



**STATE OF TENNESSEE  
AIR POLLUTION CONTROL BOARD  
DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
NASHVILLE, TENNESSEE**

**PERMIT TO CONSTRUCT / MODIFY AIR CONTAMINANT SOURCE(S)**

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**Permit Number:** 979280

**Facility (Permittee):** Eastman Chemical Company – Tennessee Operations

**Facility ID:** 82-0003

**Facility Address:** 200 South Wilcox Drive, Kingsport  
Sullivan County

**Facility Classification:** Title V

**Federal Requirements:** 40 CFR 60 Subparts VVa, NNN, and RRR  
40 CFR 63 Subpart FFFF  
SIP

**Facility Description:** Chemical Manufacturing Operation, Manufacture of Crude Glycol

Permit 979280, consisting of 42 pages is hereby issued September 21, 2021, pursuant to the Tennessee Air Quality Act and by the Technical Secretary, Tennessee Air Pollution Control Board, Department of Environment and Conservation. This permit supersedes all previously issued permits for this source(s). This permit expires on September 20, 2023. The holder of this permit shall comply with the conditions contained in this permit as well as all applicable provisions of the Tennessee Air Pollution Control Regulations (TAPCR).

Michelle W. Owenby  
Technical Secretary  
Tennessee Air Pollution Control Board

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No Authority is Granted by this Permit to Operate, Construct, or Maintain any Installation in Violation of any Law, Statute, Code, Ordinance, Rule, or Regulation of the State of Tennessee or any of its Political Subdivisions.

## **Section I – Sources Included in this Construction Permit**

FACILITY DESCRIPTION			
Source Number	Source Description	Status	Control Device/Equipment
245	Glycol Plants (PES B-221-3)	Modified	Scrubbers

## **Section II – Permit Record**

Permit Type	Description of Permit Action	Issue Date
Initial	Initial permit issuance  This permit allows the installation of a new feed pump in the Glycol MCPU. This process modification will trigger NSPS RRR applicability due to an increase in actual emissions from the reactors to which this pump will supply material. This permit also incorporates the changes submitted as minor modification #1 to permit 576162 (add Tank WH-51, update NSPS NNN applicability for DC-29 and DC-30 degreasers, designate MON Storage Tanks TB-50, TL-50, and TZ-50 as part of a different MCPU, and update fugitive equipment leaks based on updated equipment counts and addition of nontraditional fugitive emissions).	September 21, 2021

## **Section III - General Permit Conditions**

### **G1. Responsible Person**

The application that was utilized in the preparation of this construction permit is dated August 13, 2021 and is signed by Bill Fritsch- Division Manufacturing Leader, Plastics, the Responsible Person for the permittee. The Responsible Person may be the owner, president, vice-president, general partner, plant manager, environmental/health/safety coordinator, or other person that is able to represent and bind the facility in environmental permitting affairs. If this Responsible Person terminates their employment or is assigned different duties and is no longer the person to represent and bind the permittee in environmental permitting affairs, the new Responsible Person for the permittee shall notify the Technical Secretary of the change in writing. The Notification shall include the name and title of the new Responsible Person assigned by the permittee to represent and bind the permittee in environmental permitting affairs, and the date the new Responsible Person was assigned these duties.

Should a change in the Responsible Person occur, the new Responsible Person must submit the Notification provided in Appendix 1 of this permit no later than 30 days after the change. A separate notification shall be submitted for each subsequent change in Responsible Person.

TAPCR 1200-03-09-.03(8)

### **G2. Application and Agreement Letters**

This source shall operate in accordance with the terms of this permit, the information submitted in the approved permit application referenced in **Condition G1**, and any documented agreements made with the Technical Secretary.

TAPCR 1200-03-09-.01(1)(d)

### **G3. Submittals**

Unless otherwise specified within this permit, the permittee shall submit all plans, checklists, certifications, notifications, test protocols, reports, applications, and fees to the attention of the following Division Programs at the addresses indicated in the table below:

Permitting Program	Compliance Validation Program	Field Services Program
<ul style="list-style-type: none"><li>• Notifications</li><li>• Startup certifications</li><li>• Applications</li><li>• NSPS reports</li><li>• MACT/GACT/NESHAP reports</li><li>• Fees</li><li>• Emission statements</li><li>• Construction permit extension requests</li></ul>	<ul style="list-style-type: none"><li>• Test protocols</li><li>• Emission test reports</li><li>• Visible emission evaluation reports</li></ul>	<ul style="list-style-type: none"><li>• Semiannual reports</li><li>• Annual compliance status reports</li></ul>
Division of Air Pollution Control William R. Snodgrass TN Tower, 15 <sup>th</sup> Floor 312 Rosa L. Parks Avenue Nashville, TN 37243 <a href="mailto:Air.Pollution.Control@tn.gov">Air.Pollution.Control@tn.gov</a>		

The permittee shall submit the information identified above as requested in this permit. In lieu of submitting this information to the mailing addresses above, the permittee may submit the information to the attention of the respective Division Programs via e-mail in Adobe Portable Document format (PDF) to the specified email address.

TAPCR 1200-03-09-.03(8)

### **G4. Notification of changes**

The permittee shall notify the Technical Secretary for any of the following changes to a permitted air contaminant source which would not be a modification requiring a new construction permit:

- change in air pollution control equipment that does not result in an increase or otherwise meet the definition of a modification
- change in stack height or diameter
- change in exit velocity of more than 25 percent or exit temperature of more than 15 percent based on absolute temperature.

The permittee must submit the Notification provided in Appendix 2 of this permit 30 days before the change is commenced.

TAPCR 1200-03-09-.02(7)

**G5. Permit Transference**

- A. This permit is not transferable from one air contaminant source to another air contaminant source or from one location to another location. The permittee must submit a construction permit application for a new source to the Permitting Program not less than 90 days prior to the estimated starting date of these events. If the new source will be subject to major New Source Review, the application must be submitted not less than 120 days in advance of the estimated starting date of these events.

TAPCR 1200-03-09-.03(6)(b) and 1200-03-09-.01(1)(b)

- B. In the event an ownership change occurs at this facility, the new owner must submit the notification provided in Appendix 3 of this permit. The written notification must be submitted by the new owner to the Permitting Program no later than 30 days after the ownership change occurs. If the change in ownership results in a change in Responsible Person for the facility, notification of the change in Responsible Person must also be submitted, as specified in **Condition G1**.

TAPCR 1200-03-09-.03(6)(a) and (b)

- G6. Operating Permit Application Submittal:** Not applicable – the application dated August 13, 2021 includes an application for this permit and for a significant modification to Title V Operating Permit 576162.

**G7. Temporary Operating Permit**

- A. This construction permit shall serve as a temporary operating permit from the date of issuance, until the Technical Secretary issues a Title V significant modification to Permit 576162.

TAPCR 1200-03-09-.02(1), 1200-03-09-.02(2) and 1200-03-09-.02(11)(d)1(i)(V)

- B. If construction of the air contaminant source(s) cannot be completed and/or an operating permit application cannot be filed with the Technical Secretary by the expiration date of this permit, the permittee must submit a permit extension request 30 days prior to permit expiration.

TAPCR 1200-03-09-.02(1) and 1200-03-09-.02(3)

**G8. Startup Certification for New or Modified Source(s)**

The startup certification provided in Appendix 4 shall be submitted to the Permitting Program once an air contaminant source has started up. Startup of the air contaminant source shall be the date the new or modified air contaminant source began operation for the production of product for sale, use as raw materials, or steam or heat production under the terms of this permit.

TAPCR 1200-03-09-.03(8)

**Compliance Method:** The startup certification provided in Appendix 4 shall be submitted no later than 30 days after the air contaminant source has begun startup.

**G9. Fees**

The air contaminant source(s) identified in this permit shall comply with the requirements for payment of applicable annual emission fees to the Tennessee Division of Air Pollution Control.

TAPCR 1200-03-26-.02

**G10. General Recordkeeping Requirements**

- A. Not applicable (addressed in the Table Notes).
- B. The information contained in logs, records, and submittals required by this permit shall be kept at the facility's address, unless otherwise noted, and provided to the Technical Secretary or a Division representative upon request. Computer-generated logs are acceptable. Compliance is assured by retaining the logs, records, and submittals specified in this permit for a period of not less than five years at the facility's address.

TAPCR 1200-03-10-.02(2)(a)

**G11. Routine Maintenance Requirements**

The permittee shall maintain and repair the emission source, associated air pollution control device(s), and compliance assurance monitoring equipment as required to maintain and assure compliance with the specified emission limits.

TAPCR 1200-03-09-.03(8)

**Compliance Method:** Records of all repair and maintenance activities required above shall be recorded in a suitable permanent form and kept available for inspection by the Division. These records must be retained for a period of not less than five years. The date each maintenance and repair activity began shall be entered in the log no later than seven days following the start of the repair or maintenance activity, and the completion date shall be entered in the log no later than seven days after activity completion.

**G12. Visible Emissions**

Unless otherwise specified, visible emissions from this facility shall not exhibit greater than 20% opacity, except for one six-minute period in any one-hour period, and for no more than four six-minute periods in any 24-hour period. A stack is defined as any chimney, flue, conduit, exhaust, vent, or opening of any kind whatsoever, capable of, or used for, the emission of air contaminants.

TAPCR 1200-03-05-.01(1) and 1200-03-05-.03(6)

**Compliance Method:** When required to demonstrate compliance, visible emissions shall be determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average).

**G13. Facility-wide Limitations** – Not applicable.

**G14. NSPS/NESHAP/MACT/GACT Standards**

The following source(s) shall comply with all applicable requirements of the NSPS/NESHAP/MACT/GACT standards as indicated in the table below:

Source	NESHAP/MACT/GACT	NSPS
245	40 CFR 63 Subparts A and FFFF	40 CFR 60 Subparts A, VVa, NNN, and RRR

TAPCR 1200-03-09-.03(8)

**Compliance Method:** A listing of specific applicability determinations for 40 CFR Parts 60 and 63 in effect as of the issuance date of this permit are found in Appendix 8. Compliance with this condition shall be assured by compliance with the specific requirements listed in Appendix 8. Changes that result in a change of applicability shall follow the applicable procedures in TAPCR 1200-03-09 and shall include an update to Appendix 8.

The permittee is subject to and shall comply with the applicable portions of the NSPS General Provisions as specified in 40 CFR 60 Subpart A (Appendix 9). The permittee is subject to and shall comply with the applicable portions of the MACT General Provisions as specified in 40 CFR 63 Subpart A and/or the referencing Subparts (Appendix 10).

**G15. VOC and NO<sub>x</sub> Emission Statement** – Not applicable.

**G16. Source Testing Requirements** – See applicable requirements outlined in Appendixes 8, 9, and 10.

**G17. Periodic Reporting:** On and after the startup date of this emission source, the permittee shall submit reports of any monitoring or recordkeeping required by this permit with the semiannual reports required by Condition E2-1(a) of Title V Operating Permit 576162. All instances of deviations from these permit requirements must be clearly identified in the reports. The reports must be certified by a responsible official consistent with TAPCR 1200-03-09-.02(11)(d)4.

TAPCR 1200-03-09-.03(8) and 1200-03-10-.02(1)(a)

#### **Section IV – State-Only Requirements**

**F1-1. Emissions Inventory Requirements (State-Only):** The permittee shall submit emissions inventories in accordance with TAPCR 1200-03-10-.05.

## **Section V - Source Specific Permit Conditions**

### **Glycol Plants (82-0003-245)**

#### **Emission Source Specific Operating Permit Conditions\***

#### **Conditions E3-1 through E3-16 Apply to Source**

1. EASTMAN SOURCE NUMBER		2. EMISSION SOURCE DESCRIPTION		3. EMISSION SOURCE REFERENCE NUMBER		4. MSOP NUMBER	5. PERMIT NUMBER
B-221-3		Glycol Plants		82-0003-245		MSOP-24	979280
6. ID	7. PORTION OF SOURCE SUBJECT TO REQUIREMENT	8. POLLUTANT	9. UNDERLYING APPLICABLE REQUIREMENT(S)	10. LIMITATION OR STANDARD	11. REFERENCE TEST METHOD	12. PERIODIC MONITORING METHOD(S)	
<b>FEDERALLY AND STATE ENFORCEABLE CONDITIONS</b>							
E3-1 – Reserved – See Condition G12 for visible emission limits.							
E3-2	Flow Diagram Point ZZ1 (Equipment Leaks)	VOC	TAPCR 1200-03-07-.07(2)	Quarterly Leak Inspection and Repair (fugitive emissions from pumps, valves, flanges, etc. are estimated at 11.23 tons/year VOC).	See Item 10	See Item 10	
E3-3	Flow Diagram Point ZZ2 (Equipment Leaks)	VOC	TAPCR 1200-03-07-.07(2)	Annual Leak Inspection and Repair (fugitive emissions from pumps, valves, flanges, etc. are estimated at 3.83 tons/year VOC).	See Item 10	See Item 10	
E3-4	Flow Diagram Point ZZ3 (Equipment Leaks)	VOC	TAPCR 1200-03-07-.07(2)	Quarterly Leak Inspection and Repair (fugitive emissions from pumps, valves, flanges, etc. are estimated at 6.02 tons/year VOC).	See Item 10	See Item 10	

Glycol Plants (82-0003-245)							
Emission Source Specific Operating Permit Conditions*							
Conditions E3-1 through E3-16 Apply to Source							
1. EASTMAN SOURCE NUMBER		2. EMISSION SOURCE DESCRIPTION		3. EMISSION SOURCE REFERENCE NUMBER		4. MSOP NUMBER	5. PERMIT NUMBER
B-221-3		Glycol Plants		82-0003-245		MSOP-24	979280
6. ID	7. PORTION OF SOURCE SUBJECT TO REQUIREMENT	8. POLLUTANT	9. UNDERLYING APPLICABLE REQUIREMENT(S)	10. LIMITATION OR STANDARD	11. REFERENCE TEST METHOD	12. PERIODIC MONITORING METHOD(S)	
FEDERALLY AND STATE ENFORCEABLE CONDITIONS							
E3-5	Entire Source, excluding fugitive equipment leaks from pumps, valves, flanges, etc.	VOC	TAPCR 1200-03-07-.07(2)	55.27 tons/year	Engineering Assessment	Vents E, F J, and J1 –  1. Recordkeeping: Maintain log of process production rate. See the Operating Plan in Title V Application dated August 13, 2021, PES B-221-3, page 39. Compliance shall be based on a 24-hour block average.  2. Monitoring, recordkeeping, and reporting required by 40 CFR 63 Subpart FFFF (see Condition G14) will ensure proper operation of the scrubbers associated with these vents.  Vent E – Recordkeeping: 12-month rolling total operating hours. See the Operating Plan in the Title V Application dated August 13, 2021, PES B-221-3, page 40.  Vents A1, B, B1, C, D, D1, E1, F1, F2, G, H1, J2, X - Certification	
E3-6	Vents E, F, and J	VOC	TAPCR 1200-03-07-.07(2)	30.12 lb/hr	EPA Method 18	Monitoring, recordkeeping, and reporting required by 40 CFR 63 Subpart FFFF (see Condition G14) will ensure proper operation of the scrubbers associated with these vents.	
E3-7	Vent J1	VOC	TAPCR 1200-03-07-.07(2)	95% control efficiency at design rating	Engineering Assessment	Monitoring, recordkeeping, and reporting required by 40 CFR 63 Subpart FFFF (see Condition G14) will ensure proper operation of the scrubber associated with this vent.	
E3-8	Entire Source	CO	TAPCR 1200-03-07-.07(2)	0.24 tons/year	EPA Methods 10, 10A, or 10B	Certification	
E3-9	See State Only Enforceable Condition Below						
E3-10, E3-11, E3-12, E3-14, E3-15, E3-16 – Reserved - See Condition G14 for NSPS and MACT requirements.							
E3-13	Vents J and J1	VOC	40 CFR 64 – Compliance Assurance Monitoring  §64.2(b)(1)(i) – Exempt emission limitations or standards proposed by the Administrator after November 15, 1990 – Vent subject to MACT Group 1 control device requirements.				



<b>Glycol Plants (82-0003-245)</b> <b>Emission Source Specific Operating Permit Conditions*</b> <b>Conditions E3-1 through E3-16 Apply to Source</b>						
1. EASTMAN SOURCE NUMBER		2. EMISSION SOURCE DESCRIPTION		3. EMISSION SOURCE REFERENCE NUMBER		5. PERMIT NUMBER
B-221-3		Glycol Plants		82-0003-245		576162
6. ID	7. PORTION OF SOURCE SUBJECT TO REQUIREMENT	8. POLLUTANT	9. UNDERLYING APPLICABLE REQUIREMENT(S)	10. LIMITATION OR STANDARD	11. REFERENCE TEST METHOD	12. PERIODIC MONITORING METHOD(S)
STATE-ONLY ENFORCEABLE CONDITIONS						
E3-9	Entire Source	Other-Methane	TAPCR 1200-03-07-.07(2)	53.78 tons/year	Not applicable, because the term or condition does not implement relevant requirements of the Federal Act and therefore is not an applicable requirement under the Federal Act.	

(end of conditions)

The permit application gives the location of this source as 36.522° Latitude and 82.543° Longitude.

## Table Notes (February 26, 2021 Revision)

<b>Item 1</b>	<b>EASTMAN SOURCE NUMBER</b> Permittee's designation for the emission source.
<b>Item 2</b>	<b>EMISSION SOURCE DESCRIPTION</b> Permittee's description of the emission source.
<b>Item 3</b>	<b>EMISSION SOURCE REFERENCE NUMBER</b> TDEC-APC assigned number for the emission source.
<b>Item 4</b>	<b>MSOP NUMBER</b> Permittee's designation for major source operating permit
<b>Item 5</b>	<b>PERMIT NUMBER</b> TDAPC assigned major source operating permit number
<b>Item 6</b>	<b>ID</b> Emission limitation or standard identification
<b>Item 7</b>	<b>PORTION OF SOURCE SUBJECT TO REQUIREMENT</b> Identifies emission units to which the permit term or condition applies.
<b>Item 8</b>	<b>POLLUTANT</b> Identifies the air contaminant, regulated air pollutant, or other parameter to which the emission limitation or standard applies. Where the term "other organics" is used it means any compound of carbon, excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates and ammonium carbonate.
<b>Item 9</b>	<b>UNDERLYING APPLICABLE REQUIREMENTS</b> Specifies and references the origin of and authority for each term or condition. States the compliance dates for effective applicable requirements with future compliance dates.

### Glossary

Descriptions of regulatory citations that appear in Item 9 are given below:

NSPS	Standards of Performance for New Stationary Sources (40 CFR Part 60)
40 CFR 60 Subpart A	General Provisions
40 CFR 60 Subpart D	Standards of Performance for Fossil-Fuel Fired Steam Generators for Which Construction is Commenced After August 17, 1971
40 CFR 60 Subpart Da	Standards of Performance for Electric Utility Steam Generating Units for Which Construction Is Commenced After September 18, 1978
40 CFR 60 Subpart Db	Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units
40 CFR 60 Subpart Dc	Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units
40 CFR 60 Subpart Kb	Standards of Performance for Volatile Organic Liquid Storage Vessels (including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984
40 CFR 60 Subpart Y	Standards of Performance for Coal Preparation Plants
40 CFR 60 Subpart VV	Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry
40 CFR 60 Subpart VVa	Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006

40 CFR 60 Subpart DDD	Standards of Performance for Volatile Organic Compound (VOC) Emissions from the Polymer Manufacturing industry
40 CFR 60 Subpart III	Standards of Performance for Volatile Organic Compound (VOC) Emissions from the Synthetic Organic Chemical Manufacturing Industry (SOCMI) Air Oxidation Unit Processes
40 CFR 60 Subpart NNN	Standards of Performance for Volatile Organic Compound (VOC) Emissions from Synthetic Organic Chemical Manufacturing Industry (SOCMI) Distillation Operations
40 CFR 60 Subpart RRR	Standards of Performance for Volatile Organic Compound (VOC) Emissions from Synthetic Organic Chemical Manufacturing Industry (SOCMI) Reactor Processes
40 CFR 60 Subpart YYY	Standards of Performance for Volatile Organic Compound (VOC) Emissions from Synthetic Organic Chemical Manufacturing Industry (SOCMI) Wastewater
40 CFR 60 Subpart IIII	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
40 CFR 60 Subpart JJJJ	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
40 CFR 61 Subpart E	National Emission Standard for Mercury
40 CFR Part 63	National Emission Standards for Hazardous Air Pollutants for Source Categories
40 CFR 63 Subpart A	General Provisions
40 CFR 63 Subpart F	National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry
40 CFR 63 Subpart G	National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater
40 CFR 63 Subpart H	National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks
40 CFR 63 Subpart DD	National Emission Standards for Hazardous Air Pollutants from Off-Site Waste and Recovery Operations
40 CFR 63 Subpart JJ	National Emission Standards for Wood Furniture Manufacturing Operations
40 CFR 63 Subpart JJJ	National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins
40 CFR 63 Subpart FFFF	National Emission Standards for Hazardous Air Pollutants Miscellaneous Organic Chemical Manufacturing
40 CFR 63 Subpart GGGG	National Emission Standards for Hazardous Air Pollutants: Site Remediation
40 CFR 63 Subpart ZZZZ	National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
40 CFR 63 Subpart DDDDD	National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters
40 CFR Part 68	Chemical Accident Prevention Provisions.

#### Item 10 LIMITATION OR STANDARD

Gives the regulatory citation or expression of the emission limitation or standard. This expression identifies any difference in form as compared to the applicable requirement upon which the term or condition is based. The following general requirements apply to each allowable emission rate established in Item 10:

- (a) For non-process or process gaseous emissions subject to TAPCR 1200-03-06-.03(2) or 1200-03-07-.07(2), compliance with hourly emission limits shall be based on a 24-hour block average, unless a performance test is required to demonstrate compliance or a different averaging period is specified in the permit condition, application, or other applicable requirement.
- (b) For particulate matter and sulfur dioxide limits established by mutual agreement pursuant to TAPCR 1200-03-06-.01(7), 1200-03-07-.01(5), 1200-03-14-.01(3), compliance with hourly emission limits shall be based on a 24-hour block average, unless a performance test is required to demonstrate compliance or a different averaging period is specified in the permit condition, application, or agreement. Notwithstanding any mutual agreement, particulate matter and sulfur dioxide emission rates may not exceed the allowable emission rates established by TAPCR 1200-03-06, 1200-03-07, and 1200-03-14.

- (c) If a performance test is required to demonstrate compliance with a limitation or standard, compliance will be based on the averaging period specified in the underlying applicable requirement. If no averaging period is specified in the underlying applicable requirement, compliance will be based on the average of three one-hour test runs unless otherwise approved by the Technical Secretary.
- (d) Compliance with annual emission limits shall be based on a 12-month rolling total, unless a different period is specified in the permit condition, application, or other applicable requirement.

Emission work practice standards notated as “Quarterly Leak Inspection and Repair” or “Annual Leak Inspection and Repair” are detailed below:

**Quarterly and Annual Leak Inspection (TAPCR 1200-03-07-.07(2))**

- (a)
  - (1) **Quarterly Leak Inspection:** A leak inspection of all equipment in air contaminant service (contains or contacts a process fluid that is at least 10% air contaminant by weight) that is not “in heavy liquid service” or “in vacuum service” shall be performed once per calendar quarter. For this inspection, detection methods incorporating sight (e.g. looking for drips), sound (e.g. hissing sounds indicative of a leak), or smell (e.g. strong odors traceable to piping leaks) shall be used as appropriate. “Equipment” includes piping, pumps, compressors, pressure relief devices, sampling connection systems, open-ended valves or lines, valves, and equipment closures including manways, body flanges, and blind flanges. “In heavy liquid service” means when less than 20 weight percent of the process fluid consists of air contaminants having pure component vapor pressures greater than 0.044 psia at 68 degrees F, and the process fluid is not in the gaseous state at operating conditions. “In vacuum service” means equipment that is operating at an internal pressure that is at least 0.7 psia below ambient pressure. Equipment that is covered by insulation or obstructed from sight when standing on existing floors or walkways is exempt from this inspection. Equipment that is subject to a federally required work practice standard (e.g., 40 CFR Part 60, Subpart VV, 40 CFR Part 63, Subpart H, 40 CFR Part 265, Subpart BB) is exempt from this inspection. Equipment that is in air contaminant service less than 300 hours in a calendar quarter is exempt from this inspection for that quarter.
  - (2) **Annual Leak Inspection:** A leak inspection of all equipment in air contaminant service (contains or contacts a process fluid that is at least 10% air contaminant by weight) that is not “in heavy liquid service” or “in vacuum service” shall be performed once per calendar year. For this inspection, detection methods incorporating sight (e.g. looking for drips), sound (e.g. hissing sounds indicative of a leak), or smell (e.g. strong odors traceable to piping leaks) shall be used as appropriate. “Equipment” includes piping, pumps, compressors, pressure relief devices, sampling connection systems, open-ended valves or lines, valves, and equipment closures including manways, body flanges, and blind flanges. “In heavy liquid service” means when less than 20 weight percent of the process fluid consists of air contaminants having pure component vapor pressures greater than 0.044 psia at 68 degrees F, and the process fluid is not in the gaseous state at operating conditions. “In vacuum service” means equipment that is operating at an internal pressure which is at least 0.7 psia below ambient pressure. Equipment that is covered by insulation or obstructed from sight when standing on existing floors or walkways is exempt from this inspection. Equipment that is subject to a federally required work practice standard (e.g. 40 CFR Part 60, Subpart VV, 40 CFR Part 63, Subpart H, 40 CFR Part 265, Subpart BB) is exempt from this inspection. Equipment that is in air contaminant service less than 720 hours in a calendar year is exempt from this inspection for that year.
- (b) When a leak is detected, an initial attempt at repair shall be made no later than 10 calendar days after the leak is detected. Repair or replacement of leaking equipment shall be completed within 30 calendar days after detection of each leak, except as provided in paragraph (c) below.
- (c)
  - (1) Delay of repair of leaking equipment will be allowed if the repair is technically infeasible without a process unit shutdown or if repair personnel would be exposed to an immediate danger if attempting a repair without a process shutdown. Repair of this equipment shall occur by the end of the next process unit shutdown.
  - (2) Delay of repair of equipment for which leaks have been detected is allowed for equipment that is isolated from the process and that does not remain in air contaminant service.

- (3) Delay of repair for valves, connectors, and agitators is also allowed if the owner or operator determines that emissions of purged material resulting from immediate repair would be greater than the fugitive emissions likely to result from delay of repair.
  - (4) Delay of repair beyond a process unit shutdown will be allowed for a valve if valve assembly replacement is necessary during the process unit shutdown, valve assembly supplies have been depleted, and valve assembly supplies had been sufficiently stocked before the supplies were depleted. Delay of repair beyond the second process unit shutdown will not be allowed unless the third process unit shutdown occurs sooner than six months after the first process unit shutdown.
  - (5) Delay of repair of pumps for up to six months after leak detection is allowed if the pump is replaced with (i) a dual mechanical seal system, (ii) a pump with no externally actuated shaft penetrating the pump housing, or (iii) a new system that the permittee has determined will provide better performance.
- (d) Recordkeeping Requirements
- (1) Records must be maintained that identify piping systems or process areas subject to this plan.
  - (2) Records of all inspections must be kept documenting the inspection was conducted and the date of the inspection. If no leaks are detected during the inspection, the record must indicate this result.
  - (3) When a leak is detected, the following information shall be recorded:
    - (i) Component identifier or description of location and operator name, initials, or identification number.
    - (ii) The date the leak was detected.
    - (iii) The date the initial attempt at repair is made.
    - (iv) The date of successful repair of the leak. "Successful repair" means the leak is no longer detected using the inspection procedure outlined in item 10(a).
    - (v) "Repair delayed" and the reason for the delay if a leak is not repaired within 30 days after discovery of the leak.

#### **Item 11 REFERENCE TEST METHODS (TAPCR 1200-03-10-.01(2))**

- (a) Those emissions measuring test method(s) or procedure(s) by which demonstration of compliance with the emission limitation or standard would be determined as prescribed by the applicable requirement or if requested by the Technical Secretary pursuant to 1200-03-10-.01(2). Citations for performance test methods that may appear in item 11 are shown below:

<b><u>Pollutant or Parameter</u></b>	<b><u>Testing Methodology</u></b>
Gas Volumetric Flow Rate	EPA Methods 2, 2A, 2C, and 2D as published in the current 40 CFR 60, Appendix A
Dry Molecular Weight	EPA Method 3 as published in the current 40 CFR 60, Appendix A
Oxygen and Carbon Dioxide	EPA Method 3A as published in the current 40 CFR 60, Appendix A
Moisture Content	EPA Method 4 as published in the current 40 CFR 60, Appendix A
Particulate Matter	EPA Method 5 as published in the current 40 CFR 60, Appendix A
Sulfur Dioxide	EPA Method 6, 6A, 6B, or 6C as published in the current 40 CFR 60, Appendix A
Nitrogen Oxides	EPA Method 7, 7A, 7B, 7C, 7D, or 7E as published in the current 40 CFR 60, Appendix A
Sulfuric Acid Mist and Sulfur Dioxide	EPA Method 8 as published in the current 40 CFR 60, Appendix A
Carbon Monoxide	EPA Methods 10, 10A, or 10B as published in the current 40 CFR 60, Appendix A

<b><u>Pollutant or Parameter</u></b>	<b><u>Testing Methodology</u></b>
Total Fluoride Emissions	EPA Method 13A or 13B as published in the current 40 CFR 60, Appendix A
Gaseous Organic Compounds	EPA Method 18 as published in the current 40 CFR 60, Appendix A
Volatile Organic Compounds Leaks	EPA Method 21 as published in the current 40 CFR 60, Appendix A
Total Gaseous Nonmethane Organics	EPA Method 25 as published in the current 40 CFR 60, Appendix A
Total Gaseous Organics	EPA Method 25A as published in the current 40 CFR 60, Appendix A
Hydrogen Chloride & Chlorine	EPA Method 26 or 26A as published in the current 40 CFR 60, Appendix A
Visible Emissions (six-minute average)	EPA Method 9 as published in the current 40 CFR 60, Appendix A
Visible Emissions (Fugitives from Material Sources and Smoke from Flares)	EPA Method 22 as published in the current 40 CFR 60, Appendix A
Visible Emissions (aggregate count)	Tennessee Visible Emission Evaluation Method 2 as adopted by the Tennessee Air Pollution Control Board on August 24, 1984.
Visible Emissions (Roads and Parking Areas)	Tennessee Visible Emission Evaluation Method 1 as adopted by the Tennessee Air Pollution Control Board on April 29, 1982, as amended on September 15, 1982 and as amended on August 24, 1984.
Fugitive Dust Emissions Crossing a Property Line	Tennessee Visible Emission Evaluation Method 4 as adopted by the Tennessee Air Pollution Control Board on April 16, 1986.
Sulfur Content of Fuels	EPA Method 19 as published in the current 40 CFR 60, Appendix A

- (b) In cases where the underlying applicable requirement does not specify performance testing requirements, the following shall apply:
- (1) Performance tests shall be conducted and data reduced in accordance with the test methods and procedures listed in Item 11 unless the Technical Secretary (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, (3) approves the use of an alternative method that is determined to be adequate for indicating whether a specific source is in compliance or (4) approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors.
  - (2) Performance tests shall be conducted under such conditions as the Technical Secretary shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Technical Secretary such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test.
  - (3) The owner or operator of an affected facility shall provide the Technical Secretary at least 30 days prior notice of any performance test to afford the Technical Secretary the opportunity to have an observer present. The Technical Secretary may waive the right to such prior notice.
- (c) The owner or operator of an affected facility shall provide, or cause to be provided, performance testing facilities as follows:
- (1) Sampling ports adequate for test methods applicable to such facility. This includes (i) constructing the air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and procedures and (ii) providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures.
  - (2) Safe sampling platform(s).
  - (3) Safe access to sampling platform(s).
  - (4) Utilities for sampling and testing equipment.

- (d) Unless otherwise specified in the applicable requirement, each performance test shall consist of three separate runs using the applicable test method. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond the owner or operator's control, compliance may, upon the Technical Secretary's approval, be determined using the arithmetic mean of the results of the two other runs.
- (e) Where performance testing is technically infeasible or otherwise not specified by the permit, an engineering assessment, consisting of material or energy balances, emission factors, vapor-liquid equilibria, or other appropriate calculations, may be used to calculate emissions from an emission source or vent.

**Item 12 PERIODIC MONITORING METHODS (TAPCR 1200-03-09-.02(11)(e)(iii)(I), TAPCR 1200-03-10-.02(1)(a))**

- (a) Includes all of the following:
  - (1) All emissions monitoring and analysis procedures or test methods required under the applicable requirements, including any procedures and methods promulgated pursuant to sections 114(a)(3) or 504(b) of the Federal Act.
  - (2) Those monitoring, recordkeeping, and reporting requirements prescribed by the Technical Secretary in accordance with the powers granted at chapter 1200-03-10.
  - (3) Where the applicable requirement does not require periodic testing or instrumental or noninstrumental monitoring (which may consist of recordkeeping designed to serve as monitoring), periodic monitoring sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the permit. These requirements assure use of such terms, test methods, units, averaging periods, and other statistical conventions consistent with the applicable requirements.
  - (4) Requirements concerning the use, maintenance, and installation of monitoring equipment or methods.
- (b) **Operating Plans:** Operating Plans referred to in this column are found in the permit application with page references given in this column. These Operating Plans are incorporated by reference into this permit as fully enforceable conditions of the permit. Changes to an Operating Plan shall follow the applicable procedures in 1200-03-09. A permit shield does not attach to these changes unless the proposed change is processed through significant modification procedures.
- (c) **Applicability:** No monitoring or recordkeeping is required during periods during which the source is not in operation.
- (d) **Generic Periodic Monitoring Methods:** Additional requirements for periodic monitoring methods notated in item 12 by generic headings are shown below:
  - (1) **Certification:** Any emission unit or activity which is a subset of a process emission source, fuel burning installation, or incinerator, and which has a potential to emit less than five tons per year of a regulated air pollutant, by annual certification of compliance as required in item 1200-03-09-.02(11)(d)1.(ii)(I), shall be considered to meet the monitoring and related recordkeeping and reporting requirements of subpart 1200-03-09-.02(11)(e)1.(iii) and 1200-03-10-.04(2)(b)(1), and the compliance requirements of subpart 1200-03-09-.02(11)(e)3.(i) for that regulated air pollutant except where generally applicable requirements of the state implementation plan specifically impose monitoring and related record keeping and reporting requirements, or except where any applicable procedures and methods are required pursuant to rule 1200-03-10-.04. This provision shall not apply to emissions unit or activity that is subject to monitoring and related record keeping and reporting requirements under Chapters 1200-03-11 and 1200-03-31, and subparagraph 1200-03-02-.01(1)(dd).

For emission units or activities using annual certification of compliance to meet the monitoring, recordkeeping, and reporting requirements of TAPCR 1200-03-09-.02(11), potential emission calculations and other required documentation, including performance test results, material or energy balances, emission factors, vapor-liquid equilibria, or other appropriate calculations, are included with the application(s) of record and are incorporated by reference into this permit as the basis for certification.

- (2) **Parametric Monitoring**: (only applies to applicable requirements which do not specify monitoring requirements and the permit must specify periodic monitoring or testing pursuant to 1200-03-09-.02(11)(e)1.(iii)(I)II.)
- (i) The permittee must implement a system to monitor the control system parameters or process operating parameters shown in item 12 utilizing the averaging times shown.
  - (ii) The permittee must develop and obtain the approval of the Technical Secretary of an operating plan that includes a description of the parameter(s) to be monitored; an explanation for the selection of the parameter; description and location (if applicable) of monitoring equipment; the range (and the rationale for establishing the range) for each monitored parameter that indicates proper operation and maintenance of the control technology or pollution prevention measure; monitoring frequency; and any necessary data collection/compression procedures.
  - (iii) An excursion means a departure from an indicator range established for monitoring by this permit, consistent with any averaging period specified for averaging the results of the monitoring.
  - (iv) Operation of each air contaminant source shall be in accordance with the provisions and stipulations set forth in the operating permit, all provisions of TAPCR 1200-03 and 0400-30, and all provisions of the Tennessee Air Quality Act. Some excursions, as defined under TAPCR 1200-03-09-.02(11)(b)31 or in the operating permit and which occur during periodic monitoring for compliance assurance, may be excused by the Technical Secretary. This authority is not extended to excursions that demonstrate noncompliance with an applicable emission limitation.
  - (v) For continuous monitoring systems, the following shall apply;
    - (I) The monitoring system shall measure data values at least once every 15 minutes.
    - (II) The owner or operator shall record either:
      - (A) Each measured value; or
      - (B) At least one measured value every 15 minutes; or
      - (C) Block average values for 15-minute or shorter periods calculated from all measured data values during each period or at least one measured data value per minute if measured more frequently than once per minute.
    - (III) Except as noted in Item 12(d)(2)(vi) (data requirements for valid one-hour averages), for a given averaging period, a valid average must include at least 75% percent of the measured values within the averaging period.
  - (vi) Where the permit requires 24-hour block averages of each continuously monitored parameter, the 24-hour block average shall be calculated from midnight of each day to midnight of the following day, unless a different averaging period is specified in the approved operating plan. The 24-hour block average shall be calculated as either the average of all values for a monitored parameter recorded under (d)(2)(vi)(ii) above during the 24-hour period or as the average of all valid one-hour averages for a monitored parameter recorded during the 24-hour period. If one-hour averages are used, they shall be calculated from four or more equally spaced data averages over each one-hour period, except during periods of monitoring system breakdown, monitoring system repairs, and periods of non-operation of the source. During these periods, a valid one-hour average shall consist of at least two 15-minute averages.
  - (vii) Data recorded during periods of monitoring system breakdown, monitoring system repairs, and periods of non-operation of the source shall not be included in the data averages. Records of the times and durations of all such periods and any other periods during process or control device operation when monitors are not operating shall be retained at the source location and kept available for inspection by the Technical Secretary or authorized representative.



- (viii) It shall also be acceptable to demonstrate that the monitored parameter is within the range stated in the operating plan for an applicable averaging period by retaining records of all valid measured values obtained during the averaging period where each valid measured value is within the range. For example, when a 24-hour block average is required, compliance may be assured by showing that all valid measurements taken at 15-minute intervals during a 24-hour period are within the applicable range as stated in the operating plan for the parameter. In these cases, it is not mandatory that an average be calculated
- (ix) Pursuant to TAPCR 1200-03-10-.04(2)(a)2, monitoring methods must have at least a 95% operational availability during each semiannual reporting period. Missing data in excess of these levels shall be grounds for enforcement action. Each operational availability of less than 100%, and each missing or invalid averaging period, must be identified in the semiannual report required by **Condition G17** of this permit.
- (3) **Tank Monitoring:** The permittee must develop and obtain the approval of the Technical Secretary of an Operating Plan for demonstrating compliance with annual emission limits for a group of storage/process vessels. Table Notes from "Parametric Monitoring" above also apply to Operating Plans that employ continuous parametric monitoring systems (CPMS) for tanks. Tanks that have potential VOC emissions less than five tons per year qualify for meeting the monitoring and related recordkeeping and reporting requirements of subpart 1200-03-09-.02(11)(e)1.(iii) and the compliance requirements of subpart 1200-03-09-.02(11)(e)3.(i) by certification of compliance pursuant to part 1200-03-09-.04(5)(c).

(e) **General Requirements for Quarterly, Semiannual, and Annual Periodic Monitoring**

Except as specifically indicated otherwise within this permit (or by an applicable requirement referenced within this permit), the following requirements shall apply to periodic monitoring, recordkeeping, or testing.

- (1) Quarterly monitoring shall be completed at least once during each calendar quarter (January 1 through March 31 of each calendar year, April 1 through June 30 of each calendar year, July 1 through September 30 of each calendar year, and October 1 through December 31 of each calendar year).
- (2) Semiannual monitoring shall be completed at least once during each semiannual period corresponding to the semiannual reporting periods specified in Condition E2-1(a) of permit 576162.
- (3) Annual monitoring shall be completed at least once per each 12-month period corresponding to the annual reporting period specified in Condition E2-1(b) of permit 576162.
- (4) Periodic monitoring may be delayed for equipment that is out of service for an extended period, as follows:
  - (i) For quarterly periodic monitoring, if equipment is out of service for at least 45 consecutive days during the calendar quarter, periodic monitoring must be completed within 90 operating days of the previous monitoring event.
  - (ii) For semiannual periodic monitoring, if equipment is out of service for at least 90 consecutive days during the calendar semiannual period, periodic monitoring must be completed within 180 operating days of the previous monitoring event.
  - (iii) For annual periodic monitoring, if equipment is out of service for at least 180 consecutive days during the calendar year, periodic monitoring must be completed within 365 operating days of the previous monitoring event.

(f) **Recordkeeping: Data Entry Requirements**

- (1) For daily recordkeeping, all data, including results of all calculations, must be entered into the log no later than 14 days from the end of the day for which the data is required.
- (2) For weekly recordkeeping, all data, including results of all calculations, must be entered into the log no later than 14 days from the end of the week for which the data is required.

- (3) For all other recordkeeping, all data, including results of all calculations, must be entered into the log no later than 30 days from the date for which the data is required.

**END OF PERMIT NUMBER 979280**

## Appendix 1: Notification of Change in Responsible Person

**Facility (Permittee)** Eastman Chemical Company – Tennessee Operations

**Facility ID** 82-0003-MSOP-24

**Former Responsible Person**

<u></u>	<u></u>
Name	Title

**New Responsible Person**

<u></u>	<u></u>
Name	Title
<u></u>	
Email	

**Date New Responsible Person was assigned this duty:**

As the Responsible Person of the above mentioned facility (permittee), I certify that the information contained in this Notification is accurate and true to the best of my knowledge. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

<u>Signature</u>		<u>Date</u>
<u>Signer's name (print)</u>	<u>Title</u>	<u>Phone (with area code)</u>

## Appendix 2: Notification of Changes

**Facility (Permittee)** Eastman Chemical Company – Tennessee Operations

**Facility ID** 82-0003-MSOP-24

**Source No.** \_\_\_\_\_

	Control Equipment	Stack Height (Feet)	Stack Diameter (Feet)	Exit Velocity (Feet/Second)	Exit Temperature (°F)
Current					
Proposed					
Current					
Proposed					
Current					
Proposed					

Comments:

As the Responsible Person of the above mentioned facility (permittee), I certify that the information contained in this Notification is accurate and true to the best of my knowledge. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Signature		Date
Signer's name (print)	Title	Phone (with area code)

### Appendix 3: Notification of Ownership Change

**Facility (Permittee)** Eastman Chemical Company – Tennessee Operations (Previous Owner)

**Facility ID** 82-0003-MSOP-24

**Facility (Permittee)** \_\_\_\_\_ (New Owner)

**Email Address** \_\_\_\_\_

**Secretary of State Control Number** \_\_\_\_\_ [as registered with the TN Secretary of State]

**Date of Ownership Change** \_\_\_\_\_

Comments:

As the responsible person for the new owner or operator of the above mentioned facility (permittee):

- I agree to not make any changes to the stationary source(s) that meet the definition of modification as defined in Division 1200-03 or Division 0400-30<sup>1</sup>, and
- I agree to comply with the conditions contained in **the permits listed below**, Division 1200-03 and Division 0400-30 of the Tennessee Air Pollution Control Regulations, the Tennessee Air Quality Act, and any documented agreements made by the previous owner to the Technical Secretary.

List all active permits issued to the facility for which the owner wishes to assume ownership:

As the Responsible Person of the above mentioned facility (permittee), I certify that the information contained in this Notification is accurate and true to the best of my knowledge. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Signature		Date
Signer's name (print)	Title	Phone (with area code)

<sup>1</sup> Appropriate application forms must be submitted prior to modification of the stationary source(s).

## Appendix 4: Startup Certification

**Facility (Permittee):** Eastman Chemical Company – Tennessee Operations

**Facility ID** 82-0003-MSOP-24

**Startup Certification for Source No.** \_\_\_\_\_

The permittee shall certify the startup date for each new or modified air contaminant source regulated by construction permit 979280 by submitting this document

**Date of startup:** \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
Month Day Year

As the Responsible Person of the above mentioned facility (permittee), I certify that the information contained in this Startup Certification is accurate and true to the best of my knowledge. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Signature		Date
Signer's name (print)	Title	Phone (with area code)

## **Appendix 5: Fees**

Not applicable

## **Appendix 6: Emission Statement for VOC and NO<sub>x</sub>**

Not applicable



## **Appendix 7: Agreement Letters**

Not applicable

## **Appendix 8: Specific Applicability Determinations for 40 CFR 60 (NSPS) and 40 CFR 63 (MACT)**

40 CFR Part 63 Subpart FFFF Specific Applicability Determinations for MSOP-24				
PES	MON MCPU(s)	Identification	Category	Rule Citation
What This Subpart Covers				
B-221-3	All MCPUs	Affected source	Purpose of this subpart	§63.2430
			Applicability	§63.2435
			Definition of affected source	§§63.2440(a) and (b)
Emission Limits, Work Practice Standards, and Compliance Requirements: General Requirements				
B-221-3	All MCPUs	MON subject points, as applicable	Sources subject to any emission limits and work practice standards in tables 1 through 7 or any requirements specified in §63.2455 through §63.2490 (or the alternative means of compliance in §63.2495, §63.2500, or §63.2505)	§63.2450(a)
Emission Limits, Work Practice Standards, and Compliance Requirements: Wastewater Streams and Liquid Streams in Open Systems				
B-221-3	All MCPUs	Affected Source	Liquid or solid organic materials discarded from an MCPU to water or wastewater, except materials from equipment leaks, activities included in maintenance or SSM plans, spills, or samples of a size necessary for the method of analysis.	§63.2485(a), (m) Table 7: Item 1
Notifications, Reports, and Records				
B-221-3	All MCPUs	MON subject points as applicable	Notifications	§63.2445(c), §63.2515
		MON subject points as applicable	Reporting	§63.2450(l), §63.2520
		MON subject points as applicable	Recordkeeping	§63.2525
Other Requirements and Information				
B-221-3	All MCPUs	MON subject points as applicable	General Provisions applicability	§63.2540, Table 12
		MON subject points as applicable	Implementation and enforcement	§63.2545
		MON subject points as applicable	Definitions	§63.2550
Compliance Dates				
B-221-3	Glycol, Tritan	Entire MCPU	Existing sources	§63.2455(b)
Emission Limits, Work Practice Standards, and Compliance Requirements: General Requirements				
B-221-3	Glycol, Tritan	Triangles 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13 (Vents E, F, and J), Group 1 Tanks associated with Vent J1	Emission stream using a control device (other than a flare) for compliance	§63.2450(e)
B-221-3	Glycol, Tritan	Triangles 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13 (Vents E, F, and J), Group 1 Tanks associated with Vent J1	Emission stream with continuous parameter monitoring	§63.2450(k), §63.2450(l)
B-221-3	Glycol, Tritan	Triangles 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13 (Vents E, F, and J), Group 1 Tanks associated with Vent J1	Emission stream using a performance test for compliance demonstrations	§63.2450(g)

<b>40 CFR Part 63 Subpart FFFF</b> <b>Specific Applicability Determinations for MSOP-24</b>				
PES	MON MCPU(s)	Identification	Category	Rule Citation
B-221-3	Glycol	WE-50 (Vent D) XF-50 (Vent E1) WH-50 (Vent F1) XG-50 (Vent F2)	XG-51 (Vent G) CG-100 (Vent J) CG-101 (Vent J1)	Surge control vessel or bottoms receiver that does not meets the capacity and vapor pressure thresholds for a Group 1 storage tank
<b>Emission Limits, Work Practice Standards, and Compliance Requirements: Process Vents</b>				
B-221-3	Glycol	Triangles 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13 (Vents E, F, and J)	Group 1 continuous process vent that reduces HAP emissions by $\geq 98\%$ or to an outlet concentration of $\leq 20$ ppmv (as HAP or TOC) by venting emissions through a closed-vent system to any combination of control devices (except a flare)	§63.2455(a), (b) Table 1: Item 1(a)(i)
B-221-3	Glycol	Triangle FG	Gaseous streams routed to a Fuel Gas System are not process vents and have no applicable requirements under 40 CFR 63 Subpart FFFF.	§63.2550
<b>Emission Limits, Work Practice Standards, and Compliance Requirements: Storage Tanks</b>				
B-221-3	Glycol	XH-50 (Vent J1), XH-51 (Vent J1), CH-100 (Vent J1), CH-101 (Vent J1),	Group 1 storage tank with a maximum true vapor pressure of total HAP at the storage temperature less than 76.6 kPa (11.1 psi) and complies with the requirements of 40 CFR 63 Subpart WW, except as specified in §63.2470	§63.2470(a), (c), (d) Table 4: Item 1(b)(i)
B-221-3	Tritan	TB-50 (Vent J1), TL-50 (Vent J1), TZ-50 (Vent J1)		
B-221-3	Glycol	SM1 (Vent X), SM2 (Vent X)	Group 2 Storage Vessels (storage, surge control, and bottoms receivers)	§63.2470(a)
<b>Emission Limits, Work Practice Standards, and Compliance Requirements: Transfer Racks</b>				
B-221-3	Glycol	UD-50 Loading Station (Vent A1)	Group 2 transfer rack	§63.2475(a)
<b>Emission Limits, Work Practice Standards, and Compliance Requirements: Equipment Leaks</b>				
B-221-3	Glycol	Applicable portions of Flow Diagram Points ZZ1, ZZ2, and ZZ3 in HAP service	Equipment that is in HAP service at an existing source and complying with the requirements of 40 CFR 63 Subpart H, except as specified in §63.2480(b) and (d)	§63.2480(a), (b), (d) Table 6: Item 1(b)
<b>Emission Limits, Work Practice Standards, and Compliance Requirements: Process Wastewater</b>				
B-221-3	Glycol	Hexagons W1, W2, W3, and W4	Group 2 wastewater stream	§63.2485(a), (b), (c), (j), Table 7: Item 1
B-221-3	Glycol	MON maintenance wastewater streams as applicable	Maintenance wastewater stream	§63.2485(a) Table 7: Item 2
<b>Emission Limits, Work Practice Standards, and Compliance Requirements: Heat Exchange Systems</b>				
B-221-3	Glycol	Applicable heat exchange systems in the Glycol MCPU	Heat exchange system, as defined in §63.101	§63.2490(a), (b), (c) Table 10

40 CFR Part 60 Specific Applicability Determinations for MSOP-24			
PES	Identification	Category	Rule Citation
<b>Subpart VVa – Equipment Leaks</b>			
B-221-3	Glycol Methanol Production Process Unit – Applicable portions of Flow Diagram Point ZZ1, ZZ2, and ZZ3 in VOC service	<b><u>Sources Complying with Subpart H</u></b>  Each affected facility that commences construction, reconstruction, or modification after November 7, 2006, and complies with 40 CFR 63 Subpart H to comply.	<b>Applicability:</b> §60.480a(a), (b), (e)(2), and (f) <b>Standards:</b> N/A <b>Test Methods and Procedures:</b> §60.485a(d), (e), (f) <b>Recordkeeping Requirements:</b> §60.486a(i) and (j) <b>Reporting Requirements:</b> N/A
<b>Subpart NNN – Distillation</b>			
B-221-3	DC-29 Degasser (Triangle 1) DC-30 Degasser (Triangle 13)	<b><u>TRE between 1.0 and 8.0; No Recovery Device</u></b>  Each affected facility that is part of a process unit that produces any of the chemicals listed in §60.667 as a product, co-product, by-product, or intermediate, for which construction, modification, or reconstruction commenced after December 30, 1983, has a TRE index value greater than 1.0 but less than or equal to 8.0.	<b>Applicability:</b> §60.660(a) and (b) <b>Standards:</b> §60.662(c) <b>Monitoring of Emissions &amp; Operations:</b> N/A <b>Test Methods &amp; Procedures:</b> §60.664(a), (e), (f), (g) <b>Reporting &amp; Recordkeeping:</b> §60.665(a), (h), (k), (l), (p)
<b>Subpart RRR – Reactors</b>			
B-221-3	WE-23 Condenser (Triangle 7) <sup>2</sup> Affected Facility	<b><u>TRE between 1.0 and 8.0; Condenser</u></b>  Each affected facility that is part of a process unit that produces any of the chemicals listed in §60.707 as a product, co-product, by-product, or intermediate, for which construction, modification, or reconstruction commenced after June 29, 1990, has a TRE index value greater than 1.0 but less than or equal to 8.0, and uses a condenser to comply with §60.702(c).	<b>Applicability:</b> §60.700(a), (b) <b>Standards:</b> §60.702(c) <b>Monitoring of Emissions &amp; Operations:</b> §60.703(d)(2)(i) <b>Test Methods &amp; Procedures:</b> §60.704(a), (e), (f)  Pursuant to §60.8(a) and §60.704, conduct an initial performance test within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility.  <b>Reporting &amp; Recordkeeping:</b> §60.705(a), (b)(4)(ii), (b)(4)(v), (f)(2), (g), (k), (l)

<sup>2</sup> Includes the WE-23 Condenser and all reactors routed to the condenser.

## Appendix 9: General Provisions for 40 CFR Part 60, Subparts VVa, NNN, and RRR

You are required to comply with the following General Provisions of the federal Standards of Performance for New Stationary Sources (NSPS):

**40 CFR 60 Subpart VVa:** Pursuant to §60.480a(e)(2)(ii), owners or operators who choose to comply with 40 CFR 63 Subpart H must also comply with §§60.1, 60.2, 60.5, 60.6, 60.7(a)(1) and (4), 60.14, 60.15, and 60.16 for that equipment. All sections and paragraphs of 40 CFR 60 Subpart A that are not mentioned in §60.480a(e)(2)(ii) do not apply to owners or operators of equipment subject to Subpart VVa when complying with 40 CFR 63 Subpart H, except that provisions required to be met prior to implementing 40 CFR 63 still apply. Owners and operators who choose to comply with 40 CFR 63 Subpart H must comply with 40 CFR 63 Subpart A (see Appendix 10).

40 CFR 60 Subpart NNN: General Provisions Applicability			
General provisions citation 40 CFR	Subject of citation	Applies to subpart	Explanation
§60.1	General applicability of the General Provisions	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§60.2	Definitions	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§60.3	Units and abbreviations	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§60.4	Address	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§60.5	Determination of construction or modification	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
§60.6	Review of plans	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§60.7	Notification and Recordkeeping	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<p>§§60.7(a)(1), (3), (4) (general notification requirements), §60.7(f) (general recordkeeping requirements for all measurements); and §60.7(h) (requirements of individual subparts) apply to the affected facility.</p> <p>§§60.7(a)(5) – (7) (notification requirements related to CMS); §60.7(b) (startup, shutdown, and malfunction recordkeeping); and §§60.7(c), (d), and (e) (recordkeeping for excess emissions and CMS performance summary) do not apply (the affected facility maintains a TRE index value greater than 1 with no control or recovery device).</p> <p>§§60.7(a)(6) and (7) (notification requirements related to opacity monitoring) and §60.7(g) (state/local agency notification) do not apply.</p>
§60.8	Performance tests	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

<b>40 CFR 60 Subpart NNN: General Provisions Applicability</b>			
<b>General provisions citation 40 CFR</b>	<b>Subject of citation</b>	<b>Applies to subpart</b>	<b>Explanation</b>
§60.9	Availability of information	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§60.10	State Authority	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§60.11	Compliance with standards and maintenance requirements	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Requirements related to opacity monitoring do not apply.
§60.12	Circumvention	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§60.13	Monitoring requirements	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	The affected facility maintains a TRE index value greater than 1 with no control or recovery device
§60.14	Modification	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
§60.15	Reconstruction	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
§60.16	Priority list	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
§60.17	Incorporations by reference	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§60.18	General control device requirements	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	The affected facility does not use a flare, and alternative equipment leak monitoring does not apply to this subpart.
§60.19	General notification and reporting requirements	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

<b>40 CFR 60 Subpart RRR: General Provisions Applicability</b>			
<b>General provisions citation 40 CFR</b>	<b>Subject of citation</b>	<b>Applies to subpart</b>	<b>Explanation</b>
§60.1	General applicability of the General Provisions	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	§60.1(d) does not apply.
§60.2	Definitions	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§60.3	Units and abbreviations	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§60.4	Address	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§60.5	Determination of construction or modification	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
§60.6	Review of plans	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

40 CFR 60 Subpart RRR: General Provisions Applicability			
General provisions citation 40 CFR	Subject of citation	Applies to subpart	Explanation
§60.7	Notification and Recordkeeping	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<p>§§60.7(a)(1), (3), (4) (general notification requirements), §60.7(f) (general recordkeeping requirements for all measurements); and §60.7(h) (requirements of individual subparts) apply to the affected facility.</p> <p>The applicability of §§60.7(a)(5) – (7) (notification requirements related to CMS); §60.7(b) (startup, shutdown, and malfunction recordkeeping); and §§60.7(c), (d), and (e) (recordkeeping for excess emissions and CMS performance summary) depend upon the TRE index value established during the performance test.</p> <p>§§60.7(a)(6) and (7) (notification requirements related to opacity monitoring) and §60.7(g) (state/local agency notification) do not apply.</p> <p>Per §60.705(k), each owner or operator subject to Subpart RRR is exempt from the quarterly reporting requirements contained in §60.7(c).</p>
§60.8	Performance tests	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§60.9	Availability of information	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§60.10	State Authority	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§60.11	Compliance with standards and maintenance requirements	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Requirements related to opacity monitoring do not apply.
§60.12	Circumvention	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§60.13	Monitoring requirements	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CEMS and COMS are not required by Subpart RRR. Other CMS requirements depend upon the TRE index value established during the performance test.
§60.14	Modification	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
§60.15	Reconstruction	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
§60.16	Priority list	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	



<b>40 CFR 60 Subpart RRR: General Provisions Applicability</b>			
<b>General provisions citation 40 CFR</b>	<b>Subject of citation</b>	<b>Applies to subpart</b>	<b>Explanation</b>
§60.17	Incorporations by reference	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§60.18	General control device requirements	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	The affected facility does not use a flare, and alternative equipment leak monitoring does not apply to this subpart.
§60.19	General notification and reporting requirements	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

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## Appendix 10: General Provisions for 40 CFR Part 63, Subparts H and FFFF

You are required to comply with the following General Provisions of the federal National Emission Standards for Hazardous Air Pollutants (NESHAP):

40 CFR 63 Subpart H: General Provisions Applicability			
Rule Citation	Subject	Applies to Subpart	Explanation
§63.1	Applicability	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	§63.1(a)(1), (a)(2), (a)(3), (a)(13), (a)(14), (b)(2) and (c)(4) apply. See Table 4 of Subpart H.
§63.2	Definitions	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
§63.3	Units and Abbreviations	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	See Table 4 of Subpart H.
§63.4	Prohibited Activities and Circumvention	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	See Table 4 of Subpart H.
§63.5	Preconstruction Review and Notification Requirements	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	§63.5(a)(1), (a)(2), (b), (d)(1)(ii), (d)(4), (e), (f)(1) and (f)(2) apply. See Table 4 of Subpart H.
§63.6(a), (b), (c)	Compliance with Standards and Maintenance Requirements—Applicability Compliance Dates	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	§63.6(a), (b)(3), and (c)(5) apply. See Table 4 of Subpart H.
§63.6(e)	Operation and Maintenance Requirements	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
§63.6(f), (g), (i), (j)	Compliance with Non-opacity Emission Standards	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	§63.6(i)(1), (i)(2), (i)(4)(i)(A), (i)(5) through (i)(14), (i)(16) and (j) apply. See Table 4 of Subpart H.
§63.7(a), (e), (f), (g), (h)	Performance Testing Requirements	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	See Table 4 of Subpart H.
§63.8	Monitoring Requirements	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	See Table 4 of Subpart H.
§63.9	Notification Requirements	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	§63.9(a)(2), (b)(4)(i), a (b)(4)(ii), (b)(4)(iii), (b)(5), a (c), (d), (j) and (k) apply. The notifications specified in §63.9(b)(4)(i) and (b)(5) shall be submitted at the times specified in 40 CFR part 65. See Table 4 of Subpart H.
§63.10	Recordkeeping and Reporting Requirements	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	§63.10(d)(4) applies. See Table 4 of Subpart H.
§63.11	Control Device Requirements	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	§63.11 (c), (d), and (e) apply. See Table 4 of Subpart H.
§63.12	State Authorities and Delegations	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	§63.12(b) applies. See Table 4 of Subpart H.
§63.13	Addresses	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	See Table 4 of Subpart H.

<b>40 CFR 63 Subpart H: General Provisions Applicability</b>			
<b>Rule Citation</b>	<b>Subject</b>	<b>Applies to Subpart</b>	<b>Explanation</b>
§63.14	Incorporations by Reference	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	See Table 4 of Subpart H.
§63.15	Availability of Information and Confidentiality	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	See Table 4 of Subpart H.
§63.16	Performance Track Provisions	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	See Table 4 of Subpart H.

<b>40 CFR 63 Subpart FFFF: General Provisions Applicability</b>		
<b>Rule Citation</b>	<b>Subject</b>	<b>Applies to Subpart FFFF?</b>
§63.1	Applicability	Yes.
§63.2	Definitions	Yes.
§63.3	Units and Abbreviations	Yes.
§63.4	Prohibited Activities	Yes.
§63.5	Construction/Reconstruction	Yes.
§63.6(a)	Applicability	Yes.
§63.6(b)(1)-(4)	Compliance Dates for New and Reconstructed sources	Yes.
§63.6(b)(5)	Notification	Yes.
§63.6(b)(6)	[Reserved]	
§63.6(b)(7)	Compliance Dates for New and Reconstructed Area Sources That Become Major	Yes.
§63.6(c)(1)-(2)	Compliance Dates for Existing Sources	Yes.
§63.6(c)(3)-(4)	[Reserved]	
§63.6(c)(5)	Compliance Dates for Existing Area Sources That Become Major	Yes.
§63.6(d)	[Reserved]	
§63.6(e)(1)(i)	Operation & Maintenance	Yes, before August 12, 2023. No, beginning on and after August 12, 2023. See §63.2450(u) for general duty requirement.
§63.6(e)(1)(ii)	Operation & Maintenance	Yes, before August 12, 2023. No, beginning on and after August 12, 2023.
§63.6(e)(1)(iii)	Operation & Maintenance	Yes.
§63.6(e)(2)	[Reserved]	
§63.6(e)(3)(i), (iii), and (v) through (viii)	Startup, Shutdown, Malfunction Plan (SSMP)	Yes, before August 12, 2023, except information regarding Group 2 emission points and equipment leaks is not required in the SSMP, as specified in §63.2525(j). No, beginning on and after August 12, 2023.

<b>40 CFR 63 Subpart FFFF: General Provisions Applicability</b>		
<b>Rule Citation</b>	<b>Subject</b>	<b>Applies to Subpart FFFF?</b>
§63.6(e)(3)(iii) and (iv)	Recordkeeping and Reporting During SSM	No, see §63.2525 for recordkeeping requirements and §63.2520(e)(4) for reporting requirements.
§63.6(e)(3)(ix)	SSMP incorporation into title V permit	Yes, before August 12, 2023. No beginning on and after August 12, 2023.
§63.6(f)(1)	Compliance with Non-Opacity Standards Except During SSM	No. See §63.2445(g) through (i).
§63.6(f)(2)-(3)	Methods for Determining Compliance	Yes.
§63.6(g)(1)-(3)	Alternative Standard	Yes.
§63.6(h)(1)	Compliance with Opacity Standards Except During SSM	No. See §63.2445(g) through (i).
§63.6(h)(2)-(9)	Opacity/Visible Emission (VE) Standards	Only for flares for which Method 22 of 40 CFR part 60, appendix A-7, observations are required as part of a flare compliance assessment.
§63.6(i)(1)-(14), and (16)	Compliance Extension	Yes.
§63.6(j)	Presidential Compliance Exemption	Yes.
§63.7(a)(1)-(2)	Performance Test Dates	Yes, except substitute 150 days for 180 days.
§63.7(a)(3)	Section 114 Authority	Yes, and this paragraph also applies to flare compliance assessments as specified under §63.997(b)(2).
§63.7(a)(4)	Force Majeure	Yes.
§63.7(b)(1)	Notification of Performance Test	Yes.
§63.7(b)(2)	Notification of Rescheduling	Yes.
§63.7(c)	Quality Assurance/Test Plan	Yes, except the test plan must be submitted with the notification of the performance test if the control device controls batch process vents.
§63.7(d)	Testing Facilities	Yes.
§63.7(e)(1)	Conditions for Conducting Performance Tests	Yes, before August 12, 2023 except that performance tests for batch process vents must be conducted under worst-case conditions as specified in §63.2460. No, beginning on and after August 12, 2023. See §63.2450(g)(6).
§63.7(e)(2)	Conditions for Conducting Performance Tests	Yes.
§63.7(e)(3)	Test Run Duration	Yes.
§63.7(e)(4)	Administrator's Authority to Require Testing	Yes.
§63.7(f)	Alternative Test Method	Yes.
§63.7(g)	Performance Test Data Analysis	Yes, except this subpart specifies how and when the performance test and performance evaluation results are reported.
§63.7(h)	Waiver of Tests	Yes.

<b>40 CFR 63 Subpart FFFF: General Provisions Applicability</b>		
<b>Rule Citation</b>	<b>Subject</b>	<b>Applies to Subpart FFFF?</b>
§63.8(a)(1)	Applicability of Monitoring Requirements	Yes.
§63.8(a)(2)	Performance Specifications	Yes.
§63.8(a)(3)	[Reserved]	
§63.8(a)(4)	Monitoring with Flares	Yes, except for flares subject to §63.2450(e)(5).
§63.8(b)(1)	Monitoring	Yes.
§63.8(b)(2)-(3)	Multiple Effluents and Multiple Monitoring Systems	Yes.
§63.8(c)(1)	Monitoring System Operation and Maintenance	Yes.
§63.8(c)(1)(i)	Routine and Predictable SSM	Yes, before August 12, 2023. No, beginning on and after August 12, 2023.
§63.8(c)(1)(ii)	CMS malfunction not in SSM plan	Yes.
§63.8(c)(1)(iii)	Compliance with Operation and Maintenance Requirements	Yes, before August 12, 2023. No, beginning on and after August 12, 2023.
§63.8(c)(2)-(3)	Monitoring System Installation	Yes.
§63.8(c)(4)	CMS Requirements	Only for CEMS. Requirements for CPMS are specified in referenced subparts G and SS of this part. Requirements for COMS do not apply because this subpart does not require continuous opacity monitoring systems (COMS).
§63.8(c)(4)(i)	COMS Measurement and Recording Frequency	No; this subpart does not require COMS.
§63.8(c)(4)(ii)	CEMS Measurement and Recording Frequency	Yes.
§63.8(c)(5)	COMS Minimum Procedures	No. This subpart does not contain opacity or VE limits.
§63.8(c)(6)	CMS Requirements	Only for CEMS; requirements for CPMS are specified in referenced subparts G and SS of this part. Requirements for COMS do not apply because this subpart does not require COMS.
§63.8(c)(7)-(8)	CMS Requirements	Only for CEMS. Requirements for CPMS are specified in referenced subparts G and SS of this part. Requirements for COMS do not apply because this subpart does not require COMS.
§63.8(d)(1)	CMS Quality Control	Only for CEMS.
§63.8(d)(2)	CMS Quality Control	Only for CEMS.
§63.8(d)(3)	CMS Quality Control	Yes, only for CEMS before August 12, 2023. No, beginning on and after August 12, 2023. See §63.2450(j)(6).

<b>40 CFR 63 Subpart FFFF: General Provisions Applicability</b>		
<b>Rule Citation</b>	<b>Subject</b>	<b>Applies to Subpart FFFF?</b>
§63.8(e)	CMS Performance Evaluation	Only for CEMS, except this subpart specifies how and when the performance evaluation results are reported. Section 63.8(e)(5)(ii) does not apply because this subpart does not require COMS.
§63.8(f)(1)-(5)	Alternative Monitoring Method	Yes, except you may also request approval using the precompliance report.
§63.8(f)(6)	Alternative to Relative Accuracy Test	Only applicable when using CEMS to demonstrate compliance, including the alternative standard in §63.2505.
§63.8(g)(1)-(4)	Data Reduction	Only when using CEMS, including for the alternative standard in §63.2505, except that the requirements for COMS do not apply because this subpart has no opacity or VE limits, and §63.8(g)(2) does not apply because data reduction requirements for CEMS are specified in §63.2450(j).
§63.8(g)(5)	Data Reduction	No. Requirements for CEMS are specified in §63.2450(j). Requirements for CPMS are specified in referenced subparts G and SS of this part.
§63.9(a)	Notification Requirements	Yes.
§63.9(b)(1)-(5)	Initial Notifications	Yes.
§63.9(c)	Request for Compliance Extension	Yes.
§63.9(d)	Notification of Special Compliance Requirements for New Source	Yes.
§63.9(e)	Notification of Performance Test	Yes.
§63.9(f)	Notification of VE/Opacity Test	No.
§63.9(g)	Additional Notifications When Using CMS	Only for CEMS. Section 63.9(g)(2) does not apply because this subpart does not require COMS.
63.9(h)(1)-(6)	Notification of Compliance Status	Yes, except §63.9(h)(2)(i)(A) through (G) and (h)(2)(ii) do not apply because §63.2520(d) specifies the required contents and due date of the notification of compliance status report.
§63.9(i)	Adjustment of Submittal Deadlines	Yes.
§63.9(j)	Change in previous information	Yes, for change in major source status, otherwise §63.2520(e) specifies reporting requirements for process changes.
§63.9(k)	Electronic reporting procedures	Yes, as specified in §63.9(j).
§63.10(a)	Recordkeeping/Reporting	Yes.
§63.10(b)(1)	Recordkeeping/Reporting	Yes.
§63.10(b)(2)(i)	Records related to startup and shutdown	No, see §§63.2450(e) and 63.2525 for recordkeeping requirements.

<b>40 CFR 63 Subpart FFFF: General Provisions Applicability</b>		
<b>Rule Citation</b>	<b>Subject</b>	<b>Applies to Subpart FFFF?</b>
§63.10(b)(2)(ii)	Recordkeeping relevant to SSM periods and CMS	Yes, before August 12, 2023. No, beginning on and after August 12, 2023. See §63.2525(h) and (l).
§63.10(b)(2)(iii)	Records related to maintenance of air pollution control equipment	Yes.
§63.10(b)(2)(iv) and (v)	Recordkeeping relevant to SSM period	Yes, before August 12, 2023. No, beginning on and after August 12, 2023.
§63.10(b)(2)(vi)	CMS Records	Before August 12, 2023, yes but only for CEMS; requirements for CPMS are specified in referenced subparts G and SS of this part. Beginning on and after August 12, 2023, yes for CEMS and CPMS for flares subject to §63.2450(e)(5).
§63.10(b)(2)(x) and (xi)	CMS Records	Only for CEMS; requirements for CPMS are specified in referenced subparts G and SS of this part.
§63.10(b)(2)(vii)-(ix)	Records	Yes.
§63.10(b)(2)(xii)	Records	Yes.
§63.10(b)(2)(xiii)	Records	Only for CEMS.
§63.10(b)(2)(xiv)	Records	Yes.
§63.10(b)(3)	Records	Yes.
§63.10(c)(1)-(6),(9)-(14)	Records	Only for CEMS. Recordkeeping requirements for CPMS are specified in referenced subparts G and SS of this part.
§63.10(c)(7)-(8)	Records	No. Recordkeeping requirements are specified in §63.2525.
§63.10(c)(15)	Records	Yes, before August 12, 2023, but only for CEMS. No, beginning on and after August 12, 2023.
§63.10(d)(1)	General Reporting Requirements	Yes.
§63.10(d)(2)	Report of Performance Test Results	Yes, before October 13, 2020. No, beginning on and after October 13, 2020.
§63.10(d)(3)	Reporting Opacity or VE Observations	No.
§63.10(d)(4)	Progress Reports	Yes.
§63.10(d)(5)(i)	Periodic Startup, Shutdown, and Malfunction Reports	No, §63.2520(e)(4) and (5) specify the SSM reporting requirements.
§63.10(d)(5)(ii)	Immediate SSM Reports	No.
§63.10(e)(1)	Additional CEMS Reports	Yes.
§63.10(e)(2)(i)	Additional CMS Reports	Only for CEMS, except this subpart specifies how and when the performance evaluation results are reported.
§63.10(e)(2)(ii)	Additional COMS Reports	No. This subpart does not require COMS.

<b>40 CFR 63 Subpart FFFF: General Provisions Applicability</b>		
<b>Rule Citation</b>	<b>Subject</b>	<b>Applies to Subpart FFFF?</b>
§63.10(e)(3)	Reports	No. Reporting requirements are specified in §63.2520.
§63.10(e)(3)(i)-(iii)	Reports	No. Reporting requirements are specified in §63.2520.
§63.10(e)(3)(iv)-(v)	Excess Emissions Reports	No. Reporting requirements are specified in §63.2520.
§63.10(e)(3)(iv)-(v)	Excess Emissions Reports	No. Reporting requirements are specified in §63.2520.
§63.10(e)(3)(vi)-(viii)	Excess Emissions Report and Summary Report	No. Reporting requirements are specified in §63.2520.
§63.10(e)(4)	Reporting COMS data	No.
§63.10(f)	Waiver for Recordkeeping/Reporting	Yes.
§63.11	Control device requirements for flares and work practice requirements for equipment leaks	Yes, except for flares subject to §63.2450(e)(5).
§63.12	Delegation	Yes.
§63.13	Addresses	Yes.
§63.14	Incorporation by Reference	Yes.
§63.15	Availability of Information	Yes.

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