GENERAL
AIR CONTAMINANT DISCHARGE PERMIT
ATTACHMENT

Department of Environmental Quality
Air Quality Division
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Portland, OR 97204-1390
Telephone: (503) 229-5359

This attachment is issued on March 1, 2010 in accordance with the provisions of ORS 468A.040 and OAR 340-216-0062 for the following source category:

Gasoline dispensing facilities subject to stage II vapor collection requirements in OAR 340-242-0520 and the emission standards in OAR 340-244-0232 through 0252. NAICS 447110, 447190.

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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) Attachment:

   a. The permittee is performing gasoline dispensing 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, reoccurring or serious compliance problems.

   d. The source is not an agricultural operation as defined in ORS 468A.020.

1.2 Assignment  DEQ will assign qualifying permittees to this attachment 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 this attachment.

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contaminant source(s) listed on the first page of this attachment until the attachment expires, is modified, revoked or rescinded, as long as the permittee complies with the conditions of this attachment. If there are other emissions activities occurring at the site besides those listed on the cover page of this attachment, the permittee may be required to obtain a Standard or Simple ACDP or additional General ACDP Attachment(s), if applicable.

2.0 PLANT SITE EMISSION LIMITS

2.1 Plant Site Emission Limits (PSEL)  Plant site emissions must not exceed 39 tons of VOC per year. This PSEL is not in addition to the VOC PSEL in the source’s General ACDP and other General ACDP Attachments.

2.2 Annual Period  The annual plant site emissions limits apply to any 12-consecutive calendar month period.
3.0 OPERATION AND MAINTENANCE REQUIREMENTS

3.1 Compliance Dates
   a. New or Reconstructed Facility: For any facility where construction or reconstruction began after November 9, 2006, the permittee must be in compliance with the requirements in Conditions 3.2 through 3.10, as applicable, upon assignment to this attachment or upon startup, whichever is later.
   b. Existing Facility: For any facility where construction or reconstruction began on or before November 9, 2006, the permittee must be in compliance with the requirements in Conditions 3.2 through 3.10, as applicable, no later than January 10, 2011, except as follows.
   c. For any of the following tanks, the permittee must be in compliance with the stage I vapor balance requirements in Condition 3.4 upon assignment to this attachment.
      i. Any tank at a facility located in Clackamas, Multnomah, or Washington County whose annual throughput exceeds 120,000 gallons; or
      ii. Any tank with a rated capacity between 1,500 and 40,000 gallons and located in the Portland AQMA, Medford AQMA, or Salem SKATS.
   d. The permittee must be in compliance with the stage II vapor balance requirements in Condition 3.6 upon assignment to this attachment.

3.2 Work Practices
   The permittee must not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following:
   a. Minimize gasoline spills;
   b. Do not top off or overfill vehicle tanks. If a person can confirm that a vehicle tank is not full after the nozzle clicks off (such as by checking the vehicle’s fuel tank gauge), the person may continue to dispense fuel using best judgment and caution to prevent a spill;
   c. Post a sign at the GDF instructing a person filling up a motor vehicle to not top off the vehicle tank;
   d. Clean up spills as expeditiously as practicable;
   e. Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use;
f. Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.

### 3.3 Submerged Fill

The permittee must not transfer or allow the transfer of gasoline into any storage tank with a capacity of 250 gallons or more unless the tank is equipped with a submerged fill pipe:

a. Submerged fill pipes installed after November 9, 2006 or on tanks located in the Portland AQMA must be no more than 6 inches from the bottom of the storage tank.

b. Submerged fill pipes installed on or before November 9, 2006 must be no more than 12 inches from the bottom of the storage tank.

### 3.4 Stage I Vapor Balance System Requirements

The permittee must install and operate a stage I vapor balance system that meets all of the following management practices, unless that tank is equipped with a floating roof or equivalent.

a. All vapor connections and lines on the storage tank must be equipped with closures that seal upon disconnect.

b. The vapor line from the gasoline storage tank to the cargo tank must be vapor-tight.

c. The vapor balance system must be designed such that the pressure in the tank truck does not exceed 18 inches water pressure or 5.9 inches water vacuum during product transfer.

d. The vapor recovery and product adapters, and the method of connection with the delivery elbow, must be designed so as to prevent the over-tightening or loosening of fittings during normal delivery operations.

e. If a gauge well separate from the fill tube is used, it must be provided with a submerged drop tube that extends the same distance from the bottom of the storage tank as specific in Condition 3.3.

f. Liquid fill connection for all systems must be equipped with vapor-tight caps.

g. The pressure specifications for PV vent valves must be a positive pressure setting of 2.5 to 6.0 inches of water and a negative pressure setting of 6.0 to 10.0 inches of water. The total leak rate of all PV vent valves at an affected facility, including connections, must not exceed 0.17 cubic foot per hour at a pressure of 2.0 inches of water and 0.63 cubic foot per hour at a vacuum of 4 inches of water.
h. The vapor balance system must be capable of meeting the static pressure performance requirement of the following equation:

\[ Pf = 2e^{-500.887/v} \]

Where:
- \( Pf \) = Minimum allowable final pressure, inches of water.
- \( v \) = Total ullage affected by the test, gallons.
- \( e \) = Dimensionless constant equal to approximately 2.718.
- \( 2 \) = The initial pressure, inches water.

3.5 **Dual-Point Vapor Balance System Requirement**

The permittee must install and operate a dual-point vapor balance system on any new gasoline storage tank installed after November 9, 2006 at a facility with a monthly throughput of 100,000 gallons of gasoline or more.

3.6 **Stage II Vapor Collection Requirements**

The permittee must not transfer or allow the transfer of gasoline into a motor vehicle fuel tank unless the facility is equipped with and operates a DEQ approved stage II vapor collection system.

3.7 **Operator Training**

The permittee must provide adequate training and written instructions to the operator of the affected facility for the proper use of the stage I & II vapor recovery equipment.

3.8 **Operation and Maintenance of Vapor Balance System**

The permittee must comply with the following requirements for any gasoline storage tank equipped with a vapor balance system:

a. Ensure the connection and proper operation of the vapor balance system whenever gasoline is being transferred.

b. All equipment associated with the vapor balance system must be maintained to be vapor tight and in good working order.

3.9 **Operation and Maintenance of Vapor Collection System**

The permittee must comply with the following requirements for the stage II vapor collection system:

a. Connect and ensure proper operation of the stage II vapor collection system whenever gasoline is being dispensed.

b. Replace, repair or modify any worn or ineffective component or design element to ensure the vapor-tight integrity and efficiency of the stage II vapor collection systems.

3.10 **Management Practices for Delivery Vessels**

The permittee must not transfer or allow the transfer of gasoline to or from the facility by a delivery vessel unless the following conditions are met:

a. All hoses in the vapor balance system are properly connected;
b. The adapters or couplers that attach to the vapor line on the storage tank have closures that seal upon disconnect;

c. All vapor return hoses, couplers, and adapters used in the gasoline delivery are vapor-tight;

d. All tank truck vapor return equipment is compatible in size and forms a vapor-tight connection with the vapor balance equipment on the facility’s storage tank;

e. All hatches on the tank truck are closed and securely fastened;

f. The filling of storage tanks at the facility shall be limited to unloading by vapor-tight gasoline cargo tanks; and

g. Current certification along with documentation that the cargo tank has met the specifications of pressure and vacuum testing (EPA Method 27 or equivalent) shall be carried on the cargo tank.

4.0 COMPLIANCE DEMONSTRATION

4.1 Vapor Balance System Testing Requirements

If required to install a vapor balance system under Condition 3.4 or 3.5, the permittee must comply with the following requirements at the time of installation of a vapor balance system or a new gasoline storage tank and every 3 years thereafter if the facility has a monthly throughput of 100,000 gallons of gasoline or more.

a. Demonstrate compliance with the leak rate and cracking pressure requirements for pressure-vacuum vent valves installed on gasoline storage tanks by conducting a test using California Air Resources Board Vapor Recovery Test Procedure TP–201.1E.—Leak Rate and Cracking Pressure of Pressure/Vacuum Vent Valves, or other approved method, and

b. Demonstrate compliance with the static pressure performance requirement, for your vapor balance system by conducting a static pressure test on gasoline storage tanks using the California Air Resources Board Vapor Recovery Test Procedure TP–201.3,—Determination of 2-Inch WC Static Pressure Performance of Vapor Recovery Systems of Dispensing Facilities, or other approved method.

4.2 Vapor Collection System

The permittee must comply with the following requirements prior to placing a stage II vapor collection system into operation:
Installation and Testing Requirements

a. Piping shall be installed in accordance with standards in OAR 340 division 150;

b. Piping shall be installed by a licensed installation service provider pursuant to OAR 340 division 160; and

c. Piping shall be tested by an installation or tank tightness testing service provider licensed pursuant to OAR 340 division 160.

4.3 Vapor Collection System Testing Requirements

Each vacuum assist or EVR system must, once a year, pass a Pressure Decay Leak test using California Air Resources Board Vapor Recovery Test Procedure TP-201.3 and an Air to Liquid Ratio (A/L) test using California Air Resources Board Vapor Recovery Test Procedure TP-201.5, or other approved method(s).

4.4 Operation and Maintenance Requirements

The permittee must operate and maintain the facility and associated air contaminant control devices as follows:

a. In order to ensure that the vapor balance equipment is maintained to be vapor tight and in good working order, have the vapor balance equipment inspected on an annual basis to discover potential or actual equipment failures.

b. Replace, repair or modify any worn or ineffective component or design element within 24 hours to ensure the vapor-tight integrity and efficiency of the vapor balance system. If repair parts must be ordered, either a written or a verbal order for those parts must be initiated within 2 working days of detecting such a leak. Such repair parts must be installed within 5 working days after receipt.

4.5 PSEL Monitoring

Compliance with the PSEL is determined on a monthly basis for each 12-consecutive calendar month period. Emissions from gasoline dispensing operations must be calculated as follows.

\[
E_{12\text{-month}} = \frac{\sum (T_B + T_L + L_R + L_S)}{2000}
\]

Where:

\[
E_{12\text{-month}} = \text{Total VOC emissions (in tons) for the 12-month period}
\]

\[
T_B = \text{emissions from storage tank breathing and emptying}
\]

\[
T_L = \text{emissions from storage tank filling}
\]

\[
L_R = \text{emissions from vehicle refueling}
\]

\[
L_S = \text{emissions from spillage}
\]

\[
T_B + T_L = \text{EF x TP}
\]
Where:

\[ EF = \text{emission factor (in lbs/Mgals), use 1.3 if facility operates and maintains a stage I vapor balance system, otherwise use 8.3} \]

\[ TP = \text{throughput (in 1000 gallons) for the previous 12-months} \]

\[ L_R + L_S = EF \times TP \]

Where:

\[ EF = \text{emission factor (in lbs/Mgals), use 1.8 if facility operates and maintains a stage II vapor collection system, otherwise use 4.3} \]

\[ TP = \text{throughput (in 1000 gallons) for the previous 12-months} \]

### 5.0 RECORDKEEPING REQUIREMENTS

#### 5.1 Operation and Maintenance

The permittee must maintain the following records related to the operation and maintenance of the facility and vapor balance and collection systems:

a. Records of all tests performed under Conditions 4.1 and 4.3.

b. Records related to the operation and maintenance of vapor balance equipment required under Conditions 3.4 and 3.5 and vapor collection equipment required under Condition 3.6. Any stage I vapor balance system or stage II vapor collection system component defect must be logged and tracked by station personnel using forms provided by DEQ or a reasonable facsimile.

c. Records of total throughput volume of gasoline, in gallons, for each calendar month.

d. Records of VOC emissions, in tons, for each calendar month.

e. Records of permanent changes made at the facility and vapor balance equipment which may affect emissions.
6.0 REPORTING REQUIREMENTS

6.1 Initial Notification
The permittee must submit an initial notification upon assignment to this permit. A form for this purpose is available from DEQ. The permittee must submit the initial notification to the EPA Region X Office and to DEQ.

6.2 Notification of Performance Test
The permittee must submit a Notification of Performance Test in writing at least 60 calendar days before a performance test, required by Condition 4.1, 4.2, or 4.3, is scheduled to begin.

6.3 Notification of Compliance Status
The permittee must submit a notification of compliance status to EPA’s Region 10 Office and DEQ by the compliance date specified in Condition 3.1. A form for this purpose is available from DEQ. The notification must be signed by a responsible official who must certify its accuracy.

6.4 Compliance Test Reports
If the permittee is subject to the testing requirements in Conditions 4.1 and 4.2, a test report demonstrating that the vapor recovery systems at the facility passed the test(s) must be submitted to DEQ within 30 days of the test date.

6.5 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 pertaining to the previous calendar year:

a. The total throughput volume of gasoline, in gallons per year, of the facility for the preceding calendar year.

b. VOC emissions, in tons per year, for the preceding calendar year.

c. Summary of complaints relating to air quality received by permittee during the year.

d. List of changes made at the facility and on vapor recovery equipment which may affect emissions.

e. List all major maintenance performed on pollution control equipment.

7.0 ADMINISTRATIVE REQUIREMENTS

7.1 Reassignment to the General ACDP Attachment
A complete application for reassignment to this attachment is due within 60 days after the attachment is reissued. DEQ will notify the permittee when the attachment is reissued. The application must be sent to the appropriate regional office.

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

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 Attachment until DEQ takes final action on the Simple or Standard ACDP application.

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

8.0 FEES

8.1 Annual Compliance Fee The Annual Fee for a General ACDP Attachment is due on December 1 of each year this attachment is in effect, unless DEQ has extended the payment due date. An invoice indicating the amount, as determined by DEQ regulations, will be mailed prior to the above date.

9.0 GENERAL CONDITIONS AND DISCLAIMERS

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

9.2 Attachment Availability The permittee must have a copy of the attachment available at the facility at all times.
10.0 ABBREVIATIONS, ACRONYMS, AND DEFINITIONS

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Definition</th>
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<tbody>
<tr>
<td>AQMA</td>
<td>Air Quality Maintenance Area</td>
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<tr>
<td>calendar year</td>
<td>The 12-month period beginning January 1st and ending December 31st</td>
</tr>
<tr>
<td>CFR</td>
<td>Code of Federal Regulations</td>
</tr>
<tr>
<td>DEQ</td>
<td>Oregon Department of Environmental Quality</td>
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<tr>
<td>EPA</td>
<td>US Environmental Protection Agency</td>
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<tr>
<td>GDF</td>
<td>Gasoline dispensing facility</td>
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<tr>
<td>HAP</td>
<td>Hazardous Air Pollutant as defined by OAR 340-244-0040</td>
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<tr>
<td>NESHAP</td>
<td>National Emissions Standards for Hazardous Air Pollutants</td>
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<tr>
<td>PSEL</td>
<td>Plant Site Emission Limit</td>
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<tr>
<td>VOC</td>
<td>Volatile organic compound</td>
</tr>
<tr>
<td>year</td>
<td>A period consisting of any 12-consecutive calendar months</td>
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gce: 12/21/09
AQGP-023a, gasoline dispensing facilities, stage II