

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 August 30, 2001 for the following source category:

Halogenated solvent degreasers using batch cold cleaning machines subject to Part 63, Title 40 of Code of Federal Regulations, Subpart T as adopted under OAR 340-244-0220.

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1.0 PERMIT ASSIGNMENT

- 1.1 Qualifications** 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 halogenated solvent degreasing as 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air contaminant source(s) listed on the first page of this permit until this permit expires, is modified, revoked or rescinded as long as conditions of this permit are complied with.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.

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 air contaminant source, other than fuel burning equipment and fugitive emission sources, installed on or before June 1, 1970, must not exceed 0.2 grains per dry standard cubic foot.
 - b. Particulate matter emissions from any air contaminant source, other than fuel burning equipment and fugitive emission sources, installed after June 1, 1970, must not exceed 0.1 grains per dry standard cubic foot.
- 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.

A compliance handbook is available from the Department's Small Business Technical Assistance Program. Call (503) 229-6147.

3.0 SPECIFIC EMISSION STANDARDS AND LIMITS

- 3.1 HAP Emissions Limit** Hazardous air pollutant (HAP) emissions must not exceed the following limits for each 12-consecutive calendar month period:
- a. 9.9 tons for each individual HAP; and
 - b. 24.9 tons for combined HAPs.

- 3.2 Halogenated Solvent** For each affected source, the permittee must comply with the following requirements, as applicable:
- a. **Immersion cold cleaner:** Employ a tightly fitting cover that must be closed at all times except during parts entry and removal, and one of the following controls:
 - i. A 0.75 freeboard ratio (or greater); or
 - ii. A 2.5 cm [1 inch] water layer.
 - b. **Remote reservoir cold cleaner:** Employ a tightly fitting cover over the solvent sump that must be closed at all times except during the cleaning of parts.

4.0 OPERATION AND MAINTENANCE REQUIREMENTS

- 4.1 Work practices** For each immersion cold cleaner complying with the freeboard ratio requirement (Condition 3.2a) or each remote reservoir cold cleaner, the permittee must meet all the following work and operational practices.
- a. **Waste collection and storage:** All waste solvent must be collected and stored in closed containers. The closed container may contain a device that allows pressure relief, but does not allow liquid solvent to drain from the container.
 - b. **Flushing:** If a flexible hose or flushing device is used, flushing must be performed only within the freeboard area of the solvent cleaning machine.
 - c. **Parts drainage:** The permittee must drain solvent cleaned parts for 15 seconds or until dripping has stopped, whichever is longer. Parts having cavities or blind holes must be tipped or rotated while draining.
 - d. **Fill line:** The permittee must ensure that the solvent level does not exceed the fill line.

- e. **Spills:** Spills during solvent transfer must be wiped up immediately. The wipe rags must be stored in covered containers meeting the requirements of Condition 4.1a.
- f. **Air- or pump-agitated solvent bath:** When an air- or pump-agitated solvent bath is used, the permittee must ensure that the agitator is operated to produce a rolling motion of the solvent but not observable splashing against tank walls or parts being cleaned.
- g. **Room draft:** The permittee must ensure that, when the cover is open, the cold cleaning machine is not exposed to drafts greater than 132 feet per minute as measured between 3.3 and 6.6 feet upwind and at the same elevation as the tank lip.
- h. **Porous materials:** Except, as provided in Condition 4.1.i, sponges, fabric, wood, and paper products must not be cleaned.
- i. **Porous material exception:** The prohibition in Condition 4.1.h does not apply to the cleaning of porous materials that are part of polychlorinated biphenyl (PCB) laden transformers if those transformers are handled throughout the cleaning process and disposed of in compliance with an approved PCB disposal permit issued in accordance with the Toxic Substances Control Act.

5.0 PLANT SITE EMISSION LIMITS

- 5.1 **Plant Site Emission Limits (PSEL)** Plant site emissions must not exceed 39 tons of VOC per year.
- 5.2 **Annual Period** The annual plant site emissions limits apply to any 12-consecutive calendar month period.

6.0 COMPLIANCE MONITORING

6.1 HAP Emissions

- a. Compliance with the individual HAP emission limit in Condition 3.1 is determined for each 12-consecutive calendar month period based on the following calculation for each HAP:

$$E_{\text{HAPI}} = [\sum(C_X * D_X * K_X) - W] \times 1 \text{ ton} / 2000\text{lb.}$$

where,

E_{HAPI} = Individual HAP emissions (ton/yr.);

I = Subscript I represents a specific HAP;

\sum = Symbol meaning the sum of the emissions from all types of materials used;

C = Material usage for the period in gallons;

D = Material density in pounds per gallon;

K = Material HAP fraction in pounds of HAP per pound of material;

X = Subscript X represents a specific material;

W = Weight of HAP shipped offsite

- b. Compliance with the combined HAP emission limit in Condition 3.1 is determined for each 12-consecutive calendar month period by summing the individual HAP emissions determined in a., above.

6.2 VOC Emissions

Compliance with the VOC PSEL in Condition 5.1 is determined for each 12-consecutive calendar month period based on the following calculation:

$$E_{\text{VOC}} = [\sum(C_X * D_X * K_X) - W] \times 1 \text{ ton} / 2000\text{lb.}$$

where,

E_{VOC} = VOC emissions (ton/yr.);

\sum = Symbol meaning the sum of the emissions from all types of materials used;

C = Material usage for the period in gallons;

D = Material density in pounds per gallon;

K = Material VOC fraction in pounds of VOC per pound of material;

X = Subscript X represents a specific material;

W = Weight of VOC shipped offsite.

7.0 RECORDKEEPING

- 7.1 VOC and HAP Emissions** The permittee must maintain the following records on a monthly basis:
- a. Types of VOC or HAP containing materials used
 - b. Amount of each material used based on purchase records and inventories at the beginning and end of each calendar month (gal.)
 - c. Density of each type of material (lb/gal.)
 - d. VOC fraction for each type of material (lb VOC/lb material)
 - e. Individual HAP fraction for each type of material (lb HAP/lb material)
 - f. Weight of VOC shipped offsite
 - g. Weight of individual HAP shipped offsite
- 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).
- 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 Initial Notification of Affected Facility** For each new halogenated solvent cleaning machine, the permittee must submit an initial notification as soon as practicable before the construction or reconstruction is planned to commence. This report must include all of the following information:
- a. The name and address of the permittee.
 - b. The address (i.e., physical location) of the affected source
 - c. An identification of 40 CFR part 63 subpart T, as the basis of the notification.
 - d. A brief description of each solvent cleaning machine including machine type, solvent/air interface area, and existing controls.
 - e. The anticipated compliance approach for each solvent cleaning machine.
 - f. The expected commencement date of the construction or reconstruction.
 - g. The expected completion date of the construction or reconstruction.
 - h. The anticipated date of (initial) startup of the source.
 - i. An estimate of annual halogenated HAP solvent consumption for each solvent cleaning machine.
 - j. A statement of whether the affected source is a major source or an area source.
- 8.2 Compliance Report** For each new batch cold solvent cleaning machine, the permittee must submit a compliance report no later than 150 days after startup. This report must include the following requirements.
- a. The name and address of the permittee.
 - b. The address (i.e., physical location) of the solvent cleaning machine(s).
 - c. A statement, signed by the solvent cleaning machine owner or his designee, stating that the solvent cleaning machine for which the report is being submitted is in compliance with the provisions of 40 CFR part 63 subpart T.
 - d. The compliance approach of each solvent cleaning machine.

- 8.3 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. The permittee must also submit follow-up reports when required by the Department.
 - 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.
- 8.4 Annual Report** The permittee must submit the following information to the Department by **February 15** of each year:
- a. Emissions data:
 - i. VOC emissions (tons per year)
 - ii. Individual HAP emissions (tons per year)
 - iii. Total HAP emissions (tons per year)
 - 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.
- 8.5 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 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 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 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.
- 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 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 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 Dr., Suite 110 Bend, OR 97701 Telephone: (541) 633-2021

**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. 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) 229-5554
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) 378-8240
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 201 W Main Street, Suite 2-D Medford, OR 97501-2744 Telephone: (541) 776-6010
Crook, Deschutes, Harney, Hood River, Jefferson, 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 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 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

- Affected Source** Each solvent cleaning machine that uses any solvent containing halogenated HAP solvents, at a total concentration greater than 5%, to remove soils from the surfaces of materials. Buckets, pails and beakers with capacities of 2 gallons or less, are not considered solvent cleaning machines.
- Batch Cleaning Machine** A solvent cleaning machine in which individual parts or a set of parts move through the entire cleaning cycle before new parts are introduced into the machine.
- Cold Cleaning Machine** Machines that use unheated or heated, non-boiling liquid solvents to remove soils from the surface of parts.
- Deposition** Emissions from an air pollutant source which are deposited upon another's property.
- Existing Source** Any affected source that is not a new source.
- Freeboard Area** The area within the cleaning machine that extends from the solvent/air interface to the top of the cleaning machine.
- Freeboard Height** The distance from the solvent/air interface, as measured during the idling mode to the top of the cleaning machine.
- Freeboard Ratio** The ratio of the cleaning machine freeboard height to the smaller interior dimension (length, width, or diameter) of the solvent cleaning machine.
- Fugitive Emissions** Discharges of air pollutants through doors, windows, or other uncontrolled exit points.

Halogenated HAP Solvent	Any solvent that contains methylene chloride, perchloroethylene, chloroform, 1,1,1-trichloroethane, trichloroethylene, or carbon tetrachloride.
Immersion Cold Cleaning Machine	A cold cleaning machine in which the parts are immersed in the solvent when being cleaned. A remote reservoir cold cleaning machine that is also an immersion cold cleaning machine is considered an immersion cold cleaning machine for the purposes of 40 CFR part 63 subpart T.
New Source	Any affected source that the construction or reconstruction of which is commenced after 11/29/93.
Opacity	The degree to which an emission (smoke or dust) reduces transmission of light and obscures the view in the background.
Remote Cold Cleaning Machine	Any device in which liquid solvent is pumped to a sink-like work area that drains solvent back into an enclosed container while parts are being cleaned, allowing no solvent to pool in the work area.

ACDP	Air Contaminant Discharge Permit	HAP	Hazardous Air Pollutant as defined by OAR 340-244-0040
ASTM	American Society for Testing and Materials	ID	identification number
AQMA	Air Quality Maintenance Area	I&M	inspection and maintenance
bbl	barrel (42 gal)	lb	pound(s)
calendar year	The 12-month period beginning January 1st and ending December 31st	MMBtu	million British thermal units
CFR	Code of Federal Regulations	NA	not applicable
CO	carbon monoxide	NESHAP	National Emissions Standards for Hazardous Air Pollutants
date	mm/dd/yy	NO _x	nitrogen oxides
DEQ	Oregon Department of Environmental Quality	NSPS	New Source Performance Standard
dscf	dry standard cubic foot	NSR	New Source Review
EPA	US Environmental Protection Agency	O ₂	oxygen
FCAA	Federal Clean Air Act	OAR	Oregon Administrative Rules
gal	gallon(s)	ORS	Oregon Revised Statutes
gr/dscf	grains per dry standard cubic foot	O&M	operation and maintenance
		Pb	lead

PCD	pollution control device	SERP	Source Emission Reduction Plan
PM	particulate matter		
PM ₁₀	particulate matter less than 10 microns in size	SIC	Standard Industrial Code
ppm	part per million	SIP	State Implementation Plan
ppmv	part per million by volume	SO ₂	sulfur dioxide
PSD	Prevention of Significant Deterioration	Special Control Area	as defined in OAR 340-204-0070
PSEL	Plant Site Emission Limit	VE	visible emissions
PTE	Potential to Emit	VOC	volatile organic compound
RACT	Reasonably Available Control Technology	year	A period consisting of any 12-consecutive calendar months
scf	standard cubic foot		
SER	Significant Emission Rate		

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AQGP-003, batch cold degreasers