

UNIT TRIPPING REPORT

UNIT No: 2

STATION: NTPL, TUTICORIN.

REPORT NO: 57

OUTAGE: NO.57

1. Date of tripping : 06-04-2021
2. Time of tripping : 12:33:08 Hrs
3. Status before tripping
 - a) Unit load : 258 MW
 - b) Mills in service : B, C, F, E, & GH
 - 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
5. Similar occurrences in the Financial Year : Nil
6. Other relays/protection acted : TG tripped on Class - B
7. Supporting documents attached : S.O.E & Trend
8. Any operation done prior to tripping : Nil.
9. Analysis of tripping :

All running Mills got tripped on Loss of Primary Air and Boiler tripped on MFT 'Loss of All Fuel'. TG followed on Class B protection.
10. Root cause :

PA header pressure was maintaining normally with both the PA fans in service. Loss of Primary Air Header Pressure Contact picked up (due to Cable Earth fault) leading to the tripping of all running mills. This lead to Boiler MFT on Loss of All Fuel trip. Impingement of Hot Secondary Air

leakage near Corner 2 Wind box at GH elevation damaged the Main cable carrying all the three pressure switches signals.

11. Remedial measures taken/to be taken:

- The cable routing was modified and laid away from the hot air zone.
- The Pressure switch signals will be considered along with transmitter (2/3 LVM) value through 'AND' gates for Mill Tripping to improve the reliability of Pressure switches contacts.

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

Light Up: : 13:54 Hrs on 06-04-2021

Sync'd: : 15:46 Hrs on 06-04-2021

13. Delay for light up

: 1 1/2 hrs.

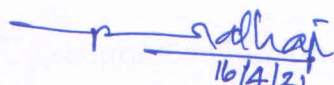
(Trip contact not recorded in SOE due to actuation time of 20 millisecs)


14. Recommendation / Action plan :

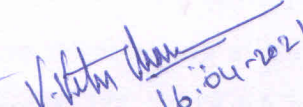
Sl.No.	Recommendations/Action plan	Responsibility	Time line
1)	Modification of trip logic using LVM signals in addition to existing Pressure switches contact for All Mills -Loss of Primary air trip.	C&I	Immediate


15. Any specific learning / feedback :

Existing switches can be used along with transmitter values in critical protections in order to avoid spurious trippings in future.


ADGM / OS
16/4/21


DGM/EEMG


ADGM / C&I
16.04.2021


DGM / ELECT
16.04.2021


GM / OPN & C&I
16.04.21

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