UNIT TRIPPING REPORT

UNIT No: 2

STATION: NTPL, TUTICORIN.

OUTAGE NO: 91

REPORT NO: 91

1.Date of tripping : 24-08-2024

2. Time of tripping : 01:43Hrs

3. Status before tripping

a) Unit load : 393MW

b) Mills in service : A, C, 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 : Turbine Tripped on Control fluid pr low

5.Other relays/protection acted : Boiler tripped on reheater protection.

6.Supporting documents attached : S.O.E & Trends

7. Any operation done prior to tripping: Nil

8. Analysis of tripping :

Unit was running at 393 MW in CMC. HPCF pump 2 got tripped @01:43 hrs and HPCF pump 1 came into service but control oil pressure did not develop resulted in turbine trip, vacuum breaker opened on control oil pressure low and condenser vacuum deteriorated resulted in HP & LP bypass trip close and boiler got tripped on Re heater protection.

9. Root cause

Running HPCF pump motor has failed and standby HPCF pump has started but control oil pressure not developed, due to Foaming/air lock. Standby pump pressure not developing, which is the root cause of unit trip.

10. Remedial measures taken/to be taken:

- i. Venting provision may be provided in HPCF discharge line to tank.
- ii. HPCF pump-2 motor replaced and taken into service

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

Light Up:

: 02:10 Hrs on 24/08/2024

Sync'd:

: 03:45 Hrs on 24/08/2024

12. Delay for Synchronization

: NIL

13. Recommendation / Action plan

- i) Venting provision may be provided in HPCF discharge line to tank, with a root valve.
- ii) Periodical start/stop of stand by HPCF pump to be done to ensure the stand by pump is developing pressure.

14. Any specific learning / feedback

Healthiness of HPCF motor is to be checked periodically.

The party

EE/EEMG

D. Ju /31/08

EE / OS

5. My 31/08/24

DCE / C&I

Blade

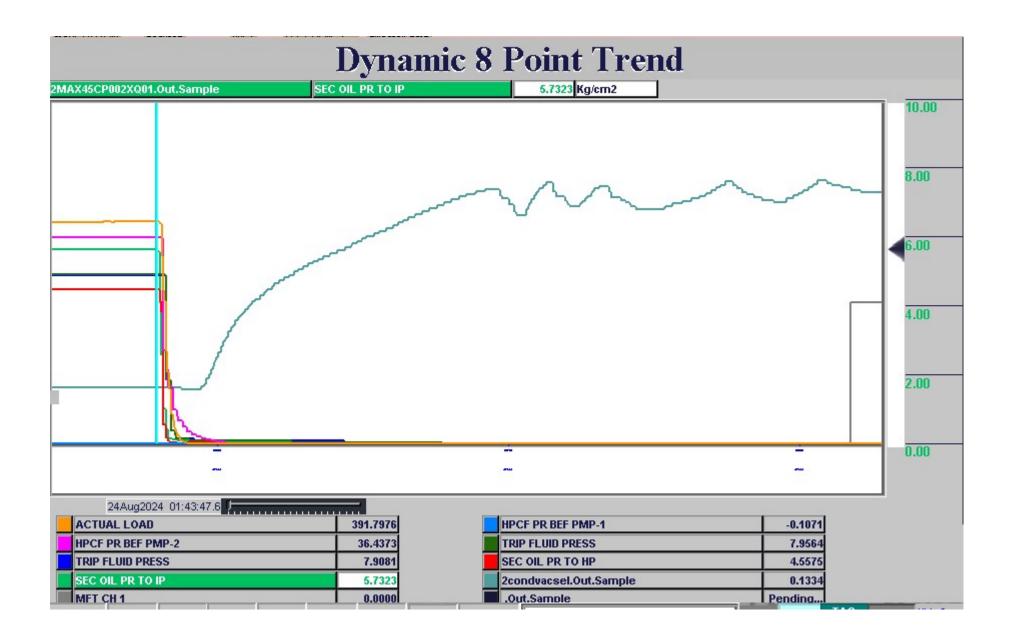
ACM /OS

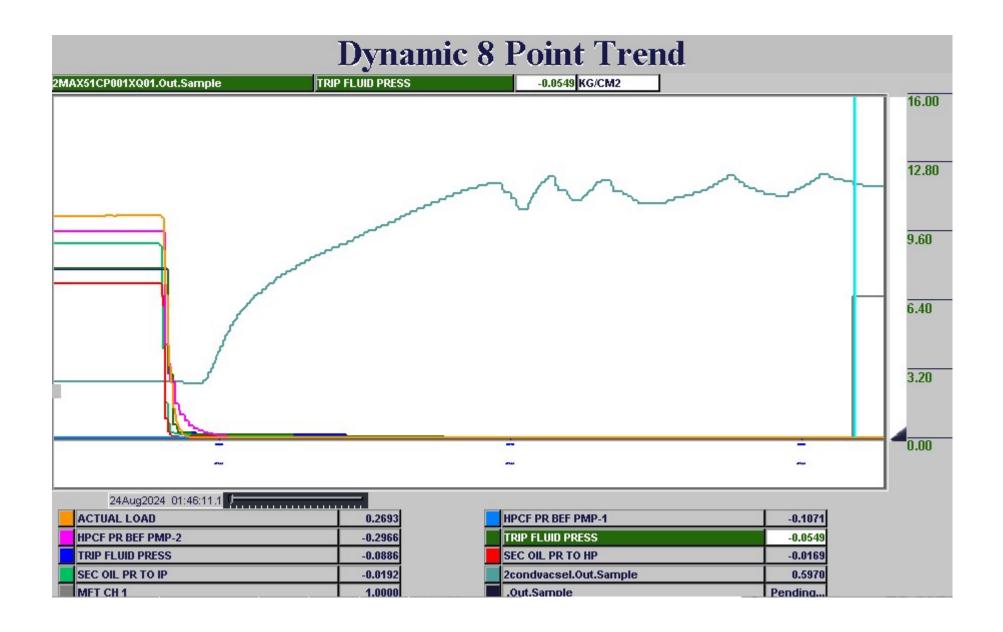
CM/OS

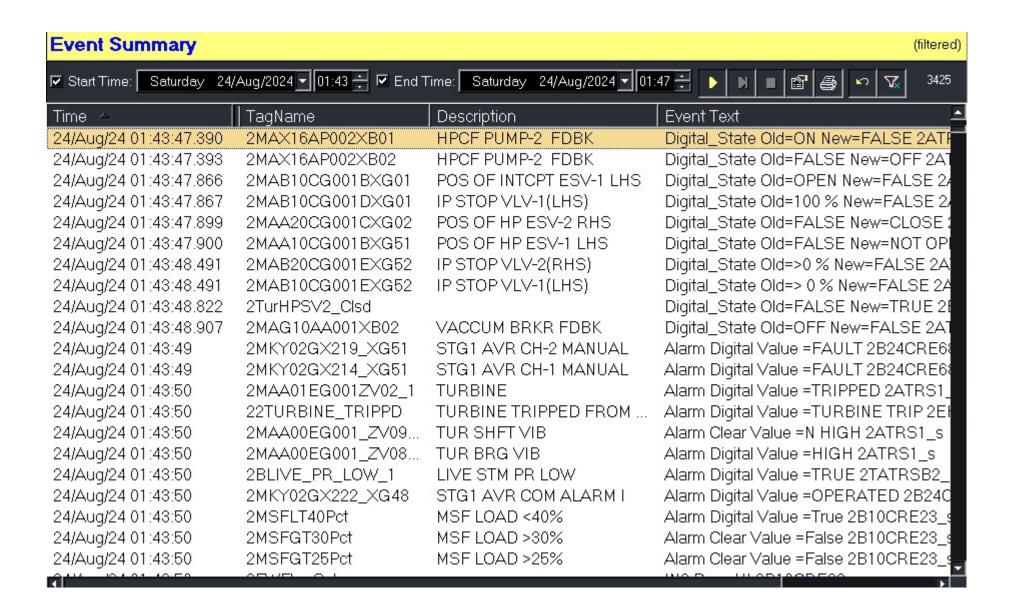
Copy submitted to CEO / NTPL

Copy submitted to GM/O&M

Copy submitted to CM/TMD







Event Summary (filtered) 3425 N V TagName Description **Event Text** Time -Alarm Clear Value = N.True 2B12CRE29 24/Aug/24 01:46:09 2CEPAFlowLow CEP-A Flow Low MILL-G Off HAD/CAD Open Alarm Clear Value =FALSE 2B08CRE19 24/Aug/24 01:46:09 2MillOffHCADOpnG 24/Aug/24 01:46:09.152 2Speed Slope Low Digital_State Old=TRUE New=FALSE 28 24/Aug/24 01:46:09.231 21MAN51EZ110YT02 LPBP2 PROT TRIP CMD1.2 Digital_State Old=FALSE New=ON 2TP1 24/Aug/24 01:46:09.231 Digital_State Old=FALSE New=ON 2TP1 21MAN51EZ110YT01 LPBP2 PROT TRIP CMD1.1 24/Aug/24 01:46:09.272 2Speed_Slope_Low Digital_State Old=FALSE New=TRUE 28 24/Aug/24 01:46:09.371 2HBK01EG200 XE52 RHPTRIP Digital State Old=FALSE New=TRUE 21 24/Aug/24 01:46:09.635 2HBK01EG300 XE52 Digital_State Old=FALSE New=TRUE 21 RHPTRIP 24/Aug/24 01:46:09.637 Digital_State Old=FALSE New=TRUE 21 2HBK01EG100 XE52 RHPTRIP 24/Aug/24 01:46:09.687 TP1 MFT PROT TP CH-1 Digital State Old=N.FAULT New=FAULT 22HBK01EZ110ZK97 24/Aug/24 01:46:09.751 21HBK01EZ110ZK97 TP1 MFT PROT TP CH-1 Digital State Old=N.FAULT New=FAULT 24/Aug/24 01:46:09.871 2HBK01EZ200_XE46 Digital_State Old=FALSE New=TRUE 21 MFT CH 2 24/Aug/24 01:46:09.952 2Speed_Slope_Low Digital_State Old=TRUE New=FALSE 28 24/Aug/24 01:46:10 Alarm Digital Value =TRUE 201LAB_s 2HHA10EB000 XE18 UNSUCCESSFULSHUTDO ... 24/Aug/24 01:46:10 2HFC04EB150_YD00 Alarm Digital Value =TRIP 2COALCD_s ELEV D FEEDER TRIP 24/Aug/24 01:46:10 2HFC03EB150_YD00 ELEVIC FEEDER TRIP Alarm Digital Value = - 2COALCD_s 24/Aug/24 01:46:10 FEEDER D PROTECTION C ... Alarm Digital Value =TRUE 2COALCD_s 2HFB04AF001 XF02 24/Aug/24 01:46:10 Alarm Digital Value =TRUE 2COALCD_s 2HFB03AF001 XF02 FEEDER C PROTECTION C ... 24/Aug/24 01:46:10 Alarm Clear Value = N.FAULT 2TP1_p 21HBK01EZ110ZK97 TP1 MFT PROT TP CH-1 24/Aug/24 01:46:10 Alarm Clear Value = N.OPTD 2TP1_p 21HBK01EZ110ZK96 TP1 MFT PROT TP CH-1 24/Aug/24 01:46:10 2HFC01EB150_YD00 ELEV A FEEDER TRIP Alarm Digital Value = - 2COALAB_p