

UNIT TRIPPING REPORT

UNIT No:2

STATION: NTPL, TUTICORIN.

OUTAGE: NO. 60

REPORT NO: 60

- | | |
|---|--|
| 1.Date of tripping | : 18-08-2021 |
| 2.Time of tripping | : 13:00:20 Hrs |
| 3.Status before tripping | |
| a) Unit load | : 326MW |
| b) Mills in service | : A, C, D, F & G |
| c) Oil guns in service | : Nil |
| d) Boiler feed pumps in service | : 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 | : Loss of Primary Air(All mills trip) |
| 5.Similar occurrences in the Financial Year | : Unit #2 on 09.07.2021 |
| 6.Other relays/protection acted | : MFT followed by TP1&2 |
| 7.Supporting documents attached | : SOE & Trend |
| 8.Any operation done prior to tripping | : 1) PA Fan 2A PCD kept in manual & reduced. |
| 9.Analysis of tripping | : |

PAF-2A motor current was showing a gradual increasing trend for a week and it was decided to stop the fan for checking the HAD by BM2. Its PCD was taken into manual and a close pulse was given. PAF-2A PCD got fully unloaded at this point, even as the demand was 30% in DCS, and before getting time to increase PCD in 2B, PA header pressure dropped drastically to below 500mm leading to 'All Mill Trip' on loss of primary air protection. Turbine got tripped on TP 1 & 2 due to boiler tripping. Immediately afterwards the unit was lighted up and was synchronized with one PA fan.

10.Root cause:

PAF-2A PCD HAD feedback link bearing failure resulted in unit tripping on 09.07.2021 and the same failure has occurred earlier on 18.08.2021. BM has attributed the failure to contamination of oil due to coal and ash dust ingress into the control/lube oil system.

11.Remedial measures taken/to be taken:

After attending PAF-2A HAD, the fan was taken into service at 02:14 hrs on 19.08.2021. BM has to analyse further the root cause for frequent failures of HAD components and take remedial measures. Repeated failures on HAD of PA Fans emphasize the importance of a permanent solution to this problem.

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

Light Up: : 18-08-2021 13:19 hrs
Sync'd : : 18-08-2021 14:44 hrs


13.Delay for Synchronizing : Nil


14.Recommendation / Action plan :

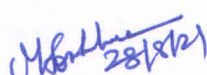
Sl.No.	Recommendations/Action plan	Responsibility	Time line
1)	HAD components quality and system healthiness to be ensured.	BM2	Opportunity

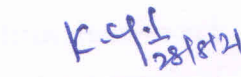
15.Any specific learning / feedback :


PAF HAD components quality and oil system cleanliness has to be ensured by BM as PAF issues generally result in unit outages.


DGM/OS


DGM/EE MG


ADGM/C&I


DGM/ELECT


GM / C&I and Opn

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