This permit is issued in accordance with the provisions of ORS 468A.040 and incorporated into OAR 340-216-0060 by the Environmental Quality Commission on October 17, 2007 for the following source category:

Oil-fired boilers greater than 10 million Btu/hour heat input and natural gas, propane, or butane-fired boilers (with or without distillate oil backup) 30 million Btu/hour or more heat input. SIC 4961

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1.0 PERMIT ASSIGNMENT

1.1 Qualifications  All of the following conditions must be met in order to qualify for assignment to this General Air Contaminant Discharge Permit (ACDP):

a. The permittee is operating oil, natural gas, propane, and/or butane-fired boiler(s) as listed on the cover of this permit, including supporting activities. This permit is not applicable to fuel burning equipment used to support other activities or sources required to have a permit under OAR 340-216-0090, Table 1.

b. Notwithstanding condition 1.1.a., this permit is applicable to space heating and process boilers described in the table below:

<table>
<thead>
<tr>
<th>Size</th>
<th>Heat energy input capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>single boiler</td>
<td>oil-fired boiler, greater than 10 MM Btu/hour;</td>
</tr>
<tr>
<td></td>
<td>natural gas, propane, or butane-fired boiler, 30 MM Btu/hr or more</td>
</tr>
<tr>
<td>aggregate on site</td>
<td>between 10 and 250 MM BTU/hour</td>
</tr>
</tbody>
</table>

c. More than one boiler on site may be permitted with this General Permit provided that aggregate emissions from all boilers do not exceed the generic PSEL.

d. A Simple or Standard ACDP is not required for the source.

e. The source is not having ongoing, recurring or serious compliance problems.

1.2 Assignment  The Department will assign qualifying permittees to this permit that have and maintain a good record of compliance with the Department’s Air Quality regulations and that the Department determines would be appropriately regulated by a General ACDP. The Department may rescind assignment if the permittee no longer meets the requirements of OAR 340-216-0060 and the conditions of this permit.
1.3 **Permitted Activities**

This permit allows the permittee to discharge air contaminants from processes and activities related to the air contaminant source(s) listed on the first page of this permit until this permit expires, is modified, revoked or rescinded. If there are other emissions activities occurring at the site besides those listed on the cover page of this permit, the permittee may be required to obtain a Standard Permit or additional General ACDPs, if applicable.

2.0 **GENERAL EMISSION STANDARDS AND LIMITS**

2.1 **Visible Emissions**

The permittee must comply with the following visible emission limits, as applicable:

a. Emissions from any air contaminant source must not equal or exceed 20% opacity for a period aggregating more than 3 minutes in any one hour.

b. In Clackamas, Columbia, Multnomah, or Washington Counties, emissions from any air contaminant source other than fuel burning equipment must not equal or exceed 20% opacity for a period aggregating more than 30 seconds in any one hour.

2.2 **Particulate Matter Emissions**

The permittee must comply with the following particulate matter emission limits, as applicable:

a. Particulate matter emissions from any fuel burning equipment installed on or before June 1, 1970 must not exceed 0.2 grains per dry standard cubic foot, corrected to 12% CO\textsubscript{2} or 50% excess air.

b. Particulate matter emissions from any fuel burning equipment installed, constructed, or modified after June 1, 1970 must not exceed 0.1 grains per dry standard cubic foot, corrected to 12% CO\textsubscript{2} or 50% excess air.

c. In Clackamas, Columbia, Multnomah, or Washington Counties, particulate matter emissions from fuel burning equipment must not exceed the emission rate shown in Figure 1 of OAR 340-208-0610 as a function of the maximum heat input when using all other fuels, except natural gas and LPG.
2.3 **Fugitive Emissions**
The permittee must take reasonable precautions for preventing fugitive dust emissions from becoming a nuisance, such as but not limited to:

a. Treating vehicular traffic areas of the plant site under the control of the permittee.

b. Operating all air contaminant-generating processes so that fugitive type dust associated with the operation will be adequately controlled at all times.

c. Storing collected materials from air pollution control equipment in a covered container or other method equally effective in preventing the material from becoming airborne during storage and transfer.

2.4 **Particulate Matter Fallout**
The permittee must not cause or permit the emission of any particulate matter larger than 250 microns in size at sufficient duration or quantity, as to create an observable deposition upon the real property of another person. The Department will verify that the deposition exists and will notify the permittee that the deposition must be controlled.

2.5 **Nuisance and Odors**
The permittee must not cause or allow air contaminants from any source to cause a nuisance. Nuisance conditions will be verified by Department personnel.

2.6 **Fuels and Fuel Sulfur Content**
The permittee must not use any fuel other than natural gas, propane, butane, ASTM grade fuel oils, or on-specification used oil.

a. Fuel oils must not contain more than:

i. 0.3% sulfur by weight for ASTM Grade 1 distillate oil;

ii. 0.5% sulfur by weight for ASTM Grade 2 distillate oil;

iii. 1.75% sulfur by weight for residual oil;

b. The permittee is allowed to use on-specification used oil that contains no more than 0.5% sulfur by weight. The permittee must obtain analyses from the marketer or, if generated on site, have the used oil analyzed, so that it can be demonstrated that the used oil does not exceed the used oil specifications contained in 40 CFR Part 279.11, Table 1.
3.0 NEW SOURCE PERFORMANCE STANDARDS

3.1 Applicability  
Federal requirements apply to boilers for which construction, modification, or reconstruction is commenced after June 9, 1989 and that have a maximum design heat input capacity of 100 million Btu per hour (Btu/hr) or less, but greater than or equal to 10 million Btu/hr. These requirements are in addition to requirements listed elsewhere in the permit. The full text of the federal standards are found in 40 CFR 60, Subpart Dc.

3.2 Definitions  
a. **Construction** means fabrication, erection, or installation of an affected facility.

b. **Modification** means any physical change in, or change in the method of operation of, an existing facility which increases the amount of any air pollutant (to which a standard applies) emitted into the atmosphere by that facility or which results in the emission of any air pollutant (to which a standard applies) into the atmosphere not previously emitted.

3.3 Visible Emissions Limit  
If oil is burned in the boiler and the heat input is greater than 30 million Btu/hr, visible emissions must not exceed 20% opacity as a 6-minute average, except for one 6-minute period per hour of not more than 27% opacity.

3.4 Particulate Matter Emission Limits  
The following particulate matter emission standards apply to each boiler that commences construction, reconstruction, or modification after February 28, 2005, and that has a heat input capacity greater than or equal to 30 million Btu/hr.

a. If oil, gas, or a mixture of these fuels is burned in the boiler, particulate matter emissions must not exceed 0.030 lbs/MMBtu heat input, except as provided in condition 3.4.b.

b. As an alternative to meeting the requirements of condition 3.4.a for a boiler that commenced modification after February 28, 2005, particulate matter emissions must not exceed 0.051 lbs/MMBtu heat input and particulate matter emissions must be reduced by 99.8 percent from uncontrolled.

3.5 Visible Emissions Monitoring  
a. If residual oil is burned in the boiler and the heat input is greater than 30 million Btu/hr, visible emissions must be monitored with a continuous opacity monitoring system (COMS) installed, operated, and maintained in accordance with 40 CFR 60.13.
3.6 **Particulate Matter Emission Testing**

For each boiler subject to the PM and/or opacity standards under Conditions 3.3 and/or 3.4 must conduct an initial performance test in accordance with 40 CFR 60.45c(a), and must conduct subsequent performance tests as requested by the Department, to determine compliance with the standards, except as specified in Condition 3.7.

3.7 **Emissions testing and monitoring exemption**

Boilers that burn only oil that contains no more than 0.5 weight percent sulfur or gaseous fuels with potential sulfur emission rates of 0.54 lbs/MMBtu heat input or less are not required to conduct emissions testing or monitoring if they maintain fuel supply certifications of the sulfur content of the fuels burned.

3.8 **Sulfur Limits**

The sulfur content of fuel oil burned in the boiler must not exceed 0.5% by weight.

3.9 **Fuel Sulfur Monitoring**

Unless an approved alternate monitoring frequency is obtained from the EPA Administrator, the permittee must record and maintain records of the amounts of each fuel combusted during each day in each subject boiler.

a. If oil is burned, the permittee must maintain records of the sulfur content of the fuel oil by either obtaining fuel supplier certifications or sampling and analyzing the fuel oil in accordance with ASTM procedures.

b. If relying on fuel samples for demonstrating compliance with the fuel sulfur content limits, a sample must be collected and analyzed after each shipment of fuel is added to the storage tank.

3.10 **NSPS Boiler Reporting Requirement**

Unless an approved alternate monitoring frequency is obtained from the EPA Administrator, the permittee must submit semi-annual reports for periods during which oil was burned that include the following information:

a. The calendar dates covered in the reporting period;

b. Each 30-day average sulfur content (weight percent), calculated during the reporting period, ending with the last 30-day period in the quarter; including:
   i. reasons for any noncompliance with the emission standards; and
   ii. a description of corrective actions taken.

c. Each 30-day average percent of potential SO2 emission rate calculated during the reporting period in accordance with Condition 3.7, ending with the last 30-day period, including:
   i. reasons for any noncompliance with the emission...
standards; and

ii. a description of corrective actions taken.

d. If fuel supplier certifications are used to demonstrate compliance, records of fuel supplier certifications that include:

i. For distillate oil:
   - The name of the oil supplier; and
   - A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR 61.41c.

ii. For residual oil:
   - The name of the oil supplier;
   - The location of the oil when the sample was drawn for analysis to determine the sulfur content of the oil, specifically including whether the oil was sampled as delivered to the facility, or whether the sample was drawn from oil in storage at the oil supplier’s or oil refiner’s facility, or other location;
   - The sulfur content of the oil from which the shipment came (or of the shipment itself); and
   - The method used to determine the sulfur content of the oil.

Note: If using ASTM grade 3, include the most relevant information depending on whether the blend exhibits the characteristics of a distillate or residual oil

e. If residual oil is burned in the boiler and the heat input is greater than 30 million Btu/hr, the semi-annual report must include a summary of any excess visible emissions recorded by the COMS.

f. The initial semi-annual report must be postmarked by the 30th day of the third month following the actual date of startup. Each subsequent semi-annual report must be postmarked by the 30th day following the end of the reporting period.

g. If fuel supplier certification is used to demonstrate compliance, records of fuel supplier certification as described under section d of this condition, as applicable. In addition to records of fuel supplier certifications, the report shall include a certified statement signed by the owner or operator of the affected facility that the records
of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period.

3.11 Performance testing and reporting
The permittee must submit to the Department the performance test data from the initial and any subsequent performance tests.

3.12 Recordkeeping
The permittee must maintain on-site for a period of at least two (2) years, records of the amount and type of fuels burned each day and calendar month, unless an alternate frequency is obtained from EPA, and the information in Conditions 3.9 through 3.11.

3.13 Construction or Modification
In addition to the Notice of Intent to Construct (NC) requirement in Condition 8.58.5a, the permittee must notify the Department and the EPA when equipment becomes subject to NSPS as summarized below:

<table>
<thead>
<tr>
<th>If</th>
<th>Notification of</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Constructing or installing a new affected NSPS boiler</td>
<td>The date construction began</td>
<td>Within 30 days of commencing construction</td>
</tr>
<tr>
<td></td>
<td>Actual start-up date</td>
<td>Within 15 days after start-up</td>
</tr>
<tr>
<td>Modifying existing equipment</td>
<td>The nature of the change, present and future emissions, productive capacity differences, expected completion date of change</td>
<td>60 days prior to expected completion date</td>
</tr>
</tbody>
</table>

3.14 EPA Submittal Address
All submittals to the EPA must be sent to the following address:
Director
Air and Waste Management Division
EPA Region X
Mail Stop OAQ-107
1200 Sixth Avenue, Suite 900
Seattle, WA 98101-3123
4.0 OPERATION AND MAINTENANCE REQUIREMENTS

4.1 Work practices

The permittee must perform a maintenance service on each boiler at least once in every 2-year period. As a minimum, the service must include an inspection of the burners and refractory chamber; cleaning, adjustment, and repair as necessary. For water tube boilers, the service must include flushing the tubes.

4.2 Fugitive Emissions Control Plan

While operating in the Medford-Ashland AQMA, the permittee must prepare and implement site-specific plans for the control of fugitive emissions in accordance with OAR 340-240-0180. While operating in the Lakeview Urban Growth Area (UGA), the permittee must prepare and implement site-specific plans for the control of fugitive emissions in accordance with OAR 340-240-0410.

4.3 O&M plan

While operating in the Medford-Ashland AQMA, the permittee must prepare and implement an operation and maintenance (O&M) plan in accordance with OAR 340-240-0190. While operating in the Lakeview UGA, the permittee must prepare and implement an O&M plan in accordance with OAR 340-240-0420.

5.0 PLANT SITE EMISSION LIMITS

5.1 Plant Site Emission Limits (PSEL)

Plant site emissions must not exceed the following:

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Limit</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM</td>
<td>24</td>
<td>tons per year</td>
</tr>
<tr>
<td>PM$_{10}$</td>
<td>14</td>
<td>tons per year</td>
</tr>
<tr>
<td>SO$_2$</td>
<td>39</td>
<td>tons per year</td>
</tr>
<tr>
<td>NO$_X$</td>
<td>39</td>
<td>tons per year</td>
</tr>
<tr>
<td>CO</td>
<td>99</td>
<td>tons per year</td>
</tr>
<tr>
<td>VOC</td>
<td>39</td>
<td>tons per year</td>
</tr>
</tbody>
</table>

5.2 PM$_{10}$ PSEL for Medford-Ashland AQMA

For sources operating in the Medford-Ashland AQMA, plant site emissions of PM$_{10}$ must not exceed the following:

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Limit</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM$_{10}$</td>
<td>4.5</td>
<td>tons per year</td>
</tr>
<tr>
<td></td>
<td>49</td>
<td>pounds per day</td>
</tr>
</tbody>
</table>

5.3 Annual Period

The annual plant site emissions limits apply to any 12-consecutive calendar month period.
6.0 COMPLIANCE DEMONSTRATION

6.1 PSEL Compliance Monitoring

Compliance with the PSEL is determined for each 12-consecutive calendar month period based on the following calculation for each pollutant:

\[ E = \frac{\Sigma (EF \times F)}{2000 \text{ lbs}} \]

where,

- \( E = \) pollutant emissions (ton/yr);
- \( EF = \) pollutant emission factor (see Condition 6.2);
- \( F = \) quantity of fuel burned (million cubic feet of natural gas or 1000 gallons of oil, propane, or butane)

6.2 Emission Factors

The permittee must use the default emission factors provided in Appendix A of this permit for calculating pollutant emissions, unless alternative emission factors are approved by the Department. The permittee may request or the Department may require using alternative emission factors provided they are based on actual test data or other documentation (e.g., AP-42 compilation of emission factors) that has been reviewed and approved by the Department.

7.0 RECORDKEEPING REQUIREMENTS

7.1 Operation and Maintenance

The permittee must maintain the following records related to the operation and maintenance of the plant and associated air contaminant control devices:

a. Maintenance log and operation and maintenance plan as required in Section 4.0; and
b. Sulfur content of fuel oil used at the plant.
c. Sulfur content and analysis of used oil, as required by condition 2.6b; and
d. Daily (Medford/Ashland AQMA only), monthly and annual usage of fuels by type and quantity.

7.2 Excess Emissions

The permittee must maintain records of excess emissions as defined in OAR 340-214-0300 through 340-214-0340 (recorded on occurrence). Typically, excess emissions are caused by process upsets, startups, shutdowns, or scheduled maintenance. In many cases, excess emissions are evident when visible emissions are greater than 20% opacity for 3 minutes or more in any 60-
7.3 Complaint Log  The permittee must maintain a log of all written complaints and complaints received via telephone that specifically refer to air pollution concerns associated to the permitted facility. The log must include a record of the permittee’s actions to investigate the validity of each complaint and a record of actions taken for complaint resolution.

7.4 Retention of Records  Unless otherwise specified, all records must be maintained on site for a period of two (2) years and made available to the Department upon request.

8.0 REPORTING REQUIREMENTS

8.1 Excess Emissions  The permittee must notify the Department by telephone or in person of any excess emissions which are of a nature that could endanger public health.

a. Such notice must be provided as soon as possible, but never more than one hour after becoming aware of the problem. Notice must be made to the regional office identified in Condition 9.3.

b. If the excess emissions occur during non-business hours, the permittee must notify the Department by calling the Oregon Emergency Response System (OERS). The current number is 1-800-452-0311.

c. The permittee must also submit follow-up reports when required by the Department.

8.2 Annual Report  The permittee must submit to the Department by February 15 of each year this permit is in effect, two (2) copies of the following information for the preceding calendar year:

a. Operating parameters:

   i. For sources operating in the Medford/Ashland AQMA, the maximum daily amount of each type of fuel burned;

   ii. Type and quantity of fuels burned on an annual basis; and

   iii. Annual emissions as calculated according to Condition 6.1.

b. Records of all planned and unplanned excess emissions
c. Summary of complaints relating to air quality received by permittee during the year.

d. List permanent changes made in plant process, production levels, and pollution control equipment which affected air contaminant emissions.

e. List major maintenance performed on pollution control equipment.

8.3 Initial Startup Notice

The permittee must notify the Department in writing of the date a new facility is started up. The notification must be submitted no later than seven (7) days after startup.

8.4 Notice of Change of Ownership or Company Name

The permittee must notify the Department in writing using a Departmental “Permit Application Form” within 60 days after the following:

a. Legal change of the name of the company as registered with the Corporations Division of the State of Oregon; or

b. Sale or exchange of the activity or facility.

8.5 Construction or Modification Notices

The permittee must notify the Department in writing using a Departmental “Notice of Construction Form,” or “Permit Application Form,” and obtain approval in accordance with OAR 340-210-0205 through 340-210-0250 before:

a. Constructing or installing any new source of air contaminant emissions, including air pollution control equipment;

b. Modifying or altering an existing source that may significantly affect the emission of air contaminants;

c. Making any physical change which increases emissions; or

d. Changing the method of operation, the process, or the fuel use, or increasing the normal hours of operation that result in increased emissions.

8.6 Where to Send Reports and Notices

The reports, with the permit number prominently displayed, must be sent to the Permit Coordinator for the region where the source is located as identified in Condition 9.2.
9.0 ADMINISTRATIVE REQUIREMENTS

9.1 Reassignment to the General ACDP

A complete application for reassignment to this permit is due within 60 days after the permit is reissued. The Department will notify the permittee when the permit is reissued. The application must be sent to the appropriate regional office.

a. If the Department is delinquent in renewing the permit, the existing permit will remain in effect and the permittee must comply with the conditions of the permit until such time that the permit is reissued and the source is reassigned to the permit.

b. The permittee may submit an application for either a Simple or Standard ACDP at any time, but the permittee must continue to comply with the General ACDP until the Department takes final action on the Simple or Standard ACDP application.

c. If a complete application for reassignment to the General ACDP or Simple or Standard ACDP is filed with the Department in a timely manner, the permit will not be deemed to expire until final action has been taken on the application.

9.2 Permit Coordinator Addresses

All reports, notices, and applications should be directed to the Permit Coordinator for the area where the source is located. The Permit Coordinator addresses are as follows:

<table>
<thead>
<tr>
<th>Counties</th>
<th>Permit Coordinator Address and Telephone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clackamas, Clatsop, Columbia, Multnomah, Tillamook, and Washington</td>
<td>Department of Environmental Quality</td>
</tr>
<tr>
<td></td>
<td>Northwest Region</td>
</tr>
<tr>
<td></td>
<td>2020 SW 4th Avenue, Suite 400</td>
</tr>
<tr>
<td></td>
<td>Portland, OR 97201-4987</td>
</tr>
<tr>
<td></td>
<td>Telephone: (503) 229-5582</td>
</tr>
<tr>
<td>Benton, Coos, Curry, Douglas, Jackson, Josephine, Lincoln, Linn, Marion, Polk, and Yamhill</td>
<td>Department of Environmental Quality</td>
</tr>
<tr>
<td></td>
<td>Western Region</td>
</tr>
<tr>
<td></td>
<td>750 Front Street NE, Suite 120</td>
</tr>
<tr>
<td></td>
<td>Salem, OR 97301-1039</td>
</tr>
<tr>
<td></td>
<td>Telephone: (503) 378-8240</td>
</tr>
<tr>
<td>Baker, Crook, Deschutes, Gilliam, Grant, Harney, Hood River, Jefferson, Klamath, Lake, Malheur, Morrow, Sherman, Umatilla, Union, Wallowa, Wasco, Wheeler</td>
<td>Department of Environmental Quality</td>
</tr>
<tr>
<td></td>
<td>Eastern Region</td>
</tr>
<tr>
<td></td>
<td>475 NE Bellevue Dr., Suite 110</td>
</tr>
<tr>
<td></td>
<td>Bend, OR 97701</td>
</tr>
<tr>
<td></td>
<td>Telephone: (541) 633-2021</td>
</tr>
</tbody>
</table>
9.3 **Department Contacts**  

Information about air quality permits and the Department’s regulations may be obtained from the DEQ web page at [www.deq.state.or.us](http://www.deq.state.or.us). All inquiries about this permit should be directed to the regional office for the area where the source is located. The Department’s regional offices are as follows:

<table>
<thead>
<tr>
<th>Counties</th>
<th>Office Address and Telephone</th>
</tr>
</thead>
</table>
| Clackamas, Clatsop, Columbia, Multnomah, Tillamook, and Washington | Department of Environmental Quality  
Portland Office  
2020 SW 4th Avenue, Suite 400  
Portland, OR 97201-4987  
Telephone: (503) 229-5582 |
| Benton, Lincoln, Linn, Marion, Polk, and Yamhill | Department of Environmental Quality  
Salem Office  
750 Front Street NE, Suite 120  
Salem, OR 97301-1039  
Telephone: (503) 378-5305 |
| Coos, Curry, and Western Douglas              | Department of Environmental Quality  
Coos Bay Office  
340 N Front Street  
Coos Bay, OR 97420-2325  
Telephone: (541) 269-2721 |
| Eastern Douglas, Jackson, and Josephine       | Department of Environmental Quality  
Medford Office  
221 Stewart Ave, Suite 201  
Medford, OR 97501  
Telephone: (541) 776-6010 |
| Crook, Deschutes, Harney, Hood River, Jefferson, Klamath, Lake, Sherman, Wasco, and Wheeler | Department of Environmental Quality  
Bend Office  
475 NE Bellevue Dr., Suite 110  
Bend, OR 97701  
Telephone: (541) 388-6146 |
| Baker, Gilliam, Grant, Malheur, Morrow, Umatilla, Union, and Wallowa | Department of Environmental Quality  
Pendleton Office  
700 SE Emigrant Avenue, Suite 330  
Pendleton, OR 97801-2597  
Telephone: (541) 276-4063 |
10.0 FEES

10.1 Annual Compliance Fee
The Annual Compliance Determination Fee specified in OAR 340-216-0090, Table 2, Part 2(c) for a Class Two General ACDP is due on December 1 of each year this permit is in effect. An invoice indicating the amount, as determined by Department regulations, will be mailed prior to the above date.

10.2 Change of Ownership or Company Name Fee
The non-technical permit modification fee specified in OAR 340-216-0090, Table 2, Part 3(a) is due with an application for changing the ownership or the name of the company of a source assigned to this permit.

10.3 Where to Submit Fees
Fees must be submitted to:
Department of Environmental Quality
Business Office
811 SW Sixth Avenue
Portland, Oregon 97204-1390

11.0 GENERAL CONDITIONS AND DISCLAIMERS

11.1 Other Regulations
In addition to the specific requirements listed in this permit, the permittee must comply with all other legal requirements enforceable by the Department.

11.2 Conflicting Conditions
In any instance in which there is an apparent conflict relative to conditions in this permit, the most stringent conditions apply.

11.3 Masking of Emissions
The permittee must not cause or permit the installation of any device or use any means designed to mask the emissions of an air contaminant that causes or is likely to cause detriment to health, safety, or welfare of any person or otherwise violate any other regulation or requirement.

11.4 Department Access
The permittee must allow the Department’s representatives access to the plant site and pertinent records at all reasonable times for the purposes of performing inspections, surveys, collecting samples, obtaining data, reviewing and copying air contaminant emissions discharge records and conducting all necessary functions related to this permit in accordance with ORS 468-095.

11.5 Permit Availability
The permittee must have a copy of the permit available at the facility at all times.

11.6 Open Burning
The permittee may not conduct any open burning except as allowed by OAR 340 Division 264.
11.7 Asbestos

The permittee must comply with the asbestos abatement requirements in OAR 340, Division 248 for all activities involving asbestos-containing materials, including, but not limited to, demolition, renovation, repair, construction, and maintenance.

11.8 Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

11.9 Termination, Revocation, or Modification

The Commission may modify or revoke this permit pursuant to OAR 340-216-0060(3) and (4).
## 12.0 ABBREVIATIONS, ACRONYMS, AND DEFINITIONS

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACDP</td>
<td>Air Contaminant Discharge Permit</td>
</tr>
<tr>
<td>ASTM</td>
<td>American Society for Testing and Materials</td>
</tr>
<tr>
<td>AQMA</td>
<td>Air Quality Maintenance Area</td>
</tr>
<tr>
<td>bbl</td>
<td>barrel (42 gal)</td>
</tr>
<tr>
<td>calendar year</td>
<td>The 12-month period beginning January 1st and ending December 31st</td>
</tr>
<tr>
<td>CFR</td>
<td>Code of Federal Regulations</td>
</tr>
<tr>
<td>CO</td>
<td>carbon monoxide</td>
</tr>
<tr>
<td>date</td>
<td>mm/dd/yy</td>
</tr>
<tr>
<td>DEQ</td>
<td>Oregon Department of Environmental Quality</td>
</tr>
<tr>
<td>dscf</td>
<td>dry standard cubic foot</td>
</tr>
<tr>
<td>EPA</td>
<td>US Environmental Protection Agency</td>
</tr>
<tr>
<td>FCAA</td>
<td>Federal Clean Air Act</td>
</tr>
<tr>
<td>gal</td>
<td>gallon(s)</td>
</tr>
<tr>
<td>gr/dscf</td>
<td>grains per dry standard cubic foot</td>
</tr>
<tr>
<td>HAP</td>
<td>Hazardous Air Pollutant as defined by OAR 340-244-0040</td>
</tr>
<tr>
<td>ID</td>
<td>identification number</td>
</tr>
<tr>
<td>I&amp;M</td>
<td>inspection and maintenance</td>
</tr>
<tr>
<td>lb</td>
<td>pound(s)</td>
</tr>
<tr>
<td>MMBtu</td>
<td>million British thermal units</td>
</tr>
<tr>
<td>NA</td>
<td>not applicable</td>
</tr>
<tr>
<td>NESHAP</td>
<td>National Emissions Standards for Hazardous Air Pollutants</td>
</tr>
<tr>
<td>NOx</td>
<td>nitrogen oxides</td>
</tr>
<tr>
<td>NSPS</td>
<td>New Source Performance Standard</td>
</tr>
<tr>
<td>NSR</td>
<td>New Source Review</td>
</tr>
<tr>
<td>O₂</td>
<td>oxygen</td>
</tr>
<tr>
<td>OAR</td>
<td>Oregon Administrative Rules</td>
</tr>
<tr>
<td>ORS</td>
<td>Oregon Revised Statutes</td>
</tr>
<tr>
<td>O&amp;M</td>
<td>operation and maintenance</td>
</tr>
<tr>
<td>Pb</td>
<td>lead</td>
</tr>
<tr>
<td>PCD</td>
<td>pollution control device</td>
</tr>
<tr>
<td>PM</td>
<td>particulate matter</td>
</tr>
<tr>
<td>PM&lt;sub&gt;10&lt;/sub&gt;</td>
<td>particulate matter less than 10 microns in size</td>
</tr>
<tr>
<td>ppm</td>
<td>part per million</td>
</tr>
<tr>
<td>ppmv</td>
<td>part per million by volume</td>
</tr>
<tr>
<td>PSD</td>
<td>Prevention of Significant Deterioration</td>
</tr>
<tr>
<td>PSEL</td>
<td>Plant Site Emission Limit</td>
</tr>
<tr>
<td>PTE</td>
<td>Potential to Emit</td>
</tr>
<tr>
<td>RACT</td>
<td>Reasonably Available Control Technology</td>
</tr>
<tr>
<td>scf</td>
<td>standard cubic foot</td>
</tr>
<tr>
<td>SER</td>
<td>Significant Emission Rate</td>
</tr>
<tr>
<td>SERP</td>
<td>Source Emission Reduction Plan</td>
</tr>
<tr>
<td>SIC</td>
<td>Standard Industrial Code</td>
</tr>
<tr>
<td>SIP</td>
<td>State Implementation Plan</td>
</tr>
<tr>
<td>SO&lt;sub&gt;2&lt;/sub&gt;</td>
<td>sulfur dioxide</td>
</tr>
<tr>
<td>Special Control Area</td>
<td>as defined in OAR 340-204-0070</td>
</tr>
<tr>
<td>VE</td>
<td>visible emissions</td>
</tr>
<tr>
<td>VOC</td>
<td>volatile organic compound</td>
</tr>
<tr>
<td>year</td>
<td>A period consisting of any 12-consecutive calendar months</td>
</tr>
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## APPENDIX A: EMISSION FACTORS

Emission Factors (EF) for Boilers

<table>
<thead>
<tr>
<th>Fuel type</th>
<th>Boiler type or controls</th>
<th>EF units</th>
<th>PM</th>
<th>PM$_{10}$</th>
<th>SO$_2$</th>
<th>NO$_X$</th>
<th>CO</th>
<th>VOC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Gas</td>
<td>Uncontrolled</td>
<td>lb/million cubic feet</td>
<td>2.5</td>
<td>2.5</td>
<td>1.7</td>
<td>100</td>
<td>84</td>
<td>5.5</td>
</tr>
<tr>
<td></td>
<td>Low NO$_X$ burners</td>
<td>lb/million cubic feet</td>
<td>2.5</td>
<td>2.5</td>
<td>1.7</td>
<td>50</td>
<td>84</td>
<td>5.5</td>
</tr>
<tr>
<td></td>
<td>Flue gas recirculation</td>
<td>lb/million cubic feet</td>
<td>2.5</td>
<td>2.5</td>
<td>1.7</td>
<td>32</td>
<td>84</td>
<td>5.5</td>
</tr>
<tr>
<td>Propane</td>
<td>All</td>
<td>lb/1000 gallons</td>
<td>0.6</td>
<td>0.6</td>
<td>0.10S$^1$</td>
<td>19</td>
<td>3.2</td>
<td>0.5</td>
</tr>
<tr>
<td>Butane</td>
<td>All</td>
<td>lb/1000 gallons</td>
<td>0.6</td>
<td>0.6</td>
<td>0.09S$^1$</td>
<td>21</td>
<td>3.6</td>
<td>0.6</td>
</tr>
<tr>
<td>#1 distillate oil</td>
<td>All</td>
<td>lb/1000 gallons</td>
<td>3.3</td>
<td>1.7$^2$</td>
<td>142S$^1$</td>
<td>18</td>
<td>5</td>
<td>0.2$^3$</td>
</tr>
<tr>
<td>#2 distillate oil</td>
<td>All</td>
<td>lb/1000 gallons</td>
<td>3.3</td>
<td>1.7$^2$</td>
<td>142S$^1$</td>
<td>20</td>
<td>5</td>
<td>0.2$^3$</td>
</tr>
<tr>
<td>#4 residual oil</td>
<td>All</td>
<td>lb/1000 gallons</td>
<td>8.5</td>
<td>7.3$^4$</td>
<td>150S$^1$</td>
<td>20</td>
<td>5</td>
<td>0.2$^3$</td>
</tr>
<tr>
<td>#5 &amp; #6 residual oil</td>
<td>All</td>
<td>lb/1000 gallons</td>
<td>11.5</td>
<td>9.9$^4$</td>
<td>157S$^1$</td>
<td>55</td>
<td>5</td>
<td>0.28$^3$</td>
</tr>
</tbody>
</table>

$^1$The sulfur dioxide emission factor is based on the sulfur content of the fuel expressed as a percent by weight. For example, if the sulfur content of #1 distillate oil is 0.3%, the emission factor is 142 x 0.3 = 42.6 lb/1000 gallons of oil burned.

$^2$PM$_{10}$ is 50% of total PM. Total PM is the sum of filterable PM and condensible PM. [AP-42 tables 1.3-1, 1.3-2, and 1.3-6]

$^3$VOC reported as non-methane total organic carbon (NMTOC).

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