



RICK SNYDER  
GOVERNOR

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

STEVE ARWOOD  
DIRECTOR

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

**AGENDA**  
December 10, 2013  
9:30 a.m.

- |   |  |            |
|---|--|------------|
| 1) Call to order and determination of quorum  |  | R. Jenkins |
| 2) Announcements  |  | M. Moore   |
| 3) Approval of Agenda – December 10, 2013 (Pages 1-2)   |  | R. Jenkins |
| 4) Approval of Minutes – September 10, 2013 (Pages 3-8)   |  | R. Jenkins |
| 5) Approval of 2014 License examination and Board of Boiler Rules meeting Dates (Page 9)                | (Document BLR2013-23)                                  | R. Jenkins |
| 6) Review of candidates passing examination for boiler Installer and Repairer, December 2013 (Page 10)  | (Document BLR2013-24)<br>(To be handed out at meeting) | M. Moore   |
| 7) Review candidate successfully passing written examination for boiler operator registration (Page 11) | (Document BLR2013-25)                                  | M. Moore   |
| 8) Accidents (Page 12-33)   | (Document BLR2013-26)                                  | M. Moore   |
| 9) Violations (Page 34-37)  | (Document BLR2013-27)                                  | M. Moore   |
| 10) Chief Inspector's Report  |  | M. Moore   |
| 11) Deputy Director Report  |  | K. Lambert |

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- 12) Unfinished Business  
Qualified Education Program (QTEP) Vocational  
Institute of Michigan (Page 38-39) (Document BLR2013-12) M. Moore
  - 13) New Business R. Jenkins
  - 14) Public Comment
  - 15) Next Meeting – Tuesday, TBA - March , 2014 R. Jenkins
  - 16) Adjournment
-



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

**MINUTES**  
September 10, 2013  
9:30 a.m.

**MEMBERS PRESENT**

Mr. Eric E. Cameron  
Mr. R. James Federighe  
Mr. Robert Hutsell  
Mr. Roger D. Jenkins  
Mr. A. Chris Lanzon  
Mr. James B. Lewis  
Mr. Michael K. Muterspaugh  
Mr. Dennis Rupert  
Mr. Frank Wiechert

**MEMBERS ABSENT**

Mr. Mark C. Babcock

**DEPARTMENT PERSONNEL ATTENDING**

Mr. William Vallance, Chief, Boiler Division  
Mr. Mark Moore, Assistant Chief, Boiler Division  
Ms. Lisa Rambo, Office Supervisor, Boiler Division  
Mr. Keith Lambert, Deputy Director, Bureau of Construction Codes

**OTHERS IN ATTENDANCE**

Matt Jordan, Michigan State University  
John Van Oenen, Marathon Petroleum  
Michael Horton, Steam Tractor Assoc  
Drew Johnson, Vocational Institute of Michigan  
Steve Johnson, Vocational Institute of Michigan

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

Chairperson Jenkins called the meeting to order at approximately 9:35 a.m. A quorum was determined present at that time.

2. **ANNOUNCEMENTS**

Senior Inspector Steve Ayotte's last day with the division was Friday, September 6<sup>th</sup>. There is an opening for one Deputy Inspector for Oakland County.

3. **APPROVAL OF AGENDA**

A **MOTION** was made by board member Lewis and board member Hutsell seconded the motion to approve the September 10, 2013 agenda. **MOTION CARRIED.**

4. **APPROVAL OF MINUTES**

A **MOTION** was made by board member Lanzon and board member Muterspaugh seconded the motion to approve the minutes of the June 11, 2013 meeting. **MOTION CARRIED.**

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

Board reviewed the September 2013 examination results, listed in Document BLR2013-14.

A **MOTION** was made by board member Lanzon and board member Cameron seconded the motion to approve names on document BLR2013-14 for issuance of the license application to the examinees on September 2013 examination. (Document BLR2013-14). **MOTION CARRIED.**

**6. REVIEW OF CHIEF INSPECTOR'S RECOMMENDATION FOR ISSUANCE OF BOILER OPERATOR REGISTRATION FOR BOILER STATIONARY ENGINEERS**

Board reviewed the recommendation for issuance of Boiler Operator Registration for the 3<sup>rd</sup> Class registration listed in Document BLR2013-15.

A **MOTION** was made by board member Muterspaugh and board member Rupert seconded the motion to approve the issuance of the Boiler Operator Registration for the 3<sup>rd</sup> Class registration. (Document BLR2013-15). **MOTION CARRIED.**

**7. CANDIDATE FOR ORAL EXAMINATION PANEL MEMBER**

Board reviewed the recommendation for Mr. John H. Van Oenen listed in Document BLR2013-16.

A **MOTION** was made by board member Hutsell and board member Lanzon seconded the motion to approve Mr. John H. Van Oenen as a panel member for the oral examination. (Document BLR2013-16). **MOTION CARRIED.**

**8. RE-QUALIFICATION OF SECTION 23**

a. Board reviewed the recommendation of re-qualification of Section 23 for Verso Paper Corporation listed in Document BLR2013-17.

A **MOTION** was made by board member Hutsell and board member Lewis seconded the motion to approve the re-qualification of Section 23 for Verso Paper Corporation. (Document BLR2013-17). **MOTION CARRIED.**

b. Board reviewed the recommendation of re-qualification of Section 23 for Presque Isle Power Plant listed in Document BLR2013-18.

A **MOTION** was made by board member Muterspaugh and board member Hutsell seconded the motion to approve the re-qualification of Section 23 for Presque Isle Power Plant. (Document BLR2013-18). **MOTION CARRIED**

**9. QUALIFICATION OF SECTION 23**

Board reviewed the recommendation for qualification of Section 23 for Midland Cogeneration Venture listed in Document BLR2013-19.

A **MOTION** was made by board member Lanzon and board member Lewis seconded the motion to approve the qualification of Section 23 for Midland Cogeneration Venture (Document BLR2013-19). **MOTION CARRIED.**

**10. 24 MONTH INTERNAL PROGRAM**

The board reviewed the recommendation for Verso Paper Corporation 24 month internal program listed in Document BLR2013-20.

A **MOTION** was made by board member Hutsell and board member Muterspaugh seconded the motion to approve Verso Paper Corporation 24 month internal program. (Document BLR2013-20). **MOTION CARRIED.**

**11. VIOLATION**

The board reviewed the violations issued on Document BLR2013-21.

**Received and Filed**

**12. ACCIDENT REPORT**

The board reviewed the accident report for Edsel & Eleanor Ford House Document BLR2013-22.

**Received and Filed.**

**13. CHIEF INSPECTOR'S REPORT – WILLIAM VALLANCE**

- a. Board member Federighe from Northern Boiler working with Bill to clean up a boiler install issue.
- b. Board member Jenkins and board member Cameron term are expiring; they will continue attending the board meetings until further notice.
- c. Operator examination the law states two board members must attend.
- d. Bill Vallance announced his retirement as of September 27, 2013.
  - i. Board member Lewis stated he would like to recognize Bill for his continuing service and that he was a great support to the Board of Boiler Rules.

**14. DEPUTY DIRECTOR REPORT – KEITH LAMBERT**

Thanked Bill for all his years of service.

In order to change the operator examination and who needs to be present during the examination a committee should come together prior to taking the rule change to the legislative.

**15. UNFINISHED BUSINESS**

The Board reviewed the recommendation for Vocational Institute of Michigan Qualified Education Program (QTEP) listed in Document BLR2013-12.

Board member Lewis request the Boiler Division report to the Board at the next board meeting.

A **MOTION** was made by board member Lanzon and board member Lewis seconded the motion to approve Vocational Institute of Michigan Qualified Education Program (QTEP) upon passing the audit by the Boiler Division, a designee to conduct the review of the R408.763c, 13c on the behalf of the Board of Boiler Rules. (Document BLR2013-12). **MOTION CARRIED.**

**16. NEW BUSINESS**

**None Reported**

**17. PUBLIC COMMENT**

**No Public Comment**

**18. NEXT MEETING – Tuesday – December 10, 2013.**

**19. ADJOURNMENT**

A **MOTION** was made by board member Lanzon and board member Lewis seconded the motion to adjourn the meeting at approximately 11:38 a.m. **MOTION CARRIED.**

**APPROVED:**

\_\_\_\_\_  
Chairman, Board of Boiler Rules

\_\_\_\_\_  
Date

**DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES**

Boiler Division  
2501 Woodlake Circle  
Okemos, MI 48864  
(517) 241-9334

**2014 Schedule of Board of Boiler Rules Meetings and Examinations**

**BOARD MEETINGS**

<b>Board Date</b>	<b>Location</b>	<b>Time</b>
March 11th	Okemos – Conference Room 3	9:30 AM
June 10 <sup>th</sup>	Okemos – Conference Room 3	9:30 AM
September 9 <sup>th</sup>	Okemos – Conference Room 3	9:30 AM
December 9th	Okemos – Conference Room 3	9:30 AM

**EXAMINATION DATES**

Date and locations are subject to change.

**Boiler Installer & Repairer License Exam Dates**

<b>Exam Date</b>	<b>Location</b>	<b>Application Deadline Date</b>
March 5 <sup>th</sup> & 6 <sup>th</sup>	Okemos	February 7, 2014
June 4 <sup>th</sup> & 5 <sup>th</sup>	Okemos	May 9, 2014
September 3rd & 4 <sup>th</sup>	Okemos	August 8, 2014
December 3rd & 4 <sup>th</sup>	Okemos	November 7, 2014

The meeting site and parking is accessible. Individuals attending the meeting are requested to refrain from using heavily scented personal care products, in order to enhance accessibility for everyone. People with disabilities requiring additional services (such as materials in alternative format) in order to participate in the meeting should call Lisa Rambo at (517) 241-9334 at least 10 work days before the event. LARA is an equal opportunity employer/program.



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## To Be Handed Out at Meeting

### Installer / Repairer Examination

(Document BLR2013-24)

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(Document BLR2013-25)

November 14, 2013

To: Members, Board of Boiler Rules

From: Mark Moore  
Chief Boiler Inspector

Subject: **List of Operator Registration who passed the High Pressure examination.**

NAME	EXAMINATION CLASS	EXAMINATION DATE
Adam Ericson	High Pressure	September 4, 2013

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(Document BLR2013-26)

ACCIDENT REPORT DECEMBER 2013 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
Saginaw City Hall	MIR331257	FT	15	Dry Fire	Water up to Hot Pass Tubes and excessive leakage	Replace hot pass tubes, safety limit switch, relief valve, pressure gauge, & refractory floor of boiler	0	February 4, 2013	August 13, 2013	Insurance
Davison Middle School	MIR378821	FT	15	Dry Fire	Glowing red at the top flange and shut off the gas.	Unknown	0	March 2013	July 17, 2013	State of Michigan

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**Accident Report - Boiler or Pressure Vessel**  
 Michigan Department of Energy, Labor Economic Growth  
 Bureau of Construction Codes / Boiler Division  
 P.O. Box 30254, Lansing, MI 48909  
 517-241-9334

ACCIDENT DATE <b>2-4-2013</b>
<input type="checkbox"/> BOILER EXPLOSION
<input type="checkbox"/> FURNACE EXPLOSION
<input checked="" type="checkbox"/> DRY FIRED
<input type="checkbox"/> OTHER (Explain)

Authority: 1965 PA 290 Completion: Mandatory Penalty: None	DELEG is an equal opportunity employer/program. Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities.
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Mail original copy of accident report to the address listed above.

**Boiler Information**

BOILER LOCATION <b>SAGINAW CITY HALL</b>				
ADDRESS <b>1315 S. WASHINGTON AVE.</b>	CITY <b>SAGINAW</b>	STATE <b>MI</b>	ZIP CODE <b>48605</b>	
OWNER NAME <b>SAGINAW CITY GOVERNMENT</b>				
ADDRESS <b>1315 S. WASHINGTON AVE.</b>	CITY <b>SAGINAW</b>	STATE <b>MI</b>	ZIP CODE <b>48605</b>	
BOILER CONSTRUCTION <input checked="" type="checkbox"/> WELD <input type="checkbox"/> RIVET <input type="checkbox"/> LAP <input type="checkbox"/> MECHANICAL ASSEMBLY		BOILER TYPE <input checked="" type="checkbox"/> FT <input type="checkbox"/> WT <input type="checkbox"/> CAST <input type="checkbox"/> OTHER (Specify)		
BOILER MANUFACTURER <b>KEWANEE</b>				
STATE NUMBER <b>M 331257 M</b>	MFG. SERIAL NUMBER	NATIONAL BOARD NUMBER <b>32524</b>	MAWP <b>15</b>	YEAR BUILT <b>1979</b>
SAFETY / RELIEF VALVE INSTALLED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	SET PRESSURE <b>15</b>	ASME / NB STAMPED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		CAPACITY <b>1900</b>
BOILER USED FOR <input type="checkbox"/> POWER <input type="checkbox"/> PROCESS <input checked="" type="checkbox"/> STEAM HEATING <input type="checkbox"/> HWM <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 <b>7-31-2008</b>	BY WHOM <b>JOSEPH M. DAY COMPANY</b>		BTU / HR INPUT <b>1,350,000</b>
IS CERTIFICATE CURRENT <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <b>WAS CURRENT ON DATE OF INCIDENT</b>		EXPIRATION DATE <b>4-8-2013</b>		
DOES JURISDICTION REQUIRE LICENSED OPERATOR <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		WERE OPERATORS LICENSED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TYPE OF BUSINESS WHERE USED <b>MUNICIPAL OFFICE BLDG.</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>SILVERIO</b>	ADDRESS	CITY	STATE	ZIP CODE
NAME	ADDRESS	CITY	STATE	ZIP CODE
NAME	ADDRESS	CITY	STATE	ZIP CODE

**Accident**

PROPERTY DAMAGE (Be Specific. Include dollar amounts. Attach a separate page if necessary)

BOILER HAS BEEN EVALUATED FOR REPAIR. TOTAL COST OF \$13,500 INCLUDES REPLACEMENT OF HOT PASS TUBES (34), HIGH STACK TEMPERATURE SAFETY LIMIT SWITCH, PRESSURE SAFETY RELIEF VALVE, PRESSURE GAUGE, AND THE REFRACTORY FLOOR OF THE BOILER. ADDITIONAL REPAIRS MAY BECOME NECESSARY AS WORK PROGRESSES.

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

DRY FIRE

DESCRIBE THE CAUSE AND EVENTS WHICH PRECEDED THE ACCIDENT. DESCRIBE IN DETAIL THE EXTENT AND PARTS DAMAGED.

OWNER SMELLED SMOKE AND INVESTIGATED BOILER HOUSE WHICH IS LOCATED ACROSS THE PARKING LOT. SILVERIO VARGAS WAS ON CALL AND CAME IN TO INVESTIGATE. HE FOUND Kewanee boiler "GLOWING CHERRY RED" AND ROOM FILLED WITH SMOKE/STEAM. HE USED THE EMERGENCY SHUTOFF TO SHUT DOWN BOTH BOILERS. HE THEN WAITED 1/2 HR. FOR SMOKE TO CLEAR AND ENTERED TO START EXHAUST FAN. AFTER ANOTHER 15 MINUTES, HE REENTERED AND SAWS THAT HE SAW A WATER LEVEL IN THE SIGHTGLASS. HE NOTED THAT THE GASKETS WERE DESTROYED AND CRUMBLED WHEN THEY REMOVED ACCESS PLATES. THEY DID NO FURTHER INVESTIGATION.

DAMAGE TO BOILER	CAN BOILER BE REPAIRED
	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
SEE 'PROPERTY DAMAGE' SECTION	IS REPAIR PERMIT REQUIRED
	<input checked="" 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 OBSERVED THAT WAS WATER IN THE BOILER UP TO THE HOT PASS TUBES AND THERE IS EVIDENCE OF EXCESSIVE LEAKAGE AROUND THESE TUBE ENDS. I HAD OWNER OPEN THE LINCO CHAMBER AND NOTED THERE WAS MORE MUD THAN USUAL, BUT THE MECHANISM SEEMED TO MOVE FREELY. IT IS POSSIBLE THE FLOAT HUNG UP LEADING TO THE INCIDENT.

INSPECTOR'S RECOMMENDATION

- RECOMMENDED CONSISTANT COMPLIANCE WITH RULE 27
- RECOMMENDED MAINTAINING A BOILER PLUNDOWN SCHEDULE! DOCUMENT
- RECOMMENDED IMPLEMENTING A CHEMICAL TREATMENT PROGRAM FOR BOTH BOILERS

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

- OWNER HAS ASKED FOR CONTRACTOR BIDS TO PERFORM CSD-1 TESTING ON ALL OF ITS BOILERS ON A ROUTINE BASIS

**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 checked="" type="checkbox"/> NO	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
NAME	ADDRESS	CITY	STATE	ZIP CODE			
NAME	ADDRESS	CITY	STATE	ZIP CODE			

**Inspector**

NAME OF INSPECTOR	LICENSE NUMBER	DATE OF REPORT
THOMAS BRUN	300918	8-13-2013

**Moore, Mark (LARA)**

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**From:** Vallance, Bill (LARA)  
**Sent:** Friday, September 13, 2013 2:12 PM  
**To:** Rambo, Lisa (LARA)  
**Cc:** Moore, Mark (LARA)  
**Subject:** FW: Saginaw city hall dry fire - MIR331257 1979 Kewanee fire tube boiler  
**Attachments:** City Hall Accident Report.pdf  
*For the Next Board Meeting*

William Vallance  
Chief, Boiler Division  
State of Michigan  
Department of Licensing and Regulatory Affairs  
PH: 517 241 9334  
Fax: 517 241 6301

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**From:** Brun, Tom [mailto:Tom\_Brun@CINFIN.com]  
**Sent:** Friday, September 13, 2013 1:53 PM  
**To:** Vallance, Bill (LARA)  
**Cc:** Cantrell, Duane  
**Subject:** Saginaw city hall dry fire - MIR331257 1979 Kewanee fire tube boiler

Bill,

Here is the report for this dry fire incident. Let me know if there is any additional information you need. The owner just informed me that they are going to go forward with the repair as quoted by Joseph M. Day Co.

Regards,

*Thomas Brun*

Senior Machinery & Equipment Specialist  
Cincinnati Insurance Company  
Phone: 989-388-2219  
Fax: 877-204-0547

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City Of Saginaw 1315 S Washington Ave , Saginaw, MI, 48601-2513

[-] Boiler Details

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

Other No.  Specific Location  Year Built \*

Year Installed \*  Edit Manufacturer  Construction Type \*  Use \*

Boiler Type \*  Method of Firing \*  Fuel \*

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

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

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

Cert Exp Date \*  Max Design Temp (HWH, HWS)  ASME Stamp \*

\* Required Field

[-] Inspection Details

Current Certificate Expires: 04/08/2013

Inspection Type: Internal Cert

Condition OK to Issue Cert. \*  Inspection Date \*  Pressure Allowed \* (15)

S.V. Tested (Y)  Rule 27 Complied \*  Safety Valve Set At \* (15)  Total Capacity of Safety Valve \* (1900)

\* Required Field

[-] Object/Inspection Comments

Inspection Comments

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

[-] Object History

[-] Scheduled Events for this Object

[edit](#) Recurring Cert - Next:4/8/2013

[-] Inspection History

- [View](#) 06/15/98 - Certificate Internal Inspection - Certificate Issued
- [View](#) 06/13/00 - Certificate Internal Inspection - Certificate Issued
- [View](#) 08/15/02 - Certificate Internal Inspection - Certificate Issued
- [View](#) 07/13/04 - Certificate Internal Inspection - Certificate Issued
- [View](#) 08/24/06 - Certificate Internal Inspection - Certificate Issued
- [View](#) 08/04/08 - Certificate Internal Inspection - Certificate Issued
- [View](#) 04/08/11 - 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)

**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>MARCH 2013</b>
<input type="checkbox"/> BOILER EXPLOSION
<input type="checkbox"/> FURNACE EXPLOSION
<input checked="" type="checkbox"/> DRY FIRED
<input type="checkbox"/> OTHER (Explain)

Authority: 1965 PA 290  
 Completion: Mandatory  
 Penalty: None

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

**Boiler Information**

BOILER LOCATION <b>DAVISON MIDDLE SCHOOL</b>				
ADDRESS <b>600 S DAYTON</b>	CITY <b>DAVISON</b>	STATE <b>MI</b>	ZIP CODE <b>48423</b>	
OWNER NAME <b>DAVISON SCHOOLS</b>				
ADDRESS <b>SAME</b>	CITY	STATE	ZIP CODE	
BOILER CONSTRUCTION <input checked="" type="checkbox"/> WELD <input type="checkbox"/> RIVET <input type="checkbox"/> LAP <input type="checkbox"/> MECHANICAL ASSEMBLY		BOILER TYPE <input checked="" type="checkbox"/> FT <input type="checkbox"/> WT <input type="checkbox"/> CAST <input type="checkbox"/> OTHER (Specify)		
BOILER MANUFACTURER <b>KEWANEE</b>				
STATE NUMBER <b>M 378821 M</b>	MFG. SERIAL NUMBER	NATIONAL BOARD NUMBER	MAWP <b>15</b>	YEAR BUILT <b>1996</b>
SAFETY / RELIEF VALVE INSTALLED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	SET PRESSURE <b>15</b>	ASME / NB STAMPED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	CAPACITY <b>3529</b>	
BOILER USED FOR <input type="checkbox"/> POWER <input type="checkbox"/> PROCESS <input checked="" type="checkbox"/> STEAM HEATING <input type="checkbox"/> HWH <input type="checkbox"/> HWS <input type="checkbox"/> OTHER (Specify)				
CSD-1 TESTING <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA	CSD-1 TEST LAST PERFORMED <b>11-6-12</b>	BY WHOM <b>GOYETTE</b>	BTU / HR INPUT <b>4188000</b>	
IS CERTIFICATE CURRENT <input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/> NO	EXPIRATION DATE <b>12-13-13</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 checked="" type="checkbox"/> NO			
TYPE OF BUSINESS WHERE USED <b>SCHOOL</b>	NUMBER KILLED <b>0</b>	NUMBER INJURED <b>0</b>		

**Personal Injury**

NAME OF PERSON INJURED <b>NONE</b>	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>MATT RAIBLE</b>	ADDRESS <b>SCHOOL CUSTODIAN</b>	CITY	STATE	ZIP CODE
NAME <b>MATT WENDELING</b>	ADDRESS <b>- GOYETTE</b>	CITY	STATE	ZIP CODE
NAME <b>PHIL THOM</b>	ADDRESS <b>DAVISON SCHOOLS</b>	CITY	STATE	ZIP CODE

**Accident**

PROPERTY DAMAGE (Be Specific. Include dollar amounts. Attach a separate page if necessary)  
**BOILER DAMAGE ONLY**

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

DESCRIBE THE CAUSE AND EVENTS WHICH PRECEDED THE ACCIDENT. DESCRIBE IN DETAIL THE EXTENT AND PARTS DAMAGED.  
**SEE NARRATIVE REPORT**

DAMAGE TO BOILER <b>TOTAL LOSS</b>	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  
**UNKNOWN —**

INSPECTOR'S RECOMMENDATION  
**I SUSPECT A CONTROL WAS JUMPED — TO MUCH TIME LAPSED TO BE SURG — MANY PEOPLE HAVE HAD ACCESS TO BOILER OVER LAST 3 MONTHS**

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 checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" 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			

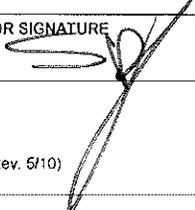
**Inspector**

NAME OF INSPECTOR <b>STEVE AYOTTE</b>	LICENSE NUMBER <b>1074</b>	DATE OF REPORT <b>7-17-13</b>
--	-------------------------------	----------------------------------

**Narrative Report**  
Michigan Department of Energy, Labor & Economic Growth  
Bureau of Construction Codes / Boiler Division  
P.O. Box 30254, Lansing, MI 48909  
517-241-9334  
Authority: 1965 PA 260

NAME OF OWNER <b>Davison Schools</b>			
OWNER ADDRESS	CITY	ZIP CODE	COUNTY
BOILER LOCATION NAME <b>Davison Middle School</b>			
LOCATION ADDRESS <b>600 S Dayton</b>	CITY <b>Davison</b>	ZIP CODE <b>48423</b>	COUNTY <b>25</b>
NATURE OF REPORT <b>Boiler accident-dry fire-No Injuries</b>			
LICENSEE NAME		LICENSEE COMPANY NAME	LICENSE NUMBER AND CLASS
BOILER NUMBER <b>mir378821</b>	PERMIT NUMBER	VIOLATION NUMBER	INVOICE NUMBER
MAKE <b>Kewanee</b>	PRESSURE <b>15</b>	SIZE BTU/LBS <b>4188000</b>	TYPE <b>Steam Heat</b>
			YEAR <b>1996</b>

I was notified of this June 25 2013 by e mail from Bill Vallance  
My findings from a July 9 2013 visit on site, people present were  
Matt Raible, Custodian, employed by Davison Schools  
Matt Wendlind service manager for Goyette mechanical  
Myself, Tom Wagner and Larry Dolfin with the State of Michigan Boiler Division  
Phil Thom , maintenance director for Davison schools was requested at the meeting but did not show  
This boiler room has 2 H stamp Kewanee Steam boilers with 2 feed pumps and a crossover on feed discharge  
It is estimated that the dryfire happened sometime in March of 2013 based on a interview with Matt Raible,  
The custodian that found the boiler "GLOWING RED at the top flange" and shut of the gas.  
The most current of CSD-1 reports was dated 11/6/12 and was done by Nate Leonard, a service tech for  
Goyette. There was also a csd-1 report for every year from 2007 done by Goyette, no problems noted.  
On the 11/6/12 CSD-1 report it is noted that a jumperwire was found on the probe style low water cut off, in  
follow up Nate reports removing the jumper, testing the probe low water and returning it back to service.  
In looking over the boiler we found the crown sheet distorted and imploding, the tubes had saged about 4  
inches and the nipples on the outside of the boiler had pitched up 10 degrees or more. The float chamber was  
open and clean as well as the connecting piping, the float moved freely and the micro switches made a  
audible click. the probe style low water cutoff was removed and laying on the boiler, I noted noted it was  
long enough to almost reach the 3<sup>RD</sup> row of tubes, much lower than the Float low water.  
On 1/4/13 Goyette got a no heat call from the school, tech found both boilers going off on low water, The  
feed water tank was low on water, float was stuck and 1 pump seized, the remaining pump would not push  
enough water with boilers at 6 psi so tech lowered pressure to 3.5, at this pressure the boilers would run.  
Service report attached. Owner was to monitor. I inquired with Phil Thom asking if there was anyone else  
involved in the boiler service. He replied that school employees and his outside matenance contractor have  
not worked on the boilers.

INSPECTOR SIGNATURE 	INSPECTOR NUMBER <b>1074</b>	REPORT DATE <b>7/17/2013</b>
--	---------------------------------	---------------------------------

Ayotte, Steve (LARA)

---

**From:** Vallance, Bill (LARA)  
**Sent:** Tuesday, June 25, 2013 9:21 AM  
**To:** Ayotte, Steve (LARA)  
**Cc:** Moore, Mark (LARA); Wagner, Thomas (LARA)  
**Subject:** Davison Schools  
**Importance:** High  
**Attachments:** bcc1049\_accident report1 LARA May 11.pdf

Steve,

There was a dry fire at the Davison Middle School in Davison.  
I need you to do an accident investigate as soon as you are free.

I have talked to Operations director Phil Thom at [REDACTED] and let him know that we needed the boiler opened up. He told me this happened 2/3 weeks before school ended and a contractor came in and looked the boiler over and did some work on the other boiler so it would not fail??!! I did not get who that was.

Have Tom Wagner accompany you on this investigation.

William Vallance  
Chief, Boiler Division  
State of Michigan  
Department of Licensing and Regulatory Affairs  
PH: 517 241 9334  
Fax: 517 241 6301



Call Slip No. 185954

3842 Gorey Avenue  
 P.O. Box 33 Flint, MI 48501  
 (810) 743-6883

PREF.TECH. PT PRIORITY 9  
 TECH. NAME PATRICK TUROWICZ #89

CUSTOMER/SITE: 4438

8

OPERATOR: amyd

NAME: DAVISON COMMUNITY SCHOOL MI 48423  
 ADDRESS 1: MIDDLE SCHOOL  
 ADDRESS 2: 600 S. DAYTON  
 CITY/ST/ZIP: DAVISON  
 CONTACT: PHIL 287-9035  
 CALLER: PHIL THOM  
 SEE: PREFERRED \$69

TERMS: NET 30  
 PO#:  
 CONTR#/RENEW#: 0  
 CONTR TYPE:  
 ZONE: RANDY  
 CALL GROUP: SCH  
 PHONE: 591-0805

CALLED ----- DATE/TIME: 01/04/2013 09:11 AM CALL STATUS: C  
 PROMISED -- DATE/TIME: TECH COST CLASS:

PROBLEM CODE:

MESSAGE:

MIDDLE SCHOOL - BOILER IS NOT PUSHING ENOUGH HEAT STEAM BOILER

DISPATCHER COMMENTS:

'OLD' FOOTBALL FIELD BEHIND MIDDLE SCHOOL.

TECHNICIAN NOTES:

completed. keep open

SITE FILE COMMENTS:

BOILERS:

DOMESTIC WATER PVI M# 75ON600ATP S# 109792498  
 HEATING 2-UNIVERSAL M# BF80LPF8 S# 15517-1 & 15517-2

NEW EQUIPMENT:

KITCHEN:

04-20-04 REPLACED GREASE TRAP &amp; DRAIN.

WRITING LAB:

08-26-05 CENTER UNIT NEW CARRIER NEW COMPRESSOR  
 ZR24K4-PFV-930 EXTENDED WARRANTY TO 5 YEARS.

BFP BOILE FEED WATTS RPZ 909 3/4" S# 416195

RESOLUTION CODE: VC VISIT COMPLETED

RESOLUTION COMMENTS:

found both boilers going off on low water. fill tank was low. found pump return unit float stuck. and pump on right seized. freed up float control this is working. getting a mtr quote for phil. both boilers where still tripping on low water. i found a valve open that should be closed i clised that valve so each pump feeds its proper boiler. units ran better but still trips low water. adjusted steam psis down to 3.5 instead of 6psi. to let feed pumps pump against less psi. this has helped both boiker run off psi now. and low water problem is not happening anymore. cust to monitor. <-Tech Comments. Tech NR completed the visit on 01/04/2013.  
 checked on boilers, both still running good at 3psi. building is warm. checked system with dave all seems good. he is getting ph checked today. matt will quote new mtr, and talk about vacuum pump station that is down. <-Tech Comments. Tech NR completed the visit on 01/07/2013.

Customer Signature \_\_\_\_\_

Date \_\_\_\_\_

GOYETTE MECHANICAL CO., INC.

SERVICE DIVISION

ANNUAL BOILER PEAK PERFORMANCE INSPECTION

CONTRACTOR

LICENSE #314132 4B

3842 GOREY AVE., FLINT, MI 48506  
PH (810) 742-8530 FAX (810) 742-3661

INCLUDING CSD-1 REQUIREMENTS

LICENSE #7110115

CUSTOMER Davidson Middle School DATE 11-6-12

ADDRESS 600 S Dayton CITY Davidson ZIP \_\_\_\_\_

BOILER MAKE Kewanee BOILER MODEL# M-335-6 BOILER SERIAL # 20725

BURNER MAKE/MODEL# KEP209626 STATE ID# M378821M NATIONAL BOARD # 20725

STEAM X HOT WATER \_\_\_\_\_ DESIGN PRESSURE 5psi OPERATING PRESSURE 7psi

	MANUFACTURER & MODEL #	SET POINT	TRIP/TEST POINT
OPERATING LIMIT	Honeywell L404A1354	8psi	8.5psi
HIGH LIMIT	Honeywell L404C1147	12psi	TRIP 12psi
MOD CONTROL	Honeywell L91B1035	6psi	
HI GAS PRESSURE SW	Honeywell C645B1013	12"wc	TRIP
LO GAS PRESSURE SW	Honeywell C645A1030	3"wc	TRIP
RELIEF VALVE	Coybraco 3529 150/h	15psi	TRIP
AIR FLOW SWITCH	Antares 8021204007		TRIP
AUX LOW WATER CUTOFF	McDonnell/miller 157B/750-MT-120	Float Probe	TRIP
FLAME SAFEGUARD	Honeywell RM7846C1018	MAIN	✓
		PILOT	✓
GAS VALVES	Honeywell VS055A ASLO K3A682F	BUBBLE TEST	✓
FLAME SIGNAL	PILOT	LO FIRE	HI FIRE
	4.9VDC	4.9VDC	4.9VDC

BOILER DESIGN REQUIREMENTS / ACTUAL

	DESIGN		ACTUAL
POWER REQUIREMENTS	230V	3p	210V
INLET GAS		static	HI 12"
PRESSURE			LO 7"
MANIFOLD GAS			HI 45"
PRESSURE			LO 1"
PILOT GAS			

Boiler Division

JUL 02 2013

MISCELLANEOUS ITEMS

CHIMNEY BREACHING	OK
LINKAGE	Tight/Lubed
EXPANSION TANK	N/A
REDUCING VALVE	N/A
SIGHT GLASS	OK
PUMPS	OK
ELECTRICAL CONNECTIONS	Tight
BOILER ROOM CONDITION	OK
COMBUSTION AIR	OK
BOILER CHEMICALS	N/A
COMBUSTION BLOWER AMP DRAW	5.0 amps @ 415V
BOILER RESET CONTROL	N/A
PIPING	OK
BOILER FLAME	OK
REFRACTORY	OK
GAS TRAIN/LEAKS	OK
GAUGES/ALARMS	OK

COMBUSTION EFFICIENCY

	LOW	MID	HI
CO2	9.4 %	8.0 %	8.0 %
CO	0 ppm	0 ppm	0 ppm
STACK TEMP	347 °	399 °	418 °
O2	4.0 %	6.5 %	6.6 %
EFFICIENCY	84.9 %	82.7 %	82.2 %
DRAFT			

NOTES: McDonnell + miller 750-MT-120 jumped out!!  
~~do not note with 200K on you, just check~~

~~bottom Kewanee vision part of motor link to see if it indicates problem. adjusted mod. b Air mixer~~  
DATE OF NEXT INSPECTION 11-6-13 SERVICE TECHNICIAN: Nate Leonard

THE MONTHLY BOILER LOG WAS LEFT ON SITE AND EXPLAINED TO CUSTOMER.

What do you want to do...

- > Add A Contact
- > Add An Object
- > Add Inspection
- > Delete Location
- > Modify Insurance For Objects
- > Print Inspection Worksheet for Highlighted Location
- > Schedule Activity

Boilers/Pressure Vessels

- BPV Comments
- BPV Invoice History
- BPV Violations
- Contacts

Edit Location Information

**Location Name:** Davison Middle School **Location Phone:** 810-591-0848 **JO Location #:** 1995274  
**Address:** 600 S Dayton St, Davison, MI, 48423-1539, USA  
**County:** Genesee **FIPS:** 26049 **Lat:** 0.000000 **Long:** 0.000000 **Alt Location #:** - **County Property #:** -  
**Nature of Business** School

Mail To Contacts For State of Michigan

**Primary choose** [0 - Thom, PH - Director] **Invoice choose** [0 - Accounts Payable]  
**Certificate choose** [0 - Thom, PH - Director] **Owner choose** [0 - Accounts Payable]  
**County Code** 25

Search:

	Juris #	Cat	Manufacturer	NB #	Yr Built	Specific Location	Ins. Carrier	Jurisdiction
<a href="#">edit</a>	MIR378821	Boiler	Kewanee	47928	1996	Boiler Room	Travelers	State of Michigan
> <a href="#">edit</a>	MIR378822	Boiler	Kewanee	47922	1996	Boiler Room	Travelers	State of Michigan
<a href="#">edit</a>	MIR408560	Boiler	Lochinvar	68944	1996	Blm	Travelers	State of Michigan

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Developed by Praeses, LLC

User Name: Steve Ayotte  
Employer : State of Michigan

Davison Middle School 600 S Dayton St, Davison, MI, 48423-1539

[-] Boiler Details

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

Other No.  Specific Location  Year Built \*

Year Installed \*  Edit Manufacturer:  Construction Type \*  Use \*

Boiler Type \*  Method of Firing \*  Fuel \*

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

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

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

Cert Exp Date \*  Max Design Temp (HWH, HWS)  ASME Stamp \*

\* Required Field

[-] Inspection Details

Current Certificate Expires: 12/13/2013

Inspection Type: External Cert

Condition OK to Issue Cert. \*  Inspection Date \*  Pressure Allowed \* (15)

S.V. Tested (Y)  Rule 27 Complied \*  Safety Valve Set At \* (15)  Total Capacity of Safety Valve \* (3529)

\* Required Field

[-] Object/Inspection Comments

Inspection Comments

Operating at 2-psi. New parts installed on LWFCO float; new LWFCO probe, new pressure controllers. Goyette Mechanical performed a hydrostatic pressure test as part of the repairs they performed. Boiler shows signs of aging; corrosion on casing on mud legs, smoke box, & boiler front. Owner is planning to replace the boiler in summer 2013. No other defects noted.

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

USE: Steam Heating Boiler;; SV SET: 15;; INSP AGN; Method of Firing:Automatic; Method of Firing:Auto; Boiler Type:Fire Tube; Boiler Use:Steam Heating

[-] Object History

[-] Scheduled Events for this Object  
edit Recurring Cert - Next: 12/13/2013

[-] Inspection History

View 09/25/98 - Certificate Internal Inspection - Certificate Issued

Davison Middle School 600 S Dayton St, Davison, MI, 48423-1539

[-] Boiler Details

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

Other No.  Specific Location  Year Built \*

Year Installed \*  Edit Manufacturer  Construction Type \*  Use \*

Boiler Type \*  Method of Firing \*  Fuel \*

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

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

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

Cert Exp Date \*  Max Design Temp (HWH, HWS)  ASME Stamp \*

[-] Inspection Details

Current Certificate Expires: 12/13/2013

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Condition OK to Issue Cert. \*  Inspection Date \*  Pressure Allowed \* (15)

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

USE: Steam Heating Boiler;; SV SET: 15;; INSP AGN; Method of Firing:Automatic; Method of Firing:Auto; Boiler Type:Fire Tube; Boiler Use:Steam Heating

[-] Object History

[-] Scheduled Events for this Object

[edit](#) Recurring Cert - Next: 12/13/2013

[-] Inspection History

- [View](#) 09/25/98 - Certificate Internal Inspection - Certificate Issued
- [View](#) 11/30/00 - Certificate External Inspection - Certificate Issued
- [View](#) 10/03/02 - Certificate Internal Inspection - Certificate Issued
- [View](#) 12/09/04 - Certificate Internal Inspection - Certificate Issued
- [View](#) 12/12/06 - Certificate Internal Inspection - Certificate Issued
- [View](#) 11/26/08 - Certificate Internal Inspection - Certificate Issued
- [View](#) 11/02/11 - Non-Certificate External Inspection
- [View](#) 12/13/11 - Certificate External Inspection - Boiler Certificate - Certificate Issued

[-] Past Recommendations and Violations for this Object

No Record(s)

[-] Tests

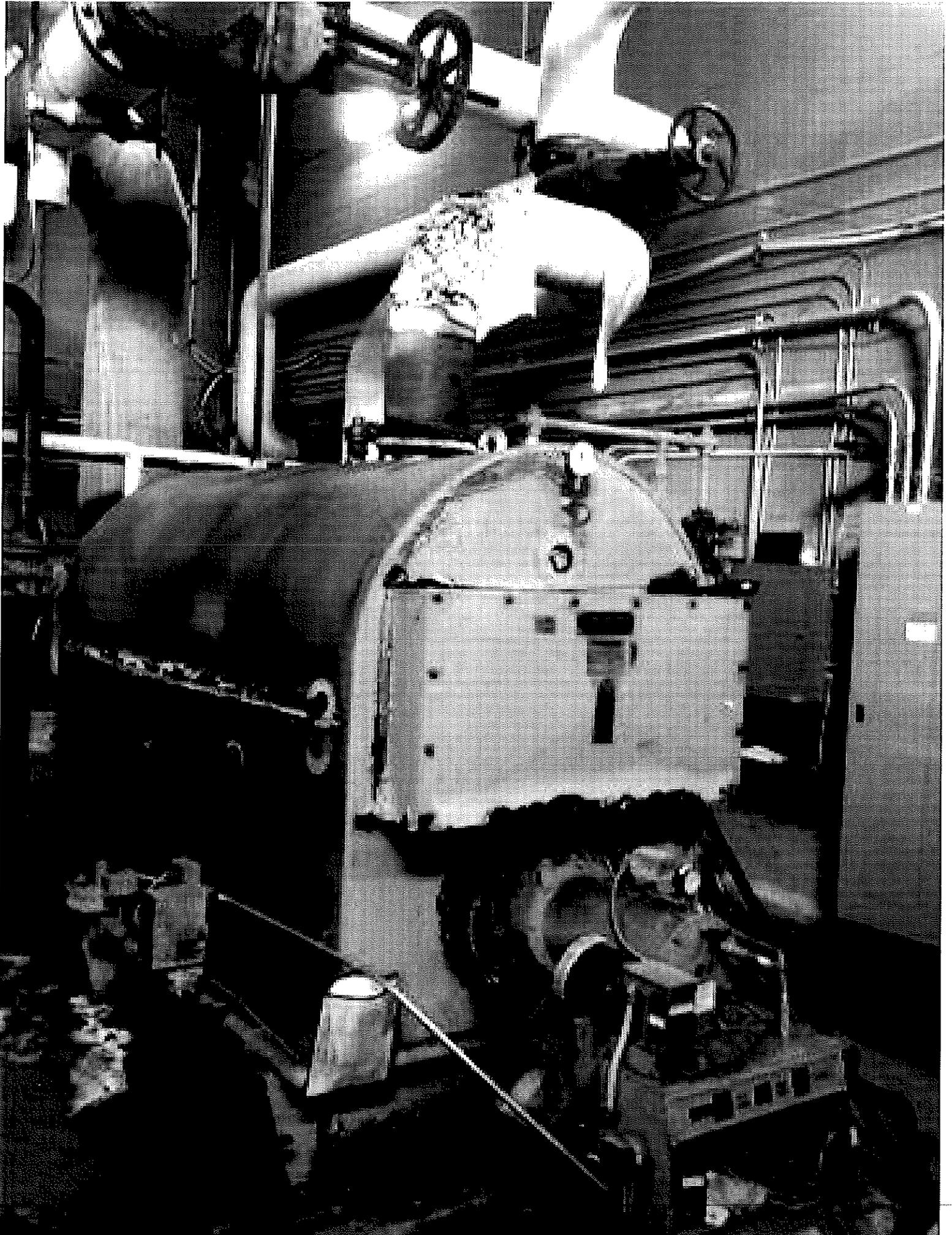
No Record(s)

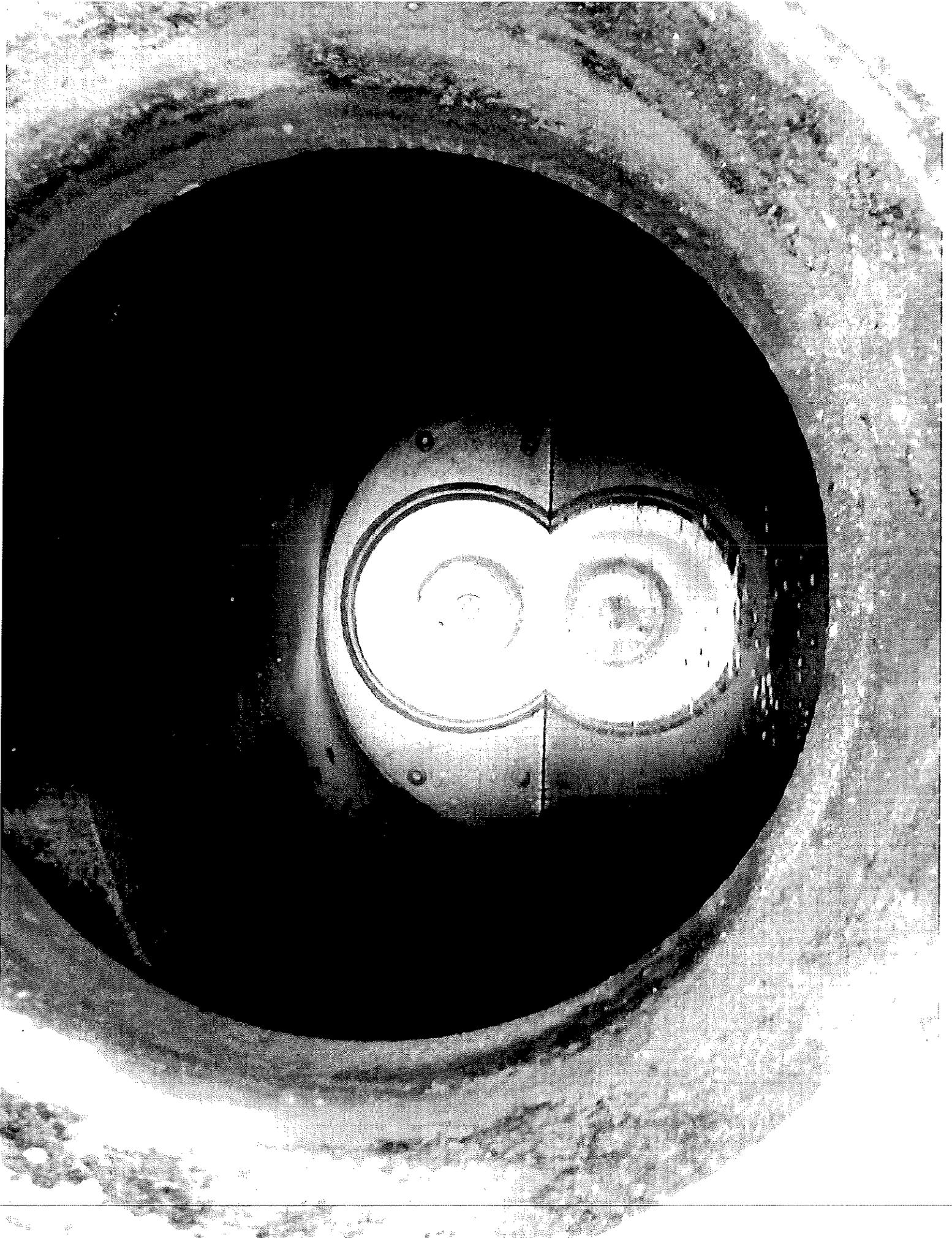
[-] Repairs

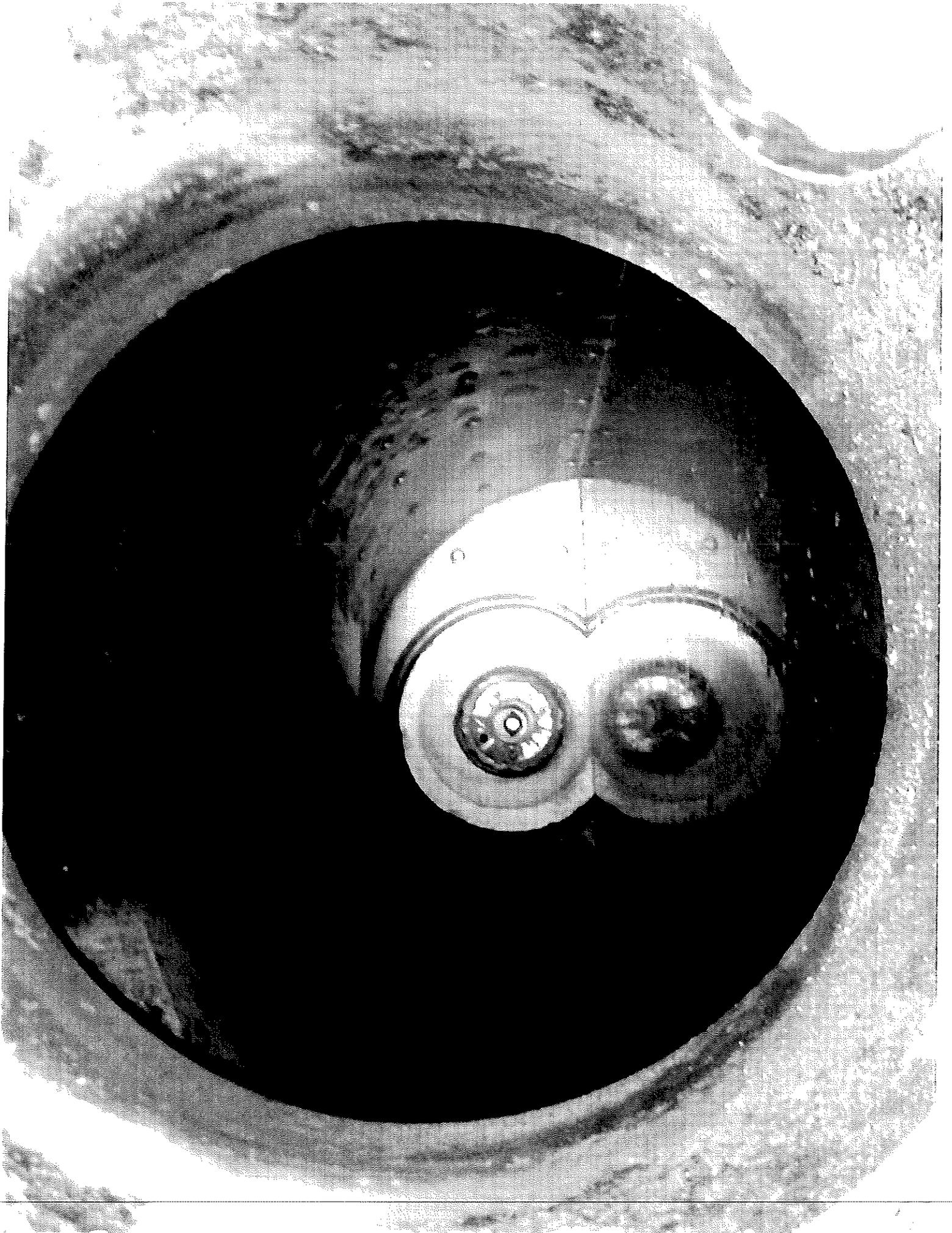
No Record(s)

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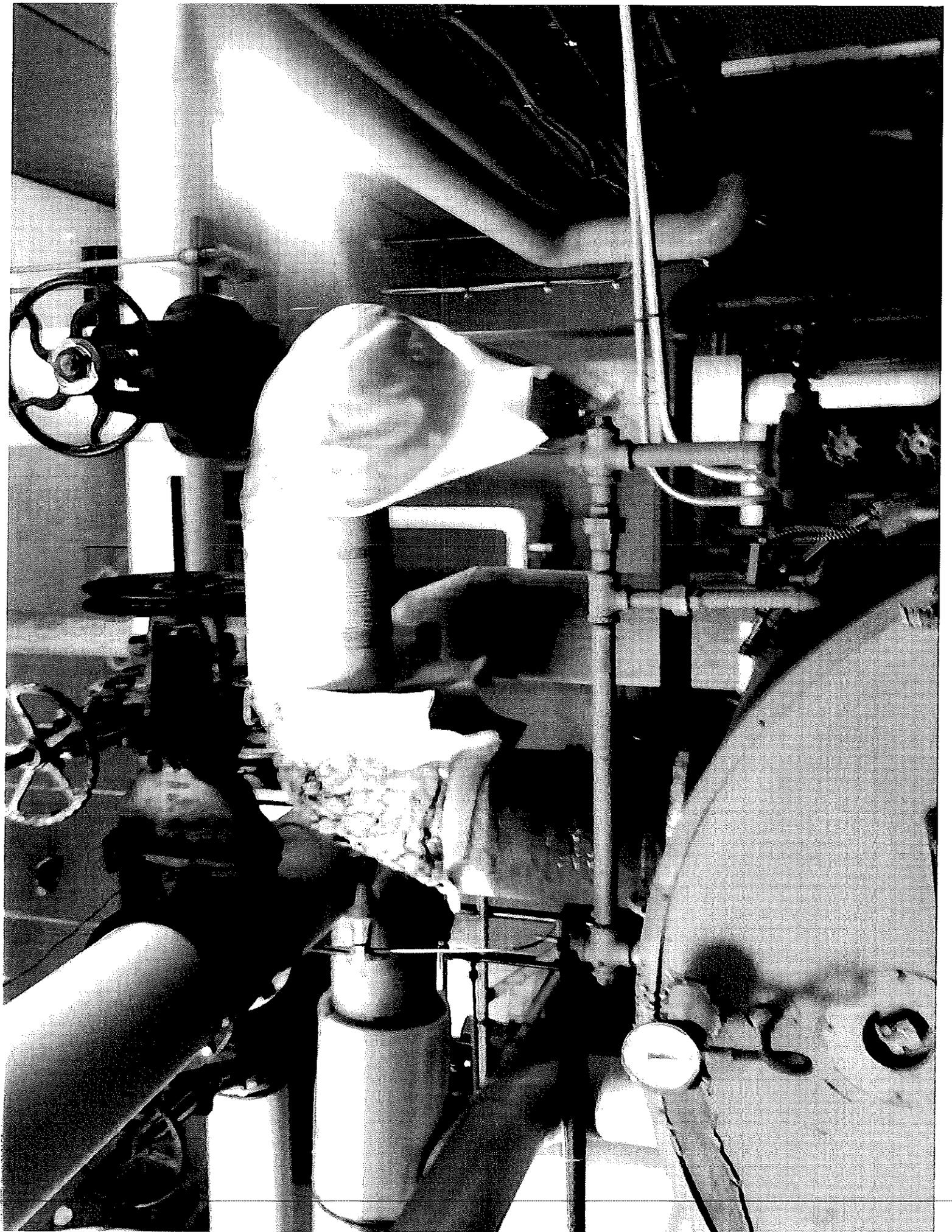
User Name: Lisa Rambo  
Employer : State of Michigan

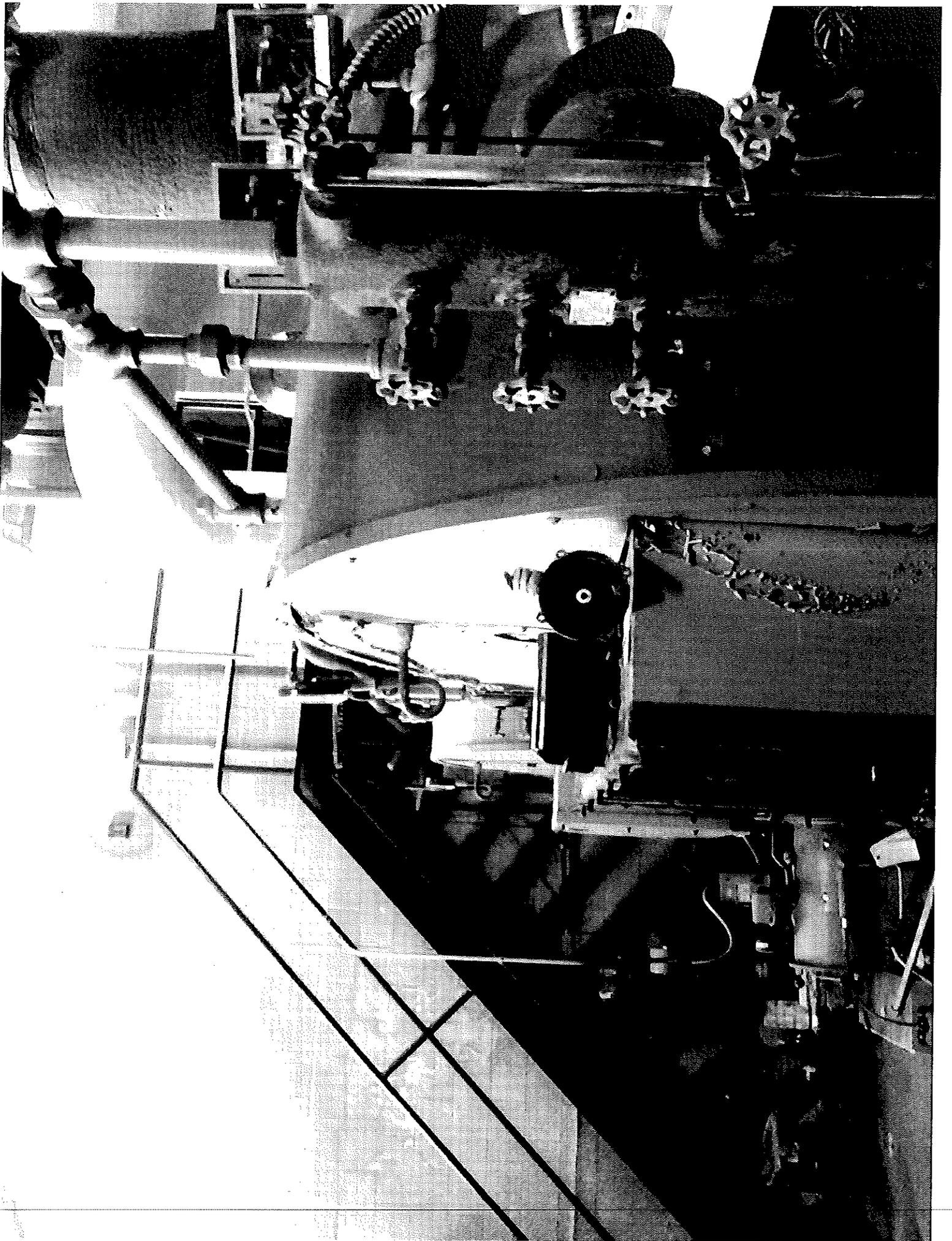


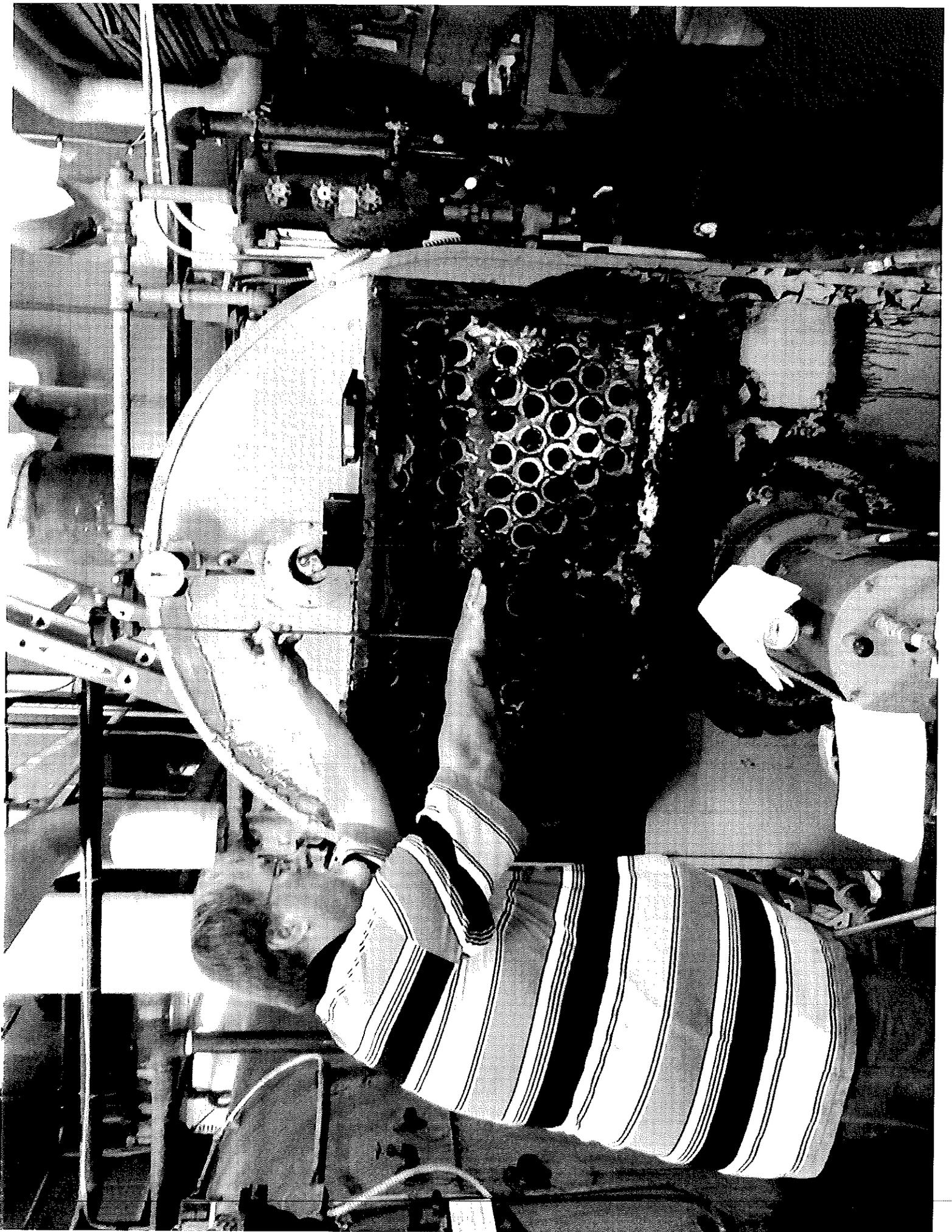


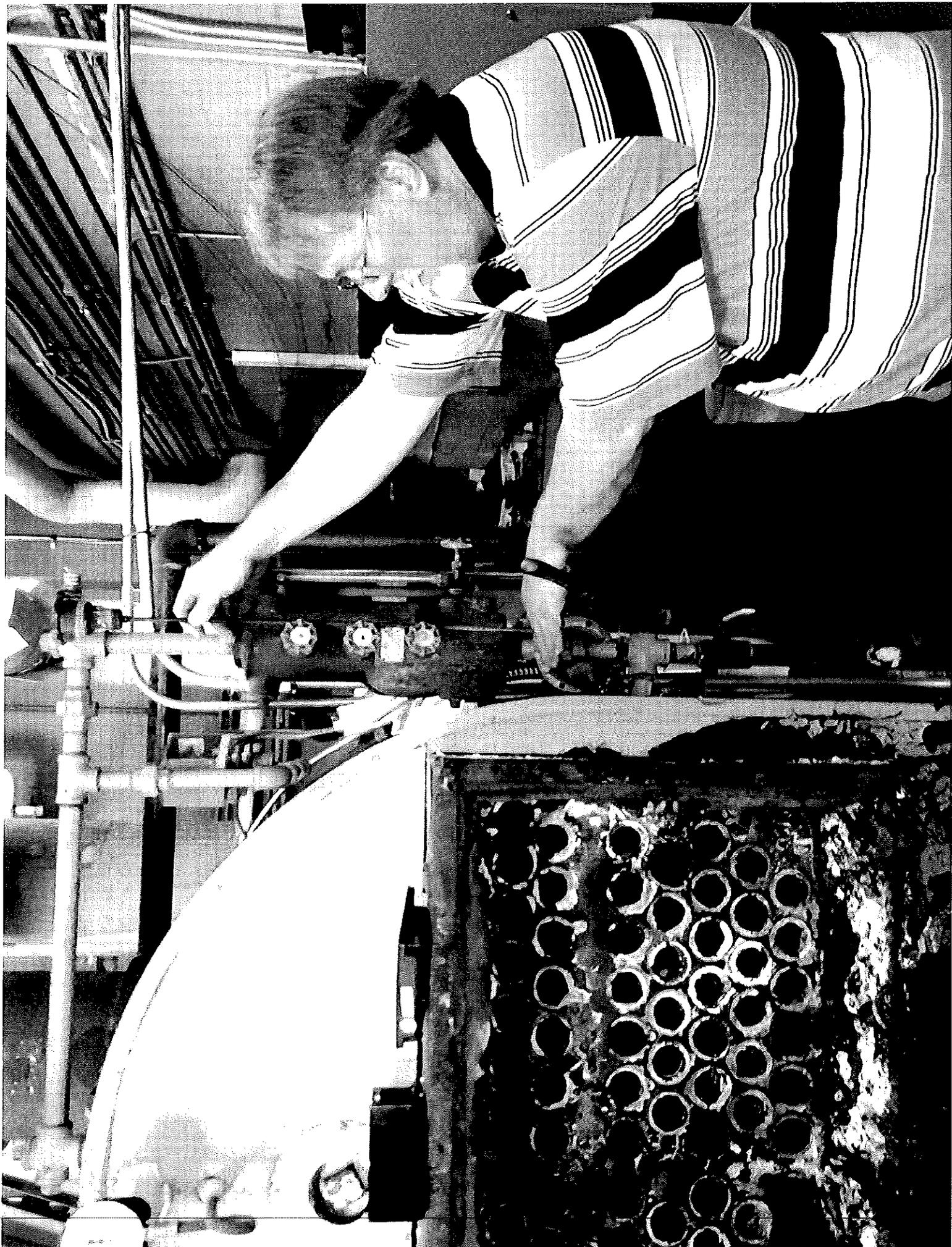














RICK SNYDER  
GOVERNOR

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

STEVE ARWOOD  
DIRECTOR

(Document BLR2013-27)

November 15, 2013

To: Members, Board of Boiler Rules  
From: Mark Moore  
Subject: Violations Issued

Attached you will find the violation reports from the National Board. The report contains violations issued in Michigan and for all reporting jurisdictions for the third quarter of 2013. The third quarter report for 29 jurisdictions is consisting of 165,433 total inspections with 14,001 total violations. This is an 8.9% violation rate.

The category showing the highest number of violations is Boiler Piping and Other Systems, reporting 840. The second highest is, Boiler Controls reporting 540 violations.

The third quarter report of violations issued in Michigan consists of 5337 total inspections with 571 violations. This is an 11 % violation rate.

The category showing the highest number of violations is Boiler Piping and Other Systems, reporting 469 violations. The second highest is Boiler Controls reporting 54 violations.

*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

# Violations Tracking Statistics

Jurisdiction: All Period: 7/1/2013 to 9/30/2013

Number of Jurisdictional reports: 29

Total number of inspections: 165433

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)
Total Violations / Inspections:		1232 / 17253	2107 / 14709	7499 / 65457	1930 / 55561	1233 / 12453
1) Safety Relief Devices	1.1 Inoperable	33	41	223	106	45
	1.2 Device Missing - Not Installed	7	14	59	187	18
	1.3 Improper Installation	57	157	540	259	128
	1.4 Leaking	38	60	356	47	36
	1.5 Incorrect Capacity	20	34	247	111	46
	1.6 Missing Nameplate	19	14	81	116	15
	1.7 Incorrect Set Pressure	8	1	35	56	22
2) Low Water Cutoffs / Flow Sensing Devices	2.1 Inoperable	36	37	72		
	2.2 Device Missing - Not Installed	6	50	201		3
	2.3 Improper Installation			5		
	2.4 No Manual Reset	6	26	104		
	2.5 Sediment / Dirty / Leaking	17	21	35		5
3) Pressure Controls	3.1 Inoperable	8	9	8	1	
	3.2 Device Missing - Not Installed	3	56	2	2	
	3.3 Improper Installation	15	100	34	1	2
	3.4 No Manual Reset	1	3			
4) Temperature Controls - Operator or High Limit	4.1 Inoperable			13		1
	4.2 Device Missing - Not Installed	1	2	242		24
	4.3 Improper Installation	6	25	247		9
	4.4 No Manual Reset	3	5	48		1
5) Burner Management	5.1 Flame Failure – Operating, Management System	4	5	9		2
	5.2 Electrical Power Disconnect – Missing / Not Functioning	18	39	315		36
	5.3 Improper Installation	57	39	188	1	78
	5.4 Fuel Leaks	5	3	5		
	5.5 Emergency Shut Down Switch– Missing / Not Functioning	40	97	452		51
	5.6 Fuel Train Damaged	8		13		

# Violations Tracking Statistics

Jurisdiction: All Period: 7/1/2013 to 9/30/2013

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)
Total Violations / Inspections:		1232 / 17253	2107 / 14709	7499 / 65457	1930 / 55561	1233 / 12453
5) Burner Management	5.7 Flame Impingement	10	14	14		
	5.8 Improper Combustion Air	13	16	64		20
6) Level Indicators - Gage Glasses, Bulls Eyes and Fiber Opticals	6.1 Inoperable	6	3			
	6.2 Device Missing - Not Installed	18	45	133	1	
	6.3 Improper Installation	4	8	3		
	6.4 Leaking	28	6	4		
	6.5 Internal Deposits	17	88	4	1	
7) Pressure / Temperature Indicators	7.1 Damaged - Inoperable	7	13	66	24	25
	7.2 Device Missing - Not Installed	11	10	150	27	135
	7.3 Improper Installation	1	3	36		17
	7.4 Leaking	1	1	6		1
	7.5 Improper Size / Range	4	9	36	21	5
8) Pressure - Retaining Items (PRI) / Boiler- Piping, Pumps, Systems Valves, Expansion Tanks	8.1 Inoperable	19	19	42	14	6
	8.2 Item Missing - Not Installed	62	192	609	140	38
	8.3 Improper Installation	73	120	550	470	144
	8.4 Item Leaking	96	227	256	28	67
	8.5 Improper Repair / Alteration	28	26	72	12	9
	8.6 Materials Deficiencies	135	177	199	139	68
	8.7 Required documentation, nameplate-missing or	54	69	226	91	41
	8.8 Non-ASME Code Construction	10	3	114	14	31
	8.9 Inspection Certificate-missing or expired	180	159	840	58	102
	8.10 Testing required	39	61	541	3	2

## Violations Tracking Statistics

Jurisdiction: Michigan    Period:7/1/2012 to 9/30/2013    Device: High Pressure / High Temperature Boilers (S M F)

### Report of Violation Findings:

Category	# of Violations	* Rate	* Rate 2
1) Safety Relief Devices	38	1 %	7 %
2) Low Water Cutoffs / Flow Sensing Devices	1	0 %	0 %
3) Pressure Controls	4	0 %	1 %
5) Burner Management	54	1 %	9 %
6) Level Indicators - Gage Glasses, Bulls Eyes and Fiber Opticals	2	0 %	0 %
7) Pressure / Temperature Indicators	3	0 %	1 %
8) Pressure - Retaining Items (PRI) / Boiler- Piping, Pumps, Systems Valves, Expansion Tanks	469	9 %	82 %

\* v/i Total Number of Violations for Category / Total Inspections for this Device Type

\*\* v/v Total Number of Violations for Category / Total Violations for this Device Type

### Summary:

Number of Jurisdictional reports:    5

Total number of inspections:    5337

Total Number of Violations: 571

Percent violations: 11 %



RICK SNYDER  
GOVERNOR

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

STEVE ARWOOD  
DIRECTOR

(Document BLR2013-12)

November 14, 2013

To: Members, Board of Boiler Rules  
From: Mark Moore  
Subject: Qualified Technical Education Program (QTEP)

Attached is the email pertaining to the additional information requested for a qualified education program (QTEP) for Vocational Institute of Michigan, (VIM) items that need to be addressed.

As of today we have not received a response from VIM with answers to our attached request.

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

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Vallance, Bill (LARA)

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**From:** Vallance, Bill (LARA)  
**Sent:** Friday, September 20, 2013 4:29 PM  
**To:** 'Drew Johnson'  
**Cc:** 'sj1@vim-inc.org'; Moore, Mark (LARA)  
**Subject:** Meeting information requested

Steve and Drew,

It was a pleasure to meet with you today and go over your program at the Institute office.

In the exit meeting I discussed a few things that we need addressed;

1. A binder of how the complete process of educating the low pressure and high pressure perspective boiler operators is done. Submit a copy.
2. Show purchase of the latest ASME codes Sections VI and VII.  
Alternative: Purchase the latest edition of Boiler Operator's Guide, Spring and Kohan.  
The latest edition of Low Pressure Boilers, Frederick M. Steingress.  
The latest edition of High Pressure Boilers, Frederick M. Steingress.  
If the alternative is done revise the references to the ASME codes in your latest submittal to the Board.
3. Send Steve Johnson's instructor qualification form that was sent to the State of Michigan School Proprietary Division.
4. Need the form for collection of internship hours.
5. Need the form that shows the requirements the student must meet during the internship and completed by the interns working location.
6. See a copy of the live learning related course.
7. See a copy of a periodic assignment.
8. Review and revise the internship hours and required reference books on the syllabuses, submit a copy.
9. Question; How do you approve the internships location of study? Is there a form listing the boiler(s) by size, type, use,...etc. and your acceptance?

Thank You

William Vallance  
Chief, Boiler Division  
State of Michigan  
Department of Licensing and Regulatory Affairs  
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Fax: 517 241 6301