

*West Virginia Department of Environmental Protection*

*Earl Ray Tomblin  
Governor*

*Division of Air Quality*

*Randy C. Huffman  
Cabinet Secretary*

# Permit to Construct



**R13-3002**

*This permit is issued in accordance with the West Virginia Air Pollution Control Act (West Virginia Code §§ 22-5-1 et seq.) and 45 C.S.R. 13 — Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permits, General Permits and Procedures for Evaluation. The permittee identified at the facility listed below is authorized to construct the stationary sources of air pollutants identified herein in accordance with all terms and conditions of this permit.*

Issued to:

**Antero Resources Appalachian Corporation  
White Oak Compressor Station  
085-00023**

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*John A. Benedict  
Director*

*Issued: DRAFT • Effective: DRAFT*

Facility Location: Near Pullman, Ritchie County, West Virginia  
Mailing Address: 1625 17th Street, Denver, CO 80202  
Facility Description: Compressor Station  
NAICS Codes: 486210  
UTM Coordinates: 509.781 km Easting • 4,338.144 km Northing • Zone 17  
Permit Type: Construction  
Desc. of Change: Construction of a natural gas compressor station.

*Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§ 22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §22-5-14.*

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*The source is not subject to 45CSR30.*

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*Unless otherwise stated, WVDEP DAQ did not determine whether the permittee is subject to an area source air toxics standard requiring Generally Achievable Control Technology (GACT) promulgated after January 1, 2007 pursuant to 40 CFR 63, including the area source air toxics provisions of 40 CFR 63, Subpart HH and 40 CFR 63, Subpart ZZZZ.*

## Table of Contents

<b>1.0.</b>	<b>Emission Units</b> .....	
<b>2.0.</b>	<b>General Conditions</b> .....	
2.1.	Definitions .....	
2.2.	Acronyms .....	
2.3.	Authority .....	
2.4.	Term and Renewal .....	
2.5.	Duty to Comply .....	
2.6.	Duty to Provide Information .....	
2.7.	Duty to Supplement and Correct Information .....	
2.8.	Administrative Permit Update .....	
2.9.	Permit Modification .....	
2.10.	Major Permit Modification .....	
2.11.	Inspection and Entry .....	
2.12.	Emergency .....	
2.13.	Need to Halt or Reduce Activity Not a Defense .....	
2.14.	Suspension of Activities .....	
2.15.	Property Rights .....	
2.16.	Severability .....	
2.17.	Transferability .....	
2.18.	Notification Requirements .....	
2.19.	Credible Evidence .....	
<b>3.0.</b>	<b>Facility-Wide Requirements</b> .....	
3.1.	Limitations and Standards .....	
3.2.	Monitoring Requirements .....	
3.3.	Testing Requirements .....	
3.4.	Recordkeeping Requirements .....	
3.5.	Reporting Requirements .....	
<b>4.0.</b>	<b>Source-Specific Requirements</b> .....	
4.1.	Limitations and Standards .....	
4.2.	Monitoring Requirements .....	
4.3.	Testing Requirements .....	
4.4.	Recordkeeping Requirements .....	
4.5.	Reporting Requirements .....	
<b>APPENDIX A</b> .....		
<b>APPENDIX B</b> .....		
<b>CERTIFICATION OF DATA ACCURACY</b> .....		

## 1.0 Emission Units

Emission Unit ID	Emission Point ID <sup>(1)</sup>	Emission Unit Description	Year Installed	Design Capacity	Control Device
CE-01	9E	Waukesha L7044GSI 4-Stroke Rich Burn (4SRB) Compressor Engine	2013	1,627 hp	Catalyst (C-02)
CE-02	10E	Waukesha L7044GSI 4SRB Compressor Engine	2013	1,627 hp	Catalyst (C-03)
CE-03	11E	Waukesha L7044GSI 4SRB Compressor Engine	2013	1,627 hp	Catalyst (C-04)
CE-04	12E	Waukesha L7044GSI 4SRB Compressor Engine	2013	1,627 hp	Catalyst (C-05)
CE-05	13E	Waukesha L7044GSI 4SRB Compressor Engine	2013	1,627 hp	Catalyst (C-06)
GEN-1	14E	Capstone C200 Microturbine	2013	200kW (output)	None
GEN-2	15E	Capstone C200 Microturbine	2013	200kW (output)	None
RBV-1	16E	Valerus GLY-GCR-1.5MM Glycol Dehydration Reboiler	2013	1.5 mmBtu/hr	None
RSV-1	17E	Valerus GLY-GCR-1.5MM Glycol Dehydrator Regeneration Still Column	2013	60 mmscf/day	Flare (C-01)
T01	18E	Produced Liquids Storage Tank	2013	16,880 gallons	VRU <sup>(2)</sup>
T02	19E	Produced Liquids Storage Tank	2013	16,880 gallons	VRU
T03	20E	Produced Liquids/Condensate Settling Tank	2013	16,880 gallons	VRU
T04	21E	Condensate Storage Tank	2013	16,880 gallons	VRU
T05	22E	Condensate Storage Tank	2013	16,880 gallons	VRU
T06	23E	Waste Oil Storage Tank	2013	1,000 gallons	None
T07	24E	TEG Storage Tank	2013	1,000 gallons	None
T08	25E	Compressor Lube Oil Storage Tank	2013	1,000 gallons	None
T09	26E	Lube Oil Storage Tank	2013	1,000 gallons	None
T10	27E	Ethylene Glycol Storage Tank	2013	1,000 gallons	None
EPLOR	28E <sup>(3)</sup>	Truck Loadout	2013	4,599,000 gal/year	None

(1) Emission points 1E - 8E were given to the control devices in the application but were not added here.

(2) VRU = Vapor Recovery Unit

(3) EPLOR is a source of fugitive emissions.

## 2.0. General Conditions

### 2.1. Definitions

- 2.1.1. All references to the "West Virginia Air Pollution Control Act" or the "Air Pollution Control Act" mean those provisions contained in W.Va. Code §§ 22-5-1 to 22-5-18.
- 2.1.2. The "Clean Air Act" means those provisions contained in 42 U.S.C. §§ 7401 to 7671q, and regulations promulgated thereunder.
- 2.1.3. "Secretary" means the Secretary of the Department of Environmental Protection or such other person to whom the Secretary has delegated authority or duties pursuant to W.Va. Code §§ 22-1-6 or 22-1-8 (45 CSR § 30-2.12.). The Director of the Division of Air Quality is the Secretary's designated representative for the purposes of this permit.

### 2.2. Acronyms

<b>CAAA</b>	Clean Air Act Amendments	<b>NO<sub>x</sub></b>	Nitrogen Oxides
<b>CBI</b>	Confidential Business Information	<b>NSPS</b>	New Source Performance Standards
<b>CEM</b>	Continuous Emission Monitor	<b>PM</b>	Particulate Matter
<b>CES</b>	Certified Emission Statement	<b>PM<sub>2.5</sub></b>	Particulate Matter less than 2.5µm in diameter
<b>C.F.R. or CFR</b>	Code of Federal Regulations	<b>PM<sub>10</sub></b>	Particulate Matter less than 10µm in diameter
<b>CO</b>	Carbon Monoxide	<b>Ppb</b>	Pounds per Batch
<b>C.S.R. or CSR</b>	Codes of State Rules	<b>pph</b>	Pounds per Hour
<b>DAQ</b>	Division of Air Quality	<b>ppm</b>	Parts per Million
<b>DEP</b>	Department of Environmental Protection	<b>Ppmv or ppmv</b>	Parts per million by volume
<b>dscm</b>	Dry Standard Cubic Meter	<b>PSD</b>	Prevention of Significant Deterioration
<b>FOIA</b>	Freedom of Information Act	<b>psi</b>	Pounds per Square Inch
<b>HAP</b>	Hazardous Air Pollutant	<b>SIC</b>	Standard Industrial Classification
<b>HON</b>	Hazardous Organic NESHAP	<b>SIP</b>	State Implementation Plan
<b>HP</b>	Horsepower	<b>SO<sub>2</sub></b>	Sulfur Dioxide
<b>lbs/hr</b>	Pounds per Hour	<b>TAP</b>	Toxic Air Pollutant
<b>LDAR</b>	Leak Detection and Repair	<b>TPY</b>	Tons per Year
<b>M</b>	Thousand	<b>TRS</b>	Total Reduced Sulfur
<b>MACT</b>	Maximum Achievable Control Technology	<b>TSP</b>	Total Suspended Particulate
<b>MDHI</b>	Maximum Design Heat Input	<b>USEPA</b>	United States Environmental Protection Agency
<b>MM</b>	Million	<b>UTM</b>	Universal Transverse Mercator
<b>MMBtu/hr or mmbtu/hr</b>	Million British Thermal Units per Hour	<b>VEE</b>	Visual Emissions Evaluation
<b>MMCF/hr or mmcf/hr</b>	Million Cubic Feet per Hour	<b>VOC</b>	Volatile Organic Compounds
<b>NA</b>	Not Applicable	<b>VOL</b>	Volatile Organic Liquids
<b>NAAQS</b>	National Ambient Air Quality Standards		
<b>NESHAPS</b>	National Emissions Standards for Hazardous Air Pollutants		

### **2.3. Authority**

This permit is issued in accordance with West Virginia Air Pollution Control Law W.Va. Code §§22-5-1 et seq. and the following Legislative Rules promulgated thereunder:

- 2.3.1. 45CSR13 – *Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permits, General Permits and Procedures for Evaluation.*

### **2.4. Term and Renewal**

- 2.4.1. This permit shall remain valid, continuous and in effect unless it is revised, suspended, revoked or otherwise changed under an applicable provision of 45CSR13 or any applicable legislative rule.

### **2.5. Duty to Comply**

- 2.5.1. The permitted facility shall be constructed and operated in accordance with the plans and specifications filed in Permit Application R13-3002 and any modifications, administrative updates, or amendments thereto. The Secretary may suspend or revoke a permit if the plans and specifications upon which the approval was based are not adhered to;  
**[45CSR§§13-5.11 and 13-10.3]**
- 2.5.2. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the West Virginia Code and the Clean Air Act and is grounds for enforcement action by the Secretary or USEPA;
- 2.5.3. Violations of any of the conditions contained in this permit, or incorporated herein by reference, may subject the permittee to civil and/or criminal penalties for each violation and further action or remedies as provided by West Virginia Code 22-5-6 and 22-5-7;
- 2.5.4. Approval of this permit does not relieve the permittee herein of the responsibility to apply for and obtain all other permits, licenses and/or approvals from other agencies; i.e., local, state and federal, which may have jurisdiction over the construction and/or operation of the source(s) and/or facility herein permitted.

### **2.6. Duty to Provide Information**

The permittee shall furnish to the Secretary within a reasonable time any information the Secretary may request in writing to determine whether cause exists for administratively updating, modifying, revoking or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Secretary copies of records to be kept by the permittee. For information claimed to be confidential, the permittee shall furnish such records to the Secretary along with a claim of confidentiality in accordance with 45CSR31. If confidential information is to be sent to USEPA, the permittee shall directly provide such information to USEPA along with a claim of confidentiality in accordance with 40 C.F.R. Part 2.

## **2.7. Duty to Supplement and Correct Information**

Upon becoming aware of a failure to submit any relevant facts or a submittal of incorrect information in any permit application, the permittee shall promptly submit to the Secretary such supplemental facts or corrected information.

## **2.8. Administrative Update**

The permittee may request an administrative update to this permit as defined in and according to the procedures specified in 45CSR13.

[45CSR§13-4]

## **2.9. Permit Modification**

The permittee may request a minor modification to this permit as defined in and according to the procedures specified in 45CSR13.

[45CSR§13-5.4.]

## **2.10. Major Permit Modification**

The permittee may request a major modification as defined in and according to the procedures specified in 45CSR14 or 45CSR19, as appropriate.

[45CSR§13-5.1]

## **2.11. Inspection and Entry**

The permittee shall allow any authorized representative of the Secretary, upon the presentation of credentials and other documents as may be required by law, to perform the following:

- a. At all reasonable times (including all times in which the facility is in operation) enter upon the permittee's premises where a source is located or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c. Inspect at reasonable times (including all times in which the facility is in operation) any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;
- d. Sample or monitor at reasonable times substances or parameters to determine compliance with the permit or applicable requirements or ascertain the amounts and types of air pollutants discharged.

## **2.12. Emergency**

- 2.12.1. An "emergency" means any situation arising from sudden and reasonable unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission

limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

- 2.12.2. Effect of any emergency. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions of Section 2.12.3 are not met.
- 2.12.3. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:
  - a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
  - b. The permitted facility was at the time being properly operated;
  - c. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and,
  - d. The permittee submitted notice of the emergency to the Secretary within one (1) working day of the time when emission limitations were exceeded due to the emergency and made a request for variance, and as applicable rules provide. This notice must contain a detailed description of the emergency, any steps taken to mitigate emission, and corrective actions taken.
- 2.12.4. In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.
- 2.12.5. The provisions of this section are in addition to any emergency or upset provision contained in any applicable requirement.

### **2.13. Need to Halt or Reduce Activity Not a Defense**

It shall not be a defense for a permittee in an enforcement action that it should have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. However, nothing in this paragraph shall be construed as precluding consideration of a need to halt or reduce activity as a mitigating factor in determining penalties for noncompliance if the health, safety, or environmental impacts of halting or reducing operations would be more serious than the impacts of continued operations.

### **2.14. Suspension of Activities**

In the event the permittee should deem it necessary to suspend, for a period in excess of sixty (60) consecutive calendar days, the operations authorized by this permit, the permittee shall notify the Secretary, in writing, within two (2) calendar weeks of the passing of the sixtieth (60) day of the suspension period.

### **2.15. Property Rights**

This permit does not convey any property rights of any sort or any exclusive privilege.

### **2.16. Severability**



The provisions of this permit are severable and should any provision(s) be declared by a court of competent jurisdiction to be invalid or unenforceable, all other provisions shall remain in full force and effect.

**2.17. Transferability**

This permit is transferable in accordance with the requirements outlined in Section 10.1 of 45CSR13. [45CSR§13-10.1]

**2.18. Notification Requirements**

The permittee shall notify the Secretary, in writing, no later than thirty (30) calendar days after the actual startup of the operations authorized under this permit.

**2.19. Credible Evidence**

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defense otherwise available to the permittee including, but not limited to, any challenge to the credible evidence rule in the context of any future proceeding.

### 3.0. Facility-Wide Requirements

#### 3.1. Limitations and Standards

- 3.1.1. **Open burning.** The open burning of refuse by any person, firm, corporation, association or public agency is prohibited except as noted in 45CSR§6-3.1.  
[45CSR§6-3.1.]
- 3.1.2. **Open burning exemptions.** The exemptions listed in 45CSR§6-3.1 are subject to the following stipulation: Upon notification by the Secretary, no person shall cause, suffer, allow or permit any form of open burning during existing or predicted periods of atmospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible.  
[45CSR§6-3.2.]
- 3.1.3. **Asbestos.** The permittee is responsible for thoroughly inspecting the facility, or part of the facility, prior to commencement of demolition or renovation for the presence of asbestos and complying with 40 C.F.R. § 61.145, 40 C.F.R. § 61.148, and 40 C.F.R. § 61.150. The permittee, owner, or operator must notify the Secretary at least ten (10) working days prior to the commencement of any asbestos removal on the forms prescribed by the Secretary if the permittee is subject to the notification requirements of 40 C.F.R. § 61.145(b)(3)(i). The USEPA, the Division of Waste Management and the Bureau for Public Health - Environmental Health require a copy of this notice to be sent to them.  
[40CFR§61.145(b) and 45CSR§34]
- 3.1.4. **Odor.** No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor at any location occupied by the public.  
[45CSR§4-3.1 State-Enforceable only.]
- 3.1.5. **Permanent shutdown.** A source which has not operated at least 500 hours in one 12-month period within the previous five (5) year time period may be considered permanently shutdown, unless such source can provide to the Secretary, with reasonable specificity, information to the contrary. All permits may be modified or revoked and/or reapplication or application for new permits may be required for any source determined to be permanently shutdown.  
[45CSR§13-10.5.]
- 3.1.6. **Standby plan for reducing emissions.** When requested by the Secretary, the permittee shall prepare standby plans for reducing the emissions of air pollutants in accordance with the objectives set forth in Tables I, II, and III of 45 C.S.R. 11.  
[45CSR§11-5.2.]

#### 3.2. Monitoring Requirements

- 3.2.1. **Emission Limit Averaging Time.** Unless otherwise specified, compliance with all annual limits shall be based on a rolling twelve month total. A rolling twelve month total shall be the sum of the measured parameter of the previous twelve calendar months. Compliance with all hourly emission limits shall be based on the applicable NAAQS averaging times or, where applicable, as given in any approved performance test method.

### 3.3. Testing Requirements

- 3.3.1. **Stack testing.** As per provisions set forth in this permit or as otherwise required by the Secretary, in accordance with the West Virginia Code, underlying regulations, permits and orders, the permittee shall conduct test(s) to determine compliance with the emission limitations set forth in this permit and/or established or set forth in underlying documents. The Secretary, or his duly authorized representative, may at his option witness or conduct such test(s). Should the Secretary exercise his option to conduct such test(s), the operator shall provide all necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment and the required safety equipment, such as scaffolding, railings and ladders, to comply with generally accepted good safety practices. Such tests shall be conducted in accordance with the methods and procedures set forth in this permit or as otherwise approved or specified by the Secretary in accordance with the following:
- a. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 C.F.R. Parts 60, 61, and 63 in accordance with the Secretary's delegated authority and any established equivalency determination methods which are applicable. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit may be revised in accordance with 45CSR§13-4 or 45CSR§13-5.4 as applicable.
  - b. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with applicable requirements which do not involve federal delegation. In specifying or approving such alternative testing to the test methods, the Secretary, to the extent possible, shall utilize the same equivalency criteria as would be used in approving such changes under Section 3.3.1.a. of this permit. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit may be revised in accordance with 45CSR§13-4 or 45CSR§13-5.4 as applicable.
  - c. All periodic tests to determine mass emission limits from or air pollutant concentrations in discharge stacks and such other tests as specified in this permit shall be conducted in accordance with an approved test protocol. Unless previously approved, such protocols shall be submitted to the Secretary in writing at least thirty (30) days prior to any testing and shall contain the information set forth by the Secretary. In addition, the permittee shall notify the Secretary at least fifteen (15) days prior to any testing so the Secretary may have the opportunity to observe such tests. This notification shall include the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced protocol previously approved by the Secretary.
  - d. The permittee shall submit a report of the results of the stack test within sixty (60) days of completion of the test. The test report shall provide the information necessary to document the objectives of the test and to determine whether proper procedures were used to accomplish these objectives. The report shall include the following: the certification described in paragraph 3.5.1.; a statement of compliance status, also signed by a responsible official; and, a summary of conditions which form the basis for the compliance status evaluation. The summary of conditions shall include the following:
    1. The permit or rule evaluated, with the citation number and language;

2. The result of the test for each permit or rule condition; and,
3. A statement of compliance or noncompliance with each permit or rule condition.

[WV Code § 22-5-4(a)(14-15) and 45CSR13]

### 3.4. Recordkeeping Requirements

- 3.4.1. **Retention of records.** The permittee shall maintain records of all information (including monitoring data, support information, reports and notifications) required by this permit recorded in a form suitable and readily available for expeditious inspection and review. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation. The files shall be maintained for at least five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent two (2) years of data shall be maintained on site. The remaining three (3) years of data may be maintained off site, but must remain accessible within a reasonable time. Where appropriate, the permittee may maintain records electronically (on a computer, on computer floppy disks, CDs, DVDs, or magnetic tape disks), on microfilm, or on microfiche.
- 3.4.2. **Odors.** For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received, any investigation performed in response to such a complaint, and any responsive action(s) taken.  
[45CSR§4. *State-Enforceable only.*]

### 3.5. Reporting Requirements

- 3.5.1. **Responsible official.** Any application form, report, or compliance certification required by this permit to be submitted to the DAQ and/or USEPA shall contain a certification by the responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.
- 3.5.2. **Confidential information.** A permittee may request confidential treatment for the submission of reporting required by this permit pursuant to the limitations and procedures of W.Va. Code § 22-5-10 and 45CSR31.
- 3.5.3. **Correspondence.** All notices, requests, demands, submissions and other communications required or permitted to be made to the Secretary of DEP and/or USEPA shall be made in writing and shall be deemed to have been duly given when delivered by hand, or mailed first class with postage prepaid to the address(es) set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

**If to the DAQ:**

Director  
WVDEP  
Division of Air Quality  
601 57th Street, SE  
Charleston, WV 25304-2345

**If to the USEPA:**

Associate Director  
Office of Air Enforcement and Compliance  
Assistance Review (3AP20)  
U. S. Environmental Protection Agency  
Region III  
1650 Arch Street  
Philadelphia, PA 19103-2029

3.5.4. **Operating Fee.**

- 3.5.4.1. In accordance with 45CSR22 – Air Quality Management Fee Program, the permittee shall not operate nor cause to operate the permitted facility or other associated facilities on the same or contiguous sites comprising the plant without first obtaining and having in current effect a Certificate to Operate (CTO). Such Certificate to Operate (CTO) shall be renewed annually, shall be maintained on the premises for which the certificate has been issued, and shall be made immediately available for inspection by the Secretary or his/her duly authorized representative.
- 3.5.4.2. In accordance with 45CSR22 – Air Quality Management Fee Program, enclosed with this permit is an Application for Certificate to Operate (CTO). The CTO will cover the time period beginning with the date of initial startup through the following June 30. Said application and the appropriate fee shall be submitted to this office prior to the date of initial startup. For any startup date other than July 1, the permittee shall pay a fee or prorated fee in accordance with Section 4.5 of 45CSR22. A copy of this schedule may be found on the reverse side of the CTO application.
- 3.5.5. **Emission inventory.** At such time(s) as the Secretary may designate, the permittee herein shall prepare and submit an emission inventory for the previous year, addressing the emissions from the facility and/or process(es) authorized herein, in accordance with the emission inventory submittal requirements of the Division of Air Quality. After the initial submittal, the Secretary may, based upon the type and quantity of the pollutants emitted, establish a frequency other than on an annual basis.

#### 4.0. Source-Specific Requirements

##### 4.1. Limitations and Standards

- 4.1.1. Only those emission units/sources as identified in Table 1.0, with the exception of any *de minimis* sources as identified under Table 45-13B of 45CSR13, are authorized at the permitted facility. In accordance with the information filed in Permit Application R13-3002, the emission units/sources identified under Table 1.0 of this permit shall be installed, maintained, and operated so as to minimize any fugitive escape of pollutants, shall not exceed the listed maximum design capacities, and shall use the specified control devices.
- 4.1.2. The compressor engines, identified as CE-01 through CE-05, shall meet the following requirements:
- Each unit shall be a Waukesha Model L7044GSI 4-Stroke Rich Burn 1,627 hp compressor engine and shall only be fired by natural gas;
  - At all times each engine is in operation, an EMIT Technologies, Inc. Model ELS-4200T-1616F-60CEE-361 catalytic converter shall be used for emissions control;
  - The maximum emissions from each engine, as controlled by the catalytic converter specified under 4.1.2(b), shall not exceed the limits given in the following table:

**Table 4.1.2(c): Compressor Engine Emission Limits**

Pollutant	PPH <sup>(1)</sup>	TPY <sup>(2)</sup>
CO	2.26	9.90
NO <sub>x</sub>	1.79	7.84
PM <sub>2.5</sub> /PM <sub>10</sub> /PM	0.13	0.56
VOC	1.08	4.71
CH <sub>4</sub>	4.09	17.91
CO <sub>2</sub>	1,910.74	8,369.04
Formaldehyde	0.36	1.57

(1) PPH emissions based on specific model of engine and engine size.

(2) TPY emissions based on 8,760 hours operation/year.

- As the annual emissions are based on 8,760 hours of operation, there is no annual limit on hours of operation or natural gas combusted on an annual basis;
- Owners and operators of stationary SI ICE with a maximum engine power greater than or equal to 75 KW (100 HP) (except gasoline and rich burn engines that use LPG) must comply with the emission standards in Table 1 to this subpart for their stationary SI ICE.  
**[40 CFR §60.4233(e)]**
- What standards apply to reciprocating compressor affected facilities?** You must comply with the standards in paragraphs (a) through (d) of this section for each reciprocating compressor affected facility.

- a. You must replace the reciprocating compressor rod packing according to either paragraph (a)(1) or (2) of this section.

- (1) Before the compressor has operated for 26,000 hours. The number of hours of operation must be continuously monitored beginning upon initial startup of your reciprocating compressor affected facility, or October 15, 2012, or the date of the most recent reciprocating compressor rod packing replacement, whichever is later.
- (2) Prior to 36 months from the date of the most recent rod packing replacement, or 36 months from the date of startup for a new reciprocating compressor for which the rod packing has not yet been replaced.

**[40 CFR §60.5385(a)]**

- 4.1.3. The Microturbines, identified as GEN-1 and GEN-2, shall meet the following requirements:

- a. Each unit shall be a Capstone Model C200 200kW (output) Microturbine and shall only be fired by natural gas;
- b. The maximum emissions from each Microturbine shall not exceed the limits given in the following table:

**Table 4.1.3(b): Microturbine Emission Limits**

<b>Pollutant</b>	<b>PPH<sup>(1)</sup></b>	<b>TPY<sup>(2)</sup></b>
<b>CO</b>	0.26	1.15
<b>NO<sub>x</sub></b>	0.10	0.44
<b>VOC</b>	0.02	0.11
<b>CO<sub>2</sub></b>	319.20	1,398.10

(1) PPH emissions based on specific model of Microturbine.

(2) TPY emissions based on 8,760 hours operation/year.

- c. As the annual emissions are based on 8,760 hours of operation, there is no annual limit on hours of operation or natural gas combusted on an annual basis.

- 4.1.4. The maximum wet natural gas throughput to the Valerus Model GLY-GCR-1.5MM Glycol Dehydration Unit shall not exceed 60 MMscf/day or 21,900 MMscf/year.

- 4.1.5. The maximum emissions from the Glycol Dehydrator Regeneration Still Vent, identified as RSV-1, as emitted after combustion at the flare (C-01), shall not exceed the limits given in the following table:

**Table 4.1.5: Glycol Dehydrator Regeneration Still Vent Emission Limits<sup>(1)</sup>**

<b>Pollutant</b>	<b>PPH</b>	<b>TPY</b>
<b>CO</b>	1.40	6.13
<b>NO<sub>x</sub></b>	0.13	0.57
<b>VOC<sup>(1)</sup></b>	0.68	2.04
<b><i>Benzene<sup>(1)</sup></i></b>	<i>0.05</i>	<i>0.22</i>

<b>Pollutant</b>	<b>PPH</b>	<b>TPY</b>
<i>Ethylbenzene<sup>(1)</sup></i>	<i>0.01</i>	<i>0.02</i>
<i>Hexane<sup>(1)</sup></i>	<i>0.11</i>	<i>0.48</i>
<i>Toluene<sup>(1)</sup></i>	<i>0.10</i>	<i>0.43</i>
<i>Xylene<sup>(1)</sup></i>	<i>0.06</i>	<i>0.26</i>
<b>Total HAPs<sup>(1)</sup></b>	<b>0.33</b>	<b>1.43</b>

(1) Emissions based on GLYCalc Version 4.0 using wet gas throughputs as limited under 4.1.4.

4.1.6. The Glycol Deydrator Reboiler, identified as RBV-01, shall meet the following requirements:

- a. The MDHI shall not exceed 1.50 mmBtu/hr and the unit shall only be fired by natural gas;
- b. The maximum emissions from the Reboiler shall not exceed the limits given in the following table;

**Table 4.1.6(b): Reboiler Emission Limits**

<b>Pollutant</b>	<b>PPH<sup>(1)</sup></b>	<b>TPY<sup>(2)</sup></b>
<b>CO</b>	0.10	0.43
<b>NO<sub>x</sub></b>	0.12	0.51

(1) PPH emissions based on MDHI of Reboiler and emission factors from AP-42, Section 1.4.

(2) TPY emissions based on 8,760 hours operation/year.

- c. As the annual emissions are based on 8,760 hours of operation, there is no annual limit on hours of operation or natural gas combusted on an annual basis.
- d. No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any fuel burning unit which is greater than ten (10) percent opacity based on a six minute block average.

**[40CSR§2-3.1]**

4.1.7. The Flare, identified as C-01, shall operate according to the following requirements:

- a. The flare shall be non-assisted and the maximum capacity of the flare shall not exceed 2.04 mmBtu/hr;
- b. The flare shall be designed, operated, and maintained according to good engineering practices or manufacturing recommendations so as to achieve, at a minimum, a hydrocarbon combustion rate of 98.0%;
- c. The flare shall be operated at all times when emissions may be vented to it.
- d. The flare shall be designed for and operated with no visible emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.
- e. The flare shall be operated with a flame present at all times. The presence of a flare pilot flame



shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame.

- f. A flare shall be used only where the net heating value of the gas being combusted is 11.2 MJ/scm (300 Btu/scf) or greater if the flare is steam-assisted or air-assisted; or where the net heating value of the gas being combusted is 7.45 MJ/scm (200 Btu/scf) or greater if the flares is non-assisted. The net heating value of the gas being combusted in a flare shall be calculated using the following equation:

$$H_T = K \sum_{i=1}^n C_i H_i$$

Where:

HT=Net heating value of the sample, MJ/scm; where the net enthalpy per mole of off gas is based on combustion at 25 °C and 760 mm Hg, but the standard temperature for determining the volume corresponding to one mole is 20 °C.

K=Constant=

$$1.740 \times 10^{-7} \left( \frac{1}{ppmv} \right) \left( \frac{\text{g-mole}}{\text{scm}} \right) \left( \frac{\text{MJ}}{\text{kcal}} \right)$$

where the standard temperature for (g-mole/scm) is 20 °C.

C<sub>i</sub>=Concentration of sample component i in ppmv on a wet basis, which may be measured for organics by Test Method 18, but is not required to be measured using Method 18 (unless designated by the Director).

H<sub>i</sub>=Net heat of combustion of sample component i, kcal/g-mole at 25 °C and 760 mm Hg. The heats of combustion may be determined using ASTM D2382-76 or 88 or D4809-95 if published values are not available or cannot be calculated.

n=Number of sample components.

- g. Steam-assisted and nonassisted flares shall be designed for and operated with an exit velocity less than 18.3 m/sec (60 ft/sec), except as provided by 4.1.5(h) and 4.1.5(i) of this section. The actual exit velocity of a flare shall be determined by dividing by the volumetric flow rate of gas being combusted (in units of emission standard temperature and pressure), by the unobstructed (free) cross-sectional area of the flare tip, which may be determined by Test Method 2, 2A, 2C, or 2D in appendix A to 40 CFR part 60, as appropriate, but is not required to be determined using these Methods (unless designated by the Director).
- h. Steam-assisted and nonassisted flares designed for and operated with an exit velocity, as determined by the method specified in 4.1.5(g) of this section, equal to or greater than 18.3 m/sec (60 ft/sec) but less than 122 m/sec (400 ft/sec), are allowed if the net heating value of the gas being combusted is greater than 37.3 MJ/scm (1,000 Btu/scf).
- i. Steam-assisted and nonassisted flares designed for and operated with an exit velocity, as determined by the method specified in 4.1.5(g) of this section, less than the velocity V<sub>max</sub>, as determined by the calculation specified in this paragraph, but less than 122 m/sec (400 ft/sec) are allowed. The maximum permitted velocity, V<sub>max</sub>, for flares complying with this paragraph shall

be determined by the following equation:

$$\text{Log}_{10}(V_{\text{max}})=(HT+28.8)/31.7$$

Where:

$V_{\text{max}}$ =Maximum permitted velocity, m/sec.

28.8=Constant.

31.7=Constant.

HT=The net heating value as determined in 4.1.5(f) of this section

- j. The permittee is not required to conduct a flare compliance assessment for concentration of sample (i.e. Method 18) and tip velocity (i.e. Method 2) until such time as the Director requests a flare compliance assessment to be conducted in accordance with section 4.3.3., but the permittee is required to conduct a flare design evaluation in accordance with section 4.4.4. Alternatively, the permittee may elect to demonstrate compliance with the flare design criteria requirements of 4.1.7. by complying with the compliance assessment testing requirements of section 4.3.3.
- k. The permittee shall not cause, suffer, allow or permit particulate matter to be discharged from the flare into the open air in excess of the quantity determined by use of the following formula:

$$\text{Emissions (lb/hr)} = F \times \text{Incinerator Capacity (tons/hr)}$$

Where, the factor, F, is as indicated in Table I below:

**Table I:** Factor, F, for Determining Maximum Allowable Particulate Emissions

<u>Incinerator Capacity</u>	<u>Factor F</u>
A. Less than 15,000 lbs/hr	5.43
B. 15,000 lbs/hr or greater	2.72

**[45CSR§6-4.1]**

- 4.1.8. The use of catalytic converters, identified as C-02 through C-06, shall be in accordance with the following requirements:
  - a. Rich-burn natural gas compressor engines equipped with non-selective catalytic reduction (NSCR) air pollution control devices shall be fitted with a closed-loop, automatic air/fuel ratio controller to ensure emissions of regulated pollutants do not exceed the potential to emit for any engine/NSCR combination under varying load. The closed-loop, automatic air/fuel ratio controller shall control a fuel metering valve to deliver additional fuel when required to ensure a fuel-rich mixture and a resultant exhaust oxygen content of less than or equal to 0.5%. The automatic air/fuel ratio controller shall also incorporate dual-point exhaust gas temperature and oxygen sensors which provide temperature and exhaust oxygen content differential feedback. Such controls shall ensure proper and efficient operation of the engine and NSCR air pollution control device;
  - b. The automatic air/fuel ratio controller or closed-loop automatic feedback controller shall provide a warning or indication to the operator and/or be interlocked with the engine ignition system to cease engine operation in case of a masking, poisoning or overrich air/fuel ratio situation which results in performance degradation or failure of the catalyst element;
  - c. The permittee shall monitor the temperature to the inlet of the catalyst and in accordance with

manufacturer's specifications a high temperature alarm shall shut off the engine before thermal deactivation of the catalyst occurs. The permittee shall maintain these records for five (5) years;

- d. No person shall knowingly:
  - (1) Remove or render inoperative any air pollution or auxiliary air pollution control device installed subject to the requirements of this permit;
  - (2) Install any part or component when the principal effect of the part or component is to bypass, defeat or render inoperative any air pollution control device or auxiliary air pollution control device installed subject to the requirements of this permit; or
  - (3) Cause or allow engine exhaust gases to bypass any catalytic reduction device; and
- e. The permittee shall regularly inspect, properly maintain and/or replace catalytic reduction devices and auxiliary air pollution control devices to ensure functional and effective operation of the engine's physical and operational design. The permittee shall ensure proper operation, maintenance and performance of catalytic reduction devices and auxiliary air pollution control devices by:
  - (1) Maintaining proper operation of the automatic air/fuel ratio controller or automatic feedback controller;
  - (2) Following operating and maintenance recommendations of the catalyst element manufacturer.

4.1.9. Use of storage tanks, identified as T01 through T10, shall be in accordance with the following:

- a. Tank size and material stored shall be limited as specified under Table 1.0 of this permit;
- b. All emissions (working/breathing/flashing) generated in the storage tanks shall be routed to the Vapor Recovery Unit for recycling of the vapors back into the plant.
- c. For each storage vessel affected facility emitting more than 6 tpy VOC, you must reduce VOC emissions by 95.0 percent or greater within 60 days after startup.  
**[40 CFR §60.5395(a)]**
- d. If you use a control device (such as an enclosed combustion device or vapor recovery device) to reduce emissions, you must equip the storage vessel with a cover that meets the requirements of § 60.5411(b) and is connected through a closed vent system that meets the requirements of § 60.5411(a) to a control device that meets the conditions specified in §60.5412.  
**[40 CFR §60.5395(b)(1)]**

4.1.10. The Truck Loading operations, identified as EPLOR, shall be in accordance with the following requirements:

- a. All trucks shall be loaded using the submerged-fill method; and
- b. The maximum loadout of liquids shall not exceed 4,594,800 gallons/year.

4.1.11. The permittee shall not exceed the number and type of components (valves, pump seals, connectors, etc.) in gas/vapor or light liquid (as applicable) listed in Attachment N of Permit Application

R13-3002.

- 4.1.12. The Company shall install, maintain, and operate all above-ground piping, valves, pumps, etc. that service lines in the transport of potential sources of regulated air pollutants to prevent any substantive fugitive escape of regulated air pollutants. Any above-ground piping, valves, pumps, etc. that shows signs of excess wear and that have a reasonable potential for substantive fugitive emissions of regulated air pollutants shall be replaced.
- 4.1.13. The permittee shall meet all applicable requirements, including those not specified above, as given under 45CS2, 45CSR6 and 40 CFR 60, Subpart JJJJ, and Subpart OOOO.
- 4.1.14. **Operation and Maintenance of Air Pollution Control Equipment.** The permittee shall, to the extent practicable, install, maintain, and operate all pollution control equipment listed in Section 1.0 and associated monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions, or comply with any more stringent limits set forth in this permit or as set forth by any State rule, Federal regulation, or alternative control plan approved by the Secretary.  
[45CSR§13-5.11.]

#### **4.2. Monitoring, Compliance Demonstration, Source-Specific Record and Reporting Requirements**

- 4.2.1. The permittee shall comply with all applicable monitoring, compliance demonstration and record-keeping requirements as given under 40 CFR 60, Subpart JJJJ including the following:

If you are an owner or operator of a stationary SI internal combustion engine and must comply with the emission standards specified in §60.4233(d) or (e), you must demonstrate compliance according to one of the methods specified in paragraphs (b)(1) and (2) of this section.

[40 CFR §60.4243(b)]

- a. Purchasing an engine certified according to procedures specified in this subpart, for the same model year and demonstrating compliance according to one of the methods specified in paragraph (a) of this section.  
[40 CFR §60.4243(1)]
- b. Purchasing a non-certified engine and demonstrating compliance with the emission standards specified in §60.4233(d) or (e) and according to the requirements specified in §60.4244, as applicable, and according to paragraphs (b)(2)(i) and (ii) of this section.  
[40 CFR §604243(2)]

(1) If you are an owner or operator of a stationary SI internal combustion engine greater than 25 HP and less than or equal to 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test to demonstrate compliance.  
[40 CFR §604243(2)(i)]

(2) If you are an owner or operator of a stationary SI internal combustion engine greater than 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air

pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance.

**[40 CFR §604243(2)(ii)]**

- 4.2.2. For the purposes of demonstrating compliance with the maximum wet gas throughput limit set forth in 4.1.4., the permittee shall monitor daily, monthly and rolling twelve month records of the wet gas throughput of the Glycol Dehydration Unit.
- 4.2.3. For the purposes of demonstrating compliance with visible emissions limitations set forth in 4.1.6(d) and 4.1.7(d), the permittee shall:
  - a. Conduct an initial Method 22 visual emission observation on the Reboiler exhaust and flare to determine the compliance with the visible emission provisions. The permittee shall take a minimum of two (2) hours of visual emissions observations on the units.
  - b. Conduct monthly Method 22 visible emission observations of the Reboiler exhaust and flare to ensure proper operation for a minimum of ten (10) minutes each month the units are in operation.
  - c. In the event visible emissions are observed in excess of the limitations given under 4.1.2(d), the permittee shall take immediate corrective action.
- 4.2.4. Operation of the flare shall meet the following Monitoring, Compliance Demonstration and Source-Specific Recordkeeping Requirements:
  - a. The permittee shall maintain records of all startups, shutdowns, and/or malfunctions of the flare. These records shall include the date, time, and duration of each event.
  - b. The permittee shall maintain records of the date, time, and duration each time the permittee does not detect the presence of a pilot flame in the flare.
- 4.2.5. For the purposes of demonstrating compliance with the truck loadout throughput limit set forth in 4.1.10(b), the permittee shall monitor and maintain monthly and rolling twelve month records of the amount of liquids loaded out.
- 4.2.6. The permittee shall meet all applicable Monitoring, Compliance Demonstration and Source-Specific Recordkeeping Requirements as given under 45CS2, 45CSR6 and 40 CFR 60, Subpart JJJJ, and Subpart OOOO.

### **4.3. Testing Requirements**

- 4.3.1. At such reasonable time(s) as the Secretary may designate, in accordance with the provisions of 3.3 of this permit, the permittee shall conduct or have conducted test(s) to determine compliance with the emission limitations established in this permit and/or applicable regulations.
- 4.3.2. The Director may require the permittee to conduct a flare compliance assessment to demonstrate compliance with section 4.1.7. This compliance assessment testing shall be conducted in accordance with Test Method 18 for organics and Test Method 2, 2A, 2C, or 2D in appendix A to 40 CFR part 60, as appropriate, or other equivalent testing approved in writing by the Director. Also, Test Method 18 may require the permittee to conduct Test Method 4 in conjunction with Test Method 18.

- 4.3.3. In order to demonstrate compliance with 4.1.5, upon request of the Director, the permittee shall demonstrate compliance with the HAP emissions thresholds using GLYCalc Version 4.0 or higher. The permittee shall sample in accordance with GPA Method 2166 and analyze the samples utilizing the extended GPA Method 2286 as specified in the GRI-GLYCalc V4 Technical Reference User Manual and Handbook.
- 4.3.4. The permittee shall meet all applicable Performance Testing Requirements as given under 45CS2, 45CSR6 and 40 CFR 60, Subpart JJJJ, and Subpart OOOO.

#### **4.4. Recordkeeping Requirements**

- 4.4.1. **Record of Monitoring.** The permittee shall keep records of monitoring information that include the following:
  - a. The date, place as defined in this permit and time of sampling or measurements;
  - b. The date(s) analyses were performed;
  - c. The company or entity that performed the analyses;
  - d. The analytical techniques or methods used;
  - e. The results of the analyses; and
  - f. The operating conditions existing at the time of sampling or measurement.
- 4.4.2. **Record of Maintenance of Air Pollution Control Equipment.** For all pollution control equipment listed in Section 1.0, the permittee shall maintain accurate records of all required pollution control equipment inspection and/or preventative maintenance procedures.
- 4.4.3. **Record of Malfunctions of Air Pollution Control Equipment.** For all air pollution control equipment listed in Section 1.0, the permittee shall maintain records of the occurrence and duration of any malfunction or operational shutdown of the air pollution control equipment during which excess emissions occur. For each such case, the following information shall be recorded:
  - a. The equipment involved.
  - b. Steps taken to minimize emissions during the event.
  - c. The duration of the event.
  - d. The estimated increase in emissions during the event.

For each such case associated with an equipment malfunction, the additional information shall also be recorded:

- e. The cause of the malfunction.
- f. Steps taken to correct the malfunction.
- g. Any changes or modifications to equipment or procedures that would help prevent future

recurrences of the malfunction.

- 4.4.4. For the purpose of demonstrating compliance with section 4.1.7. and 4.3.2., the permittee shall maintain a record of the flare design evaluation. The flare design evaluation shall include, net heat value calculations, exit (tip) velocity calculations, and all supporting concentration calculations and other related information requested by the Director.
- 4.4.5. For the purpose of demonstrating compliance with the requirements set forth in sections 4.1.7 and 4.3.3., the permittee shall maintain records of testing conducted in accordance with 4.3.3.
- 4.4.8. For the purpose of demonstrating compliance with section 4.1.7(d), the permittee shall maintain records of the visible emission opacity tests conducted per Section 4.2.3.
- 4.4.9. The permittee shall comply with all applicable record-keeping requirements as given under 45CS2, 45CSR6 and 40 CFR 60, Subpart JJJJ, and Subpart OOOO.

#### **4.5. Reporting Requirements**

- 4.5.1. If permittee is required by the Director to demonstrate compliance with section 4.3.3, then the permittee shall submit a testing protocol at least thirty (30) days prior to testing and shall submit a notification of the testing date at least fifteen (15) days prior to testing. The permittee shall submit the testing results within sixty (60) days of testing and provide all supporting calculations and testing data.
- 4.5.2. Any deviation(s) from the allowable visible emission requirement for any emission source discovered during observations using 40CFR Part 60, Appendix A, Method 9 or 22 shall be reported in writing to the Director of the Division of Air Quality as soon as practicable, but in any case within ten (10) calendar days of the occurrence and shall include at least the following information: the results of the visible determination of opacity of emissions, the cause or suspected cause of the violation(s), and any corrective measures taken or planned.
- 4.5.3. Any deviation(s) from the flare design and operation criteria in Section 4.1.7. shall be reported in writing to the Director of the Division of Air Quality as soon as practicable, but in any case within ten (10) calendar days of discovery of such deviation.
- 4.5.4.. The permittee shall comply with all applicable record-keeping requirements as given under 45CS2, 45CSR6 and 40 CFR 60, Subpart JJJJ, and Subpart OOOO.

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**CERTIFICATION OF DATA ACCURACY**

I, the undersigned, hereby certify that, based on information and belief formed after reasonable inquiry, all information contained in the attached \_\_\_\_\_, representing the period beginning \_\_\_\_\_ and ending \_\_\_\_\_, and any supporting documents appended hereto, is true, accurate, and complete.

**Signature<sup>1</sup>** \_\_\_\_\_  
(please use blue ink) Responsible Official or Authorized Representative Date

**Name and Title** \_\_\_\_\_  
(please print or type) Name Title

Telephone No. \_\_\_\_\_ Fax No. \_\_\_\_\_

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- <sup>1</sup> This form shall be signed by a "Responsible Official." "Responsible Official" means one of the following:
- a. For a corporation: The president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and either:
    - (I) the facilities employ more than 250 persons or have a gross annual sales or expenditures exceeding \$25 million (in second quarter 1980 dollars), or
    - (ii) the delegation of authority to such representative is approved in advance by the Director;
  - b. For a partnership or sole proprietorship: a general partner or the proprietor, respectively;
  - c. For a municipality, State, Federal, or other public entity: either a principal executive officer or ranking elected official. For the purposes of this part, a principal executive officer of a Federal agency includes the chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., a Regional Administrator of USEPA); or
  - d. The designated representative delegated with such authority and approved in advance by the Director.