



Historical Boiler Licensing Board

Mission of the Historical Boiler Licensing Board:

The Historical Boiler Licensing Board ensures public safety through the adoption of rules governing the criteria inspectors of historical boilers utilize in determining the safe operation of historical boilers. In addition, the board approves historical boiler operator courses and issues operator licenses to those individuals qualified to operate historical boilers in public.

Ohio Administrative Code 1301:3-4 Historical Boiler Rules

<http://codes.ohio.gov/oac/1301%3A3-4>

Next Board Meeting

October 16, 2019
10:00 a.m.

Superintendent's Conf. Rm.
6606 Tussing Road
Reynoldsburg, OH 43068

2018 Stats:

- 37 HB inspections done
- 23 HB inspections due
- 63 HB Inspections due in 2019
- 9 new HB licenses issued
- 21 people passed training classes
- 706 HB licenses issued to date



Meet Board Member - Richard Oeder

Our 23-90 Baker History

In 1929, at the age of 18, my father Lester Oeder started a concrete block plant in Morrow, Warren County, Ohio. The concrete block was being cured at night in the kiln room by using several small potbelly coal stoves. After a few years, with his ingenious mind, he decided to purchase a 1923 Baker steam engine. This unit was parked outside the block plant, and a tin building erected all around it. He circulated heat from the steam engine through the kiln room, replacing the heat from the coal stoves. At 3 o'clock in the afternoon he built a fire in the engine, and every evening at midnight my parents would return to the block plant to re-stoke the boiler. Attached to the last page of the newsletter is a copy of the State of Ohio's Annual Inspection Certificate, by Travelers Indemnity Company in June 1949, showing the State Boiler No.67429.

Several years later, when the block plant was leased, the engine was moved by lowboy to the site of Lester's large excavating business. As years passed, with the engine sitting outside, it was obvious it would require some maintenance to get it back in full operating condition. The engine was towed by one of our Caterpillars and placed in our shop where we started the complete restoration process. When the HBLB was formed, and the engine was inspected, that same State Boiler number was visible on the boiler, and once again certified by the state.

Professional Development:

The following outlined courses have been approved by HBLB.

University of Rollag (MN)
WMSTR Secretary—701-212-2034

Somerset Steam & Gas Association (VA)
Dennis Rupert—517-398-0152

Wisconsin Historical Steam Engine Association
Marshall Deets—608-882-9052

Heritage Park of North Iowa
Jerred Ruble—jerred.ruble@gmail.com

Central States Threshermen's Reunion School (IL)
Doug Smith—317-341-4987

Steam Association of Manitoba
Jim Nowell—204-837-1562

Hocking Valley Steam Course (OH)
Robert Baughman—740-753-1916

"The Boss" (Northeast OH)
Joseph Harrison—330-340-9703
Todd Young—419-281-9935

Carriage Hill Farms (Western OH)
Doug Haus—937-275-5012

Bennett Restoration
Jerrod Bennett—419-789-6781

*This list may not include all courses in Ohio. For a complete list, please visit our webpage at <http://www.com.ohio.gov/dico/HBLB.aspx>

Meet Board Member, - Richard Oeder (continued)

The Oeder family has two Baker steam engines, along with a wheat binder and two separators. One Baker is the 23-90, and the other is a 21-75. The 23-90 is shown annually at the Pioneer Engineers Club of Indiana and has been shown at Greensburg, Indiana and Georgetown, Ohio. The engine is also featured at the various events held at Oeder's Lake, including the Ft Ancient Restored machinery Club Show. We have five state certified operators: Brian Oeder, Dave Volkman, Mike Williams, Sarah Volkman and myself.

I graduated from Trine University, in Angola, Indiana, with a Bachelor of Science in Civil Engineering, and currently serve as a member of the Board of Trustees. I am state certified as an Emergency Medical Technician and Firefighter. My wife Kathy and I reside at Oeder's Lake. My main objective is to share the history and the safe operation of the steam engine with everyone from small children to senior citizens.

"If your actions inspire others to dream more, learn more, do more and become more, you are a leader." — John Quincy Adams

Public Meeting Notices

Public meeting notices can be found by clicking the link below. It is located toward the end of the page under News & Reports, Latest Updates.

<http://www.com.ohio.gov/>

Historical Boiler Licensing Board Members:

James Lashaway — Chairman

Richard Oeder

Bruce Babcock

Homer "Dan" Rufener

Kim Besecker

John Leck

John Sharier

Dawn Evarson — Board Secretary

State Inspectors:

Bill Glover, 419-512-1904
william.glover@com.state.oh.us

Don Frymyer, 513-505-9576
donald.frymyer@com.state.oh.us

Preparing for Inspection:

Per the Ohio Administrative code, before initial certification and every three years thereafter, all historical boilers and their appurtenances shall be inspected thoroughly, internally and externally, and under operating conditions by inspectors designated by the chief of the division of boiler inspection in the division of industrial compliance in the department of commerce. The internal and external inspection under operating conditions shall, at a minimum, include an inspection of all of the following:

- (1) Smoke box;(2) Barrel;(3) Wrapper sheet;(4) Water column and water glass;(5) Firebox;(6) Stays;(7) Fusible plug;(8) Threaded openings;(9) Inspection openings;(10) Pressure gage;(11) External plumbing and piping;(12) Injectors;(13) Pipe schedule and valve ratings;(14) Tubes;(15) Tube sheets; and(16) Steam safety valve.(17) The inspector may ultrasonically evaluate an historical boiler or any portion thereof for cause; (18) The boiler and its appurtenances shall be subjected to a hydrostatic test pressure of one and one quarter of the safety valve setting.

Be sure to schedule your inspection far in advance. Inspectors have busy schedules and it is important that we, as owners, use the inspector's time efficiently. We have included the following guidelines to help with initial and re-inspections.

Continued on next page

Preparing for Inspection: (continued)

Before inspection:

1. Thoroughly clean the internal boiler, smoke box, and Fire box. (It is very important to keep the water space of the boiler clean and free from scale buildup. Because in most cases the boiler inspector will need to enter the firebox, it should be well cleaned as a courtesy)
2. Remove the Grates
3. Order a replacement fusible plug
4. Remove safety valve or valves, and cap openings.
5. Ensure the accuracy of your test gauge
6. Conduct a preliminary hydro test. (This test will allow the owner to correct minor leaks that would interfere with the inspection and help reduce re-inspections)
7. Gather any paperwork on repairs, alterations, failures, and your log book.

Day of inspection:

1. Have boiler full of warm water. Water must be between 60-120 degrees Fahrenheit.
2. Have new replacement fusible plug on hand.
3. Ensure hydro test pump is hooked up and in working order before inspection time.
4. Have proper tools on hand to remove hand holes, washout plugs, and Fusible plug.
5. As a courtesy conduct the test on a hard surface or gravel and provide a means for the inspector to lay on the ground and not get wet. (cardboard works well)

General flow of an inspection:

1. Apply a hydrostatic test pressure of 125% of the maximum allowable working pressure and hold this pressure for the duration of the test.
2. The inspector will inspect all parts of the boiler under hydrostatic pressure and verify the test gauge and boiler gauge are accurate to each other.
3. Upon the completion of the hydrostatic test, slowly reduce the pressure on the boiler.
4. Completely drain the boiler and remove all hand holes and washout plugs and fusible plug.
5. The inspector will then conduct an internal inspection of the boiler.
6. The inspector will stamp the filling of the new fusible plug with the month and year inspected.
7. The inspector will inspect your safety valve.

Remember that the state inspectors are people too. They have a job to do, and their job is to ensure the safety of the general public, this includes you and I. If your inspector finds something questionable about your boiler, they are usually more than happy to work with you to establish a solution. Be honest with your inspector. If you discover old repair makes sure you point it out to them so it can be documented. Hopefully we have provided some helpful insite on the inspection process.

Happy Steaming!

HANG THIS CERTIFICATE UNDER GLASS IN ENGINE OR BOILER ROOM

OWNER'S NO. 1 OHIO STD. NO. 1718 NATL. BD. NO. 67429 STATE BOILER No. 67429

NAME OF USER LESTER OEDER CERTIFICATE 84177

DATE 6/8/19 PRESSURE ALLOWED PER SQUARE INCH 100 POUNDS 100

Location of Boiler Block Plant, Rural Rte. #2 Morrow, Ohio

Type Loco Size 32" x 12' 9"

Boiler Internally Inspected by Travelers Indemnity Company mcj A. R. Will
(State or Insurance Company) (Name of Inspector)

NO REPAIRS SHALL BE MADE ON THIS BOILER WITHOUT THE APPROVAL OF AN OHIO QUALIFIED BOILER INSPECTOR, NO WELDING SHALL BE DONE UNLESS THE WELDER IS CERTIFIED BY THIS DEPARTMENT

FRANK J. LAUSCHE
GOVERNOR

ALBERT A. WOLDMAN
DIRECTOR

Annual Inspection Certificate



STATE OF OHIO
 Department of Industrial Relations
 DIVISION OF BOILER INSPECTION

This is to Certify That the hereindescribed Steam Boiler may be operated at a pressure not to exceed that shown above, for one year from date, unless sooner withdrawn for cause.

DEPARTMENT OF INDUSTRIAL RELATIONS
 DIVISION OF BOILER INSPECTION

Edwin G. Wagner
CHIEF OF DIVISION

Albert A. Woldman
DIRECTOR

THE LAW. "The owner or user of a boiler required to be inspected shall, after due notice, prepare the boiler for internal and external inspection, by drawing the water from the boiler and removing the manhole and handhole plates and thoroughly cleaning the boiler and its setting."
PENALTY. "Whosoever being the owner or operator of any steam boiler, herein required to be inspected, operates the same in violation of any provision of the law***shall be fined not less than twenty dollars nor more than five hundred dollars."