

Company Name: _____

Maintenance Forms & Logs

Date: _____

Log ID: _____

Version: 1.0

Boiler Room Safety Audit Bottom Blowdown Log Sheet

1.0 Form Objective & Asset Scope

This log sheet is used to document the performance of bottom blowdown procedures on steam boilers in the boiler room. Proper blowdown is critical for removing sludge and sediment from the boiler mud drum, preventing scale buildup, and ensuring safe, efficient operation. This log supports compliance with boiler safety regulations and helps track blowdown frequency and duration for reliability analysis.

2.0 Administrative & Asset Details

Date: _____

Technician Name: _____

Boiler ID / Asset Tag: _____

Boiler Make & Model: _____

Hour Meter Reading (if applicable): _____

3.0 Inspection / Parameter Checklist

- ☐ Pass ☐ Fail - Verify boiler pressure is within safe operating range before blowdown (record pressure below).
- ☐ Pass ☐ Fail - Inspect blowdown valve for leaks, corrosion, or mechanical damage.
- ☐ Pass ☐ Fail - Confirm blowdown piping and fittings are secure and free of obstructions.
- ☐ Pass ☐ Fail - Open quick-opening valve first, then slow-opening valve per procedure.
- ☐ Pass ☐ Fail - Blowdown duration meets manufacturer specification (record duration below).
- ☐ Pass ☐ Fail - Close slow-opening valve first, then quick-opening valve in correct sequence.
- ☐ Pass ☐ Fail - Monitor boiler water level after blowdown to ensure it returns to normal.
- ☐ Pass ☐ Fail - Check blowdown tank or pit for proper drainage and no overflow.
- ☐ Pass ☐ Fail - Record boiler pressure before and after blowdown.
- ☐ Pass ☐ Fail - Verify no unusual noises or vibrations during blowdown operation.

4.0 Deficiencies & Work Order Generation

Issue Description (e.g., valve leak, pressure anomaly, water level issue):

Parts Required (e.g., valve packing, gasket, replacement valve): _____

Work Order Number (if generated): _____

Corrective Action Taken: _____

5.0 Sign-off & Return to Operations

Maintenance Technician Signature: _____ Date: _____

Boiler Operator / Shift Supervisor Review: _____ Date: _____

Reliability Manager Approval (if deficiencies noted): _____ Date: _____

Regulatory Disclaimer: This maintenance log is a generic template. The end-user assumes all liability for validating all inspection parameters, PM frequencies, and tolerances against specific OEM machinery manuals before active shop floor deployment.