5A) Observations: On dt. 29/08/2017 at 16:00 hrs, set was on load at 109 MW with five coal cycles in service (C/c - A-S/by) and no oil support. Considerable variation in feed flow was observed, with abnormal sound at Economizer hopper. Drum level found dropping and DM make-up found increased to 60TPH. After confirmation of boiler tube leakage in Economizer zone, load reduced gradually by withdrawing coal cycles one by one. Set hand tripped at 16:57 hrs, when the load was 80 MW with coal cycles B & C in service.				
5B) Remedial Action/Work done: <u>Primary Failure:</u> Economizer upper bank coil no. 66 tube no. 18 found punctured at rear end inside the cassette baffle. <u>Secondary Failure:</u> No secondary failures are observed. <u>Work carried out:</u> 1) Economizer coil no.66 attended by welding hemispherical spool at economizer intermediate & economizer inlet header. Total no. of H.P weld joints =02 Nos.				
6. Root Cause Analysis: Localized flue gas erosion is the root cause of failure of tube no. 18 of economizer coil no.66.				
7. Preventive action suggested (Short Term) :-				
8. Preventive action suggested (Long Term):- Replacement of all Eco. Coils is already planned during forth coming AOH of Unit-3.				
9. Similar event occurred last time:-		Unit No # 2 , 210 MW	Time: 08:40 Hrs	Date: 12/07/2017
Event: TA set forced withdrawn due to boiler tube leakage at Economiser zone.				
Remedial Actions: <u>Primary Failure:</u> Economizer upper bank coil no. 161 tube no. 21 found fish mouth opening punctured. <u>Secondary Failure:</u> 1) Economizer upper bank coil no. 162 tube no. 21 found fish mouth opening punctured. 2) During hydraulic test RHS SCW manhole door front side bend no.1 found punctured and bend no.2 found eroded. <u>Work carried out:</u> 1) Economizer coil no.162 & 161 attended by welding hemispherical spool at economizer intermediate & economizer inlet header and Eco. Coil no 100 & 156 repaired by welding joints. 2) Replacement of RHS steamed cooled wall man hole door front side bend no.1 & 2. Total no. of joints =10 Nos.				
9A. Implementation Status of Long Term/Short Term measures stated at Sr. No 7 & 8 :-				
10. Boiler lighted up		Time - 18:04 Hrs	Date - 30/08/2017	
11. T-A Set Synchronized		Time - 02:52 Hrs	Date - 31/08/2017	
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)				