



NLC TAMILNADU POWER LIMITED
DEPARTMENTAL PROCEDURE MANUAL
(Incorporating ISO 9001:2015, ISO 14001: 2015 & ISO 45001: 2018)
STANDARD OPERATING PROCEDURE

TITLE:- SOP FOR DRUM LEVEL CONTROL

Doc. ID: NTPL/OPRN/SOP-27

Revision:02

Date:25/10/2022

PURPOSE: To define Control of Drum Level

SCOPE: This SOP is applicable at NTPL

RESPONSIBILITY: Shift Engineer / Operation Engineer

PERFORMANCE CRITERIA:

ACTIVITIES:

Drum Level Dropping Fast:

- Confirm *Feed water flow* is not obstructed due to closure of any valves in the FW system. Take care of BFP discharge header pressure and normalize the system. BFPs should be immediately stopped under circumstances where the pumps are running in shut off condition.
- Check for *Response of BFPs*. If Feed Water Flow is low or not rising in auto mode, take control into manual mode and increase feeding. If any TDBFP speed control is malfunctioning due to its governing system fault, take MDBFP into service.
- An increase in *Operating Pressure* due to sudden closing of Turbine Control Valves, fast drop in load, closing of HPBP or increased firing rate etc. Appropriate action may be taken to reinstate the operating pressure.
- In case of *Boiler Tube Puncture*, try to maintain the level and lower Load. Plan for shut down.
- In case any *drain valves* (EBD, CBD) are inadvertently opened, inspect at local and close.

Drum Level Rising Fast:

- Check for *Response of BFPs*. If Feed Water Flow is high or not reducing in auto mode, take control into manual mode and reduce feeding. If any TDBFP speed control is malfunctioning due to its governing system fault trip it after taking MDBFP into service.
- A decrease in *Operating Pressure* due to sudden opening of Turbine Control Valves, fast rise in load, opening of HPBP or decreased firing rate etc. Appropriate action may be taken to reinstate the operating pressure.
- Check for tripping of any *BCW* pump.
- *Safety valve* stuck in open condition.



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