

Fact Sheet



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

This Fact Sheet serves to address the changes specific to this Minor Modification, and shall be considered a supplement to the Fact Sheet corresponding with the Title V operating permit issued on December 22, 2020.

Permit Number: **R30-09500084-2020**
Application Received: **December 14, 2023**
Plant Identification Number: **03-54-095-00084**
Permittee: **Antero Midstream LLC**
Facility Name: **Middlebourne IV Compressor Station**
Mailing Address: **1615 Wynkoop Street, Denver, CO 80202**

Permit Action Number: *MM03* Revised: *April 8, 2024*

Physical Location: Middlebourne, Tyler County, West Virginia
UTM Coordinates: 507.741 km Easting • 4,369.546 km Northing • Zone 17
Directions: From Middlebourne, WV, drive southwest on WV-18/Main St. Turn right onto Bridgeway Road. Drive for 0.1 miles and turn left onto Middlebourne-Wick/Wick Road. After 1.4 miles the facility will be on the right.

Facility Description

The Middlebourne IV Compressor Station separates, compresses, and dries gas off the inlet pipeline stream. The station includes fifteen (15) compressor engines with oxidation catalysts, three (3) compressor engines with NSCR (Non-Selective Catalytic Reduction) catalysts, two (2) natural gas generators, two (2) 260 MMscfd dehydrators with two (2) reboilers and two (2) flash tanks, one (1) 150 MMscfd dehydrator with one (1) reboiler and one (1) flash tank, five (5) 400-bbl condensate tanks, five (5) 400-bbl produced water tanks, one (1) 500-bbl condensate/produced water settling tank, one (1) 0.5 MMBtu/hr fuel conditioning heater, one (1) 0.75 MMBtu/hr fuel conditioning heater, three (3) thermal oxidizers, three (3)

vapor recovery units (VRU), liquid loadout operations, fugitive component emissions, and twelve (12) auxiliary storage tanks.

This modification incorporates the changes approved under R13-3380F to add language allowing for the use of ProMax as an alternative to GlyCalc for glycol dehydration unit calculations.

Emissions Summary

There is no change in the facility's emissions as a result of this modification.

Title V Program Applicability Basis

With the proposed changes associated with this modification, this facility maintains the potential to emit 113.94 tons per year of CO, 214.85 tons per year of NOX, and 207.09 tons per year of VOC. Due to this facility's potential to emit over 100 tons per year of criteria pollutant, Antero Midstream LLC is required to have an operating permit pursuant to Title V of the Federal Clean Air Act as amended and 45CSR30.

Legal and Factual Basis for Permit Conditions

The State and Federally-enforceable conditions of the Title V Operating Permits are based upon the requirements of the State of West Virginia Operating Permit Rule 45CSR30 for the purposes of Title V of the Federal Clean Air Act and the underlying applicable requirements in other state and federal rules.

The modification to this facility has been found to be subject to the following applicable rules:

Federal and State:	45CSR13 45CSR30	NSR Permits Operating permit requirement.
State Only:	None.	

Each State and Federally-enforceable condition of the Title V Operating Permit references the specific relevant requirements of 45CSR30 or the applicable requirement upon which it is based. Any condition of the Title V permit that is enforceable by the State but is not Federally-enforceable is identified in the Title V permit as such.

The Secretary's authority to require standards under 40 C.F.R. Part 60 (NSPS), 40 C.F.R. Part 61 (NESHAPs), and 40 C.F.R. Part 63 (NESHAPs MACT) is provided in West Virginia Code §§ 22-5-1 *et seq.*, 45CSR16, 45CSR34 and 45CSR30.

Active Permits/Consent Orders

The active permits/consent orders affected by this modification are as follows:

Permit or Consent Order Number	Date of Issuance	Permit Determinations or Amendments That Affect the Permit (<i>if any</i>)
R13-3380F	December 18, 2023	

Conditions from this facility's Rule 13 permit(s) governing construction-related specifications and timing requirements will not be included in the Title V Operating Permit but will remain independently enforceable under the applicable Rule 13 permit(s). All other conditions from this facility's Rule 13 permit(s) governing the source's operation and compliance have been incorporated into this Title V permit in accordance with the "General Requirement Comparison Table," which may be downloaded from DAQ's website.

Determinations and Justifications

The following changes were made as part of this modification:

Section 2.0 General Requirements

- Updated the boilerplate language of condition 2.1.3.
- Updated the citation of condition 2.11.4.
- Reserved condition 2.17.
- Updated the citation of condition 2.22.1.

Section 3.0 Facility-Wide Requirements

- Updated US EPA address in condition 3.5.3.
- Updated the boilerplate language of condition 3.5.4.
- Reserved condition 3.5.7.
- Reserved condition 3.5.8.a.1 and updated the boilerplate language of condition 3.5.8.a.2.

Section 5.0 Source-Specific Hazardous Air Pollutant Requirements

- Added conditions 5.3.4, 5.3.5, and 5.3.6 to incorporate the new R13-3380F requirements which allow for the use of ProMax as an alternative to GlyCalc for glycol dehydration unit calculations.
- Updated condition 5.4.7 to include reference to condition 5.3.4.

Non-Applicability Determinations

The following requirements have been determined not to be applicable to the subject facility due to the following:

None.

Request for Variances or Alternatives

None.

Insignificant Activities

Insignificant emission unit(s) and activities are identified in the Title V application.

Comment Period

Beginning Date: Not Applicable for minor modifications
Ending Date: N/A

Point of Contact

All written comments should be addressed to the following individual and office:

Robert Mullins
West Virginia Department of Environmental Protection
Division of Air Quality

601 57th Street SE
Charleston, WV 25304
304/926-0499 ext. 41286
Robert.A.Mullins@wv.gov

Procedure for Requesting Public Hearing

During the public comment period, any interested person may submit written comments on the draft permit and may request a public hearing, if no public hearing has already been scheduled. A request for public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing. The Secretary shall grant such a request for a hearing if he/she concludes that a public hearing is appropriate. Any public hearing shall be held in the general area in which the facility is located.

Response to Comments (Statement of Basis)

Not applicable.