



NLC TAMILNADU POWER LIMITED
DEPARTMENTAL PROCEDURE MANUAL
(ISO 9001:2015, ISO 14001: 2015, ISO 45001: 2018& ISO:50001:2018)
STANDARD OPERATING PROCEDURE

TITLE:- SOP FOR CEP INITIAL STARTING AND SYSTEM CHARGING

Doc. ID: NTPL/OPRN/SOP-56

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PURPOSE: To Start the first CEP and charge Main Condensate System.

SCOPE: During CEP starting during start up.

RESPONSIBILITY: Board Engineers / Shift Engineer/ Operation Service.

OBJECTIVE: To charge Main Condensate system in a gradual manner so as to avoid CEP tripping on discharge pressure low protections during initial starting of a CEP after a MOH.

SCHEME PREPARATION

1. Make the first CEP ready for starting.
2. Keep the CEP discharge valve in local mode. Initially keep the valve open for a few minutes allowing for gravity charging.

PROCEDURE:

Make the first CEP ready for starting as per the SOP-18.

- 1) Keep the discharge valve in local mode and be ready to open it gradually by inching upon instructions from board.
- 2) Start CEP and instruct to open the discharge valve from local gradually. Ensure suction flow above 300 t/hr and discharge pressure greater than 20 Ksc to avoid any protection trips.
- 3) As the lines up to R/C valve gets charged, suction flow may drop. Open gradually the recirculation valve from board and discharge valve from local again to maintain the suction flow and discharge pressure above limits.
- 4) After charging the lines and normalizing, open the discharge valve fully from local and put the recirculation valve in auto with set point at 400 t/hr.
- 5) Finally change over the discharge valve selection from local to remote mode.

RECORDS:

Record Title	Record No.	Location	Responsibility	Retention Time

VERIFICATION, CORRECTIVE AND PREVENTIVE ACTION:

HOD shall ensure adequacy and implementation of the above procedure through periodic interaction with department personnel, and regular review and monitoring of the processes and compliances. In case of any observed deviation, corrective and preventive action shall be immediately undertaken.

HOD