



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

**TITLE:- SOP FOR BOILER LOCAL OPERATION**

**Doc. ID: NTPL/OPRN/SOP-07**

**PURPOSE:** To define a procedure for BOILER LOCAL OPERATION

**SCOPE:** This SOP is applicable at NTPL

**RESPONSIBILITY:** Shift Engineer / Operation Engineer

**PERFORMANCE CRITERIA:**

**ACTIVITIES:**

**Boiler local operation**

Boiler local operator will keep safety of the boiler operation and will watch the system during operation

**Routine activity**

1. Check boiler parameters like drum pressure, drum level, flame healthiness (by view glass) etc., at local.
2. Check any leakages of water, steam, air, oil, coal and any abnormal noises.
3. Check all the equipments which are in service and stand by.
4. Watch the equipments to ensure its running under safe working conditions.
5. Local startup of equipments in safe and systematic manner.
6. Local isolation of equipments/system.
7. Normalisation of isolated equipments/system.
8. Place the tag/display in hazardous area so that workmen are not exposed to any hazard.
9. Ensure the cleanliness and housekeeping in various location of boilers like Boiler elevations, FOPH, etc.
10. Ensure no obstruction to free boiler expansion and taking expansion readings.
11. Checking of Fuel oil pump house system includes oil levels checking, trace steam charging, LDO/HFO oil pressure, temperature, and filter DP etc and decanting of Fuel Oil in oil tankers.
12. Boiler Local log book reading to be taken.



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**Scheduled Activities**

13. Blowers checking.
14. SA and PA lube oil pumps change over and condition monitoring.
15. LDO/HFO pumps change over, filter change over, HFO heaters change over.
16. PA Fan and FD fan suction mesh checking and intimate for cleaning if required.

**Shut Down /Start up and emergencies activities**

17. Pre-startup checkup and making schemes ready.
18. Inspection of pressure parts during hydrotest.
19. Purging of oil guns, ignitor checking.
20. Cooling fan and additional service air lines providing in Red hot areas.
21. All blowers filter cleaning.
22. Valves, dampers and IGV checking.
23. P & I checks
24. SADC healthiness checking.
25. Burner tilt checking
26. Wall blower and soot blower operation and availability checking.

**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**



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