

West Virginia Department of Environmental Protection

Austin Caperton  
Cabinet Secretary

# Title V Operating Permit Revision



## For Minor Modification Permitting Action Under 45CSR30 and Title V of the Clean Air Act

**Permit Action Number:** MM05      **SIC:** 1321  
**Name of Permittee:** Williams Ohio Valley Midstream, LLC  
**Facility Name/Location:** Oak Grove Gas Plant  
**County:** Marshall  
**Facility Address:** 100 Teletech Drive, Suite 2  
Moundsville, WV 26041

**Description of Permit Revision:** The purpose of this modification is to increase the VOC emissions from the amine unit still vent. These changes were approved under R13-3070C.

**Title V Permit Information:**

**Permit Number:** R30-05100157-2016  
**Issued Date:** April 26, 2016  
**Effective Date:** May 10, 2016  
**Expiration Date:** April 26, 2021

**Directions To Facility:** From Lafayette Ave in Moundsville, head East onto 12th St ~ 1.1 miles. Continue onto Fork Ridge Rd ~5.4 miles. Site entrance is on the left.

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THIS PERMIT REVISION IS ISSUED IN ACCORDANCE WITH THE WEST VIRGINIA AIR POLLUTION CONTROL ACT (W.VA. CODE §§ 22-5-1 ET SEQ.) AND 45CSR30 - "REQUIREMENTS FOR OPERATING PERMITS." THE PERMITTEE IDENTIFIED AT THE FACILITY ABOVE IS AUTHORIZED TO OPERATE THE STATIONARY SOURCES OF AIR POLLUTANTS IDENTIFIED HEREIN IN ACCORDANCE WITH ALL TERMS AND CONDITIONS OF THIS PERMIT.

A handwritten signature in blue ink, appearing to read "Laura M. Crowder".

Laura M. Crowder  
Director, Division of Air Quality

January 6, 2020

Date Issued

**Control Devices**

Emission Sources	Pollutant	Control Device	Control Efficiency
<b><u>Inlet Gas:</u></b> TXP Blowdowns TXP Start-Up and Dry-out Balance of Plant Volumes Filters Change-Out Compressor Maintenance Amine Unit Flash Gas Gas Pig Trap Blowdown Compressor Dry Gas Seals Other/Miscellaneous	Volatile Organic Compounds	Process Flare (FL-1)	99.0 %
<b><u>Ethane:</u></b> Ethane Feed <b><u>NGL:</u></b> Liquid Pig Trap Blowdown TXP Tanks Liquid Dry-Out Pump Maintenance: <b><u>Residue Gas:</u></b> Purge Gas Pilot Gas	Total HAPS		99.0 %

**1.2. Active R13, R14, and R19 Permits**

The underlying authority for any conditions from R13, R14, and/or R19 permits contained in this operating permit is cited using the original permit number (e.g. R13-1234). The current applicable version of such permit(s) is listed below.

Permit Number	Date of Issuance
R13-3070 <del>BC</del>	<del>December 5, 2017</del> <a href="#">October 17, 2019</a>
R13-3289B	October 12, 2017

- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 C.F.R. § 82.161.

**[40 C.F.R. 82, Subpart F]**

- 3.1.8. **Risk Management Plan.** Should this stationary source, as defined in 40 C.F.R. § 68.3, become subject to Part 68, then the owner or operator shall submit a risk management plan (RMP) by the date specified in 40 C.F.R. § 68.10 and shall certify compliance with the requirements of Part 68 as part of the annual compliance certification as required by 40 C.F.R. Part 70 or 71.

**[40 C.F.R. 68]**

- 3.1.9. **Minor Source of Hazardous Air Pollutants (HAP).** HAP emissions from the facility shall ~~not exceed~~ be less than 10 tons/year of any single HAP ~~and or~~ 25 tons/year of any combination of HAPs. Compliance with this Section shall ensure that the facility is a minor HAP source.

**[45CSR13, R13-3070, 4.1.2.]**

- 3.1.10. **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.

**[45CSR13, R13-3070, 4.1.3.; R13-3289, 4.1.5]**

- 3.1.11. 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 this permitted facility.

**[45CSR13, R13-3070, 4.1.5.]**

## 3.2. Monitoring Requirements

- 3.2.1. N/A

## 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, if applicable, in accordance with the Secretary's delegated authority and any established equivalency determination methods which are applicable.

## 8.0 Amine Process Vent [emission point ID(s): 16E]

### 8.1 Limitations and Standards

8.1.1. **Maximum Throughput Limitation.** The maximum ethane feedstock to the amine system shall not exceed 44,000 barrels/day.  
[45CSR13, R13-3070, 10.1.1.]

8.1.2. The amine system (16E) shall be designed and operated in accordance with the following:

- a. Carbon dioxide will be removed from the ethane product in an amine contacting system.
- b. The total ethane product shall be contacted with a amine solution in the contactor where the carbon dioxide in the ethane product is removed.
- c. The rich amine from the Contactor is regenerated in the Amine Regenerator where heat input is used to drive the carbon dioxide and water overhead and vented to the atmosphere.
- d. The lean amine from the bottom of the Regenerator is recycled back to the Amine Contactor.

[45CSR13, R13-3070, 10.1.2.]

8.1.3. Maximum emissions from the Amine System (16E) shall not exceed the following limits:

Pollutant	Maximum Hourly Emissions (lb/hr)	Maximum Annual Emissions (ton/year)
Volatile Organic Compounds	<del>0.11</del> 0.47	<del>0.49</del> 2.07

[45CSR13, R13-3070, 10.1.3.]

### 8.2 Monitoring Requirements

8.2.1. The permittee shall monitor the throughput of ethane feedstock fed to the Amine Process (16E) on a monthly basis.  
[45CSR13, R13-3070, 10.2.1.]

### 8.3 Testing Requirements

8.3.1. N/A

### 8.4 Recordkeeping Requirements

8.4.1. The permittee shall maintain a record of the ethane product throughput to the Amine Process Vent (16E) to demonstrate compliance with section 8.1.1 of this permit. Said records shall be maintained for a period of five (5) years on site or in a readily accessible off-site location maintained by the permittee. Said records shall be readily available to the Director of the Division of Air Quality or his/her duly authorized