BOILER SAFETY REPORT

Textown Limited new building

Factory ID: 12527

Address: Dewan Idris road, Bara Rangamatia, Ashulia

GPS Coordinates: 23.912101, 90.301848

Factory List	:	Textown Limited new building (12527)
		TEXTOWN LIMITED (9704)
		Ornate Knit Garments Industries Ltd (9701)
		Textown Ltd (Extension building) (24041)
Number of Boilers	:	3
Boiler Registration Numbers	:	BB 9579, BB 3418, BB 5403

RSC RMG SUSTAINABILITY COUNCIL

EXECUTIVE SUMMARY

A comprehensive boiler safety inspection of the factory – **Textown Limited new building (12527)** was conducted by the RMG Sustainability Council, covering 3 boilers bearing the registration numbers – BB 9579, BB 3418 and BB 5403. 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 -

Boiler **BB 9579, BB 3418** and **BB 5403** are in operable condition, but a few issues - outlined in this report, are to be addressed in a timely manner.

How ever, Linked ID- **TEXTOWN LIMITED (9704), Ornate Knit Garments Industries Ltd (9701),** and **Textown Ltd (Extension building) (24041)** in the same factory premises are using steam from the below mentioned boilers.

Boiler Registration Number	External visual inspection	Internal & Hydrotest inspection		Functional test inspection	
	Date	Date	Remarks	Date	Remarks
BB 9579	13-Aug-25	13-Aug-25	Satisfactory	18-Sep-25	Steam Pressure Limiter was missing, No interlock for the Low Low Water (LLWL) level trip of the boiler

BB 3418		31-Aug-25	On 31-Aug-25, the hydrotest was not satisfactory due to pressure part leakage. After the pressure part repair, another hydrotest was attempted on 4-Sep-25, and the inspection was satisfactory.	18-Sep-25	On 18-Sep-25, the functional test inspection could not be completed for BB 3418 due to the seized blowdown valve, which prevented checking of the water level controller and low-low water level (LLWL) limiter. Additionally, as per the factory's request, the functionality checks of the fuel pressure limiter (max/min), main gas valve, and soap water leakage test of the gas line could not be completed due to production pressure. Therefore, another inspection was scheduled on 12-May-26 to complete the inspection.
		4-Sep-25		12-May-26	
BB 5403		7-Sep-25	On 07 Sep 25, the hydro test was not attempted due to incomplete repair documentation (welding on the baseplate, tube replacements, and tube extensions) and heavy waterside scaling. During re inspection on 08 Jan 26, hydro testing was again suspended due to tube —33 of 134 tubes were bent (4 in 2nd Pass, 29 in	12-May-26	The Steam Pressure Limiter was missing.
		8-Jan-26			

		30-Apr-26	3rd Pass), and modification of the 2nd pass reversal chamber without CIoB permission. At the final inspection on 30-Apr-26, all tubes were found to be replaced with complete documentation & CIoB permission, and hydro testing was carried out satisfactorily.		

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)
13-Aug-25	BB 9579, BB 3418, BB 5403	Abdullah Bin Mostafa

Reviewed by : Md. Minhajul Islam

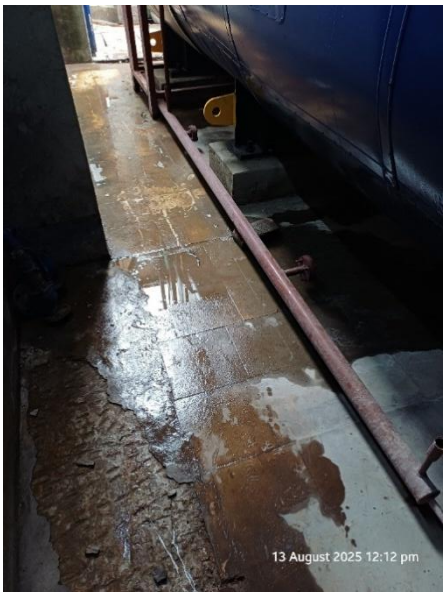
Approved by : Md. Mehedi Hasan

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:	Boiler Pressure Parts
BOILER REGISTRATION NO:	BB 9579
FINDING: The economizer was not equipped with a safety valve.	
RECOMMENDATION: Economizers that can be isolated from a boiler allowing the economizer to become a fired pressure vessel, shall have a minimum of one pressure safety valve in a location recommended by the manufacturer or as close as practical to the economizer outlet.	
PRIORITY:	P2
REMEDIATION TIME FRAME:	1 MONTH

FINDING NO:	B-2
CATEGORY:	Boiler Room
BOILER REGISTRATION NO:	BB 9579
FINDING: Water leakage was observed inside the boiler room.	
RECOMMENDATION: Boiler and its surrounding shall be free from storage, obstruction and free from slipping hazard for proper monitoring by boiler operator and other relevant maintenance technicians.	
PRIORITY:	P3
REMEDIATION TIME FRAME:	2 MONTHS

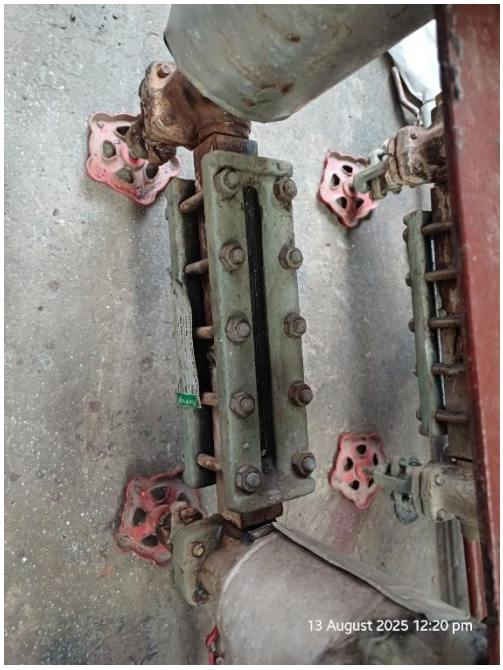


FINDING NO:	B-3	
CATEGORY:	Boiler Room	
BOILER REGISTRATION NO:	BB 9579	
FINDING: Boiler room was not properly illuminated.		
RECOMMENDATION: Proper illumination shall be provided in the boiler room. Illumination shall be not less than 150 lux on the floor level.		
PRIORITY:	P3	
REMEDIATION TIME FRAME:	2 MONTHS	

FINDING NO:	B-4	
CATEGORY:	Documentation	
BOILER REGISTRATION NO:	BB 9579	
FINDING: Boiler's initial registration certificate was not available on-site during the inspection.		
RECOMMENDATION: Boiler registration certificate from the government authority which was provided after the installation shall be available on-site during the inspection.		
PRIORITY:	P3	
REMEDIATION TIME FRAME:	2 MONTHS	

FINDING NO:	B-5
CATEGORY:	Electrical Wiring System
BOILER REGISTRATION NO:	BB 9579
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-6
CATEGORY:	Monitoring and Control System
BOILER REGISTRATION NO:	BB 9579
FINDING: Low Low Water Level (LLWL) was not marked properly on water level gauge glass system.	
RECOMMENDATION: The Low Low Water Level (LLWL) should be marked beside the gauge glass on a separate arrangement so that the water level can be visualized and identified clearly.	
PRIORITY:	P3
REMEDIATION TIME FRAME:	2 MONTHS



FINDING NO:	B-7
CATEGORY:	Documentation
BOILER REGISTRATION NO:	BB 3418
FINDING: Boiler's initial registration certificate was not available on-site during the inspection.	
RECOMMENDATION: Boiler registration certificate from the government authority which was provided after the installation shall be available on-site during the inspection.	
PRIORITY:	P3
REMEDIATION TIME FRAME:	2 MONTHS

FINDING NO:	B-8
CATEGORY:	Electrical Wiring System
BOILER REGISTRATION NO:	BB 3418
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-9
CATEGORY:	Monitoring and Control System
BOILER REGISTRATION NO:	BB 3418
FINDING: Low Low Water Level (LLWL) was not marked properly on water level gauge glass system.	
RECOMMENDATION: The Low Low Water Level (LLWL) should be marked beside the gauge glass on a separate arrangement so that the water level can be visualized and identified clearly.	
PRIORITY:	P3
REMEDIATION TIME FRAME:	2 MONTHS

FINDING NO:	B-10
CATEGORY:	Fuel System
BOILER REGISTRATION NO:	BB 3418
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-11
CATEGORY:	Identification
BOILER REGISTRATION NO:	BB 3418
FINDING: Nameplates for feed pump was 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

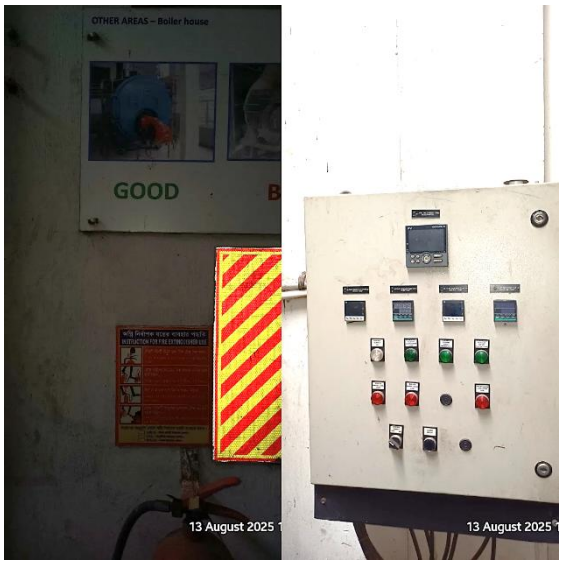
FINDING NO:	B-12
CATEGORY:	Support and Access
BOILER REGISTRATION NO:	BB 3418
FINDING: A boiler with a height of 8 feet or more was observed with an inadequate platform, ladder, and handrail, making it inaccessible.	
RECOMMENDATION: An operation, maintenance, and inspection platform with a minimum width of 2.5 feet, a railing with a minimum height of 3.5 feet, and a ladder - that does not pose fall hazard - should be provided.	
PRIORITY:	P3
REMEDIATION TIME FRAME:	2 MONTHS

FINDING NO:	B-13
CATEGORY:	Monitoring and Control System
BOILER REGISTRATION NO:	BB 3418
FINDING: Valves were observed between the boiler and the pressure controller.	
RECOMMENDATION: The measuring and sensing devices related to boiler safety shall be mounted directly with the boiler without any valves in between.	
PRIORITY:	P1
REMEDIATION TIME FRAME:	2 WEEKS

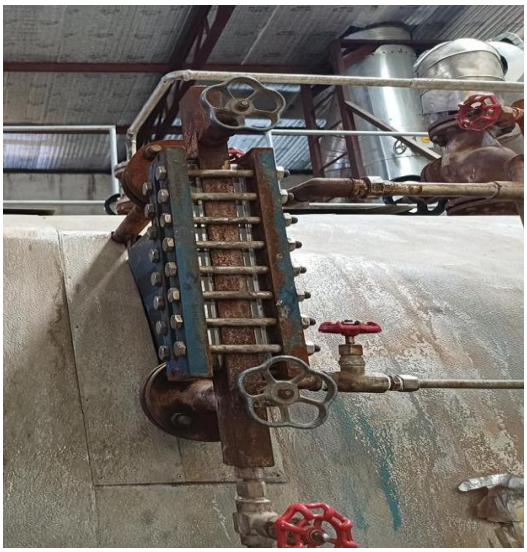
FINDING NO:	B-14
CATEGORY:	Monitoring and Control System
BOILER REGISTRATION NO:	BB 3418
FINDING: The steam pressure gauge range was insufficient.	
RECOMMENDATION: The boiler pressure gauge range should be at least twice the boiler's maximum allowable working pressure mentioned in the boiler license or in accordance with any recognized international standard.	
PRIORITY:	P2
REMEDIATION TIME FRAME:	1 MONTH

FINDING NO:	B-15
CATEGORY:	Documentation
BOILER REGISTRATION NO:	BB 5403
FINDING: Boiler's initial registration certificate was not available on-site during the inspection.	
RECOMMENDATION: Boiler registration certificate from the government authority which was provided after the installation shall be available on-site during the inspection.	
PRIORITY:	P3
REMEDIATION TIME FRAME:	2 MONTHS

FINDING NO:	B-16
CATEGORY:	Electrical Wiring System
BOILER REGISTRATION NO:	BB 5403
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-17
CATEGORY:	Monitoring and Control System
BOILER REGISTRATION NO:	BB 5403
FINDING: Low Low Water Level (LLWL) was not marked properly on water level gauge glass system.	
RECOMMENDATION: The Low Low Water Level (LLWL) should be marked beside the gauge glass on a separate arrangement so that the water level can be visualized and identified clearly.	
PRIORITY:	P3
REMEDIATION TIME FRAME:	2 MONTHS



FINDING NO:	B-18
CATEGORY:	Identification
BOILER REGISTRATION NO:	BB 5403
FINDING: Nameplates for feed pump and 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-19
CATEGORY:	Support and Access
BOILER REGISTRATION NO:	BB 5403
FINDING: A boiler with a height of 8 feet or more was observed with an inadequate platform, ladder, and handrail, making it inaccessible.	
RECOMMENDATION: An operation, maintenance, and inspection platform with a minimum width of 2.5 feet, a railing with a minimum height of 3.5 feet, and a ladder - that does not pose fall hazard - should be provided.	
PRIORITY:	P3
REMEDIATION TIME FRAME:	2 MONTHS

FINDING NO:	B-20
CATEGORY:	Monitoring and Control System
BOILER REGISTRATION NO:	BB 5403
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-21	
CATEGORY:	Documentation	
BOILER REGISTRATION NO:	BB 5403	
FINDING: Necessary technical documents (manufacturing drawings) were not available to verify boiler design and operation parameters.		
RECOMMENDATION: Documentation including manufacturing drawings and calculations, Piping and Instrumentation diagram, electrical wiring diagram, commissioning documents, data sheets of mountings, accessories and feed water pump, boiler operational and maintenance log book, operation and maintenance manual, water treatment design and 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-22
CATEGORY:	Steam Distribution Network
BOILER REGISTRATION NO:	BB 3418
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-23
CATEGORY:	Safety Valve
BOILER REGISTRATION NO:	BB 3418
FINDING: Boiler Steam Header Safety Valve outlet line was not directed outside of the boiler room.	
RECOMMENDATION: Boiler Steam Header 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-24	
CATEGORY:	Monitoring and Control System	
BOILER REGISTRATION NO:	BB 5403	
FINDING: Valves were observed between the boiler and the pressure controller.		
RECOMMENDATION: The measuring and sensing devices related to boiler safety shall be mounted directly with the boiler without any valves in between.		
PRIORITY:	P1	
REMEDIATION TIME FRAME:	2 WEEKS	

2. INTERNAL INSPECTION & HYDROSTATIC PRESSURE TEST INSPECTION

Inspection Date	Boiler Registration Number	Author(s)
13-Aug-25	BB 9579	Abdullah Bin Mostafa
31-Aug-25	BB 3418	Susanta Roy Chowdhury Hossain Shah Arif
4-Sep-25	BB 3418	Palash Kumar Paul
7-Sep-25	BB 5403	Hossain Shah Arif Md. Humayan Kabir Tipu
30-Apr-26	BB 5403	Palash Kumar Paul Md. Asfaquzzaman

Reviewed by : Md. Minhajul Islam

Approved by : Md. Mehedi Hasan

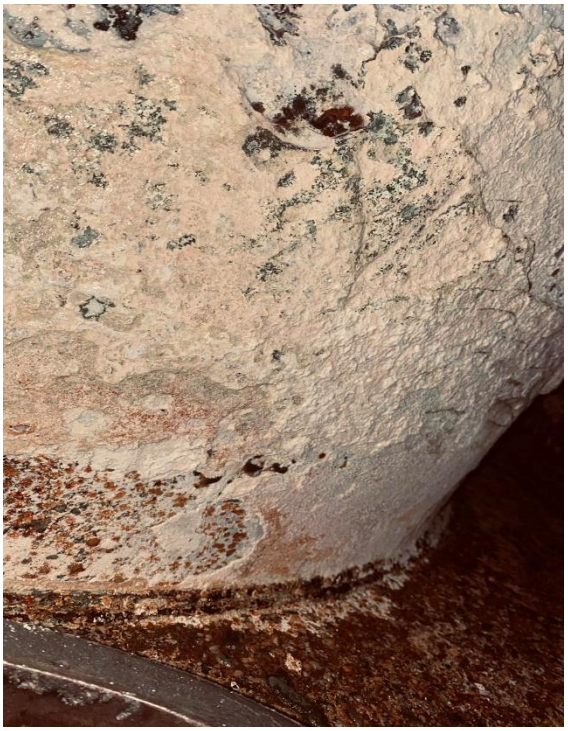
FINDINGS AND RECOMMENDATIONS

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 9579
FINDING: Carbon deposition was found in the smoke tubes.	
RECOMMENDATION: The furnace and inside of the fire tubes should be cleaned periodically to prevent excessive soot build-up. The fuel burner should be adjusted according to the manufacturer's guidelines.	
PRIORITY:	P3
REMEDIATION TIME FRAME:	2 MONTHS

FINDING NO:	B-26
CATEGORY:	Scales and Deposits
BOILER REGISTRATION NO:	BB 3418
FINDING: Salt and scale (2 mm) formation was observed on the waterside on end plate and fire tubes.	
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 5403
FINDING: Salt and scale formation was observed on the waterside on fire tubes, shell and end plates.	
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)
18-Sep-25	BB 9579, BB 3418	Asif Ahmed
12-May-26	BB 5403, BB 3418	Susanta Roy Chowdhury

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 3418
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-29
CATEGORY:	Monitoring and Control System
BOILER REGISTRATION NO:	BB 9579
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:	Electrical Wiring System	
BOILER REGISTRATION NO:	BB 3418	
FINDING: There was no acoustic or optical alarm when the limiter was activated.		
RECOMMENDATION: An acoustic with optical alarm should be installed.		
PRIORITY:	P2	
REMEDIATION TIME FRAME:	1 MONTH	

FINDING NO:	B-31	
CATEGORY:	Monitoring and Control System	
BOILER REGISTRATION NO:	BB 9579	
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-32
CATEGORY:	Monitoring and Control System
BOILER REGISTRATION NO:	BB 5403
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-33
CATEGORY:	Monitoring and Control System
BOILER REGISTRATION NO:	BB 3418
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