



GENERAL AIR CONTAMINANT DISCHARGE PERMIT

Department of Environmental Quality
 Air Quality Program
 811 SW Sixth Avenue Portland, OR 97204-1390
 Telephone: 503-229-5359

This permit is issued in accordance with the provisions of ORS 468A.040 and OAR 340-216-0060

ISSUED BY THE DEPARTMENT OF ENVIRONMENTAL QUALITY

Signed copy on file at DEQ Headquarters Office

 Lydia Emer, Operations Division Administrator

 Dated

Table 1 Code	Source Description	SIC	NAICS
Part B, 67	Flour/grain milling, or blended flour, cereal preparation, and prepared feeds for animals and associated grain elevators located in Special Control areas, 10,000 or more tons processed per year.	2041	311211
		2043	311230
		2045	311822
		2048	311611
		2048	311119

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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 performing milling and feed operations as described on the cover page of this permit, including supporting activities.
 - b. A Simple or Standard ACDP is not required for the source.
 - c. The source is not having ongoing, recurring or serious compliance problems.
- 1.2 Assignment** DEQ will assign qualifying permittees to this permit that have and maintain a good record of compliance with DEQ's Air Quality regulations and that DEQ determines would be appropriately regulated by a General ACDP. DEQ 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** The permittee is allowed 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air contaminant source(s) listed on the first page of this permit until this permit expires, is modified, revoked or rescinded as long as conditions of this permit are complied with. 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 Simple or Standard ACDP or General ACDP Attachment(s), if applicable.
- 1.4 Relation to Local Land Use Laws** This permit is not valid in Lane County, or at any location where the operation of the permittee's processes, activities, and insignificant activities would be in violation of any local land use or zoning laws. For operation in Lane County, contact Lane Regional Air Protection Agency for any necessary permits at (541) 736-1056. It is the permittee's sole responsibility to obtain local land use approvals as, or where, applicable before operating this facility at any location.

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** Particulate matter emissions from any air contaminant source, other than fugitive emission sources, must not exceed 0.1 grain per dry standard cubic foot.
- 2.3 Fugitive Emissions** The permittee must take reasonable precautions at all times to prevent particulate matter from becoming airborne, such as but are not limited to:
 - a. Treating vehicular traffic areas of the plant site under the control of the permittee, including parking lots and dry work yards;
 - b. Operating all air contaminant generating processes so that fugitive type dust associated with the operation will be adequately controlled at all times; and
 - c. Storing process materials, products, or materials collected 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. DEQ 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 allow the emission of odorous or other emission so as to create nuisance conditions off the permittee's property. Nuisance conditions will be verified by DEQ personnel. The creation of nuisance conditions may, in addition to other action DEQ may take, result in rescinding assignment to the permit and the permittee will be required to obtain a Simple or Standard ACDP, whichever is applicable.
- 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:

0.3% sulfur by weight for ASTM Grade 1 distillate oil;
0.5% sulfur by weight for ASTM Grade 2 distillate oil;
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 to demonstrate that each shipment or batch of oil does not exceed the used oil specifications contained in 40 CFR Part 279.11, Table 1.

3.0 SPECIFIC EMISSION STANDARDS AND LIMITS

- 3.1 NSPS Subpart Dc – Standards of Performance for Boilers- Applicability** Federal New Source Performance Standards (NSPS) requirements apply to boilers for which construction, modification, or reconstruction commenced after June 9, 1989 and that have a maximum design heat input capacity between 10 million Btu/hr (MMBtu/hr) and 100 MMBtu /hour. These requirements are in addition to requirements listed elsewhere in the permit and the permittee must comply with them. The full text of the federal standards is found in 40 CFR 60, Subpart Dc. The following conditions summarize the applicable requirements of Subpart Dc, but are not intended to supersede the Subpart:

- 3.2 Definitions**
- a. **Construction** means fabrication, erection, or installation of an affected facility (boiler).
- 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.
- c. **Distillate oil** means fuel oil that complies with the specifications for fuel oil numbers 1 or 2.
- d. **Natural gas** means:
- i.* A naturally occurring mixture of hydrocarbon and non-hydrocarbon gases found in geologic formations beneath the earth's surface, of which the principal constituent is methane; or
- ii.* Liquefied petroleum (LP) gas

- e. **Residual oil** means crude oil, fuel oil that does not comply with the specifications under the definition of distillate oil, and all fuel oil numbers 4, 5, and 6.
- 3.3 Natural Gas Fired Boilers** There are no applicable emission standards for boilers that are fired exclusively with natural gas. For such units the permittee must comply with the Subpart Dc associated fuel monitoring/recordkeeping requirements of Condition 3.8a.
- 3.4 Subpart Dc Applicability of Standards**
- a. The fuel oil sulfur limits of Subpart Dc apply at all times, including periods of startup, shutdown, and malfunction.
 - b. The opacity standards of Subpart Dc apply at all times, except during periods of startup, shutdown, or malfunction.
- 3.5 Subpart Dc Fuel Oil Sulfur Limit and Compliance Monitoring**
- The sulfur content of any fuel oil burned in any Subpart Dc subject boiler must not exceed 0.5% by weight. Compliance with this limitation shall be determined using one of the following methods:
- a. 30-day Rolling Average - determine the average fuel sulfur content by sampling and analysis of the fuel prior to combustion. Collect oil samples from the fuel tank of the boiler immediately after the tank is filled and before any oil is combusted. Analyze the oil sample to determine the sulfur content of the oil. Results of the fuel analysis taken after each new shipment of oil is received shall be used as the daily value when calculating the 30-day rolling average until the next shipment is received. If the fuel analysis shows that the sulfur content in the fuel tank is greater than 0.5 weight percent sulfur, the permittee shall ensure that the sulfur content of subsequent oil shipments is low enough to cause the 30-day rolling average sulfur content to be 0.5 weight percent sulfur or less.
 - b. Use fuel supplier certification of sulfur content.
Note - fuel supplier certification cannot be used for residual oil-fired boilers with heat input capacities exceeding 30 MMBtu/hr.
- 3.6 Subpart Dc Visible Emissions Limit** For any Subpart Dc subject boiler that can burn oil and has a heat input capacity of 30 MMBtu/hr or greater, 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.
- 3.7 Subpart Dc Visible Emissions Monitoring** For any Subpart Dc subject boiler that can burn residual oil and has a heat input capacity of 30 MMBtu/hr or greater, the permittee must monitor visible emissions using one of the following two methods:

- a. Use a continuous opacity monitoring system (COMS) installed, operated, and maintained in accordance with 40 CFR §60.13. The span value shall be between 60 and 80 percent.
- b. Using Method 9 of 40 CFR 60 Appendix A-4, demonstrate compliance with the opacity limit in Condition 3.6 in the initial performance test or in a performance test conducted within 45 days of stopping use of an existing COMS. Ongoing compliance must be demonstrated as identified in Condition 3.7b.i or 3.7b.ii, as applicable.

Note: The observation period for Method 9 performance tests may be reduced from 3 hours to 60 minutes if all 6-minute averages are less than 10 percent and all individual 15-second observations are less than or equal to 20 percent during the initial 60 minutes of observation.

- i. Conduct subsequent Method 9 performance tests according to the applicable schedule below:
 - If no visible emissions are observed, a subsequent Method 9 performance test must be completed within 12 calendar months from the date the most recent performance test was conducted;
 - If visible emissions are observed but the maximum 6-minute average opacity is less than or equal to 5 percent, a subsequent Method 9 performance test must be completed within 6 calendar months from the date the most recent performance test was conducted;
 - If the maximum 6-minute average opacity is greater than 5 percent but less than or equal to 10 percent, a subsequent Method 9 performance test must be completed within 3 calendar months from the date the most recent performance test was conducted; or
 - If the maximum 6-minute average opacity is greater than 10 percent, a subsequent Method 9 performance test must be completed within 45 calendar days from the date the most recent performance test was conducted.
- ii. If the maximum 6-minute opacity is less than 10 percent during the most recent Method 9 performance test, the permittee may, as an

alternative to performing subsequent Method 9 performance tests, elect to perform subsequent monitoring using EPA Method 22 according to the procedures below:

- Using Method 22, the permittee shall conduct 10 minute observations (during normal operation) each operating day the subject boiler fires fuel for which an opacity standard is applicable and demonstrate that the sum of the occurrences of any visible emissions is not in excess of 5 percent of the observation period. If the sum of observed visible emissions is greater than 30 seconds during the initial 10 minute observation, the permittee shall immediately conduct a 30 minute observation. If the sum of observed visible emissions is greater than 5 percent of the observation period, the permittee shall either document and adjust the operation of the facility, then demonstrate within 24 hours that the sum of the occurrence of visible emissions is equal to or less than 5 percent during a 30 minute observation or conduct a new Method 9 performance test within 45 calendar days.
- If no visible emissions are observed for 30 operating days during which an opacity standard is applicable, observations can be reduced to once every 7 operating days during which an opacity standard is applicable. If any visible emissions are observed, daily observations shall be resumed.

**3.8 Subpart Dc
Recordkeeping
and Reporting
Requirements**

The permittee must monitor and keep the following Subpart Dc related records and submit reports as applicable:

- a. Monitor and maintain records of fuel usage in each Subpart Dc subject boiler as follows:
 - i. Record and maintain records of the amount of each fuel combusted in the subject boiler during each operating day.
 - ii. As an alternative to performing daily fuel usage monitoring, the permittee may elect to record and maintain records of the amount of each fuel

- combusted during each calendar month provided the permittee only combusts natural gas or an oil fuel for which fuel supplier certification is used to demonstrate compliance with sulfur limitation of Condition 3.5.
- iii. As an alternative to performing daily fuel usage monitoring, the permittee may elect to record and maintain records of the total amount of each boiler fuel delivered to the contiguous property during each calendar month provided the only fuels combusted in any boiler (including units not subject to Subpart Dc) are natural gas and/or distillate oil.
- b. The permittee must submit semi-annual reports to DEQ and the EPA Administrator for each Subpart Dc subject boiler that is subject to the fuel oil sulfur limits of Condition 3.5. The following records must be kept, as applicable, and included in the semi-annual reports.
- i. The calendar dates covered in the reporting period;
 - ii. Each 30-day average sulfur content (weight percent) calculated during the reporting period ending with the last 30-day period; reasons for any noncompliance with the emission standards; and a description of corrective actions taken.
 - iii. Identify any times when emissions data have been excluded from the calculation of average emission rates; justification for excluding data; and a description of corrective actions taken if data have been excluded for periods other than those during which oil was not combusted in the boiler.
 - iv. If fuel supplier certification is used to demonstrate compliance, records of fuel supplier certification as described in Condition 3.8c, 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.
- c. If fuel supplier certifications are used to demonstrate compliance, records of fuel supplier certifications shall 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 §60.41c;
 - The sulfur content or maximum sulfur content of the oil.
 - 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.
- d. For any boiler subject to the opacity limits in Condition 3.6, the permittee shall submit excess emission reports for any excess emissions from the boiler that occur during the reporting period and maintain records according to the following requirements, as applicable to the visible emissions monitoring method used:
- i. If opacity is monitored with a COMS, the permittee shall submit excess emissions reports as required by 40 CFR 60.7.
 - ii. For each performance test conducted using EPA Method 9, the permittee shall keep the following records:
 - Dates and time intervals of all opacity observation periods;
 - Name, affiliation, and copy of current visible emission reader's certification for the observer conducting the performance test; and
 - Copies of all visible emission observer opacity field data sheets.
 - iii. For each performance test conducted using EPA

Method 22, the permittee shall keep the following records:

- Dates and time intervals of all visible emissions observation periods;
 - Name and affiliation for each visible emission observer participating in the performance test;
 - Copies of all visible emission observer opacity field data sheets; and
 - Documentation of any adjustments made and the time the adjustments were completed to the affected facility operation by the permittee to demonstrate compliance with the applicable
- e. Semiannual report periods are the periods January 1 – June 30 and July 1 – December 31st. Each semiannual report for the first period must be postmarked by July 30th. The semiannual report for the second period is due each January 30th or may be submitted with the permittee's regular annual report submittal (Condition 8.2), due February 15th. Each semiannual report must be postmarked by the 30th day following the end of the six-month reporting period.

- 3.9 Subpart Dc Record Retention** The permittee must maintain Subpart Dc required records onsite, for a period of at least two (2) years.
- 3.10 NSPS Subpart DD – Standards of Performance for Grain Storage Facilities - Applicability** Federal NSPS Subpart DD requirements apply to grain storage elevators for which construction, modification, or reconstruction commenced after August 3, 1978 and that have permanent storage capacity of at least one million bushels. NSPS Subpart DD requirements apply to the milling of wheat flour, wet corn, dry corn for human consumption, rice, and soybean oil extraction. The manufacture of animal feed, pet feed, and cereal is exempted from these requirements. Subpart DD affected facilities are each truck unloading station, truck loading station, barge and ship unloading station, barge and ship loading station, railcar loading station, railcar unloading station, grain dryer, and all grain handling operations.
The following conditions summarize the applicable requirements of Subpart DD, but are not intended to supersede the Subpart:
- 3.11 Subpart DD Opacity Limits for** The permittee must not allow an exceedance of the following opacity limitations:

**Grain Storage
Facilities**

- a. Column or rack dryers – 0%
- b. Truck unloading, railcar unloading or loading – 5%
- c. Truck loading – 10%
- d. Barge or ship loading – 20%
- e. Grain handling operations – 0%

**3.12 Subpart DD
Particulate Matter
Limits for Grain
Storage Facilities**

Process emissions discharged into the atmosphere from any affected facility, except grain dryers, must not contain particulate matter that exceeds 0.01 grains per dry standard cubic foot (gr/dscf) as measured by EPA Method 5.

**3.13 Subpart DD
Standards for
Barge or Ship
Unloading**

The permittee must comply with the following Subpart DD standards for barge or ship unloading stations:

- a. The unloading leg must be enclosed from the top to the center line of the bottom pulley and ventilation to a control device shall be maintained on both sides of the leg and the grain receiving hopper.
- b. The total rate of air ventilated must be at least 32.1 actual cubic meters per cubic meter of grain handling capacity (40 ft³/Btu).
- c. The permittee may use alternative methods of emission control from that specified in a. and b. above, upon approval by DEQ/EPA Administrator.

**3.14 NSPS Subpart Dc
and/or DD Initial
Notifications**

For new, modified or reconstructed boilers or grain processing facilities subject to New Source Performance Standards (NSPS) in 40 CFR Part 60, subparts Dc or DD, notification must be submitted to DEQ and the EPA Administrator of the anticipated date construction is commenced, postmarked no later than 30 days after such date. For boilers, the notification must include the following:

- a. The design heat input capacity of the boilers and identification of fuels to be combusted.
- b. The annual capacity at which the permittee anticipates operating the boilers based on all fuels combusted and based on each individual fuel combusted.
- c. For any boiler subject to the fuel sulfur limits of Condition 3.5 or opacity limits of Condition 3.6, submit to DEQ and the EPA Administrator, the performance test data from the initial and any subsequent performance tests and, if applicable, the performance evaluation of the

COMS.

- 3.15 NSPS Subpart Dc and/or DD Startup Notifications** For new, modified or reconstructed boilers or grain processing facilities subject to the NSPS, notification must be submitted to DEQ and the EPA Administrator of the actual date of startup, postmarked within 15 days of such date.
- 3.16 NSPS Subpart Dc and/or DD Initial Performance Test** For new, modified or reconstructed boilers or grain processing facilities subject to the NSPS, the permittee must conduct an initial performance test as required in 40 CFR 60.8 and the applicable NSPS Subpart. The initial performance test shall be completed no later than 180 days after the date of initial startup of the affected facility.
- 3.17 Where to Send NSPS Notifications and Reports** All notifications and quarterly reports must be submitted to DEQ at the address provided in Condition 9.3 and to the EPA at the following address:
Director
Air and Waste Management Division
U.S. Environmental Protection Agency
Mail Stop OAQ-107
1200 Sixth Avenue
Seattle, WA 98101-3188
- 3.18 NESHAP Subpart DDDDDDD for Prepared Feeds Manufacturing** The permittee is subject to the NESHAP if the prepared feeds manufacturing facility uses a material containing chromium or manganese. The permittee is no longer subject to the NESHAP if the facility stops using materials containing chromium or manganese.
- 3.19 Definitions** *Material containing chromium* means a material that contains chromium (Cr) in amounts greater than or equal to 0.1 percent by weight.
Material containing manganese means a material that contains manganese (Mn) in amounts greater than or equal to 1.0 percent by weight.
- 3.20 NESHAP Subpart DDDDDDD Compliance Dates**
- a. Existing source. If the facility is existing, the permittee must achieve compliance with the applicable provisions of the NESHAP by no later than January 5, 2012. A prepared feeds manufacturing facility is existing if construction or reconstruction of the facility commenced on or before July 27, 2009.
 - b. New source. If the facility is new, the permittee must achieve compliance with the applicable provisions of the NESHAP upon startup of the affected source. A prepared feeds manufacturing facility is new if construction or

reconstruction of the facility commenced after July 27, 2009.

- c. A facility becomes an affected source when commencing to use a material containing chromium or a material containing manganese. If the facility becomes an affected source after the applicable compliance date in Condition 3.20a or 3.20b, the permittee must achieve compliance with the applicable provisions of the NESHAP by the date that the facility commences using a material containing manganese or a material containing chromium.
- d. If the average daily feed production level exceeds 50 tons per day for a calendar year for a facility not complying with the requirement to install and operate a cyclone to control emissions from pelleting operations, the permittee must comply with Condition 3.24 and all associated requirements by July 1 of the year following the one-year period.

**3.21 NESHAP Subpart
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Compliance**

The permittee must comply with the management practices and standards in Conditions 3.23 and 3.24 at all times.

**3.22 NESHAP Subpart
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Notification**

Initial Notification. If subject to the NESHAP, the permittee must submit an Initial Notification no later than 120 days after the permittee becomes subject to the NESHAP, whichever is later. The Initial Notification must include the following information:

- a. The name, address, phone number and e-mail address of the owner and operator;
- b. The address (physical location) of the affected source;
- c. An identification of the relevant standard (*i.e.*, the Prepared Feeds NESHAP); and
- d. A brief description of the operation.
- e. Notification of Compliance Status. If subject to the NESHAP, the permittee must submit a Notification of Compliance Status in accordance with 40 CFR 63.9(h) on or before May 4, 2012. If the permittee is the owner or operator of a new affected source, the permittee must submit a Notification of Compliance Status within 120 days of initial startup. If the permittee owns or operates an affected source that becomes an affected source in accordance with Condition 3.20c after the applicable compliance date in Condition 3.20a or 3.20b, the

permittee must submit a Notification of Compliance Status within 120 days of the date that the permittee commence using materials containing manganese or chromium. The Notification of Compliance Status must include the following information:

- f. The permittee's company name and address;
- g. A statement by a responsible official with that official's name, title, phone number, e-mail address and signature, certifying the truth, accuracy, and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of the NESHAP;
- h. If the permittee owns or operates an affected source required by Condition 3.24 to install and operate a cyclone to control emissions from pelleting operations, the inlet flow rate, inlet velocity, pressure drop, or fan amperage range that constitutes proper operation of the cyclone determined in accordance with Condition 3.24b.
- i. If the permittee owns or operates an affected source that is not subject to the requirement in Condition 3.24 to install and operate a cyclone to control emissions from pelleting operations because the permittee's initial average daily feed production level was 50 tons per day or less, documentation of the initial average daily feed production level determination.
- j. If the permittee no longer use materials that contain manganese or chromium after January 5, 2010, the permittee must submit a Notification which includes the following information:
 - i. The permittee's company name and address;
 - ii. A statement by a responsible official indicating that the facility no longer uses materials that contain chromium or manganese. This statement must also include an effective date for the termination of use of materials that contain chromium or manganese, and the responsible official's name, title, phone number, e-mail address and signature.

**3.23 NESHAP Subpart
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Management
Practices**

In all areas of the affected source where materials containing chromium or manganese are stored, used, or handled, the permittee must comply with the following management practices:

- a. The permittee must perform housekeeping measures to minimize excess dust. These measures must include, but not be limited to, the following practices:
- b. The permittee must use either an industrial vacuum system or manual sweeping to reduce the amount of dust;
- c. At least once per month, the permittee must remove dust from walls, ledges, and equipment using low pressure air or by other means, and then sweep or vacuum the area;
- d. The permittee must keep doors shut except during normal ingress and egress.
- e. The permittee must maintain and operate all process equipment in accordance with manufacturer's specifications and in a manner to minimize dust creation.
- f. The permittee must store any raw materials containing chromium or manganese in closed containers.
- g. The mixer where materials containing chromium or manganese are added must be covered at all times when mixing is occurring, except when the materials are being added to the mixer. Materials containing chromium or manganese must be added to the mixer in a manner that minimizes emissions.
- h. For the bulk loading process where prepared feed products containing chromium or manganese are loaded into trucks or railcars, the permittee must use a device at the loadout end of each bulk loader to lessen fugitive emissions by reducing the distance between the loading arm and the truck or railcar.

**3.24 NESHAP Subpart
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Emission Controls**

For pelleting operations at prepared feeds manufacturing facilities with an average daily feed production level exceeding 50 tons per day, the permittee must capture emissions and route them to a cyclone designed to reduce emissions of particulate matter by 95 percent or greater. The permittee must also comply with the following provisions:

- a. The permittee must demonstrate that the cyclone is designed to reduce emissions of particulate matter by 95 percent or greater using manufacturer specifications, certification by a professional engineer or responsible official, or a performance test.
- b. The permittee must establish an inlet flow rate, inlet velocity, pressure drop, or fan amperage range that

represents proper operation of the cyclone in accordance with the following applicable requirement:

- c. If demonstrating the cyclone design efficiency using manufacturer specifications, the inlet flow rate, inlet velocity, pressure drop, or fan amperage range that represents proper operation of the cyclone must be provided by the manufacturer.
- d. If demonstrating the cyclone design efficiency using certification by a professional engineer or responsible official, this certification must include calculations to establish an inlet flow rate, inlet velocity, pressure drop, or fan amperage range that represents proper operation of the cyclone.
- e. If demonstrating the cyclone design efficiency using a performance test, the permittee must monitor the inlet flow rate, inlet velocity, pressure drop, or fan amperage during the test and establish a range that represents proper operation of the cyclone based on the data obtained during the test.
- f. The permittee must maintain and operate the cyclone in accordance with manufacturer's specifications. If manufacturer's specifications are not available, the permittee must develop and follow standard maintenance and operating procedures that ensure proper operation of the cyclone.

4.0 OPERATION AND MAINTENANCE REQUIREMENTS

- 4.1 Work Practices** Notwithstanding Conditions 4.2 and 4.3, the permittee must perform an inspection of the facility at least once each month to ensure that reasonable precautions are being taken to minimize fugitive emissions and that all pollution control equipment are working properly. The permittee must not operate air contaminant producing processes unless the pollution control equipment controlling the process is on and properly functioning.
- 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)

The permittee must not allow plant site emissions to exceed the following:

Pollutant	Limit	Units
PM	24	tons per year
PM ₁₀	14	tons per year
SO ₂	39	tons per year
NO _x	39	tons per year
CO	99	tons per year
VOC	39	tons per year

5.2 PM₁₀ PSEL for Medford-Ashland AQMA

For sources operating in the Medford-Ashland AQMA, the permittee must not allow plant site emissions of PM₁₀ to exceed the following:

Pollutant	Limit	Units
PM ₁₀	4.5	tons per year
	49	pounds per day

5.3 Annual Period

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

6.0 COMPLIANCE DEMONSTRATION

6.1 NSPS Subpart Dc Performance Test

For new boilers that combust oil and have a heat input capacity greater than 30 million Btu/hr and are subject to 40 CFR, Part 60, Subpart Dc, the permittee must conduct an initial visible emissions performance test within 60 days after achieving the maximum production rate at which the boiler will be operated, but not later than 180 days after initial startup of the boiler.

- a. Visible emissions observations must be conducted in accordance with EPA Method 9 while burning oil.
- b. The minimum total time of observations must be 3 hours

(30 six-minute averages).

6.2 NSPS Subpart DD Performance Test

For a facility subject to Subpart DD, the permittee must conduct an initial stack test within 60 days of achieving the maximum production rate but not later than 180 days after initial startup to ensure that the grain loading and visible emissions limits in Conditions 3.11 and 3.12 are met. Dryer stacks are exempt.

- a. EPA Methods 1-5 must be used to determine the particulate matter concentration and the volumetric flow rate of the effluent gas. Each test run must be at least 60 minutes in duration and the volume of gas sampled must be at least 60 dry standard cubic feet. For Method 5, the probe and filter holder must be operated without heaters.
- b. A visible emissions observation test must be conducted in accordance with EPA Method 9 and 40 CFR §60.11(b) (3 hour observation period).

6.3 NESHAP Subpart DDDDDDD Testing

- a. If the permittee is demonstrating that the cyclone required by Condition 3.24 is designed to reduce emissions of particulate matter by 95 percent or greater by the performance test option, the permittee must conduct a test in accordance with Condition 6.3b and calculate the percent reduction in accordance with Condition 6.3c.
- b. The permittee must use Method 5 in Appendix A to 40 CFR Part 60 to determine the particulate matter mass rate at the inlet and outlet of the cyclone. The permittee must conduct at least three runs at the cyclone inlet and three runs at the cyclone outlet. Each run must have a sampling time of at least 60 minutes and a sample volume of at least 0.85 dscm (30 dscf).
- c. The permittee must calculate the percent particulate matter reduction using the following equation:

where:

$PM\ Red$ = particulate matter reduction, percent;

M_{INLET} = mass of particulate matter at the inlet of the cyclone, dry basis, corrected to standard conditions, g/min;

M_{OUTLET} = mass of particulate matter at the outlet of the cyclone, dry basis, corrected to standard conditions, g/min;

6.4 Monitoring Requirements

The permittee must monitor the operation and maintenance of the plant and associated air contaminant control devices as follows:

- a. Maintain monthly records of the amount of materials

processed for each activity listed in Condition 6.7.

- b. Maintain monthly records of amount of fuel burned by type and sulfur content of fuel oils (supplier certificates).
- c. Maintain reports for the monthly plant inspections.
- d. Maintain a log of complaints received at the facility.

6.5 PSEL Compliance Monitoring

Compliance with the PSEL is determined for each 12-consecutive calendar month period based on the following calculation for each pollutant: [Note: calculations are not required to be submitted unless requested by DEQ]

$$E = \sum (EF \times P)/2000$$

where

- E = pollutant emissions (ton/yr);
- EF = pollutant emission factor (see Conditions 6.7 and 6.9);
- P = process production for each activity (tons) or amounts of fuels burned in the boiler(s)

6.6 NESHAP Subpart

If required by Condition 3.23h to use a device at the loadout end of a bulk loader that reduces fugitive emissions from a bulk loading process, the permittee must perform monthly inspections of each device to ensure it is in proper working condition.

- b. If required by Condition 3.24 to install and operate a cyclone to control emissions from pelleting operations, the permittee must comply with the following inspection and monitoring requirements:
 - i. The permittee must perform quarterly inspections of the cyclone for corrosion, erosion, or any other damage that could result in air in-leakage.
 - ii. The permittee must monitor inlet flow rate, inlet velocity, pressure drop, or fan amperage at least once per day when the pelleting process is in operation.

6.7 Emission Factors

The permittee must use the default emission factors provided below for calculating pollutant emissions, unless alternative emission factors are approved by DEQ. The permittee may request or DEQ 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 DEQ.

Activity	Emission Factor (EF)	
	PM (lb/ton)	PM ₁₀ (lb/ton)
Grain receiving	0.017	0.0025
Grain cleaning:		

no control	0.5	0.125
Cyclone	0.075	0.0187
Grain milling:		
Hammermill – cyclone	0.067	0.033
Hammermill – baghouse	0.012	0.012
Rollermill (wheat) no control	70	35
flaker – no control	1.0	0.5
flaker – cyclone	0.15	0.075
grain cracker – no control	0.16	0.08
grain cracker – cyclone	0.024	0.012
Pelletizing:		
no control	2.4	1.2
Cyclone	0.36	0.18
high efficiency cyclone	0.15	0.075
Bulk shipping	0.0033	0.0008

6.8 Emission Factors for Control Devices

For activities with add-on pollution control equipment such as a baghouse, the emission factors for the controlled activity are equal to 10% of the factors listed above.

6.9 Emission Factors for fuel burning

The emission factors for boilers are as follows:

Pollutant	Emission factors by fuel type		
	#1&2 oil (lb/10 ³ gal)	#3, 4, 5&6 oil (lb/10 ³ gal)	natural gas/ propane (lb/10 ⁶ ft ³)
PM	3.3	11.5	2.5
PM ₁₀	2.3	8.2	2.5
SO ₂	142S ¹	157S ¹	1.7
NO _x	20	55	100
CO	5	5	84
VOC	0.2	0.28	5.5

¹Calculate emission factor based on sulfur content of fuel. For example, if the fuel contains 0.5% sulfur by weight, the factor would be 142 x 0.5 = 71 lb/1000 gallons of oil for #2 fuel oil.

7.1 RECORDKEEPING REQUIREMENTS

7.1 Monitoring Requirements

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

- a. Amount of materials processed on a monthly basis by activity;
- b. Amount of each fuel burned in boilers;
- c. Sulfur content of fuel oil from vendor certification;
- d. If used oil is used, the permittee must obtain analyses from the marketer or, if generated on site, have the used oil analyzed, so that the permittee can demonstrate that each shipment or batch of oil does not exceed the used oil specifications contained in 40 CFR Part 279.11, Table 1; and
- e. Results of monthly plant inspections.

7.2 NESHAP Subpart DDDDDDD Recordkeeping

The permittee must maintain the following records in a form suitable and readily available for expeditious review. The permittee must keep each record for 5 years following the date of each recorded action. The permittee must keep each record onsite for at least 2 years after the date of each recorded action. The permittee may keep the records offsite for the remaining 3 years.

- a. The permittee must keep a copy of each notification that the permittee submitted to comply with the NESHAP in accordance with Condition 3.22, and all documentation supporting any Initial Notification or Notification of Compliance Status that the permittee submitted.
- b. The permittee must keep a copy of each Annual Compliance Certification prepared in accordance with Condition 8.3.
- c. For each device used to comply with the requirements in Condition 3.23h, the permittee must keep the records of all inspections including:
 - d. The date, place, and time of each inspection;
 - e. Person performing the inspection; and
 - f. Results of the inspection, including the date, time, and duration of the corrective action period from the time the inspection indicated a problem to the time of the indication that the device was replaced or restored to operation.
- g. For each cyclone used to comply with the requirements in Condition 3.24, the permittee must keep the inlet flow rate, inlet velocity, pressure drop, or fan amperage range that represents proper operation of the cyclone, the operation and maintenance procedures to ensure proper operation of the cyclone, and the following:
 - h. If the permittee demonstrates that the cyclone is designed to reduce emission of particulate matter by 95 percent or greater by manufacturer's specifications in accordance with Condition 3.24c, the permittee must keep information from the manufacturer regarding the design efficiency of the cyclone.
 - i. If the permittee demonstrates that the cyclone is designed to reduce emissions of particulate matter by 95 percent or greater by certification by a professional engineer in accordance with Condition 3.24d, the permittee must keep the certification regarding the design efficiency of the cyclone, along with supporting information.
- j. Records of all quarterly inspections including the date, place, and time of each inspection; person performing the inspection; and results of the inspection, including the date, time, and duration of the corrective action period from the time the inspection indicated a problem to the time of the indication that the cyclone was restored to proper operation.

- k. Records of the daily inlet flow rate, inlet velocity, pressure drop, or fan amperage measurements, along with the date, time, and duration of the correction action period from the time the monitoring indicated a problem to the time of the indication that the cyclone was restored to proper operation.
- l. If the permittee owns or operates an affected source that is not subject to the requirement in Condition 3.24 to install and operate a cyclone to control emissions from pelleting operations because the permittee's average daily feed production level is 50 tons per day or less, feed production records to enable the determination of the average daily feed production level.

- 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 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 minute period.
- 7.5 Retention of Records** Unless otherwise specified, all records must be maintained on site for a period of two (2) years and made available to DEQ upon request.

8.0 REPORTING REQUIREMENTS

- 8.1 Excess Emissions** The permittee must notify DEQ by telephone or in person of any excess emissions which are of a nature that could endanger public health.
- a. The permittee must provide such notice 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 DEQ 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 DEQ.

8.2 Annual Report

The permittee must submit to DEQ 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:
 - The amount of materials processed in tons for each activity identified in Condition 6.7;
 - The type and amount of fuels burned in boilers;
- b. Records of all planned and unplanned excess emissions events.
- 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.
- f. List the current plant site contact. Provide name, title, phone number and email address.
- g. All reports and certifications submitted to DEQ under Divisions 200 to 264 must accurately reflect the monitoring, record keeping and other documentation held or performed by the owner or operator.

**8.3 NESHAP Subpart
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Annual
Compliance
Certification
Report**

The permittee must submit, with the annual report required in Condition 8.2, an annual compliance certification report for the previous calendar year containing the following information:

- a. The permittee's company name and address.
- b. A statement by a responsible official with that official's name, title, phone number, e-mail address and signature, certifying the truth, accuracy, and completeness of the report and a statement of whether the source has complied with all the relevant standards and other requirements of the NESHAP.
- c. If the source is not in compliance, include a description of deviations from the applicable requirements, the time

periods during which the deviations occurred, and the corrective actions taken.

- d. Identification of all instances when the daily inlet flow rate, inlet velocity, pressure drop, or fan amperage is outside range that constitutes proper operation of the cyclone submitted as part of the permittee's Notification of Compliance Status. In these instances, include the time periods when this occurred and the corrective actions taken.
- e. If the permittee owns or operates an affected source that is not subject to the requirement in Condition 3.24 to install and operate a cyclone to control emissions from pelleting operations because the permittee's average daily feed production level was 50 tons per day or less, notification if the permittee's average daily feed production level for the previous year exceeded 50 tons per day.
- f. If the permittee owns or operates an affected source that was subject to the requirement in Condition 3.24 to install and operate a cyclone to control emissions from pelleting operations, notification if the permittee's average daily feed production level for the previous year was 50 tons per day or less and that the permittee are no longer complying with Condition 3.24.

- 8.4 Initial Startup Notice**

The permittee must notify DEQ in writing of the date a new facility is started up. The notification must be submitted no later than seven (7) days after startup.
- 8.5 Notice of Change of Ownership or Company Name**

The permittee must notify DEQ in writing using a DEQ "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.
- 8.6 Construction or Modification Notices**

The permittee must notify DEQ in writing using a DEQ "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.

8.7 Where to Send Reports and Notices

The reports, with the permit number prominently displayed, must be sent to the Permit Coordinator for the regional office 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. DEQ will notify the permittee when the permit is reissued. The application must be sent to the appropriate regional office.

- a. If DEQ 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 DEQ 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 DEQ 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:

Counties	Permit Coordinator Address and Telephone
Clackamas, Clatsop, Columbia, Multnomah, Tillamook, and Washington	Department of Environmental Quality Northwest Region 700 NE Multnomah Street, Suite 600 Portland, OR 97232 Telephone: (503) 229-5582
Benton, Coos, Curry, Douglas, Jackson, Josephine, Lincoln, Linn, Marion, Polk, and Yamhill	Department of Environmental Quality Western Region 4026 Fairview Industrial Drive Salem, OR 97302 Telephone: (503) 378-8240 ext. 225

Baker, Crook, Deschutes, Gilliam, Grant, Harney, Hood River, Jefferson, Klamath, Lake, Malheur, Morrow, Sherman, Umatilla, Union, Wallowa, Wasco, Wheeler	Department of Environmental Quality Eastern Region 475 NE Bellevue, Suite 110 Bend, OR 97701 Telephone: (541) 388-6146 ext. 223
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9.3 Department Contacts

Information about air quality permits and DEQ's regulations may be obtained from the DEQ web page at 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. DEQ's regional offices are as follows:

Counties	Office Address and Telephone
Clackamas, Clatsop, Columbia, Multnomah, Tillamook, and Washington	Department of Environmental Quality Northwest Region 700 NE Multnomah Street, Suite 600 Portland, OR 97232 Telephone: (503) 229-5263
Benton, Lincoln, Linn, Marion, Polk, and Yamhill	Department of Environmental Quality Salem Office 4026 Fairview Industrial Drive Salem, OR 97302 Telephone: (503) 378-8240
Coos, Curry, and Western Douglas	Department of Environmental Quality Coos Bay Office 381 N Second Street Coos Bay, OR 97420 Telephone: (541) 269-2721
Eastern Douglas, Jackson, and Josephine	Department of Environmental Quality Medford Office 221 Stewart Avenue, Suite 201 Medford, OR 97501 Telephone: (541) 776-6010
Crook, Deschutes, Harney, Hood River, Jefferson, Sherman, Wasco, and Wheeler	Department of Environmental Quality Bend Office 475 NE Bellevue, Suite 110 Bend, OR 97701 Telephone: (541) 388-6146
Baker, Gilliam, Grant, Malheur, Morrow, Umatilla, Union, and Wallowa	Department of Environmental Quality Pendleton Office 800 SE Emigrant Avenue, Suite 330 Pendleton, OR 97801 Telephone: (541) 276-4063
Klamath and Lake	Department of Environmental Quality Klamath Falls Office 317 South 7 th Street, Suite 231 Klamath Falls, OR 97601 Telephone: (541) 273-7002

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 One General ACDP is due on **December 1** of each year this permit is in effect. An invoice indicating the amount, as determined by DEQ 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 DEQ.
- 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 DEQ Access** The permittee must allow DEQ'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 limit 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 Modification or Revocation** The Commission may modify or revoke this permit pursuant to OAR 340-216-0060(3) and (4).

12.0 ABBREVIATIONS, ACRONYMS, AND DEFINITIONS

ACDP	Air Contaminant Discharge Permit	NSR	New Source Review
ASTM	American Society for Testing and Materials	O ₂	oxygen
AQMA	Air Quality Maintenance Area	OAR	Oregon Administrative Rules
calendar year	The 12-month period beginning January 1st and ending December 31st	ORS	Oregon Revised Statutes
CFR	Code of Federal Regulations	O&M	operation and maintenance
CO	carbon monoxide	Pb	lead
DEQ	Oregon Department of Environmental Quality	PCD	pollution control device
dscf	dry standard cubic foot	PM	particulate matter
EPA	US Environmental Protection Agency	PM ₁₀	particulate matter less than 10 microns in size
FCAA	Federal Clean Air Act	ppm	part per million
gal	gallon(s)	PSD	Prevention of Significant Deterioration
gr/dscf	grains per dry standard cubic foot	PSEL	Plant Site Emission Limit
HAP	Hazardous Air Pollutant as defined by OAR 340-244-0040	PTE	Potential to Emit
ID	identification number	RACT	Reasonably Available Control Technology
I&M	inspection and maintenance	scf	standard cubic foot
lb	pound(s)	SER	Significant Emission Rate
MMBtu	million British thermal units	SIC	Standard Industrial Code
NA	not applicable	SIP	State Implementation Plan
NESHAP	National Emissions Standards for Hazardous Air Pollutants	SO ₂	sulfur dioxide
NO _x	nitrogen oxides	Special Control Area	as defined in OAR 340-204-0070
NSPS	New Source Performance Standard	VE	visible emissions
		VOC	volatile organic compound
		year	A period consisting of any 12-consecutive calendar months