



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 RAPH Motor Changeover

Doc. ID: NTPL/OPRN/SOP-49

Issue Date: 06-08-2020

Revision No.: R1

Revision Date: 25-10-2022

PURPOSE: To define Procedure for Air Pre Heater Drive Motor Changeover

SCOPE: This SOP is applicable at NTPL

RESPONSIBILITY: Board Engineer/ Shift Engineers and Boiler Maintenance-II

REFERENCE: As per BHEL/BM-2 recommendation for protection of Over Running Clutch, dated 31.07.2020

ACTIVITIES:

The following procedure to be followed for Changeover of RAPH Drive Motor

1. Schedule Changeover of Drive Motor

1. RAPH drive motor changeover shall be done in presence of Boiler Maintenance.
2. Drive Motor changeover shall be done at stable load preferably technical minimum.
3. Local Supervisor presence at RAPH Motor location shall be ensured with availability of manual handle for rotating the shaft.
4. Take Coordinated Master Control (CMC) into manual mode to avoid any Runback before changeover of RAPH Drive Motor.
5. Give Running Motor "STOP" Command from DCS and wait for Rotor Stop feedback from local or Rotor Stoppage alarm to appear (approximately 70 secs).
6. After confirming point 5, Give START command to standby motor after clearance from local and check for direction of rotation.
7. Once RAPH attains its rated speed, Put CMC back in auto mode.

2. Emergency Changeover

If running drive motor trips on protection, then auto start of standby drive motor shall be as per existing logic, which is immediate start without any time delay.

Note: During any changeover of drive motor, if i) Standby motor fail to start in case of protection trip or ii) both motor fail to start or iii) RAPH stops rotating while motor is running, procedure of RAPH isolation shall be followed.



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