UNIT TRIPPING REPORT

UNIT No: 2

STATION: NTPL, TUTICORIN.

OUTAGE NO: 88

REPORT NO: 88

1.Date of tripping : 01-06-2024

2.Time of tripping : 18:41:40 Hrs

3.Status before tripping

a) Unit load : 297MW

b) Mills in service : C, D, F, 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 flame failure protection

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 and WB operation

8.Analysis of tripping :

Unit was running at 297 MW in CMC with a coal flow 240tph and 1200tph air flow. At 18:10:00 hrs Wall blower operation started. At 18:31:00 hrs mill-D started to stop import coal mill-B. On 18:39:00 hrs feeder-B stopped after loading feeder-D to 30tph. On 18:41:40 hrs unit tripped on MFT from Flame Failure Protection.

9. Root cause :

To conserve imported coal -mill B feed rate was reduced to minimum after reaching technical minimum, mill D taken into service and feed rate was gradually raised to 30 tph with O/L temp 60 degC & feeder B stopped. Mill-D further loaded to 40tph, but the mill D- current and mill DP were found fluctuating. Due to fluctuating coal feed to the boiler from mill-D and wall blower operation the flame in

furnace got disturbed which is captured by flame scanner and flame failure protection acted.

10. Remedial measures taken/to be taken:

It's advised to stop wall blower operation if any during mill change over and to check mill loading condition before stopping the mill.

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

Light Up: : 19:41 Hrs on 01/06/2024

Sync'd: : 21:21 Hrs on 01/06/2024

12. Delay for light up : nil

13. Recommendation / Action plan :

i) Wall blower operation to be suspended during mill change over at part load (Technical Minimum).

ii) Before stopping the feeder, the stability of loaded mill to be confirmed with parameters.

14. Any specific learning / feedback : nil

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D. M

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S. Maj.

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Copy submitted to CEO / NTPL

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