

Permit Requirements and General Information for Boilers



State of Oregon
Department of
Environmental
Quality

General Boiler Permit Service Maintenance Requirements

Boilers permitted under the [General Air Quality Contaminant Discharge Permits](#) #AQGP-010 and 011 are required to receive service maintenance at least once in every 2-year period.

At a minimum, the service maintenance must include an inspection of the burners and refractory; cleaning, adjustment, and repair as necessary. Service maintenance for water tube boilers must include flushing the tubes.

While not required, periodic tuning of the boiler is recommended because an untuned burner on your boiler leads to incomplete combustion.

Boiler Maintenance Helps Save Energy, Money and Reduces Emissions

Regular service maintenance on your boiler system can prevent a number of operational problems and can save you money in wasted fuel and costly repairs to system components. Your system will run more efficiently (using less fuel), and operate as it was designed.

By-products of incomplete combustion are gaseous pollutants such as carbon monoxide (CO), nitrogen oxides (NOx), and volatile organic compounds (VOC). These gaseous pollutants each have different impacts, such as: poor air quality, contributing to the formation of lung-damaging ground-level ozone, and other adverse human and animal health impacts.

Proper maintenance of your boiler is a permit requirement because it reduces the release of particulate matter and the health risks associated with it. A properly maintained boiler system benefits everyone in the community, especially plant owner/operators.

Pollution from boilers consists of particulate matter and gaseous pollutants. Fine particulate matter can lodge deep in our lungs. This may damage lung tissue and lead to serious respiratory problems.

Boiler Maintenance is Critical for Operational Efficiency and Safety

Proper and regular maintenance and operation of boiler systems is important for efficiency and reliability. Without attention to maintenance, boilers can be dangerous.

[The National Board of Boiler and Pressure Vessel Inspectors](#) tracks and reports on boiler safety, “incidents”, injuries and fatalities related to boilers and pressure vessels that occur each year as a result of poor maintenance or operator error. Through proper maintenance and operator training these incidents may be reduced.

List of Licensed Boiler Repair Technicians

Each employee who works for a licensed Boiler Business, and who is engaged in working on a boiler, pressure vessel, or regulated piping system, must have an individual license or certification for the type of work being performed. This is not a DEQ requirement, but the Oregon Boiler Program asked us to remind you that they can be contacted for more information about licensing.

For More Information

For more information on permit requirements, [contact your regional DEQ office](#) or the Business Assistance Program Coordinator.

Alternative Formats:

Alternative formats of this document can be made available. Contact DEQ Office of Communication and Outreach for more information (503) 229-5696.

Air Quality Division Business Assistance Program

811 SW 6th Avenue
Portland, OR 97204
Phone: (503) 229-5376
(800) 452-4011
www.oregon.gov/DEQ/

DEQ Northwest Region
1550 NW Eastman Parkway
Gresham, OR 97030
503-667-8414 x 55024

DEQ Western Region
750 Front St. NE, Ste. 120
Salem, OR 97301
503-378-5078

221 Stewart Ave. Ste. 201
Medford, OR 97501
541-776-6010 x237

381 N. Second Street
Coos Bay, OR 97420
541-269-2721 x222

DEQ Eastern Region
475 NE Bellevue, Ste. 110
Bend, OR 97701
541-633-2019 or
541-633-2017

700 SE Emigrant, Ste.330
Pendleton, OR 97801
541-278-4626

**Lane Regional Air
Protection Agency**
1010 Main Street
Springfield, OR 97477
541-736-1056

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Boiler Industry Resources

Oregon Boiler and Pressure Vessel Association (O.B.P.V.A.)

The Oregon Boiler and Pressure Vessel Association dedicates itself to keeping boiler operators and repair technicians informed about requirements, regulations, industry updates and upcoming events. The association meets quarterly and has an annual conference.

O.B.P.V.A. Contact and Website Information

Contacts: www.obpva.org/contacts/index.php

Website: www.obpva.org

Oregon Boiler Program (O.B.P.), Office of Consumer & Business Services

The Oregon Boiler Program administers the Oregon Boiler Codes and oversees all boiler installation permits, inspections, operator training classes, boiler business licensing and certification programs as well as general boiler information.

O.B.P. Contact and Website Information

Building Codes Division

<http://www.oregonbcd.org/>

National Board of Boiler and Pressure Vessel Inspectors (N.B.B.P.V.I.)

The National Board of Boiler and Pressure Vessel Inspectors works to promote greater safety through uniformity in the construction, installation, repair, maintenance, and inspection of boilers and pressure vessels.

N.B.B.P.V.I. Contact and Website Information

Website: <http://www.nationalboard.org/>

Federal Energy Management Program (F.E.M.P), U.S. Department of Energy

The Federal Energy Management Program functions to help federal government energy sites operate more efficiently and to make better utility management decisions. The information offered on their website is applicable to any boiler in the field.

Contact and Website Information

Contacts:

www1.eere.energy.gov/femp/about/contacts.html

Website: www1.eere.energy.gov/femp/

This website provides helpful tools for boilers to include:

- A checklist of boiler maintenance activities and how often these activities must be performed, and
- An energy cost calculator for commercial boilers.

The Boiler Efficiency Institute (B.E.I.)

B.E.I. has presented several hundred practical workshops on boiler and HVAC plant operation improvements for reducing costs since the early 1980s. B.E.I. offers a dozen textbooks and has authored five patents, published over fifty scientific papers, and developed numerous computer software packages in their areas of expertise.

B.E.I. Contact and Website Information

Website: <http://www.boilerinstitute.com/>