NTPL	**NLC TAMILNADU POWER LIMITED** **DEPARTMENTAL PROCEDURE MANUAL** **(Incorporating ISO 9001:2015, ISO 14001: 2015 & ISO 45001: 2018)** **STANDARD OPERATING PROCEDURE**
TITLE:- SOP FOR VACUUM DROP TEST PEOCEDURE	**Doc. ID: NTPL/OPRN/SOP-32**
REVISION :02	**DATE:25/10/2022**

PURPOSE: To define Procedure for Vacuum Drop Test

SCOPE: This SOP is applicable at NTPL

RESPONSIBILITY: Shift Engineer / Operation Engineer

ACTIVITIES:

Vacuum Test Procedure to be followed-

1. Test to be performed with constant schedule and stable load for atleast 10 mins or Condenser Pr 0.1500 Ksc(a) whichever comes first.
2. Test to be performed at lower CW inlet temperature.
3. For checking air flow through vacuum pump, corresponding Rotameter should be healthy.
4. Keep Vacuum Pump SLC Off during the test.
5. Keep Supervisor at local to monitor Vacuum pump condition.
6. Close Air Inlet valve of running vacuum pump.
7. Before and after the test, note down following readings:
   i) Unit Generation MW
   ii) Condenser Pr (ksc)
   iii) Condenser Vacuum (mmHg)
   iv) Air Suction Temperature near condenser
   v) CW Inlet Temperaure
   vi) CEP Suction Temperature
   vii) LP Exhaust Hood Temperature
   viii) Vacuum Pump Suction Pressure
8. After completion of test, Open Air inlet temperature of Running Vacuum pump and SCL ON.
9. Record Drop in Vacuum as: (Bef Vacuum- Aft Vacuum) mmHg/Time duration

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