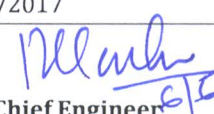


EVENT ANALYSIS REPORT				
UNIT NO : 03	TPS : Khaperkheda TPS		Unit Capacity : 210 MW	
1. *HO Code :	Station Code : T003	Time -14:02 Hrs	Date - 25/05/2017	No. of days from last sync. : 12days
2. Operating conditions at the time of Event :-				
Load		Coal Cycles in service	Oil Support	
90MW		A, B&C	LDO guns (3 Nos) in AB elevation	
3. Nature of Event: TA set withdrawn due to Air Heater - 3A jamming.				
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: At the time of tripping, set was on load at 90 MW with three coal cycles in service and oil support in AB elevation. Coal cycles - D, E & F were not available due to 'No coal flow' of respective coal feeders. At 13.50 hrs, Air heater-3A found tripped on overload with hunting in current from 5A to 27A. Stand-by air motor picked up on auto but failed to rotate the air heater. Hence, set hand tripped at 14.02 hrs to attend the jamming of Air heater - 3A.				
5B) Remedial Action/work done: (Total HP weld joints - 6 Nos)				
(1) Air Heater - 3A jamming removed by clearing accumulated wet ash. (2) Inspection of support bearing, drive mechanism & guide bearing of air heater -3A, carried out and found ok. (3) Tube leakage of economiser upper bank coil no.54 attended by welding hemispherical spools at economiser inlet header and economiser coil no.100 & 156 repaired by welded joints. (4) Replacement of economiser upper bank coil no.100 connection joint at economiser intermediate header and economiser upper bank coil no.156 middle connecting elbow.				
6. Root Cause Analysis: Wet ash accumulation between sector plate & rotor post is the root cause of jamming of Air Heater - 3A. Boiler tube No.17 of economiser upper bank coil no.54 inside casstle baffle at rear end punctured and resulted into formation of wet ash at air heater. Localized flue gas erosion of tube no.17 of economiser upper bank coil no.54 is the root cause of failure. During hydraulic test, economiser upper bank coil no.100 connection joint at economiser intermediate header and economiser upper bank coil no.156 middle connecting elbow found punctured.				
7. Preventive action suggested (Short Term) :				
8. Preventive action suggested (Long Term) :				
(1) Complete replacement of economiser coils during forthcoming overhaul /available opportunity. (2) Normalization of economiser coil no.54 will be carried out during forthcoming overhaul of Unit-3				
9. Similar event occurred last time:-		Unit No #3 , 210 MW	Time :14.40 Hrs	Date: 17.02.2016
Event: T.A. Set forced withdrawn due to air pre heater problem.				
Remedial Action / work done:				
(1) Entrapped bracing pipe between sector plate & rotor of APH-3A removed. (2) Visual inspection of bracing support of APH-3A carried out and found ok. (3) APH-3A main drive assembly checked for smooth running.				
9A. Implementation Status of Long Term/Short Term measures stated at Sr No 7&8:-				
10. Boiler lighted up		Time - 06:38Hrs	Date- 27/05/2017	
11. T-A Set Synchronized		Time -12:17Hrs	Date-27/05/2017	
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)				