



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

TITLE:- SOP FOR HOUSE LOAD OPERATION

Doc. ID: NTPL/OPRN/SOP-29

Revision:02

Date:25/10/2022

PURPOSE: To define House Load Operation

SCOPE: This SOP is applicable at NTPL

RESPONSIBILITY: Shift Engineer / Operation Engineer

PERFORMANCE CRITERIA:

ACTIVITIES:

GCB Opens and Unit Comes into House Load Operation:

- Check whether the speed loop is getting selected in EHC. *Continuously fine adjust* the speed set point, which was tracking at 15% prior to GCB open, to maintain near to 3000 rpm (50 Hz) with the unit on house load.
- Check for opening of HP & LP Bypass on auto (Fast Open during GCB open as well as maintaining pressure by auto). Gradually reduce operating pressure to match the new load conditions. Stabilize boiler parameters viz., drum level and pressure matching with the new residual firing rate.
- Due to heavy dumping in Hot well, Hot well level may raise. Also take care of Deaerator pressure buckling to avoid tripping of MDBFP on suction pressure very low protection. TDBFP ACV should come into service.
- CRH to Deaerator Pegging steam PCV may be opened manually without waiting for auto response to avoid fast decay of Deaerator pressure.
- Confirm that CT pump is running for making up the system.
- Check the A/C plant & Main Compressors for running or start immediately. Running Equipments with the supply source from station bus needs to be restored.
- Watch the HPT exhaust temperature rise if any and monitor all other parameters. Keep both HPH-6 in charged condition, if required to contain HPT exhaust temperature rise. HPT evacuation valve to be in open condition.
- Take special care not to start or stop any major auxiliary as there will be heavy fluctuations in TG speed/frequency.



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- During re-synchronizing, match speed with grid frequency and increase the speed set point for block loading after closing the GCB.

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