BOILER SAFETY REPORT

Sensible Fashion (Pvt.) Ltd.

Factory ID: 11506

Address: North Masdair (Malanchanagar) Fatullah, Narayanganj-1400, Bangladesh.

GPS Coordinates: 23.633396,90.483806

Factory List	:	Sensible Fashion (Pvt.) Ltd. (11506) Sensible Fashion (Pvt.) Ltd. (Extension) (24728)
Number of Boilers	:	3
Boiler Registration Numbers	:	BB 9770, BB 12622, BB 13208

RSC RMG SUSTAINABILITY COUNCIL

EXECUTIVE SUMMARY

A comprehensive boiler safety inspection of the factory – **Sensible Fashion (Pvt.) Ltd. (11506)** was conducted by the RMG Sustainability Council, covering 3 boilers bearing the registration numbers – BB 9770, BB 12622, BB 13208. The inspection aimed for the safety checks of the boiler and provide recommendations for safe operation and maintenance.

The inspection process was divided into three distinct parts. Firstly, an external visual inspection was carried out to evaluate the overall condition of the boiler and provide guidance for the upcoming full-fledged boiler safety inspection. Next, an internal inspection and hydrostatic pressure test (commonly referred to as a hydrotest) inspection was conducted to assess the safety and structural integrity of the boiler. Sufficient time was allocated to allow the factory to prepare for the final inspection stage, which involved a functional test inspection. This stage required the boiler to be operational to enable the inspection team to verify the functionality of different safety circuits.

From the inspection observations -

BB 9770, BB 12622, and BB 13208 are in operable condition, but a few issues - outlined in this report, are to be addressed in a timely manner.

Boiler Registration Number	**External visual inspection**	**Internal & Hydrotest inspection**		**Functional test inspection**	
	Date	**Date**	**Remarks**	**Date**	**Remarks**
BB 9770	8-Mar-22	10-Aug-25	Satisfactory	6-Oct-25	No LLWL interlock and steam pressure limiter found.
BB 12622	10-Aug-25	13-Oct-25 7-Jun-26	On 13-Oct-25, the inspection was not completed due to pressure part repair / replace (A new water tube was inserted into the previously cracked water tube and welded at both ends) without the necessary documentation. After the documentation was reviewed, another inspection was scheduled on 7-Jun-26, and the inspection was satisfactory.	23-Jun-26	
BB 13208	10-Aug-25	21-Oct-25	Satisfactory	30-Nov-25	No Interlock for LLWL, Steam Pressure Limiter missing

LIMITATIONS

The information in this boiler safety inspection report was obtained during a factory visit and discussion with local factory management. Services performed by the inspectors are conducted in a manner consistent with the level of care and skill generally exercised by members of the engineering and auditing profession. However, an effort has been made to discover all meaningful areas within the stipulated time.

In evaluating the subject site, the inspector relies on good faith in the information provided by factory management or employees. The inspector assumes that the information provided is factual, accurate and accepts no responsibility for any deficiency, misstatement or inaccuracies contained in this report as a result of omission or misrepresentation of any person interviewed or contacted.

The findings and recommendations in this report are not intended to imply, guarantee, ensure or warrant compliance with any government regulations. Additionally, the results do not imply in any way that compliance with the findings or recommendations, as stated in this report, will eliminate all risks or exposures not referred to in this report. Compliance with the findings and recommendations stated in this report does not relieve the factory from the obligation to comply with specific project requirements, industry standards, or the provisions of any local government regulations.

In case any critical safety concerns are found that require the RSC to recommend an immediate boiler shutdown, for applicable cases, the RSC will inform the Chief Inspector of Boilers (CIoB) office and collaborate with them on all subsequent steps to remediate the issue(s).

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1. EXTERNAL VISUAL INSPECTION

Inspection Date	Boiler Registration Number	Author(s)
8-Mar-22	BB 9770	Faisal Bin Faruk
10-Aug-25	BB 12622, BB 13208	Md. Mahfuzul Kabir

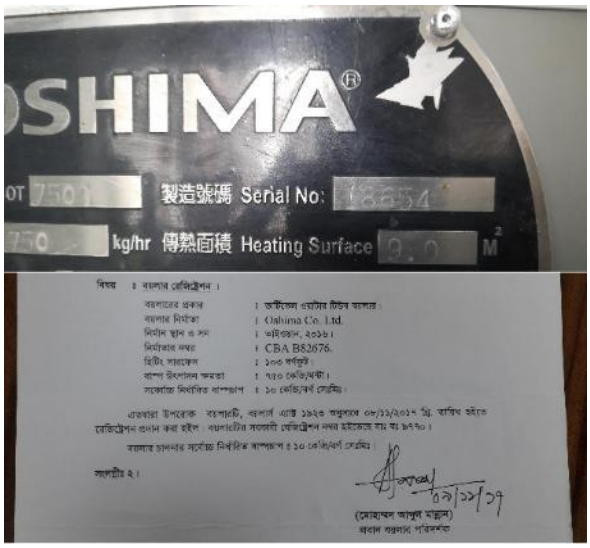
Reviewed by : Md. Minhajul Islam

Approved by : Md. Mehedi Hasan

FINDINGS AND RECOMMENDATIONS

The table below summarizes the identified boiler safety hazards during this inspection. Recommendations have been provided for each finding.

FINDING NO:	B-1
CATEGORY:	Identification
BOILER REGISTRATION NO:	BB 9770
FINDING: Inconsistency was observed between the nameplate data and the CIoB provided certificate copy for the boiler regarding Maker's number.	
RECOMMENDATION: Information provided in the nameplate and in the CIoB provided certificate shall be consistent. Any alteration shall be approved from the CIoB and a copy to be preserved on site.	
PRIORITY:	P2
REMEDIATION TIME FRAME:	2 MONTHS



FINDING NO:	B-2
CATEGORY:	Electrical Wiring System
BOILER REGISTRATION NO:	BB 9770
FINDING: No emergency stop push switch was available near the entrance outside of the boiler room and on the boiler control panel.	
RECOMMENDATION: Emergency stop push switches must be installed on the boiler control panel and outside the boiler room near every entrance door.	
PRIORITY:	P3
REMEDIATION TIME FRAME:	2 MONTHS

FINDING NO:	B-3
CATEGORY:	Documentation
BOILER REGISTRATION NO:	BB 9770

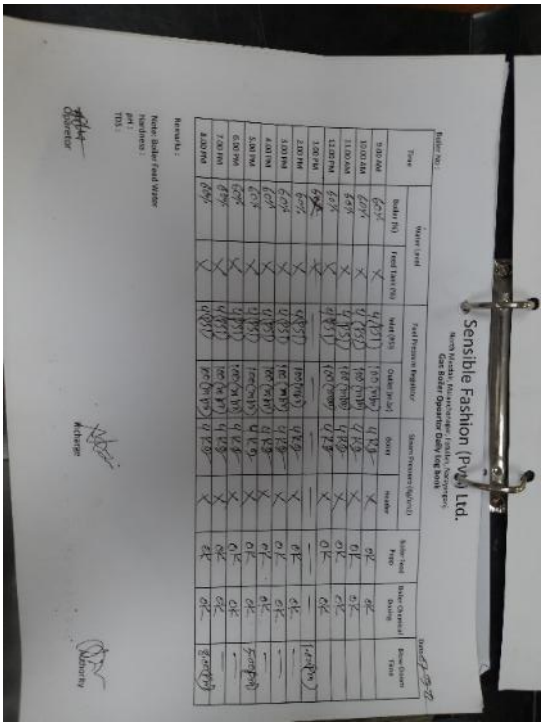
FINDING:

Necessary technical documents (manufacturing drawings & calculations, Piping & Instrumentation diagram, data sheets of mountings, accessories & feed water pump, and water treatment report) are not available to verify boiler design and operation parameters.

RECOMMENDATION:

Documentation including manufacturing drawings & calculations, Piping & Instrumentation diagram, electrical wiring diagram, commissioning documents, data sheets of mountings, accessories & feed water pump, boiler operational & maintenance logbook, operation and maintenance manual, water treatment design & calculation, flue gas analysis report and water treatment report shall be available to verify the present condition of the boiler.

PRIORITY:	P3
REMEDIATION TIME FRAME:	2 MONTHS



FINDING NO:	B-4
CATEGORY:	Monitoring and Control System
BOILER REGISTRATION NO:	BB 9770
FINDING: The steam pressure gauge range was insufficient.	
RECOMMENDATION: The boiler pressure gauge range should be at least twice the boiler's maximum allowable working pressure mentioned in the boiler license or in accordance with any recognized international standard.	
PRIORITY:	P2
REMEDIATION TIME FRAME:	1 MONTH

FINDING NO:	B-5
CATEGORY:	Safety Valve
BOILER REGISTRATION NO:	BB 12622
FINDING: Boiler Safety Valve outlet line was not directed outside of the boiler room.	
RECOMMENDATION: Boiler Safety Valve outlet line should be directed outside of the boiler room with proper support and drainage system.	
PRIORITY:	P2
REMEDIATION TIME FRAME:	1 MONTH

FINDING NO:	B-6
CATEGORY:	Monitoring and Control System
BOILER REGISTRATION NO:	BB 12622
FINDING: The steam pressure gauge range was insufficient.	
RECOMMENDATION: The boiler pressure gauge range should be at least twice the boiler's maximum allowable working pressure mentioned in the boiler license or in accordance with any recognized international standard.	
PRIORITY:	P2
REMEDIATION TIME FRAME:	1 MONTH

FINDING NO:	B-7
CATEGORY:	Thermal Insulation
BOILER REGISTRATION NO:	BB 12622
FINDING: Boiler body was found with improper insulation.	
RECOMMENDATION: Proper insulation to exposed parts of the boiler body and steam distribution pipelines should be provided.	
PRIORITY:	P2
REMEDIATION TIME FRAME:	1 MONTH

FINDING NO:	B-8
CATEGORY:	Steam Distribution Network
BOILER REGISTRATION NO:	BB 12622
FINDING: Unused steam line connection was not terminated properly.	
RECOMMENDATION: Any unused & unprotective steam line shall be terminated in an appropriate manner that does not create any possibility of burn hazard for the operator(s).	
PRIORITY:	P1
REMEDIATION TIME FRAME:	2 WEEKS

FINDING NO:	B-9
CATEGORY:	Fuel System
BOILER REGISTRATION NO:	BB 12622
FINDING: Fuel line connection was not terminated properly.	
RECOMMENDATION: Any fuel line openings in boiler room shall be diverted outside of the boiler room or sealed off with a bond plug/blind flange to prevent fuel leakage.	
PRIORITY:	P1
REMEDIATION TIME FRAME:	2 WEEKS

FINDING NO:	B-10
CATEGORY:	Fuel System
BOILER REGISTRATION NO:	BB 12622
FINDING: Fuel gas line safety valve was not directed to the outside of the boiler room.	
RECOMMENDATION: Any fuel gas line safety valve or pressure relief valve blowoff shall be diverted to the outside of the boiler room (open to atmosphere condition) to prevent gas accumulation in the boiler room.	
PRIORITY:	P1
REMEDIATION TIME FRAME:	2 WEEKS

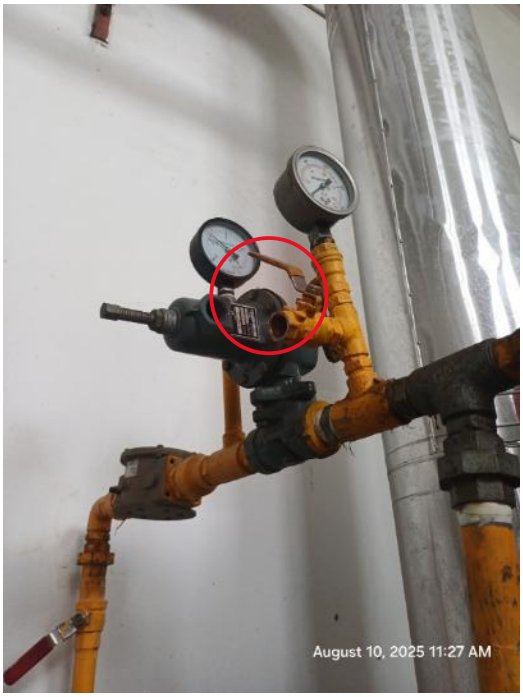
FINDING NO:	B-11
CATEGORY:	Electrical Wiring System
BOILER REGISTRATION NO:	BB 12622
FINDING: No emergency stop push switch was available on the boiler control panel.	
RECOMMENDATION: Emergency stop push switches must be installed on the boiler control panel and outside the boiler room near every entrance door.	
PRIORITY:	P3
REMEDIATION TIME FRAME:	2 MONTHS

FINDING NO:	B-12
CATEGORY:	Monitoring and Control System
BOILER REGISTRATION NO:	BB 13208
FINDING: The steam pressure gauge range was insufficient.	
RECOMMENDATION: The boiler pressure gauge range should be at least twice the boiler's maximum allowable working pressure mentioned in the boiler license or in accordance with any recognized international standard.	
PRIORITY:	P2
REMEDIATION TIME FRAME:	1 MONTH

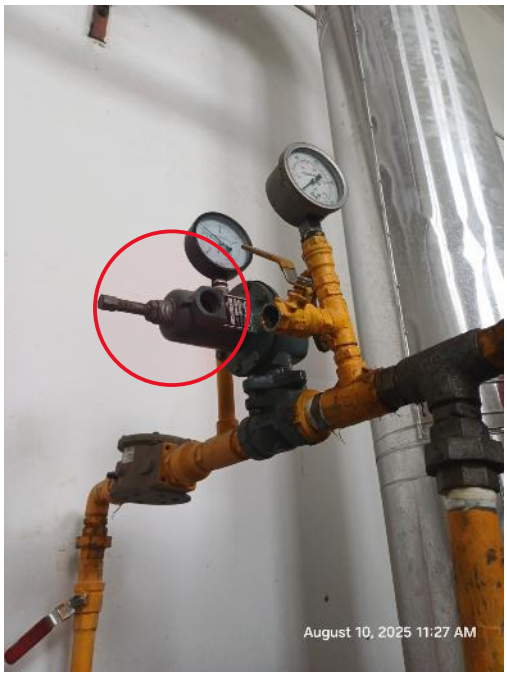
FINDING NO:	B-13
CATEGORY:	Thermal Insulation
BOILER REGISTRATION NO:	BB 13208
FINDING: Boiler body was found with improper insulation.	
RECOMMENDATION: Proper insulation to exposed parts of the boiler body and steam distribution pipelines should be provided.	
PRIORITY:	P2
REMEDIATION TIME FRAME:	1 MONTH

FINDING NO:	B-14
CATEGORY:	Steam Distribution Network
BOILER REGISTRATION NO:	BB 13208
FINDING: Unused steam line connection was not terminated properly.	
RECOMMENDATION: Any unused & unprotective steam line shall be terminated in an appropriate manner that does not create any possibility of burn hazard for the operator(s).	
PRIORITY:	P1
REMEDIATION TIME FRAME:	2 WEEKS

FINDING NO:	B-15
CATEGORY:	Fuel System
BOILER REGISTRATION NO:	BB 13208
FINDING: Fuel line connection was not terminated properly.	
RECOMMENDATION: Any fuel line openings in boiler room shall be diverted outside of the boiler room or sealed off with a bond plug/blind flange to prevent fuel leakage.	
PRIORITY:	P1
REMEDIATION TIME FRAME:	2 WEEKS



FINDING NO:	B-16
CATEGORY:	Fuel System
BOILER REGISTRATION NO:	BB 13208
FINDING: Fuel gas line safety valve was not directed to the outside of the boiler room.	
RECOMMENDATION: Any fuel gas line safety valve or pressure relief valve blowoff shall be diverted to the outside of the boiler room (open to atmosphere condition) to prevent gas accumulation in the boiler room.	
PRIORITY:	P1
REMEDIATION TIME FRAME:	2 WEEKS



FINDING NO:	B-17
CATEGORY:	Electrical Wiring System
BOILER REGISTRATION NO:	BB 13208
FINDING: No emergency stop push switch was available on the boiler control panel.	
RECOMMENDATION: Emergency stop push switches must be installed on the boiler control panel and outside the boiler room near every entrance door.	
PRIORITY:	P3
REMEDIATION TIME FRAME:	2 MONTHS

FINDING NO:	B-18
CATEGORY:	Thermal Insulation
BOILER REGISTRATION NO:	BB 13208
FINDING: Boiler steam header and steam pipeline were found with improper insulation.	
RECOMMENDATION: Proper insulation to exposed parts of the boiler body and steam distribution pipelines should be provided.	
PRIORITY:	P2
REMEDIATION TIME FRAME:	1 MONTH

FINDING NO:	B-19
CATEGORY:	Safety Valve
BOILER REGISTRATION NO:	BB 13208
FINDING: A control valve was observed between the steam header and the safety Valve.	
RECOMMENDATION: The steam header safety valve shall be mounted directly with the steam header without any valves in between.	
PRIORITY:	P1
REMEDIATION TIME FRAME:	2 WEEKS

FINDING NO:	B-20	
CATEGORY:	Safety Valve	
BOILER REGISTRATION NO:	BB 9770	
FINDING: Discharge of safety valve was not free from danger of scalding.		
RECOMMENDATION: Safety valve outlet line shall not affect emergency discharge path or discharge of safety valve shall be free from danger of scalding.		
PRIORITY:	P2	
REMEDIATION TIME FRAME:	1 MONTH	

FINDING NO:	B-21	
CATEGORY:	Monitoring and Control System	
BOILER REGISTRATION NO:	BB 9770	
FINDING: There is no drainage available for water level gauge glass		
RECOMMENDATION: A suitable discharge pipe shall be fitted with each water gauge drain cock or valve		
PRIORITY:	P3	
REMEDIATION TIME FRAME:	2 MONTHS	

FINDING NO:	B-22
CATEGORY:	Identification
BOILER REGISTRATION NO:	BB 12622
FINDING: Nameplates for safety valve were illegible.	
RECOMMENDATION: Name plates shall permanently be fixed on the equipment and clearly readable. Manufacturer's technical documents regarding the equipment shall be provided.	
PRIORITY:	P2
REMEDIATION TIME FRAME:	1 MONTH

FINDING NO:	B-23
CATEGORY:	Monitoring and Control System
BOILER REGISTRATION NO:	BB 12622
FINDING: Visual flame monitoring system was not easily accessible for regular monitoring	
RECOMMENDATION: A visual flame monitoring system is required to be installed for regular monitoring	
PRIORITY:	P3
REMEDIATION TIME FRAME:	2 MONTHS

FINDING NO:	B-24	
CATEGORY:	Fuel System	
BOILER REGISTRATION NO:	BB 12622	
FINDING: Fuel line connection was not diverted outside the boiler room.		
RECOMMENDATION: Any fuel line openings in boiler room shall be diverted outside of the boiler room or sealed off with a bond plug/blind flange to prevent fuel leakage.		
PRIORITY:	P1	
REMEDIATION TIME FRAME:	2 WEEKS	

2. INTERNAL INSPECTION & HYDROSTATIC PRESSURE TEST INSPECTION

Inspection Date	Boiler Registration Number	Author(s)
10-Aug-25	BB 9770	Md. Mahfuzul Kabir
13-Oct-25	BB 12622	Md. Humayun Kabir Tipu
21-Oct-25	BB 13208	Shapath Guha Ankur
7-Jun-26	BB 12622	Md. Humayun Kabir Tipu

Reviewed by : Md. Minhajul Islam

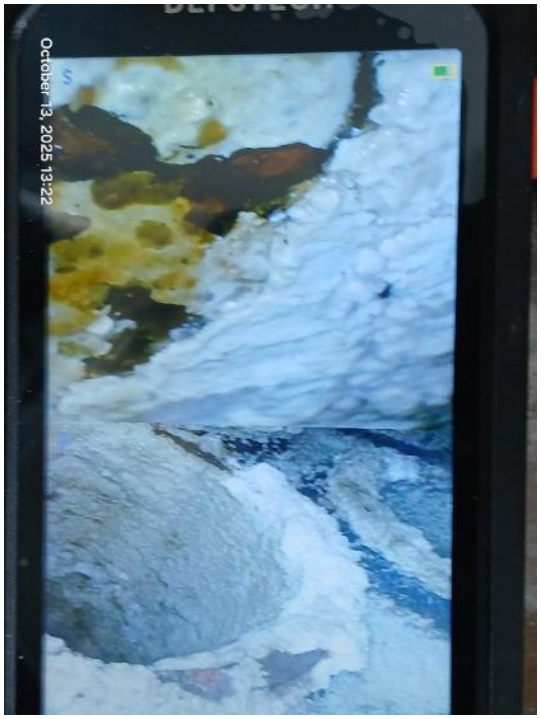
Approved by : Md. Mehedi Hasan

FINDINGS AND RECOMMENDATIONS

The table below summarizes the identified boiler safety hazards during this inspection. Recommendations have been provided for each finding.

FINDING NO:	B-25
CATEGORY:	Scales and Deposits
BOILER REGISTRATION NO:	BB 9770
FINDING: Salt and scale formation was observed on the waterside on bottom plate. Scale nature is soft and thickness in 1 mm	
RECOMMENDATION: Cleaning is required. A water treatment station is to be used. Feed and boiler water quality and conditioning should be verified and monitored. The boiler operator should operate the boiler with proper blowdown.	
PRIORITY:	P2
REMEDIATION TIME FRAME:	1 MONTH

FINDING NO:	B-26
CATEGORY:	Scales and Deposits
BOILER REGISTRATION NO:	BB 12622
FINDING: Salt and scale formation was observed on the waterside of the boiler.	
RECOMMENDATION: Cleaning is required. A water treatment station is to be used. Feed and boiler water quality and conditioning should be verified and monitored. The boiler operator should operate the boiler with proper blowdown.	
PRIORITY:	P2
REMEDIATION TIME FRAME:	1 MONTH



FINDING NO:	B-27	
CATEGORY:	Scales and Deposits	
BOILER REGISTRATION NO:	BB 13208	
FINDING: Salt and thin scale (1~2 mm) formation was observed on the waterside on the bottom part.		
RECOMMENDATION: Cleaning is required. A water treatment station is to be used. Feed and boiler water quality and conditioning should be verified and monitored. The boiler operator should operate the boiler with proper blowdown.		
PRIORITY:	P2	
REMEDIATION TIME FRAME:	1 MONTH	

3. FUNCTIONAL TEST INSPECTION

Inspection Date	Boiler Registration Number	Author(s)
6-Oct-25	BB 9770	Hasibul Islam
30-Nov-25	BB 13208	Md. Mahfuzul Kabir
23-Jun-26	BB 12622	Faisal Bin Faruk

Reviewed by : Md. Minhajul Islam

Approved by : Md. Mehedi Hasan

FINDINGS AND RECOMMENDATIONS

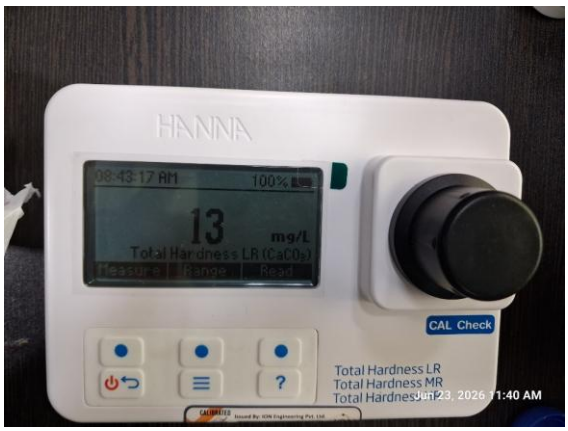
The table below summarizes the identified boiler safety hazards during this inspection. Recommendations have been provided for each finding.

FINDING NO:	B-28
CATEGORY:	Monitoring and Control System
BOILER REGISTRATION NO:	BB 9770
FINDING: There was no interlock for the Low Low Water (LLWL) level trip of the boiler	
RECOMMENDATION: The Low Low Water (LLW) level tripping mechanism should be functional.	
PRIORITY:	P1
REMEDIATION TIME FRAME:	1 WEEK

FINDING NO:	B-29
CATEGORY:	Monitoring and Control System
BOILER REGISTRATION NO:	BB 9770
FINDING: The Steam Pressure Limiter was missing.	
RECOMMENDATION: Steam Pressure Limiter should be installed and kept functional.	
PRIORITY:	P1
REMEDIATION TIME FRAME:	1 MONTH

FINDING NO:	B-30
CATEGORY:	Monitoring and Control System
BOILER REGISTRATION NO:	BB 13208
FINDING: There was no interlock for the Low Low Water (LLWL) level trip of the boiler.	
RECOMMENDATION: The Low Low Water (LLW) level tripping mechanism should be functional.	
PRIORITY:	P1
REMEDIATION TIME FRAME:	1 WEEK

FINDING NO:	B-31
CATEGORY:	Monitoring and Control System
BOILER REGISTRATION NO:	BB 13208
FINDING: The Steam Pressure Limiter was missing.	
RECOMMENDATION: Steam Pressure Limiter should be installed and kept functional.	
PRIORITY:	P1
REMEDIATION TIME FRAME:	1 MONTH

FINDING NO:	B-32
CATEGORY:	Monitoring and Control System
BOILER REGISTRATION NO:	BB 12622
FINDING: There was no interlock for the Low Low Water (LLWL) level trip of the boiler	
RECOMMENDATION: The Low Low Water (LLW) level tripping mechanism should be functional.	
PRIORITY:	P1
REMEDIATION TIME FRAME:	1 WEEK

FINDING NO:	B-33
CATEGORY:	Feed Water System
BOILER REGISTRATION NO:	BB 12622
FINDING: The boiler's water quality does not comply with standard values (Hardness 13 ppm).	
RECOMMENDATION: The feedwater and boiler water quality should meet the manufacturer's specifications. When unavailable, should meet manufacturer's standard or BS EN 12953-10.	
PRIORITY:	P2
REMEDIATION TIME FRAME:	1 MONTH