

GENERAL AIR CONTAMINANT DISCHARGE PERMIT

Department of Environmental Quality
Air Quality Division
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 incorporated into OAR 340-216-0060 by the Environmental Quality Commission on October 17, 2007 for the following source category:

Stationary and portable concrete manufacturing, including ready-mix and Cement Treated Base, and associated material handling activities such as storage piles, conveyors, and vehicle traffic. Other equipment may include electrical generators with internal combustion engines. SIC 3271, 3272, 3273

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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 performing the concrete manufacturing activities listed 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 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 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air contaminant source(s) listed on the first page of this permit until this permit expires, is modified, revoked or rescinded as long as conditions of this permit are complied with.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 Standard Permit or additional General ACDPs, 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 Pollution Authority 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. In Clackamas, Columbia, Multnomah, or Washington Counties, emissions from fuel burning equipment must not exceed an opacity equal to or greater than 20% 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.
 - c. In all other areas of the state, 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.
- 2.2 Fugitive Emissions The permittee must control fugitive dust emissions by:
- a. Controlling vehicle speeds on unpaved roadways.
 - b. Treating vehicular traffic areas of the plant site under the control of the permittee.
 - c. Operating all air contaminant-generating processes so that fugitive type dust associated with the operation will be adequately controlled at all times.
 - d. Treating storage piles, as necessary.
 - e. Prompt removal of “tracked-out” material from paved areas.
 - f. 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.
- 2.3 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.
- 2.4 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.

- 2.5 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 OPERATION AND MAINTENANCE REQUIREMENTS

- 3.1 Work practices The permittee must employ bag filters on the silo(s) and water sprays on the truck loader to minimize fugitive dust emissions.
- 3.2 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.
- 3.3 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.

4.0 PLANT SITE EMISSION LIMITS

- 4.1 Plant Site Emission Limits (PSEL) Plant site emissions must not 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

- 4.2 PM₁₀ PSEL for Medford-Ashland AQMA For sources operating in the Medford-Ashland AQMA, plant site emissions of PM₁₀ must not exceed the following:

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

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

5.0 COMPLIANCE DEMONSTRATION

- 5.1 Fuel Sulfur Monitoring If fuel oil is burned, the permittee must either obtain a certificate from the vendor stating that the fuel sulfur content complies with the limits in Condition 2.5, or have a sample of the fuel analyzed in accordance with the appropriate ASTM analytical procedures. If the permittee has samples analyzed for sulfur, a sample must be collected from the holding tank just after each shipment of oil is added to the tank.

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

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

where,

$$E = \text{pollutant emissions (ton/yr);}$$

EF = pollutant emission factor (see below);
 P = process production (cubic yards of concrete and gallons of fuel burned for the generators)

5.3 Emission Factors

The emission factors for determining compliance with the PSEL are as follows:

Emissions device or activity	Pollutant	Emission Factor (EF)	Emission factor units
Concrete Production	PM/PM ₁₀	0.02	lb/cubic yard of concrete
Generator(s) (oil-fired)	PM/PM ₁₀	42.5	lb/1000 gallon of fuel burned
	SO ₂	39.7	lb/1000 gallon of fuel burned
	NO _x	604	lb/1000 gallon of fuel burned
	CO	130	lb/1000 gallon of fuel burned
	VOC	49.3	lb/1000 gallon of fuel burned
Generator(s) (natural gas, propane, and butane -fired)	PM/PM ₁₀	10	lb/million cubic feet of NG burned
	SO ₂	0.6	lb/million cubic feet of NG burned
	NO _x	2840	lb/million cubic feet of NG burned
	CO	399	lb/million cubic feet of NG burned
	VOC	116	lb/million cubic feet of NG burned

5.4 Medford/Ashland AQMA

If the source operates in the Medford/Ashland AQMA, the permittee must also maintain records of daily concrete production and calculate the daily maximum emissions for the reporting period.

6.0 RECORDKEEPING REQUIREMENTS

- 6.1 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. Concrete produced in Oregon on a monthly basis for each site of operation;
 - b. Concrete produced in PM₁₀ Nonattainment Areas in Oregon on a daily basis for each site of operation;
 - c. Types and quantities of fuels burned in the generator(s) in Oregon on a monthly basis for each site of operation;
 - d. Types and quantities of fuel burned in the generator(s) in PM₁₀ Nonattainment Areas in Oregon on a daily basis for each site of operation;
 - e. Sulfur content from vendor certification of each shipment of fuel oil, if used at the plant; and
 - f. 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 it can be demonstrated that each shipment or batch of oil does not exceed the used oil specifications contained in 40 CFR Part 279.11, Table 1.
- 6.2 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-minute period.
- 6.3 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.
- 6.4 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.

7.0 REPORTING REQUIREMENTS

- 7.1 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 8.3.
 - 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.
- 7.2 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. Amount of concrete produced in Oregon on an annual basis (cubic yards).
 - ii. Types and quantities of fuels burned in the generator in Oregon on an annual basis.
 - iii. A list of and dates and times of operation in all PM₁₀ nonattainment areas; including annual and maximum daily concrete production and annual and maximum daily fuel usage in the generator(s) in these areas.
 - b. Records of all planned and unplanned excess emissions events.
 - c. Summary of complaints related to air quality received by permittee.
 - 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.

- 7.3 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.
- 7.4 Portable Plants - Relocation Notice
If the facility is portable, the permittee must not install or operate the facility or any portion of the facility at any new site without first providing written notice to the Permit Coordinator in the appropriate regional office. The written notice must include the date of the proposed move, approximate dates of operation, a detailed map showing access to the new site, and a description of the air pollution controls and procedures to be installed, operated, and practiced at the new site. Additional permits may be required if the permittee operates individual components of the facility at more than one site at a time.
- 7.5 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 of 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.
- 7.6 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.
 - e. Relocating an existing stationary source or any portion of an existing stationary source.
- 7.7 Where to Send Reports and Notices
Reports and notices, 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 8.2. For portables, reports and notices should be sent to the DEQ regional office nearest the company's office of record.

8.0 ADMINISTRATIVE REQUIREMENTS

- 8.1 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 permit 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.
- 8.2 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 2020 SW 4th Avenue, Suite 400 Portland, OR 97201-4987 Telephone: (503) 229-5582
Benton, Coos, Curry, Douglas, Jackson, Josephine, Lincoln, Linn, Marion, Polk, and Yamhill	Department of Environmental Quality Western Region 750 Front Street NE, Suite 120 Salem, OR 97301-1039 Telephone: (503) 378-8240
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 Dr., Suite 110 Bend, OR 97701 Telephone: (541) 633-2021

8.3 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. 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:

Counties	Office Address and Telephone
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, 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

9.0 FEES

- 9.1 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 Department regulations, will be mailed prior to the above date.
- 9.2 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.
- 9.3 Where to Submit Fees Fees must be submitted to:
Department of Environmental Quality
Business Office
811 SW Sixth Avenue
Portland, Oregon 97204-1390

10.0 GENERAL CONDITIONS AND DISCLAIMERS

- 10.1 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.
- 10.2 Conflicting Conditions In any instance in which there is an apparent conflict relative to conditions in this permit, the most stringent conditions apply.
- 10.3 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.
- 10.4 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.
- 10.5 Permit Availability The permittee must have a copy of the permit available at the facility at all times.
- 10.6 Open Burning The permittee may not conduct any open burning except as allowed by OAR 340 Division 264.

- 10.7 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.
- 10.8 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.
- 10.9 Termination, Revocation, or Modification The Commission may modify or revoke this permit pursuant to OAR 340-216-0060(3) and (4).

11.0

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
bbl	barrel (42 gal)	ORS	Oregon Revised Statutes
calendar year	The 12-month period beginning January 1 st and ending December 31 st	O&M	operation and maintenance
CFR	Code of Federal Regulations	Pb	lead
CO	carbon monoxide	PCD	pollution control device
date	mm/dd/yy	PM	particulate matter
DEQ	Oregon Department of Environmental Quality	PM ₁₀	particulate matter less than 10 microns in size
dscf	dry standard cubic foot	ppm	part per million
EPA	US Environmental Protection Agency	ppmv	part per million by volume
FCAA	Federal Clean Air Act	PSD	Prevention of Significant Deterioration
gal	gallon(s)	PSEL	Plant Site Emission Limit
gr/dscf	grains per dry standard cubic foot	PTE	Potential to Emit
HAP	Hazardous Air Pollutant as defined by OAR 340-244-0040	RACT	Reasonably Available Control Technology
ID	identification number	scf	standard cubic foot
I&M	inspection and maintenance	SER	Significant Emission Rate
lb	pound(s)	SERP	Source Emission Reduction Plan
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

msf:10/17/07

AQGP-009, Ready Mix Plants