

UNIT TRIPPING REPORT

UNIT No: 2

STATION: NTPL, TUTICORIN.

OUTAGE NO: 93

REPORT NO: 93

1. Date of tripping : 10-10-2024
2. Time of tripping : 13:39Hrs
3. Status before tripping
 - a) Unit load : 230MW
 - b) Mills in service : C, D, E, G & H
 - c) Oil guns in service : NIL
 - d) Boiler feed pumps in service : TDBFP A & B
 - e) CEPs in service : A & B
 - f) ID fans in service : A & B
 - g) FD fans in service : A & B
 - h) PA fans in service : A & B
 - i) CWP in service : A & B
4. First Up protection acted : Boiler tripped on MFT due to flame failure.
5. Other relays/protection acted : Turbine & Generator tripped on MFT.
6. Supporting documents attached : S.O.E & Trends
7. Any operation done prior to tripping : Mill change over carried out.
8. Analysis of tripping

Unit was running at 230 MW in CMC. At 13:29 hrs Mill D feeder started and at 13:37 Mill-C feeder stopped. At 13:37:30 Flame intensity low alarm came, immediately feeder C started again but flame intensity not improved, Unit tripped on flame failure protection at 13:39:30 hrs.

9. Root cause :

Unit was running at low Load (below technical minimum) and to conserve import coal, Mill D (talabira coal mill) started and mill C (import coal) feeder unloaded and stopped After stopping import coal feeder ,flame intensity reduced which is the root cause for flame failure.

10. Remedial measures taken/to be taken:

SOP prepared for mill change over during below technical minimum load operation

11. Time/Date of boiler light up and sync:

Light Up: : 13:56 Hrs on 10/10/2024


Sync'd: : 15:29 Hrs on 10/10/2024


12. Delay for Synchronization : NIL


13. Recommendation / Action plan :


- i) Since the Unit is operated below technical minimum load with low grade coal, OEM may be consulted for burner nozzle modification.
- ii) SADC of Unit-2 Corner-2 to be attended, during capital overhaul, which will improve flame stability.
- iii) Board Operators were advised to take additional care while changing Mill during below technical minimum Load operation.

14. Any specific learning / feedback : Nil


DCE/EEMG


DCE / OS


DCE / C&I


ACM / OS


CM/OS

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