

## UNIT TRIPPING REPORT

UNIT No: 2

STATION: NTPL, TUTICORIN.

OUTAGE: NO. 30

REPORT NO: 30

- |  |                                 |
|--|---------------------------------|
| 1.Date of tripping                     | : 30-09-2018                    |
| 2.Time of tripping                     | : 16:33:19                      |
| 3.Status before tripping               |                                 |
| a) Unit load                           | : 503 MW                        |
| b) Mills in service                    | : A, B, D, E, F, & H            |
| c) Oil guns in service                 | : Nil                           |
| d) Boiler feed pumps in service        | : A & B                         |
| e) CEPs in service                     | : A & C                         |
| 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            | : MFT acted on Furnace Pr Low   |
| 5.Similar occurrences in the           |                                 |
| Financial Year                         | : Second incidence of PAF trip  |
| 6.Other relays/protection acted        | : Turbine trip / Generator trip |
| 7.Supporting documents attached        | : S.O.E & Trend                 |
| 8.Any operation done prior to tripping | : Nil                           |
| 9.Analysis of tripping                 | :                               |

PA Fan 2B got tripped on local push button acted, and Mills H & F got tripped on Run-back. PA Header Pressure V. Lo lead to tripping of Mills- A, B & D on Loss of PA protection. Mill-E didn't trip since this protection was in bypassed condition for maintenance reasons. Due to the disturbance in firing, Furnace pr V. Lo acted leading to MFT in all the three channels. This finally lead to Turbine tripping at 16:33:19 hrs.

- 10.Root cause :

Water entry into the local PB panel of PAB is believed to be the reason for making EPB contact. This triggered the entire trip sequence.

11. Remedial measures taken/to be taken:

All local push button panels to be made water tight.

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

Light Up: 30-09-2018 @ 16:51 hrs

Sync'd : 30-09-2018 @ 19:01 hrs

13. Delay for light up : No delay

14. Recommendation / Action plan :

Sl.No.	Recommendations/Action plan	Responsibility	Time line
1	All local Push Button Panels are to be protected for water entry to prevent recurrences in the future due to rain or water washing.	EM	Immediate
2	Two local push buttons can be provided for critical equipments to avoid spurious trips.	EM	Immediate

15. Any specific learning / feedback :

Healthiness and water tightness of outdoor local push button stations to be ensured. Also special care should be taken regarding protections bypassed for maintenance purposes.



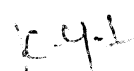
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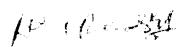
CM/EEMG



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