



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

MIKE ZIMMER  
DIRECTOR

**BOARD OF BOILER RULES**  
Conference Room 3, First Floor  
2501 Woodlake Circle  
Okemos, Michigan 48864

**AGENDA**  
March 10, 2015  
9:30 a.m.

- |  |  |
|--|--|
| 1) Call to order and determination of quorum   | M. Babcock   |
| 2) Nomination and Election of Officers   | M. Moore   |
| 3) Announcements   | M. Moore   |
| 4) Approval of Agenda – March 10, 2015 (Pages 1-2)   | M. Babcock   |
| 5) Approval of Minutes – December 9, 2014 (Pages 3-8)  | M. Babcock   |
| 6) FY2014 Boiler Fund Financial Report   | L. Allaire   |
| 7) Review of candidates passing examination<br>for Boiler Installer and Repairer,<br>March 2015 (Page 9) | (Document BLR2015-1) M. Moore<br>(To be handed out at meeting) |
| 8) Violations (Pages 10-13)  | (Document BLR2015-2) M. Moore                                  |
| 9) Accident (Pages 14-19)  | (Document BLR2015-3) M. Moore                                  |
| 10) Certificate Extension  |  |
| a) Board of Water & Light (Pages 20-26)  | (Document BLR2015-4) M. Moore                                  |
| 11) 24 Month Internal Program  |  |
| a) Verso Paper Corporation (Pages 27-33)   | (Document BLR2015-5) M. Moore                                  |

*Providing for Michigan's Safety in the Built Environment*

LARA is an equal opportunity employer  
Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities.  
P.O. BOX 30254 • LANSING, MICHIGAN 48909  
www.michigan.gov/bcc • Telephone (517) 241-9334 • Fax (517) 241-6301

Board of Boiler Rules Agenda

Page 2

March 10, 2015

- |  |            |
|--|------------|
| 12) Chief Inspector's Report             | M. Moore   |
| 13) New Business                         | M. Babcock |
| 14) Public Comment                       | M. Babcock |
| 14) Next Meeting – Tuesday, June 9, 2015 | M. Babcock |
| 15) Adjournment                          | M. Babcock |



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

MIKE ZIMMER  
ACTING DIRECTOR

**BOARD OF BOILER RULES**  
Conference Room 3, First Floor  
2501 Woodlake Circle  
Okemos, Michigan 48864

**MINUTES**  
December 9, 2014  
9:30 a.m.

**MEMBERS PRESENT**

Mr. Mark C. Babcock  
Mr. Lawrence Black  
Mr. R. James Federighe  
Mr. Chris Lanzon  
Mr. James B. Lewis  
Mr. Dale Palmer  
Mr. Ryan Randazzo  
Mr. David Robin  
Mr. Dennis Rupert  
Mr. Frank Wiechert

**MEMBERS ABSENT**

Mr. Robert Hutsell

**DEPARTMENT PERSONNEL ATTENDING**

Mr. Mark Moore, Chief, Boiler Division  
Mr. David Stenrose, Assistant Chief, Boiler Division  
Ms. Lisa Rambo, Office Supervisor, Boiler Division

**OTHERS IN ATTENDANCE**

Mr. Matt Jordan, Michigan State University, Physical Plant  
Mr. Jerry Nowicki, Packaging Corporation of America  
Mr. Ron Blevin, Packaging Corporation of America

*Providing for Michigan's Safety in the Built Environment*

LARA is an equal opportunity employer  
Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities.  
P.O. BOX 30254 • LANSING, MICHIGAN 48909  
www.michigan.gov/bcc • Telephone (517) 241-9302 • Fax (517) 241-9570

1. **CALL TO ORDER AND DETERMINATION OF QUORUM**

Chairperson Babcock called the meeting to order at approximately 9:43 a.m. A quorum was determined present at that time.

2. **ANNOUNCEMENTS**

The division has two new inspectors; Steve Baril as an inspector 10 will be inspecting boilers in the Eastern part of the Upper Peninsula. Dan Torreblanca as an inspector 11 will be inspecting in Washtenaw and Monroe counties.

3. **APPROVAL OF AGENDA**

A **MOTION** was made by board member Lewis and board member Palmer seconded the motion to approve the December 9, 2014 agenda. **MOTION CARRIED.**

4. **APPROVAL OF MINUTES**

A **MOTION** was made by board member Rupert and board member Lanzon seconded the motion to approve the minutes of the September 9, 2014 meeting. **MOTION CARRIED.**

5. **REVIEW OF CHIEF INSPECTOR'S RECOMMENDATION FOR ISSUANCE OF LICENSES FOR BOILER INSTALLERS AND REPAIRERS**

Board reviewed the December 2014 examination results, listed on Document BLR2014-19.

A **MOTION** was made by board member Lewis and board member Palmer seconded the motion to approve names for issuance of the license application to the examinees on December 2014 examination. (Document BLR2014-19). **MOTION CARRIED. One Abstained.**

6. **VIOLATION**

The board reviewed the violations issued. (Document BLR2014-20).

**Received and Filed**

7. **SECTION 23**

**REQUALIFICATION OF SECTION 23**

Renewal of Section 23 Exempt status for Lansing Board of Water and Light 830 E Hazel Lansing, Michigan facility. Document BLR2014-21.

Recommending a motion to renew Lansing Board of Water and Light 830 E Hazel Lansing, Michigan facility section 23-exemption program for repairs to boilers and external piping for a period of three years to expire on September 10, 2017 or continue until the next review can be conducted.

A **MOTION** was made by board member Lewis and board member Wiechert seconded the motion to renew Lansing Board of Water and Light 830 E Hazel Lansing, Michigan facility section 23-exemption program for repairs to boilers and external piping for a period of three years to expire on September 10, 2017 or continue until the next review can be conducted. (Document BLR2014-21). **MOTION CARRIED.**

8. **24 MONTH INTERNAL PROGRAM**

The board reviewed the recommendation for Verso Paper Corporation 24 month internal program listed in Document BLR2014-22.

A **MOTION** was made by board member Robin and board member Federighe seconded the motion to approve Verso Paper Corporation 24 month internal program. (Document BLR2014-22). **MOTION CARRIED.**

## **9. CERTIFICATE EXTENSION**

Board reviewed the certificate extension on boiler MIR044537, MIR046937, MIR401208 for Packaging Corporation of America listed in Documents BLR2014-23.

A **MOTION** was made by board member Lewis and board member Palmer seconded the motion to approve the certificate extension on boiler MIR044537, MIR046937, MIR401208 for Packaging Corporation of America until May 30, 2015. (Document BLR2014-23). **MOTION CARRIED.**

Board reviewed the certificate extension on Boiler MIR086005 for Cargill Inc., Evaporation Salt Plant listed in Documents BLR2014-24.

A **MOTION** was made by board member Lanzon and board member Rupert seconded the motion to approve the certificate extension on boiler MIR086005 for Cargill Inc., Evaporation Salt Plant until May 31, 2015. (Document BLR2014-24). **MOTION CARRIED.**

## **10. CHIEF INSPECTOR'S REPORT – MARK MOORE**

State of the Division:

- a) We are solvent with slight declining from last year economic value. With 69,342 active certified boilers, 137 licensed inspector (16 deputy and 121 special inspectors), 25,685 inspections conducted since January 1, 2014 (9,823 by the State inspectors and 15,862 by insurance inspectors). Mr. Rupert requested Mark Moore, Chief of the Boiler Division request to get a copy of the financial statement for the Board.
- b) We have 7,281 boilers are due for inspection as of December 5, 2014 (3,398 assigned to State and 3,883 are insurance)
- c) The division processed 3,300 new permits and of those 3,043 are closed.
- d) Violations consist of 9,781 (8,700 were State of Michigan inspectors), 10,308 were closed, 9,823 were State of Michigan, and 485 were insurance.
- e) We show there are 1,913 installers and 126 repairers.

Stationary engineer oral examination status

- a) We are expected to finish the final 1<sup>st</sup> class exam set by mid-December or early January of 2015.
- b) 2<sup>nd</sup> and 3<sup>rd</sup> class is complete.

## **11. UNFINISHED BUSINESS**

**None Reported**

## **12. NEW BUSINESS**

New task assigned by the Director Poke to review our examinations by weight of the questions, licensee level, for accuracy and assure the questions are clear, concise and formatted properly. On December 4 Dave Stenrose (Assistant Chief), Jerry Keson, Tom Wagner, Frank Manente (State of Michigan inspectors), Dave Sovey (4B Installer at Blue Water Boiler), Gary Hinz (class IV repairer at Purvis and Foster), and myself met to review examination questions for installer, repairer and P licenses.

We found three installer's questions to be wrong. Six questions to have more than one answer that could be excepted do to composition of the question and its clarity.

I would request the approval to make the necessary changes to the examination question to ensure accuracy and continuity to the fairness to the examinees and the Board to approve the changes subject to the Board review on the next meeting date of March 10, 2015.

A **MOTION** was made by board member Rupert and board member Lewis seconded the motion to give Mark Moore, Chief of the division approval to make the corrections necessary to ensure accuracy and continuity to the fairness to the examinees. Mark Moore is to provide the changes and current questions at the next board meeting scheduled for March 10, 2015. **MOTION CARRIED.**

## **13. PUBLIC COMMENT**

**No Public Comment**

**14. NEXT MEETING - Tuesday March 10, 2015.**

**15. ADJOURNMENT**

A **MOTION** was made by board member Lewis and board member Robin seconded the motion to adjourn the meeting at approximately 10:27 a.m. **MOTION CARRIED.**

**APPROVED:**

\_\_\_\_\_

Chairman, Board of Boiler Rules

\_\_\_\_\_

Date

DRAFT



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

MIKE ZIMMER  
DIRECTOR

(Document BLR2015-1)

February 16, 2015

To: Board of Boiler Rules Members

From: Mark Moore, Chief Boiler Division

Subject: List of Installers & Repairers who passed the March 2015 Examination.

**To Be Handed Out At The Board Meeting**

*Providing for Michigan's Safety in the Built Environment*

LARA is an equal opportunity employer  
Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities.  
P.O. BOX 30254 • LANSING, MICHIGAN 48909  
www.michigan.gov/bcc • Telephone (517) 241-9302 • Fax (517) 241-9570



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

MIKE ZIMMER  
DIRECTOR

(Document BLR2015-2)

February 4, 2015

To: Members, Board of Boiler Rules  
From: Mark Moore  
Chief, Boiler Division

Subject: Violations Issued

Attached you will find the violation reports sent to the National Board.

The report contains violations issued in Michigan by all inspectors for the fourth quarter of 2014. Violation totals consist of 2,282 for the State of Michigan and 168 for the insurance companies.

The total number of inspections conducted in Michigan during this quarter is 7,671. The total number of inspections with violations is 2,450. Approximately 32% of the inspections result in violations issued.

This signifies a decrease from the last quarter of 4%.

*Providing for Michigan's Safety in the Built Environment*

LARA is an equal opportunity employer  
Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities.  
P.O. BOX 30254 • LANSING, MICHIGAN 48909  
www.michigan.gov/bcc • Telephone (517) 241-9302 • Fax (517) 241-9570

### Violation Tracking Form

ID: 62  
 StartDate: 10/1/2012  
 EndDate: 12/31/2012  
 Jurisdiction: Michigan

Device Type (ASME Certification Designator)	High Pressure / High Temperature Boilers (S M E)	Low Pressure Steam Boilers (H)	Hot Water Heating / Supply Boilers (H)	Pressure Vessels (U UM)	Potable Water Heaters (HLW)
<b>Total Inspections By Type:</b>	1061	569	5582	1	458
<b>1) Safety Relief Devices</b>	High Pressure / High Temperature Boilers (S M E)	Low Pressure Steam Boilers (H)	Hot Water Heating / Supply Boilers (H)	Pressure Vessels (U UM)	Potable Water Heaters (HLW)
1.1 Inoperable		4	29		3
1.2 Device Missing - Not Installed		1	1		
1.3 Improper Installation	1	6	81		2
1.4 Leaking	2	1	20		
1.5 Incorrect Capacity		2	47		8
1.6 Missing Nameplate	1	2	3		
1.7 Incorrect Set Pressure					
<b>2) Low Water Cutoffs / Flow Sensing Devices</b>	High Pressure / High Temperature Boilers (S M E)	Low Pressure Steam Boilers (H)	Hot Water Heating / Supply Boilers (H)	Pressure Vessels (U UM)	Potable Water Heaters (HLW)
2.1 Inoperable					
2.2 Device Missing - Not Installed		5	25		1
2.3 Improper Installation					
2.4 No Manual Reset		2	18		
2.5 Sediment / Dirty / Leaking					
<b>3) Pressure Controls</b>	High Pressure / High Temperature Boilers (S M E)	Low Pressure Steam Boilers (H)	Hot Water Heating / Supply Boilers (H)	Pressure Vessels (U UM)	Potable Water Heaters (HLW)
3.1 Inoperable			12		1
3.2 Device Missing - Not Installed		10			
3.3 Improper Installation					
3.4 No Manual Reset					
	High Pressure / High Temperature	Low Pressure	Hot Water Heating /	Pressure Vessels	Potable Water

4) Temperature Controls - Operator or High Limit	Boilers (S M E)	Steam Boilers (H)	Supply Boilers (H)	(U UM)	Heaters (HLW)
4.1 Inoperable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.2 Device Missing - Not Installed	<input type="checkbox"/>	<input type="checkbox"/>	27	<input type="checkbox"/>	1
4.3 Improper Installation	<input type="checkbox"/>	<input type="checkbox"/>	12	<input type="checkbox"/>	<input type="checkbox"/>
4.4 No Manual Reset	<input type="checkbox"/>	<input type="checkbox"/>	30	<input type="checkbox"/>	<input type="checkbox"/>
5) Burner Management	High Pressure / High Temperature Boilers (S M E)	Low Pressure Steam Boilers (H)	Hot Water Heating / Supply Boilers (H)	Pressure Vessels (U UM)	Potable Water Heaters (HLW)
5.1 Flame Failure – Operating, Management System	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.2 Electrical Power Disconnect – Missing / Not Functioning	5	10	108	<input type="checkbox"/>	<input type="checkbox"/>
5.3 Improper Installation	1	2	6	<input type="checkbox"/>	<input type="checkbox"/>
5.4 Fuel Leaks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.5 Emergency Shut Down Switch– Missing / Not Functioning	7	11	100	<input type="checkbox"/>	<input type="checkbox"/>
5.6 Fuel Train Damaged	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.7 Flame Impingement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.8 Improper Combustion Air	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6) Level Indicators - Gage Glasses, Bulls Eyes and Fiber Opticals	High Pressure / High Temperature Boilers (S M E)	Low Pressure Steam Boilers (H)	Hot Water Heating / Supply Boilers (H)	Pressure Vessels (U UM)	Potable Water Heaters (HLW)
6.1 Inoperable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.2 Device Missing - Not Installed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.3 Improper Installation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.4 Leaking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.5 Internal Deposits	<input type="checkbox"/>	7	1	<input type="checkbox"/>	<input type="checkbox"/>
7) Pressure / Temperature Indicators	High Pressure / High Temperature Boilers (S M E)	Low Pressure Steam Boilers (H)	Hot Water Heating / Supply Boilers (H)	Pressure Vessels (U UM)	Potable Water Heaters (HLW)
7.1 Damaged - Inoperable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.2 Device Missing - Not Installed	<input type="checkbox"/>	1	30	<input type="checkbox"/>	5
7.3 Improper Installation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.4 Leaking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.5 Improper Size / Range	<input type="checkbox"/>	<input type="checkbox"/>	8	<input type="checkbox"/>	1
	High Pressure / High Temperature	Low Pressure	Hot Water Heating /	Pressure Vessels	Potable Water

8) Pressure – Retaining Items (PRI) / Boiler-Piping, Pumps, Systems Valves, Expansion Tanks	Boilers (S M E)	Steam Boilers (H)	Supply Boilers (H)	(U UM)	Heaters (HLW)
8.1 Inoperable	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
8.2 Item Missing – Not Installed	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
8.3 Improper Installation	<input type="text" value="5"/>	<input type="text" value="9"/>	<input type="text" value="104"/>	<input type="text"/>	<input type="text" value="10"/>
8.4 Item Leaking	<input type="text" value="2"/>	<input type="text" value="5"/>	<input type="text" value="8"/>	<input type="text"/>	<input type="text"/>
8.5 Improper Repair / Alteration	<input type="text" value="1"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
8.6 Materials Deficiencies	<input type="text" value="5"/>	<input type="text" value="1"/>	<input type="text" value="9"/>	<input type="text"/>	<input type="text"/>
8.7 Required documentation, nameplate-missing or damaged	<input type="text" value="4"/>	<input type="text" value="10"/>	<input type="text" value="116"/>	<input type="text"/>	<input type="text"/>
8.8 Non-ASME Code Construction	<input type="text"/>	<input type="text"/>	<input type="text" value="2"/>	<input type="text"/>	<input type="text" value="7"/>
8.9 Inspection Certificate-missing or expired	<input type="text" value="51"/>	<input type="text" value="104"/>	<input type="text" value="691"/>	<input type="text"/>	<input type="text" value="56"/>
8.10 Testing required	<input type="text" value="13"/>	<input type="text" value="14"/>	<input type="text" value="552"/>	<input type="text"/>	<input type="text" value="1"/>



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

MIKE ZIMMER  
DIRECTOR

(Document BLR2015-3)

**ACCIDENT REPORT MARCH 2015 BOARD MEETING**

BOILER LOCATION	BOILER NUMBER	BOILER TYPE	PRESSURE AND USE	TYPE OF FAILURE	CAUSE OF FAILURE	DAMAGE TO BOILER	NUMBER INJURED	DATE OF FAILURE	DATE OF INVESTIGATION	INSURANCE OR STATE
Bountiful Love Ministries	MIR086395	CI	30	Explosion	No evident cause	Front and left sides of boiler shell blown off.	0	December 7, 2014	December 12, 2014	Insurance

*Providing for Michigan's Safety in the Built Environment*

LARA is an equal opportunity employer  
Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities.  
P.O. BOX 30254 • LANSING, MICHIGAN 48909  
www.michigan.gov/bcc • Telephone (517) 241-9302 • Fax (517) 241-9570

**Accident Report - Boiler or Pressure Vessel**  
 Michigan Department of Licensing and Regulatory Affairs  
 Bureau of Construction Codes / Boiler Division  
 P.O. Box 30254, Lansing, MI 48909  
 517-241-9334

ACCIDENT DATE <b>DECEMBER 7, 2014</b>
<input checked="" type="checkbox"/> BOILER EXPLOSION
<input type="checkbox"/> FURNACE EXPLOSION
<input type="checkbox"/> DRY FIRED
<input type="checkbox"/> OTHER (Explain)

Authority: 1965 PA 290 Completion: Mandatory Penalty: None	LARA is an equal opportunity employer/program. Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities.
--	--

Mail original copy of accident report to the address listed above.

**Boiler Information**

BOILER LOCATION <b>Beautiful Love Ministries</b>				
ADDRESS <b>3432 W. Pasadena</b>	CITY <b>Flint</b>	STATE <b>Michigan</b>	ZIP CODE <b>48504</b>	
OWNER NAME <b>Beautiful Love Ministries</b>				
ADDRESS <b>3432 W. Pasadena</b>	CITY <b>Flint</b>	STATE <b>Michigan</b>	ZIP CODE <b>48504</b>	
BOILER CONSTRUCTION <input type="checkbox"/> WELD <input type="checkbox"/> RIVET <input type="checkbox"/> LAP <input checked="" type="checkbox"/> MECHANICAL ASSEMBLY		BOILER TYPE <input type="checkbox"/> FT <input type="checkbox"/> WT <input checked="" type="checkbox"/> CAST <input type="checkbox"/> OTHER (Specify)		
BOILER MANUFACTURER <b>Wiel McClain</b>				
STATE NUMBER <b>M 086395 M</b>	MFG. SERIAL NUMBER <b>J7</b>	NATIONAL BOARD NUMBER	MAWP	YEAR BUILT <b>1964</b>
SAFETY / RELIEF VALVE INSTALLED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	SET PRESSURE <b>30</b>	ASME / NB STAMPED <input type="checkbox"/> YES <input type="checkbox"/> NO		CAPACITY <b>925000</b>
BOILER USED FOR <input type="checkbox"/> POWER <input type="checkbox"/> PROCESS <input type="checkbox"/> STEAM HEATING <input checked="" type="checkbox"/> HWH <input type="checkbox"/> HWS <input type="checkbox"/> OTHER (Specify)				
CSD-1 TESTING <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA	CSD-1 TEST LAST PERFORMED	BY WHOM		BTU / HR INPUT <b>990000</b>
IS CERTIFICATE CURRENT <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	EXPIRATION DATE <b>6/14/15</b>			
DOES JURISDICTION REQUIRE LICENSED OPERATOR <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	WERE OPERATORS LICENSED OR REGISTERED <input type="checkbox"/> YES <input type="checkbox"/> NO			
TYPE OF BUSINESS WHERE USED <b>Church</b>	NUMBER KILLED <b>0</b>	NUMBER INJURED <b>0</b>		

**Personal Injury**

NAME OF PERSON INJURED	NAME OF PERSON INJURED
ADDRESS OF PERSON INJURED	ADDRESS OF PERSON INJURED
EXTENT OF INJURY	EXTENT OF INJURY
HOSPITALIZED <input type="checkbox"/> YES <input type="checkbox"/> NO	HOSPITALIZED <input type="checkbox"/> YES <input type="checkbox"/> NO

**Witnesses Interviewed**

NAME <b>Kevelin</b>	ADDRESS	CITY <b>Flint</b>	STATE <b>Michigan</b>	ZIP CODE
NAME <b>Ken</b>	ADDRESS	CITY <b>Flint</b>	STATE <b>Michigan</b>	ZIP CODE

**Accident**

PROPERTY DAMAGE (Be Specific. Include dollar amounts. Attach a separate page if necessary)  
 3 square foot section of the left hand section of the cast iron boiler blew out

TYPE OF ACCIDENT (Explosion, Dry Fired, Rupture, etc.)  
 Explosion

DESCRIBE THE CAUSE AND EVENTS WHICH PRECEDED THE ACCIDENT. DESCRIBE IN DETAIL THE EXTENT AND PARTS DAMAGED.  
 Pastor Jones stated that he had just entered the building on 12/7/14 at about 10 AM when he heard a loud boom and the entire building shook. He went to the boiler room and found the room filled with water and steam and the front and left sides of the boiler were blown off

DAMAGE TO BOILER front and left sides of boiler shell are blown off. a 3 sqft section of the cast iron section was blown off	CAN BOILER BE REPAIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	IS REPAIR PERMIT REQUIRED <input type="checkbox"/> YES <input type="checkbox"/> NO

WERE DAMAGED PARTS EXAMINED  
 YES  NO IF NO, WHY NOT

BASED ON YOUR INVESTIGATION, PROVIDE YOUR OPINION OF THE CAUSE OF ACCIDENT  
 I do not know, there was no evident cause

INSPECTOR'S RECOMMENDATION  
 replace boiler

WHAT HAS BEEN DONE OR WILL BE DONE TO PREVENT RECURRENCE OF LIKE OR SIMILAR FAILURES

**Other Investigative Agencies**

WERE OTHER INVESTIGATIVE AGENCIES INTERVIEWED		IS A REPORT AVAILABLE		WERE PHOTOGRAPHS TAKEN		ARE PHOTOGRAPHS ATTACHED TO REPORT	
<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> YES	<input type="checkbox"/> NO
NAME	ADDRESS	CITY	STATE	ZIP CODE			
NAME	ADDRESS	CITY	STATE	ZIP CODE			

**Inspector**

NAME OF INSPECTOR <i>Kirk Mac Donald</i>	LICENSE NUMBER <i>300451</i>	DATE OF REPORT <i>12/12/14</i>
---	---------------------------------	-----------------------------------

Bountiful Love Ministries 3432 W Pasadena Ave , Flint, MI, 48504-2353

**[-] Boiler Details**

Jurisdiction Number \* M1R086395    Status \* Out of Service    Nat'l Bd. No.    Owner or Batter No.  
Other No. 37    Specific Location    Year Built \* 1964  
Year Installed \* 1964    Edit Manufacturer Well McInn    Construction Type \* Mech    Use \* Hot Water Heat  
Boiler Type \* Cast    Method of Firing \* Auto    Fuel \* Gas  
Manhole \* No    Pressure Gauge Installed? \* Yes    Low Water Cutoff Type \* Float  
Power Boiler Ht. Surface \* 0    Min SV Rel Cap Required \* 720000    MRSVC Based On \* Stamp  
Input BTU/HR 900000    Previous Pressure Allowed .30    Certificate Duration (MO) \* 36  
Cert Exp Date \* 06/14/2015    Max Design Temp (HWH, HWS) 250    ASME Stamp \* H  
Exp. Tank Code? Does Not Apply

**[-] Inspection Details**    Current Certificate Expires: 06/14/2015    Inspection Type: External Non-Cert

Condition OK to Issue Cert. \* No    Inspection Date \* 03/08/2013    Pressure Allowed \* (0) 0  
S.V. Tested (Y) Yes    Rule 27 Complied \* No    Safety Valve Set At \* (30) 30    Total Capacity of Safety Valve \* (895000) 895000

**[-] Object/Inspection Comments**

**Inspection Comments**  
Violation Follow-Up/CSD-1 Testing was not complied as required/Cannot operate boiler/Sae Vlo(s)  
Special Fee added to report for non-complied violation follow-up.

**Object Comments**    [Click here to change Object Comments](#)

USE: Hot Water Heat;; SV SET: 30;; INSP AGENCY:HAR; Method of Firing:Automatic; Method of Firing:Auto; Boiler Type:Cast Iron; Boiler Use:Hot Water Heating

**[-] Object History**

**[-] Scheduled Events for this Object**

- [edit](#) Recurring Cert - Next:6/14/2015
- [edit](#) Violation Follow Up - Next:3/18/2013

**[-] Inspection History**

- [View](#) 11/20/97 - Certificate External Inspection - Certificate Issued
- [View](#) 01/02/01 - Certificate External Inspection - Certificate Issued
- [View](#) 03/17/03 - Certificate External Inspection - Certificate Issued
- [View](#) 06/21/06 - Certificate External Inspection - Certificate Issued
- [View](#) 05/26/09 - Certificate External Inspection - Certificate Issued
- [View](#) 06/14/12 - Certificate External Inspection - Boiler Certificate - Certificate Issued
- [View](#) 03/08/13 - Non-Certificate External Inspection

**[-] Past Recommendations and Violations for this Object**

- [View](#) 06/14/12 - Not Certificate Blocking - Annual testing of controls not done - Closed
- [View](#) 06/14/12 - Certificate Blocking - Annual testing of controls not done - Open
- [View](#) 03/08/13 - Certificate Blocking - Cannot operate boiler without certificate. - Open

**[-] Tests**

No Record(s)

**[-] Repairs**

No Record(s)







STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

RICK SNYDER  
GOVERNOR

MIKE ZIMMER  
DIRECTOR

(Document BLR2015-4)

February 10, 2015

To: Members, Board of Boiler Rules  
From: Mark Moore  
Subject: Certificate Extension Request for Lansing Board of Water & Light Boiler  
MIR307809.

The boilers last internal inspection date was November 11, 2014, with the current certificate expiring on November 11, 2016.

Lansing Board of Water & Light is requesting a continuance of the extended certificate approval to extend until November 11, 2016 for subject boiler. I have attached copies of the boiler division's database.

*Providing for Michigan's Safety in the Built Environment*

LARA is an equal opportunity employer  
Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities.  
P.O. BOX 30254 • LANSING, MICHIGAN 48909  
www.michigan.gov/bcc • Telephone (517) 241-9302 • Fax (517) 241-9570



December 9, 2014

State of Michigan  
Department of Licensing and Regulatory Affairs – Boiler Division  
2501 Woodlake Circle  
Okemos, MI

Attention: Mr. Mark Moore

Subject: BOILER 1 CERTIFICATE REVIEW, STATE NO. MIR307809  
ERICKSON STATION, LANSING BOARD OF WATER & LIGHT

Dear Mr. Moore:

Please accept the attached Boiler Certificate Review for the 24 Month Certificate Approval of Erickson Station Boiler No 1, Michigan Boiler No. MIR307809. The Boiler Certificate Meeting was completed on December 9, 2014. We would appreciate consideration for allowing submittal of this and future documentation from the Boiler board Review of 24 Month Certificate Approval and look forward to your thoughts and acceptance.

If you have any questions or concerns, please advise.

Sincerely

A handwritten signature in black ink, appearing to read 'Joseph Andrejczuk', is written over the typed name.

Joseph Andrejczuk  
Welding Quality Control Manager  
Lansing Board of Water & Light



BOILER 1 CERTIFICATE REVIEW, STATE NO. MIR307809  
 ERICKSON STATION, LANSING BOARD OF WATER & LIGHT  
 December 9, 2014

BOILER BOARD OF REVIEW 24-MONTH CERTIFICATE APPROVAL

		Certificate Approval
JOSEPH ANDREJCZUK	WELDING QC MGR, ERICKSON	<i>Joe Andrejczuk</i>
ROGER SIMMONS	OUTAGE PLANNER	<i>Roger Simmons</i>
THOMAS LACK	BOILER CHEMISTRY	<i>Thomas Lack</i>
DAVID KLEMISH	OPERATIONS-TRAINING	<i>David Klemish (DRS)</i>
DAN SMITH	OPERATIONS	<i>Dan Smith</i>
LEE NIM	INSTRUMENT CONTROL	<i>Lee Nim</i>
JOHN RZEPKA	AUTH. INSPECTOR, FM GLOBAL	<i>John Rzepka</i>

PURPOSE:

The purpose of the "Boiler Board of Review" is to determine the acceptability of a boiler to operate safely for a 24-month period. The Boiler Board of Review shall have access to and review all information pertaining to past operation, maintenance, and repair of the boiler. The review shall be conducted within 30 days after the internal inspection to determine the date of the next scheduled complete internal inspection of boiler.

The establishment of the Boiler Board of Review allows, upon justification, the utility to extend complete off-line internal inspection to a maximum of 24 months. The Boiler Board of Review may decrease the period of time the boiler may operate, but shall not extend the period beyond 24 months. An on-line external inspection of the boiler will occur 12 months +/- 60 days after the last internal inspection.

TABLE OF CONTENTS:

	Page
BOILER REVIEW BOARD	2
PURPOSE, MAINTENANCE WORK, OPERATIONS, OPERATOR TRAINING, BOILER WATER CHEMISTRY, INSTRUMENT & CONTROL	2
IMPORTANT DATES	4
RE-INSPECTION REPORT-BOILER 1 BY J. RZEPKA, FM Global	ATTACHMENT
BOILER INSPECTION REPORT DATED November 26, 2014	ATTACHMENT
"ERICKSON OUTAGE 2014", Work and Work Orders	ATTACHMENT
SAFETY VALVES INSPECTION, REPAIR, and TEST REPORTS	ATTACHMENT
BOILER WATER CHEMISTRY	5

Note: Attachments are available upon request.



## MEETING SUMMARY

### MAINTENANCE WORK

The insurance inspection for above titled boiler was completed on November 11, 2014. Mr. John Rzepka of FM Global, and myself (Joseph Andrejczuk) completed the inspection.

In general, the boiler system was found to be in satisfactory condition. The steam drum had a modest amount of black scale, about 5 gallons of sediment accumulation in the center of the drum.

Additional repair highlights included the following:

- Replacement of the boiler main steam exit nozzle.
- Replacement of the main steam stop valve.
- Boiler Safety Valves were inspected, repaired where necessary, and test operated.
- Replaced air heater baskets in A& B air heaters
- Boiler bottom ash pit replaced spray nozzles.
- Explosive blast cleaned of primary superheater, economizer, and hot reheat pendant section.
- The division wall tube connections from the upper headers to the drum were inspected with no major discontinuities.

Future planned repairs include the following:

- Repair ash seal leaks in penthouse
- Explosive blast clean cold reheat pendant section. Continue to explosive blast clean primary superheater section.

### OPERATIONS

Boiler is operated within the design envelope of the OEM and there have been no reported excursions of the operating design parameters. Per the boiler inspection of November 11, 2014, there is no issue present at the time of the inspection that would result in preventing the unit from receiving approval for an up to 24-month operational run between internal inspections. Therefore, the next certificate inspection will be on or prior to November 11, 2015 and the next internal inspection will be on or prior to November 11, 2016.

This evaluation is based upon on the above-completed inspection and maintenance work completed during the extended outage for the subject boiler system.



**OPERATOR TRAINING**

Operator training for renewal of operator's certification is a continuous process. The most recent recertification testing was completed May 2014.

**BOILER WATER CHEMISTRY**

Boiler is operated within the design envelope of the OEM as it relates to the water treatment of the unit. There have been no reported excursions of the operating design parameters. The boiler was chemically cleaned in January of 2011. A division wall water wall tube sample was taken for water chemistry analysis.

**INSTRUMENT & CONTROL**

Boiler controls and safety devices were tested and main fuel trips were verified during the outage. All controls and MFT were verified to operate satisfactorily. Instrument and Repair Group of LBWL verified all Master Fuel Trips as operational.

All safety valves were inspected and overhauled as necessary by Renew Valve. Work included replacement of discs and lapping of the nozzle of each valve and a set pressure test prior to the boiler being returned to service. No other adverse conditions were noted.

**IMPORTANT DATES:**

**Table 1 BOILER 1 IMPORTANT DATES**

	Date
Boiler Internal Inspection	November 11, 2014
Boiler Outage Schedule	Oct 3, 2014 to Nov 14, 2014
Next Proposed Outage Schedule	Oct 21, 2016 to Dec 2, 2016
State Expiration Date	November 11, 2015
Next External Inspection	November 11, 2015
Next Internal Inspection	November 11, 2016
Last/Next Boiler internal chemical cleaning	2011/2018



Boiler Water Chemistry Guidelines - 2014  
Erickson Station

Boiler Steam Drum	
pH	9.2 to 9.6
Specific Conductivity	<50 ideal, <100 satisfactory, 100-150 action 0-150 umhos
Phosphate	0.2 to 3 ppm
Silica	<0.5 ppm

Economizer	
pH	8.8 to 9.2
Specific Conductivity	<5 umhos
GE Betz Control OS 5614	10 to 50 ppb as hydrazine

Deaerator	
pH	8.8 to 9.2
Specific Conductivity	<5 umhos
Dissolved Oxygen	<2 ppb

Condensate	
pH	8.8 to 9.2
Specific Conductivity	<10 umhos
Total Dissolved Hardness	0.0 as CaCO <sub>3</sub>
Ammonia	<.45 ppm

Make-up water	
Specific Conductivity	<1.0 umhos
Total Dissolved Hardness	0.0 as CaCO <sub>3</sub>
Ammonia	<0.3ppm
Silica	<20 ppm

- All critical water chemistry parameters have continuous instrumentation which is manually monitored by the plant laboratory staff.
- Drum chemistry monitored 24 hours continuously, 4 manual tests performed daily every 6 hours every day unit is online.
- The instrumentation has routine calibration performed as required.
- The boiler feed water is analyzed twice per week during operation.
- One boiler chemistry technician is trained and qualified.

[-] Boiler Details

Jurisdiction Number \* MIR307809    Status \* Active    Nat'l Bd. No. 23168    Owner or Batter No. \_\_\_\_\_

Other No. \_\_\_\_\_    Specific Location Bfr Rm Unit 1    Year Built \* 1971

Year Installed \* 1972    Edit Manufacturer Babcock & Wilcox    Construction Type \* Weld    Use \* Power Boiler

Boiler Type \* Water Tube    Method of Firing \* Auto    Fuel \* Coal

Manhole \* Yes    Pressure Gauge Installed? \* Yes    Low Water Cutoff Type \* Probe

Power Boiler Ht. Surface \* 47935    Min SV Rel Cap Required \* 1100000    MRSVC Based On \* Stamp

Input BTU/HR 200922000    Previous Pressure Allowed 2150    Certificate Duration (MO) \* 24

Cert Exp Date \* 11/11/2016    Max Design Temp (HWH, HWS) 0    ASME Stamp \* S

Exp. Tank Code? Does Not Apply

[-] Inspection Details

Current Certificate Expires: 11/11/2016    Inspection Type: Internal Cert

Condition OK to Issue Cert. \* Yes    Inspection Date \* 11/11/2014    Pressure Allowed \* (2125) 2125

S.V. Tested (Y) Yes    Rule 27 Complied \* N/A    Safety Valve Set At \* (2000) 2000    Total Capacity of Safety Valve \* (1184598) 1184598

[-] Object/Inspection Comments

**Inspection Comments**

\*\*ATTENTION: Mark Moore, boiler is on a 24 Month Internal Inspection Program (MIP), and this inspection will reset the 24 MIP calendar for this unit. The next internal inspection will be on or prior to 11/11/2016. There will be a non-certificate external inspection on or about 11/11/2015.

This outage began 10/03/2014 and the boiler is expected to be back in service by 11/16/2014. During the outage the O/U had replaced the main steam spool piece section of the main steam line from the superheat outlet connection. The spool piece reduces the steam line to 18

**Object Comments** [Click here to change Object Comments](#)

USE: Power Boiler;; SV SET: 2000;; INSP AGENCY: INSP AGENCY: FM GLOBAL;; MAWP: 2125;; LAST INT D/ISP: 11/11/2014;; NEXT INTERNAL INSP: 11/11/2016;; CERT EXP: 11/11/2016;; LANSING BOARD OF WATER & LIGHT - ERICKSON STATION;; BTU/HR INPUT: 200922000;; SAFETY AND CONTROLS TESTING COMPLETED: 01/2011;; Method of Firing:Automatic; Method of Firing:Auto; LWCO Type:Pressure Differential; Construction:Welded; SV Capacity Type:LB/HR; Boiler Type:Water Tube; Boiler Use:Power

[-] Object History

[-] Scheduled Events for this Object

edit Recurring Cert - Next:11/11/2016

[-] Inspection History

- [View](#) 12/15/04 - Non-Certificate External Inspection
- [View](#) 07/20/05 - Certificate External Inspection - Generic MI Cert Fee - Boiler - Certificate Issued
- [View](#) 11/10/05 - Certificate External Inspection - Certificate Issued
- [View](#) 04/08/06 - Certificate Internal Inspection - Certificate Issued
- [View](#) 10/30/07 - Certificate Internal Inspection - Certificate Issued
- [View](#) 09/10/08 - Certificate Internal Inspection - Certificate Issued
- [View](#) 10/29/08 - Certificate External Inspection - Generic MI Cert Fee - Boiler - Certificate Issued
- [View](#) 05/10/09 - Certificate Internal Inspection - Generic MI Cert Fee - Boiler - Certificate Issued
- [View](#) 06/28/10 - Certificate External Inspection - Boiler Certificate - Certificate Issued
- [View](#) 01/19/11 - Certificate Internal Inspection - Boiler Certificate - Certificate Issued
- [View](#) 03/15/12 - Non-Certificate External Inspection
- [View](#) 12/19/12 - Certificate Internal Inspection - Boiler Certificate - Certificate Issued
- [View](#) 07/16/14 - Non-Certificate External Inspection
- [View](#) 11/11/14 - Certificate Internal Inspection - Boiler Certificate - Certificate Issued

[-] Past Recommendations and Violations for this Object

No Record(s)

[-] Tests

No Record(s)

[-] Repairs

No Record(s)



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

MIKE ZIMMER  
ACTING DIRECTOR

(Document BLR2015-5)

February 16, 2015

To: Members, Board of Boiler Rules  
From: Mark Moore  
Subject: Verso Paper Corporation, Quinnesec facility request for 24-month internal inspection frequency.

Dear Members:

Verso Paper Corporation has requested a 24-month internal frequency for the boiler MIR342395. I have attached the request and Verso Paper Corporation's Waste Fuel Boiler Internal Inspection Interval program, which incorporates the 24-month internal inspection requirements as established by the Boiler Board. I have also attached the inspection/insurance agency letter concurring with the request.

Based on information submitted for this request I am recommending a motion by the Board of Boiler Rules for the inspection certificate frequency for subject boiler be 24 months commencing with the next internal certificate inspection of boiler MIR342395.

*Providing for Michigan's Safety in the Built Environment*

LARA is an equal opportunity employer  
Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities.  
P.O. BOX 30254 • LANSING, MICHIGAN 48909  
www.michigan.gov/bcc • Telephone (517) 241-9334 • Fax (517) 241-6301



Verso Paper Corp.  
Quinnesec Mill  
P.O Box 241  
Norway, MI 49876

Received

DEC 09 2014

Boiler Division

December 4, 2014

Attn: Mr. Mark Moore  
Bureau of Construction Codes - Boiler Division  
P.O Box 30254  
Lansing, MI 48909

RE: Request for 24 month Internal Inspection for Boiler MIR342395

Dear Mr. Moore,

As the designated representative for the Verso Paper, Quinnesec Mill, I would like to request that Boiler ID Michigan State #R342395, NB #/MFG#:24667, commonly referred to as the Waste Fuel Boiler, be granted a 24 month internal inspection frequency as described in Regulation R408.4058. This boiler was manufactured by B&W; installation began in 1982 and the boiler was commissioned in 1985.

On November 5, 2014 a committee was assembled to review regulation R408.4058. After developing a common understanding of the regulation requirements, the committee reviewed 2014 as well as historical outage inspection reports, maintenance findings and boiler inspector findings. It is the consensus of the committee that the boiler integrity, maintenance practices and operating practices meet the criteria to operate the boiler up to 24 months between internal boiler inspections. Enclosed are the committee members and their signatures endorsing this request. In addition, a second enclosed document briefly explains Quinnesec's key practices that the committee reviewed and believes satisfies specific requirements of Regulation R408.4058 .

The committee respectfully requests that the Board of Boiler rules find favorably with their recommendation and grant Boiler ID Number Michigan State #R342395, the status which allows for up to 24 month internal boiler inspection frequency. If there is any additional information you feel would assist in clarifying any concern regarding this request, please contact me.

Respectfully,

A handwritten signature in black ink, appearing to read 'Alex Claverie', written over a white background.

Alex Claverie  
Manager of Recovery and Utilities  
Verso – Quinnesec Mill  
906-779-3350

CC: Ms. Cindy Elliot, FM Account Manager

Verso simple.™



**24 Months Internal Inspection Waste Fuel Boiler Review  
Committee Members  
11/5/2014**

FM Global Boiler Inspector – Matt Wouters  
R&U Area Manager – Alex Claverie  
WFB Coordinator – Eric Dykhuis  
Process Control Engineer – Greg Brownson  
Process Engineer – Greg Kulas  
Mechanical Engineer – Don Nurmela  
Maintenance Coordinator -Bob Coughlin  
Verso Energy Representative – Majed Ja'arah  
Water Treatment Consultant - Nalco – Jim Petroff  
Mechanical Maintenance Rep – Robert Artrip  
Elect. and Inst. Maint. Rep - Bill Altenburg

*[Handwritten signature: Matt Wouters]*  
*[Handwritten signature: Alex Claverie]*  
*[Handwritten signature: Eric Dykhuis]*  
*[Handwritten signature: Greg Brownson]*  
*[Handwritten signature: Greg Kulas]*  
*[Handwritten signature: Don Nurmela]*  
*[Handwritten signature: Bob Coughlin]*  
*[Handwritten signature: Majed Ja'arah]*  
*[Handwritten signature: Jim Petroff]*  
*[Handwritten signature: Robert Artrip]*  
*[Handwritten signature: Bill Altenburg]*



**Summary of Critical plant operation aspects required for Regulation R408.4058**

**Training**

Operator training consists of a regimented certification process as well as annual refresher training. The certification process outlined in the chart below lists the required certifications and typical time required to achieve proficiency as a boiler operator, control room operator as well as team leader. Each certification step requires a book review culminating with trainee and trainer signatures of accomplishment. In addition, a safety and technical review board is conducted by area management, training coordinators and team leaders to confirm each candidate has acquired conceptual knowledge as well as task specific knowledge required for each job. Completed training guides are retained as a part of the member's permanent record.

<b>Position</b>	<b>Training time required to solo on job</b>	<b>Total time required to train for certification</b>
<b>R&amp;U Team Leader</b>	2 months	<b>12 - 18 months</b>
<b>R&amp;U Control Room Operator</b>	4-5 months	<b>12 - 18 months</b>
<b>Recovery Boiler Operator</b>	3 months	<b>9-12 months</b>
<b>Waste Fuel Boiler Operator</b>	3 months	<b>9-12 months</b>
<b>Waste Water Treatment Plant Operator</b>	3 months	<b>9-12 months</b>
<b>Water Plant Operator</b>	3 months	<b>6-9 months</b>
<b>Outside Utility</b>	2 weeks	<b>2 months</b>
<b>Inside Utility</b>	1 week	<b>1 month</b>
<b>Boiler Helper</b>	4-6 weeks	<b>3 months</b>

Annual refresher training involves reviewing a variety of critical procedures and “What If” scenarios each year. The annual required list is rotated so that all critical procedures and scenarios are reviewed periodically. The refresher training is internally referred to as 3PQP.

**Boiler Maintenance**

Boiler maintenance practices covering all critical mechanical, electrical and safety systems are dictated by “Verso Policy Manual”. These policies and best practices have been developed for corporate wide implementation by subject matter experts. The procedures define both required maintenance and the required frequency. Any deviation from established policy must be requested and approved by the corporate power technology group prior to a required scheduled task. Each site maintains a current copy of these procedures.



Repairs to pressure parts are completed by Outside contractors that maintain current R – Stamp certification. Pressure safety relief devices are tested annually and certified by a qualified VB Stamp contractor.

### **Water Chemistry**

Boiler feed water chemistry is diligently controlled by trained and qualified operators. Water parameters are monitored using on line continuous instrumentation as well as periodic testing. Period manual test results are logged into a computerized data base for historical archiving. Standard operating procedures and emergency operating procedures guide the operator's response in the event of a process upset. These procedures are maintained in a controlled document management system and are available to all operators on Quinnesec's Intranet site. In addition, a resident specialty chemical service engineer reviews daily key feed water parameters and chemical dose rates. A monthly report is provided that describes water chemistry control and any abnormalities. The specialty chemical supplier completes an internal boiler inspections and a DWD analysis during major maintenance outages.

### **Operating Parameters**

Operational parameters are defined for all critical parameters. Parameters ranges are maintained and available for operator review in our PI and Proficy database systems. Critical operating parameters have hard coded alarm limits in the Distributive Control System as well as in our Parameter Center lining System. Burner management control devices critical for safe operation, alarm and report to a separately maintained burner management system. These operating devices and systems are functionally checked each major maintenance outage.

### **Chemical Cleaning Schedule**

Chemical cleaning frequency is dictated by "Verso Policy Manual". These policies and best practices have been developed for corporate wide implementation by subject matter experts. The procedure defines the required chemical cleaning frequency either by internal deposit analysis (DWD) limits or a maximum time interval between cleanings. Any deviation from established policy must be requested and approved by the corporate power technology group prior to a required scheduled cleaning. Each site maintains a current copy of this procedure.

### **Protective Devices**

Protective devices and functional system checks are conducted during each maintenance outage. Boiler trip devices, functional logic, and mechanical pressure relief devices are tested to confirm compliance with NFPA guidelines and FM Global requirements. Completed Emergency Shutdown test devices, boiler trip check sheets, instrument calibration and safety valve conformance reports are maintained for historical records.



### **Boiler External Inspection**

Hydrostatic testing of the boiler is conducted annually during a cleaning cycle. During these tests, the external portion of the boiler is inspected as well as visible internal section through door opening s. In addition, twice daily an operating, “quite time”, no sootblower operation, full operating pressure walk down leak inspections are conducted.

In addition to in-house external inspections, every 12 months, FM Global boiler inspector performs an external boiler inspection.

[-] Boiler Details

Jurisdiction Number \* MIR342395    Status \* Active    Nat'l Bd. No. 24667    Owner or Batter No. \_\_\_\_\_

Other No. \_\_\_\_\_    Specific Location Waste Fuel Boiler    Year Built \* 1982

Year Installed \* 1985    Edit Manufacture Babcock & Wilcox    Construction Type \* Weld    Use \* Power Boiler

Boiler Type \* Water Tube    Method of Firing Auto    Fuel \* Other Solid

Manhole \* Yes    Pressure Gauge Installed? Yes    Low Water Cutoff Type Probe

Power Boiler Ht. Surface \* 41670    Min SV Rel Cap Required \* 405000    MRSVC Based On \* Stamp

Input BTU/HR 0    Previous Pressure Allowed 800    Certificate Duration (MO) \* 12

Cert Exp Date \* 10/15/2015    Max Design Temp (HWH, HWS) 0    ASME Stamp \* S

Exp. Tank Code? Does Not Apply

\* Required Field

[-] Inspection Details

Current Certificate Expires: 10/15/2015

Inspection Type: Internal Cert

Condition OK to Issue Cert. \* Yes    Inspection Date \* 10/15/2014    Pressure Allowed \* (800) 800

S.V. Tested (Y) Yes    Rule 27 Complied \* N/A    Safety Valve Set At \* (800) 800    Total Capacity of Safety Valve \* (41355) 413559

\* Required Field

[-] Object/Inspection Comments

Inspection Comments:

The condition of the boiler is in satisfactory condition for continued operation on a 24 month inspection frequency. The certificate duration was modified from 12 months to 24 months based upon a jurisdictional extension approval from the State of Michigan to go to a 24 month inspection frequency.

Object Comments [Click here to change Object Comments](#)

USE: Power Boiler;; SV SET: 675;; INSP AGENCY:FM GL; Method of Firing:Automatic; Method of Firing:Auto; LWCO Type:Probe Type; Construction:Welded; SV Capacity Type:LB/HR; Boiler Type:Water Tube; Boiler Use:Power

[-] Object History

[-] Scheduled Events for this Object

[edit](#) External Non-Cert - Next:10/15/201

[edit](#) Internal Cert - Next:10/15/2015

[-] Inspection History

- [View](#) 09/14/04 - Certificate Internal Inspection - Generic MI Cert Fee - Boiler - Certificate Issued
- [View](#) 02/17/05 - Non-Certificate External Inspection
- [View](#) 09/29/05 - Certificate Internal Inspection - Generic MI Cert Fee - Boiler - Certificate Issued
- [View](#) 02/07/06 - Non-Certificate External Inspection
- [View](#) 09/12/06 - Certificate Internal Inspection - Generic MI Cert Fee - Boiler - Certificate Issued
- [View](#) 02/28/07 - Non-Certificate External Inspection
- [View](#) 09/25/07 - Certificate Internal Inspection - Generic MI Cert Fee - Boiler - Certificate Issued
- [View](#) 02/20/08 - Non-Certificate External Inspection
- [View](#) 09/23/08 - Certificate Internal Inspection - Generic MI Cert Fee - Boiler - Certificate Issued
- [View](#) 02/26/09 - Non-Certificate External Inspection
- [View](#) 10/20/09 - Certificate Internal Inspection - Generic MI Cert Fee - Boiler - Certificate Issued
- [View](#) 02/18/10 - Non-Certificate External Inspection
- [View](#) 09/28/10 - Certificate Internal Inspection - Boiler Certificate - Certificate Issued
- [View](#) 03/02/11 - Non-Certificate External Inspection
- [View](#) 08/23/11 - Certificate Internal Inspection - Boiler Certificate - Certificate Issued
- [View](#) 05/18/12 - Non-Certificate External Inspection
- [View](#) 08/14/12 - Certificate Internal Inspection - Boiler Certificate - Certificate Issued
- [View](#) 07/09/13 - Non-Certificate External Inspection
- [View](#) 08/21/13 - Certificate Internal Inspection - Boiler Certificate - Certificate Issued    [Review Comment](#)
- [View](#) 11/08/13 - Non-Certificate External Inspection
- [View](#) 10/15/14 - Certificate Internal Inspection - Boiler Certificate - Certificate Issued

[-] Past Recommendations and Violations for this Object

No Record(s)

[-] Tests

No Record(s)

[-] Repairs

No Record(s)