

PUBLIC NOTICE

Eastman Chemical Company has applied to the Tennessee Department of Environment and Conservation, Division of Air Pollution Control for a significant modification to an existing major source operating permit subject to the provisions of paragraph 1200-03-09-.02(11) of the Tennessee Air Pollution Control Regulations. A major source operating permit is required by both the Federal Clean Air Act and the Tennessee Air Pollution Control Regulations.

Eastman Chemical Company seeks to obtain a significant modification to a major source operating permit for a Title I modification (NSPS VVa) at their chemical manufacturing operation. The existing Title V operating permit subject to the modification is identified as follows: Division identification number 82-0003/567375 (MSOP-09). The process emission source affected by the modification is identified as follows: 82-0003-60/PES B-255-1. This significant modification is conducted pursuant to subpart 1200-03-09-.02(11)(f)5(iv) of the Tennessee Air Pollution Control Regulations. Only the portion of the Title V permit affected by the significant modification is open to comment during the notice period.

EPA has agreed to treat this draft Part 70 permit as a proposed Part 70 permit and to perform its 45-day review provided by the law concurrently with the public notice period. If any substantive comments are received, EPA's 45-day review period will cease to be performed concurrently with the public notice period. EPA's 45-day review period will start once the public notice period has been completed and EPA receives notification from the Tennessee Air Pollution Control Division that comments have been received and resolved. Whether EPA's 45-day review period is performed concurrently with the public comment period or after the public comment period has ended, the deadline for citizen's petitions to the EPA Administrator will be determined as if EPA's 45-day review period is performed after the public comment period has ended (*i.e.*, sequentially). The status regarding EPA's 45-day review of these permits and the deadline for submitting a citizen's petition can be found at the following website address:

<http://www.epa.gov/region4/air/permits/Tennessee.htm>

Copies of the draft permit and application materials used by the TAPCD are available for public inspection during normal business hours at the following locations:

Kingsport Public Library & Archives
400 Broad Street
Kingsport, TN 37660-4292

and

Tennessee Department of Environment and Conservation
Division of Air Pollution Control
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 15th Floor
Nashville, TN 37243

An electronic copy of the draft permit is available by accessing the TDEC internet site located at:

<http://tn.gov/environment/ppo/#air>

Interested parties are invited to review these materials and comment. In addition, a public hearing may be requested at which written or oral presentations may be made. To be considered, written comments or requests for a public hearing must be made within thirty (30) days of the date of this notice and should be addressed to **Mr. Barry R Stephens, P.E., Director, Division of Air Pollution Control, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue 15th Floor, Nashville, Tennessee 37243**. Questions concerning the source(s) may be addressed to Mr. Travis Blake at the same address or by calling (615) 532-0554 or (615) 532-0617. A final determination will be made after weighing all relevant comments.

Individuals with disabilities who wish to review information maintained at the above-mentioned depositories should contact the Tennessee Department of Environment and Conservation to discuss any auxiliary aids or services needed to facilitate such review. Such contact may be in person, by writing, telephone, or other means, and should be made no less than ten days prior to the end of the public comment period to allow time to provide such aid or services. Contact the Tennessee Department of Environment and Conservation ADA Coordinator, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue 2nd Floor, Nashville, TN 37243, 1-(866)-253-5827. Hearing impaired callers may use the Tennessee Relay Service, 1-(800)-848-0298.

For the Sullivan County "Kingsport Times-News" -- publish once during the time period of April 20, 2015, through April 24, 2015.

Air Pollution Control DATE: APRIL 6, 2015
Assigned to –Travis Blake

No alterations to the above are allowed:

Eastman Chemical Company must pay to place this advertisement in the newspaper

Air Pollution Control must be furnished with an affidavit from the newspaper stating that the ad was run and the date of the ad or one complete sheet from the newspaper showing this advertisement, the name of the newspaper and the date of publication. Mail to Travis Blake, Division of Air Pollution Control, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue 15th Floor, Nashville, Tennessee 37243.

TITLE V PERMIT STATEMENT

Company	Eastman Chemical Company
Facility Name:	Eastman Chemical Company, Tennessee Operations Major Source Operating Permit (MSOP)-09
City:	Kingsport
County:	Sullivan

Date Application Received:	June 18, 2013
Date Application Deemed Complete:	June 18, 2013

Emission Source Reference No.:	82-0003-MSOP-09
Permit No.:	567375

INTRODUCTION

This narrative is being provided to assist the reader in understanding the content of the attached Title V operating permit. This Title V Permit Statement is written pursuant to Tennessee Air Pollution Control Rule 1200-3-9-.02(11)(f)1.(v). The primary purpose of the Title V operating permit is to consolidate and identify existing state and federal air requirements applicable to Eastman Chemical Company, and to provide practical methods for determining compliance with these requirements. The following narrative is designed to accompany the Title V Operating Permit. It initially describes the facility receiving the permit, then the applicable requirements and their significance, and finally the compliance status with those applicable requirements. This narrative is intended only as an adjunct for the reviewer and has no legal standing. Any revisions made to the permit in response to comments received during the public participation process will be described in an addendum to this narrative.

Acronyms

PSD	Prevention of Significant Deterioration
NESHAP	National Emission Standards for Hazardous Air Pollutants
NSPS	New Source Performance Standards
MACT	Maximum Achievable Control Technology
NSR	New Source Review

I. Identification Information

A. Source Description

Emission Source Number	Description
82-1006-93 (PES B-226MCS-1)	Polyester Polymer Manufacturing
82-1004-14 (PES B-226P-1)	Polyester Polymer Manufacturing
82-1004-74 (PES B-227A-1)	Parts Cleaning Oven
82-1003-60 (PES B-255-1)	Polyester Polymer Manufacturing
82-1010-53 (PES B-270MCS-1)	Plastic Pellet Convey and Storage
82-1010-43 (PES B-270MP-1)	Plastic Manufacturing Facilities
82-1010-42 (PES B-270RC-1)	Glycol Condensates Refining System
82-1010-94 (PES B-270SS-1)	Polymer Solid Stating System
82-1010-19 (PES B-270TF-1)	Storage and Process Tanks
82-1004-25 (PES B-302-1)	Cooling Tower

B. Facility Classification

1. Attainment or Non-Attainment Area Location: The facility is located in an attainment area (Sullivan County) for the 8-hour ozone and annual PM_{2.5} standards (Early Action Compact for ozone).
2. This facility is located in a Class II area.

C. Regulatory Status

1. PSD/NSR: This facility is a major source for PSD.
2. Title V Major Source Status by Pollutant

Pollutant	Is the pollutant emitted?	If emitted, what is the facility's status? (Major Source or Non-Major Source)
PM	Yes	Major Source
PM ₁₀	Yes	Major Source
SO ₂	Yes	Major Source
VOC	Yes	Major Source
NO _x	Yes	Major Source
CO	Yes	Major Source
Individual HAP	Yes	Major Source
Total HAPs	Yes	Major Source
CO ₂ e	Yes	Major Source

3. MACT Standards - the following MACT standards apply to this MSOP:

40 CFR 63 Subpart	Description
JJJ	Group IV Polymers & Resins
FFFF	Miscellaneous Organic Chemical Manufacturing.

4. Program Applicability: Are the following programs applicable to the facility?

PSD: Yes
NESHAP: 40 CFR 61 – None applicable to this MSOP
40 CFR 63 – Yes
NSPS: Yes

II. Compliance Information

A. Compliance Status

Is the facility currently in compliance with all applicable requirements? Yes

Are there any applicable requirements that will become effective during the permit term? No.

III. Other Requirements

A. Emissions Trading

This MSOP is not involved in an emission trading program.

B. Acid Rain Requirements

This facility is not subject to any requirements in Title IV of the Clean Air Act.

C. Prevention of Accidental Releases

This MSOP is subject to the accidental release requirements of Section 112(r) of the Clean Air Act.

IV. Public Participation Procedures

Notification of this draft permit was mailed to the following environmental agencies:

1. EPA
2. Kentucky Department for Environmental Protection
4. North Carolina Division of Environmental Management
5. Virginia Department of Environmental Quality

V. Public Notice

Changes made in response to public comments will be listed in the addendum to Statement of Basis, below.

ADDENDUM TO TITLE V PERMIT STATEMENT: PUBLIC COMMENTS

Company	Eastman Chemical Company
Facility Name:	Eastman Chemical Company, Tennessee Operations Major Source Operating Permit (MSOP)-09
City:	Kingsport
County:	Sullivan

Date Application Received:	June 18, 2013
Date Application Deemed Complete:	June 18, 2013

Emission Source Reference No.:	82-0003-MSOP-09
Permit No.:	567375

Date of Public Notice:	October 22, 2013
Date of Public Hearing:	October 22, 2013

Comment Summary

Commenter	Comment	Response
	The public notice for this renewal permit was published in the Kingsport Times-News on October 22, 2013. There were <u>no comments</u> received during the comment period.	

Changes to Title V Operating Permit 547916 Since Issuance

Permit Modification	Issue Date	Condition or Section	Modification
Minor Modification #1 (MPM-1)	June 20, 2005	Section E	Modified Conditions E1, E7-1, and E7-3. Added condition E2-4.
MPM-2	July 14, 2005	Section E	Modified Conditions E1, E2-1, E19-1, E19-2, E19-3, and E19-7. Deleted Conditions E19-5 and E19-8. Deleted the NSPS applicability attachment for PES B-271TF-1.
MPM-3	September 8, 2005	Section E	Modified Conditions E1, E2-1, E3-1, E3-2, E3-11, E4-1, E9-1, E-92, E9-3, E10-3, E11-5, E16-2, and E16-7. Deleted E9-10 and E9-11
MPM-4	October 20, 2005 October 9, 2006	Section E	Modified Conditions E1, E14-1, and E14-2.
MPM-5		Cover page	Updated facility contact information.
		E1	Updated fee emissions
		E4-1	Increased allowable PM emissions from 0.36 lb/hr and 1.54 tons/year to 0.38 lb/hr and 1.63 tons/year.
MPM-6	June 18, 2007	Cover Page	Updated permit information and Responsible Official, pursuant to the Administrative Amendment Request dated March 29, 2007.
		E1	Updated emissions fee table
		E2-1	Updated semiannual reporting requirements in Condition E2-1(a).
		E3-2	Updated date and page number of operating plan.
		E3-3, E3-10, E3-11, E11-10, E19-10	Revised language for changes in applicability and removed references to 502(b)(10) changes.
		E3-5	Increased fugitive VOC emissions estimate (from pumps, valves, flanges, etc.) from 22.6 tons/year to 22.8 tons/year.
		E6-1 and E6-2	Changed emission source description to match the description listed in the application.
		E6-1	Increased the emission limit for particulates from 0.35 lb/hr and 0.4 tons/year to 0.62 lb/hr and 0.65 tons/year.
		E11-3	Corrected fugitive VOC emissions estimate from 35.0 tons/year to 34.9 tons/year.
		E11-4	Deleted Vents A12 and A13. Decreased VOC emission limit from 2.56 tons/year to 1.56 tons/year.
		E11-9	Increased allowable operating hours for Vents A12, A13, and L from 70 hours/year to 150 hours/year. Updated page numbers and date of operating plan.
		E17-4	Updated date and page number of operating plan.
		E17-1	Increased VOC emission limit from 15.5 to 17.17 tons/year. Added compliance method for Vent C.
		E17-7	Established a limit of 1,152,000 lb/day production rate for Vent C. Added periodic monitoring method and operating plan reference for Vent C.
		E19-1	Added Vent W.
E19-3	Updated date and page number of operating plan.		
E19-7	Added compliance method (certification) for Vent W.		

Changes to Title V Operating Permit 547916 Since Issuance			
Permit Modification	Issue Date	Condition or Section	Modification
MPM-7	September 5, 2008	Cover Page	Updated permit information
		E1	Updated emissions fee table. Removed PM ₁₀ from fee table (no PM ₁₀ emissions limit on this MSOP). Corrected fee emissions for TSP and updated VOC emissions.
		E2-1	Updated semiannual reporting requirements in Condition E2-1(a).
		E17-4	Increased VOC emission limit from 0.1 tons/year to 1.73 tons/year. Updated date and page number of operating plan.
		E17-5	Changes as indicated in Attachment 2.
		E17-7	Updated date and page number of operating plan.
		E17-8	Added condition for compliance assurance monitoring (exemption).
		Attachment 2	Removed emission point WA, added emission points DA-07, DA-08, and HA-01.
Significant Modification #1 (SPM-1)	September 26, 2008	General	<p>Significant Modification #1 was issued to incorporate the requirements of construction permit 961886P into the Title V Operating Permit for MSOP-09. Construction permit 961886P was issued for construction of a copolyester production operation consisting of new process and storage tanks, distillation columns, vacuum systems, reactors, a process heater, crystallizers, filters, and scrubbers. Other modifications covered by the permit included the shutdown and modification of existing tanks, distillation columns, scrubbers, and vacuum systems at the facility. The modification is subject to the following applicable requirements:</p> <ol style="list-style-type: none"> 1. 40 CFR 60 Subpart A (NSPS General Provisions) 2. 40 CFR 60 Subpart VV (NSPS for SOCOMI Equipment Leaks) 3. 40 CFR 60 Subpart NNN (NSPS for VOC Emissions from SOCOMI Distillation Operations) 4. 40 CFR 60 Subpart RRR (NSPS for VOC Emissions from SOCOMI Reactor Processes) 5. 40 CFR 63 Subpart A (MACT General Provisions) 6. 40 CFR 63 Subpart JJJ (Group IV Polymers & Resins MACT) 7. 40 CFR 63 Subpart FFFF (Miscellaneous Organic NESHAP) <p>Volatile organic compound (VOC) emissions will increase as a result of the modification. The emissions increase does not exceed the PSD significance threshold, but the facility is required to maintain records of VOC emissions pursuant to Rule 1200-3-9-.01(4)(a)11. of the Tennessee Air Pollution Control Regulations (TAPCR), as indicated in specific permit conditions.</p> <p>The legal basis for each permit condition is indicated in Item #9 (underlying applicable requirements) of source-specific requirements. In the absence of specific Federal requirements, limits on process gaseous emissions were established pursuant to TAPCR 1200-3-7-.07(2) (install and utilize equipment and technology which is determined reasonable and proper by the Technical Secretary of the Tennessee Air Pollution Control Board). Emission limits were based upon calculations provided by the facility in the permit application, taking into consideration the compliance requirements for applicable Federal and State rules. Emission limits were established in units requested by the facility. Periodic monitoring methods were provided by the facility in the permit application and were reviewed for adequacy.</p>
		E1	Updated emissions fee table.
		E2-1	Updated semiannual reporting requirements in Condition E2-1(a).
		E11-1	Increased allowable VOC emissions from 6.9 tons/year to 7.9 tons/year.
SPM-1	September 26, 2008	E11-3	Decreased estimated fugitive VOC emissions from 34.9 tons/year to 33.94 tons/year.

Changes to Title V Operating Permit 547916 Since Issuance

Permit Modification	Issue Date	Condition or Section	Modification
		E11-5	Old condition: VOC emission limit of 0.06 lb/hr for Vents B1, B2, C1, C2, C3, D1, D2, D3, D4, D5, D6, D7, and D8 SPM-1: Added Vent B3, removed Vent D1, and increased allowable VOC emissions from 0.06 lb/hr to 2.3 tons/year for the group of vents. Added compliance method for Vent B3. VOC emissions from the vents are established pursuant to TAPCR 1200-3-7-.07(2). Emission limit was changed from lb/hr to tons/year based on the limit requested in the company's permit application.
		E11-8	Condition deleted (VOC emission limit for Vent L). This is an uncontrolled vent that is limit to 150 hours of operation per year. VOC emissions from this vent are subject to TAPCR 1200-3-7-.07(2) and are 0.55 tons at 150 operating hours/year.
		E11-10	See Attachment 2 for updates to JJJ requirements.
		E11-12	New condition, adds compliance requirements for 40 CFR 63 Subpart FFFF (future MCPUs).
		E11-13	New condition, adds compliance requirements for 40 CFR 63 Subpart A (future MCPUs).
		E11-14	New condition, adds compliance requirements for 40 CFR 60 Subpart VV.
		E11-15	New condition, adds compliance requirements for 40 CFR 60 Subpart RRR.
		E11-16	New condition, adds compliance requirements for 40 CFR 60 Subpart A.
		E13-1	Increased allowable VOC emissions from 0.36 lb/hr and 1.53 tons/year to 0.58 lb/hr and 2.94 tons/year.
		E13-2	Increased estimated fugitive VOC emissions from 1.1 tons/year to 1.8 tons/year.
		E13-4	See Attachment 2 for updates to JJJ requirements.
		E13-5	New condition, adds compliance requirements for 40 CFR 63 Subpart A.
		E13-6	New condition, adds compliance requirements for 40 CFR 63 Subpart FFFF (future MCPUs).
		E13-7	New condition, adds compliance requirements for 40 CFR 63 Subpart A (future MCPUs).
		E13-8	New condition, adds compliance requirements for 40 CFR 60 Subpart VV.
		E13-9	New condition, adds compliance requirements for 40 CFR 60 Subpart NNN.
		E13-10	New condition, adds compliance requirements for 40 CFR 60 Subpart A.
		E17-1	Increased allowable VOC emissions from 17.17 tons/year to 19.11 tons/year.
		E17-2	Increased estimated fugitive VOC emissions from 1.7 tons/year to 3.48 tons/year.
		E17-4	Decreased allowable VOC emissions from 1.73 tons/year to 1.54 tons/year.
		E17-5	See Attachment 2 for updates to JJJ requirements.
		E17-7	Updated date and page number of operating plan.
		E17-9	New condition, adds emission limit and compliance method for new Vent U.
		E17-10	New condition, adds compliance requirements for 40 CFR 60 Subpart VV.
		E17-11	New condition, adds compliance requirements for 40 CFR 63 Subpart FFFF (future MCPUs).
		E17-12	New condition, adds compliance requirements for 40 CFR 63 Subpart A (future MCPUs).

Changes to Title V Operating Permit 547916 Since Issuance			
Permit Modification	Issue Date	Condition or Section	Modification
SPM-1	September 26, 2008	Attachment 2	PES B-270MP-1, Specific applicability determinations for 40 CFR 63 Subpart JJJ: updated date and page number of alternative monitoring plan for Vents D7 and D8. Added new form: 40 CFR 60 specific applicability determinations for PES B-270MP-1. Added new form: MON overlap provisions for PES B-270MP-1. PES B-270RC-1, Specific applicability determinations for 40 CFR 63 Subpart JJJ: removed Vents D, E, H, and WB. Added new form: 40 CFR 60 specific applicability determinations for PES B-270RC-1. Added new form: MON overlap provisions for PES B-270RC-1. PES B-270TF-1, Specific applicability determinations for 40 CFR 63 Subpart JJJ: added Vent DA-02. Added new form: MON overlap provisions for PES B-270TF-1.
		Attachment 3	New attachment, adds VOC recordkeeping requirements for sources subject to TAPCR 1200-3-9-.01(4)(a)11. – reasonable possibility of a significant emissions increase.
		<p>Public comments: The public notice for this significant modification was published on July 31, 2008, and the comment period expired on August 31, 2008. EPA submitted the following comment via e-mail:</p> <p style="color: red;">The addendum to the Statement of Basis (SOB) does not provide enough detail of the changes being made. For example, in the addendum to the SOB, changes to E11-1 are described as "Increased allowable VOC emissions from 6.9 tons/year to 7.9 tons/year" but gives no basis for the increase. Additionally, E11-5 describes "Added Vent B3 and removed Vent D1, increased allowable VOC emissions from 0.06 lb/hr to 2.3 tons/year, added compliance method for Vent B3" it provides no detail and utilizes different units of measurement without explanation. It would be extremely helpful if the addendum included a discussion of decision-making that went into the modification.</p> <p>Response: The Statement of Basis was revised to provide the requested information. There were no other comments received during the public comment period.</p>	

Changes to Title V Renewal Permit 560956

Condition	Change
B5	<p>Condition B5(d) was revised to add the underlined language:</p> <p>(d) The status of compliance with the terms and conditions of the permit for the period covered by the certification, including whether <u>compliance during the period was continuous or intermittent</u>. The certification shall be based on the method or means designated in B5(b) above. The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion* or exceedance** as defined below occurred; and</p>
C1	<p>Condition C1 was revised to add the underlined language:</p> <p><u>Operational flexibility changes.</u> The source may make operational flexibility changes that are not addressed or prohibited by the permit without a permit revision subject to the following requirements:</p> <p>(a) The change cannot be subject to a requirement of Title IV of the Federal Act or Chapter 1200-3-30.</p> <p>(b) The change cannot be a modification under any provision of Title I of the federal Act or Division 1200-3.</p> <p>(c) Each change shall meet all applicable requirements and shall not violate any existing permit term or condition.</p> <p>(d) The source must provide contemporaneous written notice to the Technical Secretary and EPA of each such change, except for changes that are below the threshold of levels that are specified in Rule 1200-3-9-.04.</p> <p>(e) <u>Each change shall be described in the notice including the date, any change in emissions, pollutants emitted, and any applicable requirements that would apply as a result of the change.</u></p> <p>(f) The change shall not qualify for a permit shield under the provisions of part 1200-3-9-.02(11)(e)6.</p> <p>(g) The permittee shall keep a record describing the changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes. The records shall be retained until the changes are incorporated into subsequently issued permits.</p>
C2	<p>Condition C2(b) was revised to add the underlined language:</p> <p>(b) The written notification must <u>be signed by a facility Title V responsible official and include the following:</u></p> <ol style="list-style-type: none"> 1. brief description of the change within the permitted facility; 2. specifies the date on which the change will occur; 3. declares <u>and quantifies where possible</u> any change in emissions; 4. declares any permit term or condition that is no longer applicable as a result of the change; and 5. <u>declares the requested change is not a Title I modification and will not exceed allowable emissions under the permit.</u>
E2(b)	<p>Condition E2-1(b)(4) was revised to add the underlined language:</p> <p>(4) The status of compliance with the terms and conditions of the permit for the period covered by the certification, <u>including whether compliance during the period was continuous or intermittent</u>. The certification shall be based on the method or means designated in E2-1(b)(2) above. The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an *excursion or **exceedance as defined below occurred; and</p>
E2-5	<p>Added new condition to address general requirements for opacity monitoring.</p>
<p>Public comments: The public notice for this permit was placed in the legal section of the “Kingsport Times-News” on October 22, 2008. The following comment was received from EPA during the 30-day public comment period: “What changes in allowable emissions and changes to the permits are occurring with these two proposed permits? This was not clear to me in the statement of basis.”</p> <p>Response: Changes in allowable emissions for this permit are indicated in Attachment C [<u>“Summary of Allowable Emissions Changes” in the current version</u>].</p>	

Changes to Title V Operating Permit 560956 Since Renewal Issuance

Permit Modification	Issue Date	Condition or Section	Modification
Administrative Amendment #1	August 7, 2009	E2-1(a)	Corrected errors in semiannual reporting requirements and opacity reporting requirements.
		E17-1	Corrected a typographical error in the compliance method.
Minor Modification #1 (MPM-1) (minor modifications #1, 2, and 3 were issued as a single permit)	December 22, 2009	E3-14, E9-11, E16-9	Added compliance requirements for 40 CFR 63 Subpart A for miscellaneous organic chemical processing units.
		E3-15, E9-12, E16-10, Attachment 2	Added compliance requirements for 40 CFR 63 Subpart FFFF.
		E9-1, E9-2	Updated date and page number of operating plans for Vents 8B and M1. No other changes.
		E9-7	Updated MACT general provisions "Portion of Source Subject to Requirement" to delete the phrase "Portion of Source Subject to NSPS."
		E10-1	Increased allowable particulate emissions from 1.44 lb/hr to 1.56 lb/hr (added new vents J and Z).
		E10-3	Increased allowable particulate emissions from 6.24 tons/year to 6.76 tons/year (added new vents J and Z).
		E16-8, Attachment 4	Added table of CAM general requirements to Attachment 4.
MPM-2 (minor modifications #1, 2, and 3 were issued as a single permit)	December 22, 2009	E1	Updated fee emissions.
		E2-1	Updated semiannual reporting requirements.
		E11-1	Decreased allowable VOC emissions from 7.1 tons/year to 5.2 tons/year (Vents A5 and A16 were removed and routed to PES B-270TF-1). Updated date and page number of operating plan. Corrected an error in the monitoring requirement for Vents D7 and D8 to reference Condition E11-9.
		E11-4	Removed Vent A16. Decreased allowable VOC emissions from Vent A15 (storage tanks GP-01 and GP-02) from 1.56 tons/year to 0.06 tons/year.
		E11-5	Corrected an error in the monitoring requirement for Vents D7 and D8 to reference Condition E11-9.
		E11-9, Attachment 2	Updated date of Subpart JJJ alternative monitoring plans for Vents D7 and D8.
		E11-10, E11-12	Combined Conditions E11-10 and E11-12 into a single condition and marked Condition E11-12 as "Reserved." No other changes.
		E11-11, Attachment 2	Added specific applicability determinations for MACT Subpart FFFF.
		E11-13, Attachment 2	Added Vent I to alternative monitoring for equipment in ethylene glycol vapor service (Attachment 2), added a general requirement for monitoring, recordkeeping, and reporting in Attachment 2.
		E11-14, Attachment 2	Updated Attachment to change RRR references from flow diagram points to Vent numbers.
		E11-15	Revised "Portion of Source Subject to Requirement" to state "Portion of source subject to NSPS"
E13-2	Decreased estimated fugitive VOC emissions from 1.8 tons/year to 1.24 tons/year.		

Changes to Title V Operating Permit 560956 Since Renewal Issuance

Permit Modification	Issue Date	Condition or Section	Modification
MPM-2 (minor modifications #1, 2, and 3 were issued as a single permit)	December 22, 2009	E13-5, E13-7	Combined Conditions E13-5 and E13-7 into a single condition and marked Condition E13-5 as "Reserved." No other changes.
		E13-6, Attachment 2	Added specific applicability determinations for MACT Subpart FFFF.
		E13-8	Added a general requirement for NSPS VV monitoring, recordkeeping, and reporting in Attachment 2.
		E13-9, Attachment 2	Removed flow diagram point Triangle RC1 from "TRE greater than 1.0 but less than 8.0," added flow diagram point Triangle 5 to "TRE greater than 8.0."
		E13-10	Revised "Portion of Source Subject to Requirement" to state "Portion of source subject to NSPS"
		E17-1	Added new Vent V, increased allowable VOC emissions from 19.11 tons/year to 21.44 tons/year.
		E17-2	Increased fugitive VOC emissions estimate from 3.48 tons/year to 3.75 tons/year.
		E17-4	Decreased allowable VOC emissions from Vent A from 1.54 tons/year to 0.84 tons/year. Updated date and page number of operating plan (no other changes to operating plan).
		E17-5, Attachment 2	Deleted HA-01 from Subpart JJJ applicability determination (subject to Subpart FFFF – see Condition E17-11 and Attachment 2).
		E17-6	Combined MACT Subpart A requirements with Condition E17-11 and added NSPS Subpart A requirements for portion of source subject to NSPS.
		E17-7	Updated date and page number of operating plan (no other changes to operating plan).
		E17-9	Updated parametric relationship for Vent U: changed vent temperature from 35° C to 45° C, changed water flow from 1.4 gallons/minute to 1.0 gallons/minute. Updated date and page number of operating plan.
		E17-11, Attachment 2	Added specific applicability requirements for Subpart FFFF.
		E17-12	Combined MACT Subpart A requirements from old Condition E17-6 into this condition. Updated "portion of source subject to requirement" to include sources subject to subparts JJJ and FFFF.
MPM-3 (minor modifications #1, 2, and 3 were issued as a single permit)	December 22, 2009	D10	Deleted redundant language (old condition D10 was identical to existing conditions B5 and E2-1(b)) and added annual certification language for generally applicable requirements.
		E1	Updated fee emissions.
		E2-1	Updated semiannual reporting requirements.
		E11-1	Added Tanks DE-D-25 and DE-D-26 (Vents E and E1), increased allowable VOC emissions from 5.2 tons/year to 5.33 tons/year.
		E11-4	Added Tanks DE-D-25 and DE-D-26 (Vents E and E1), increased allowable VOC emissions from 0.06 tons/year to 0.17 tons/year.
		E11-11, Attachment 2	Changed MON applicability for Vent B3 from Group 2 Continuous Process Vent to Group 1 Continuous Process Vent. Added requirement for Process Unit Group Provisions for MACT JJJ subject points.
		E13-6, Attachment 2	Added requirement for Process Unit Group Provisions for MACT JJJ subject points.
		E17-11, Attachment 2	Added requirement for Process Unit Group Provisions for MACT JJJ subject points. Added Vent R to batch process vents with non-reactive HAP usage less than 10,000 lb/year.

Changes to Title V Operating Permit 560956 Since Renewal Issuance

Permit Modification	Issue Date	Condition or Section	Modification
MPM-4	March 5, 2010	E2-1	Updated semiannual reporting requirements.
		E13-8, Attachment 2	Added new Vent M, added MON requirements (Group 2 Storage Vessel) to Vents E and M.
MPM-5	June 11, 2010	E1	Updated fee emissions
		E2-1	Updated semiannual reporting requirements.
		E9-6, Attachment 2	Updated MACT Subpart JJJ requirements by adding eight reactors and three vents.
		E11-11, Attachment 2	Updated MACT Subpart FFFF requirements by adding tanks DE-25 (Vent E), DE-26 (Vent E1), DE-48B (Vent D7), DE-48C (Vent D7) as Group 2 storage vessels. Added DL-01 to MON overlap requirements as a Group 2 process vent.
		E11-12, Attachment 2	Updated NSPS Subpart NNN requirements by adding DL-01 as a group 2 process vent.
		E11-14, Attachment 2	Updated NSPS Subpart RRR requirements by changing applicability of DE-01 from Group 2 vent to Group 1 vent. Changed identifier for DC-03 from "Vent B3" to "7".
		E13-6, Attachment 2	Updated MACT Subpart FFFF requirements by changing applicability of DN-01 from Group 2 vent to Group 1 vent, adding DM-01 as Group 1 vent, and , and adding DN-02 and DM-03 as Group 2 vents. Updated MON overlap provisions by adding DN-02 and DM-03 as Group 2 Process Vents subject to MON and NSPS NNN.
		E13-9, Attachment 2	Updated NSPS Subpart NNN requirements by changing applicability of DN-01 from $TRE > 8.0$ to $TRE \leq 1.0$, adding DM-01 as $TRE \leq 1.0$, and adding DN-02 and DM-03 as $TRE > 8.0$.
		E17-7	Updated production limit operating plan.
		E17-11, Attachment 2	Updated MACT Subpart FFFF requirements by adding Group 2 storage vessels DK-03/04 and JP-01/02.
		Attachment 4	Updated CAM general provisions by adding data availability requirements.
Significant Modification #1 (SPM-1)	October 4, 2010	E1	Updated fee emissions.
		E2-1	Updated semiannual reporting requirements.
		E11-1	Decreased allowable VOC emissions from 5.33 tons/year to 3.76 tons/year. Updated operating plan date for vent B3. Removed tanks JP-01 and JP-02 (Vent A16).
		E11-3	Updated VOC emissions estimate for quarterly LDAR from 33.94 tons/year to 34.74 tons/year.
		E11-9, Attachment 2	Updated MACT JJJ alternative monitoring plan to match the current application date. There were no changes to the provisions of the monitoring plan. No other changes to this condition.
		E11-11, Attachment 2	Updated MACT FFFF requirements by breaking up the requirements for Vent B3 (Group 1 process vent) into its component TRE points ($\Delta 4$, $\Delta 5$, and $\Delta 7$) and listing the requirements for individual TRE points. Removed TRE points $\Delta 5$ and $\Delta 7$ from MON overlap provisions (the TRE points will be subject to separate MON and NSPS RRR provisions for HAP and TOC, respectively).
		E11-12, Attachment 2, Attachment 5	Added requirements for 40 CFR 60 Subpart NNN (NSPS NNN requirements were listed for this PES in Attachment 2 but not in the body of the permit). Added NSPS NNN compliance plan (Attachment 5).

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Permit Modification	Issue Date	Condition or Section	Modification
SPM-1	October 4, 2010	E11-14, Attachment 2, Attachment 5	Added NSPS RRR compliance plan (Attachment 5).
		E11-16	Added lb/hr VOC emission limit for Vent B3.
		E13-1	Reduced allowable VOC emission limit from 0.58 lb/hr and 2.94 tons/year to 0.19 lb/hr and 1.24 tons/year based on updated emission calculations.
		E13-2	Reduced estimated VOC emissions from Flow Diagram Point G (Equipment Leaks) from 1.24 tons/year to 1.14 tons/year based on updated emission calculations.
		E13-6, Attachment 2	Updated MACT FFFF requirements by removing Vent K from MON requirements and overlap provisions. Removed TRE point Δ5 from MON overlap provisions (the TRE point will be subject to separate MON and NSPS NNN provisions for HAP and TOC, respectively).
		E13-9, Attachment 2, Attachment 5	Updated NSPS NNN requirements by removing Vent K. Added NSPS NNN compliance plan (Attachment 5).
		E15-1, E15-2, E15-3	SPM-1 deletes this PES. The equipment in this PES was transferred to PES B-270TF-1.
		E17-1	Reduced allowable VOC emissions limit from 21.44 tons/year 10.14 tons/year. Removed Vents R and V from this condition (Vent V was removed from the permit, and a new limit was established for Vent R).
		E17-2	Reduced estimated VOC emissions from Flow Diagram Point G (Equipment Leaks) from 3.75 tons/year to 2.67 tons/year based on updated emission calculations.
		E17-4	Updated periodic monitoring requirement to reference MACT JJJ.
		E17-5, Attachment 2	Added a reference to the updated MACT operating plan for Vent A. Added existing Group 2 process wastewater stream W3.
		E17-7	Updated operating plan to match the current application.
		E17-9	Reduced allowable VOC emissions limit from 0.93 tons/year 0.07 tons/year. Updated operating plan to match current application.
		E17-11, Attachment 2	Updated MACT FFFF requirements by adding process wastewater streams W2 and W4. Deleted Vent R from “process with non-reactive HAP usage < 10,000 lb/year.”
		E17-13	Added VOC emission limit and monitoring for Vent R.
		E17-14	Added VOC emission limit and monitoring for Vents W and X.
			Public comments: There were <u>no comments</u> received during the public comment period for SPM-1. One TDEC-APC comment is noted below. TDEC-APC Comment: moved certification requirements for Accidental Release Plan from E2-1(b) to E2-1(c).
SPM-2	May 16, 2011	E1	Updated fee emissions.
		E2-1	Updated semiannual reporting requirements.
		E11-1	Increased allowable VOC emissions from 3.76 tons/year to 3.95 tons/year. Removed Tanks DK-03 and DK-04 (Vent A5 – these tanks have been moved to PES B270TF-1, Vent R). Added Tank EE-D-25 (Vent E2). Changed periodic monitoring requirement for Vent L to compliance by certification.

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Permit Modification	Issue Date	Condition or Section	Modification				
SPM-2	May 16, 2011	E11-3	Decreased estimated fugitive VOC emissions from 34.74 tons/year to 32.75 tons/year.				
		E11-4	Added Tank EE-D-25 (Vent E2) and increased allowable VOC emissions from 0.17 tons/year to 0.19 tons/year.				
		E11-8	Updated operating plan date and page number for periodic monitoring. No other changes.				
		E11-9, Attachment 2	Updated operating plan date for 40 CFR 63 Subpart JJJ (Vents D7 and D8) to most current application date. No other changes to MACT JJJ applicability.				
		E11-11, Attachment 2	Updated 40 CFR 63 Subpart FFFF requirements. Added Group 1 TRE points, Δ10, Δ11, and Δ12; moved TRE point Δ7 from Group 2 to Group 1; added Group 2 TRE points (existing Group 2 process vents not requiring monitoring) Δ8, Δ13, Δ14; deleted Group 2 storage vessels DE-25, DE-48B, and DE-48C; deleted Group 2 wastewater stream W1; and added Group 2 wastewater streams W10 and W14. Added MON overlap provisions for MON Group 1 process vents subject to NSPS NNN (TRE points Δ5, Δ7, and Δ12), MON Group 1 process vents subject to NSPS RRR (TRE points Δ5, Δ7, Δ10, Δ11, and Δ12), and MON Group 2 process vents subject to NSPS RRR (TRE points Δ4, Δ8, Δ13, and Δ14).				
		E11-12, Attachment 2	Updated 40 CFR 60 Subpart NNN requirements. Added Group 1 TRE point Δ12 (EL-01 Column). Removed Group 2 TRE point Δ4. Moved TRE point Δ7 (DL-01 Condenser) from Group 2 to Group 1.				
		E11-14, Attachment 2	Updated 40 CFR 60 Subpart RRR requirements. Added Group 1 TRE points Δ10 (ED Reactors) and Δ11 (EE-01 Reactor); added TRE point Δ12 (EC Reactors) routed to distillation unit subject to subpart NNN except for a pressure relief valve. Added TRE points Δ4**, Δ8, Δ13, Δ14 (TRE greater than 8.0). ** Note: TRE point Δ4 in NSPS RRR is not the same TRE point that was removed in NSPS NNN, per the e-mail from Stephen Moore dated December 14, 2010 (TRE point Δ4 in NSPS NNN was combined with existing TRE point Δ5).				
		E11-16	Moved periodic monitoring from E11-1 to E11-16 and updated periodic monitoring requirements to add new scrubber EL-02 and annual performance test or catalytic activity test.				
		E11-14, E13-9, Attachment 2, Attachment 5	Attachment 5 (Compliance Plan for PES B-270MP-1 and PES B-270RC-1) was removed from the permit. References to the compliance plan were removed from Attachment 2. The sources listed above were determined to be out of compliance with 40 CFR 60 Subpart NNN (PES B-270RC-1) and 40 CFR 60 Subpart RRR (PES B-270MP-1) due to the discovery of previously unknown components in the vent streams controlled by the DL-02 scrubber (Vent B3, PES B-270MP-1). The vent stream was thought to contain mainly methanol, and a water scrubber was chosen as the control device to meet the applicable standards. The previously unknown components include ethylene, methyl formate, and butane. Because these components are not effectively scrubbed with water, the existing scrubber was unable to meet the required emissions standards under NSPS Subparts NNN and RRR. The permittee submitted a plan to install a catalytic oxidizer to control the subject vents from the sources referenced above to the required emissions standards under NSPS Subparts NNN and RRR. The compliance plan included the following schedule: <table border="1" data-bbox="766 1141 1959 1336"> <tbody> <tr> <td>Install catalytic oxidizer</td> <td>Installation shall be completed by the end of the next process shutdown (week of October 3, 2010).</td> </tr> <tr> <td>Test catalytic oxidizer for NSPS compliance</td> <td>Testing shall be completed within 60 days after the end of the next process shutdown.</td> </tr> <tr> <td>Submit performance test report</td> <td>A performance test report shall be submitted within 60 days of completion of the performance test.</td> </tr> </tbody> </table>	Install catalytic oxidizer	Installation shall be completed by the end of the next process shutdown (week of October 3, 2010).	Test catalytic oxidizer for NSPS compliance	Testing shall be completed within 60 days after the end of the next process shutdown.
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Submit performance test report	A performance test report shall be submitted within 60 days of completion of the performance test.						

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Permit Modification	Issue Date	Condition or Section	Modification
			A performance test was conducted for the catalytic oxidizer on December 1, 2010, and a performance test report indicating compliance with the referenced standards was submitted on January 27, 2011. The permittee has fulfilled the terms of the compliance plan.
			Public comments (SPM-2): The public notice for this permit was placed in the legal section of the "Kingsport Times-News" on March 31, 2011, and the public comment period ended on April 30, 2011. There were no comments received from the public during the comment period.
MPM-6	July 27, 2011	E1	Updated fee emissions.
		E2-1(a)	Updated semiannual reporting requirements.
		E9-1	Added new Vents A, B, C, D, E, F, G, and H. No change in allowable emissions. Compliance method is "certification" for all vents. Note for Condition E9-1: New Vents A through H are for eight ethylene glycol storage tanks. The tanks associated with vents A through G were constructed between 1965 and 1974, and the tank associated with Vent H was constructed in 2003. All tanks are less than 75 m ³ . These tanks were not included in the permit prior to this modification because emissions from these tanks are negligible.
		E9-2	Updated operating plan date and page number for Vents 8B and M1. No changes to monitoring.
		E9-3	Decreased allowable VOC emissions from 6.9 tons/year to 5.24 tons/year. Added new Vents A, B, C, D, E, F, G, and H. Compliance method is "certification" for all vents.
		E9-9	Decreased estimated VOC emissions from equipment leaks from 25.5 tons/year to 8.04 tons/year).
		E9-10, Attachment 2	Deleted NSPS/MACT overlap condition. Note for Condition E9-10: The overlap provisions that were deleted from the permit did not specify any monitoring, recordkeeping, or other compliance demonstration. This condition only stated that a source subject to both NSPS DDD and MACT JJJ was exempt from the NSPS DDD provisions. Since the provisions of NSPS DDD were never included in the permit, and since the source was exempt from compliance with the NSPS requirements, this change is not a Title I modification or a significant change to existing monitoring, recordkeeping, and reporting.
MPM-7	October 20, 2011	E1	Updated fee emissions.
		E2-1(a)	Updated semiannual reporting requirements.
		E11-3	Decreased estimated fugitive VOC from 32.35 tons/year to 32.31 tons/year.
		E11-11, Attachment 2	Updated 40 CFR 63 Subpart FFFF requirements. Deleted TRE points Δ4, Δ8, Δ13, Δ14 (Existing Group 2 Process Vents not requiring monitoring. The deleted TRE points were associated with the same vacuum system and individual reactor. Process vapors from the reactor exit through vacuum pump, which passes through a condenser and turns into Triangle 5. The deleted points were associated with seal pots and condensate tanks that contain only condensed liquids. The deleted points were established under the impression that the entire vacuum system was a part of the reactor, and any vents from any equipment associated with the system should be included as TRE

Changes to Title V Operating Permit 560956 Since Renewal Issuance

Permit Modification	Issue Date	Condition or Section	Modification
			points. However, the vessels serve to either prevent air from entering the vacuum system or to store condensates prior to further processing, and there are no process vapors emitted from these vessels.) Updated Group 2 wastewater stream from W14 to W15 due to renumbering of stream IDs. Added Group 2 storage vessels DE-25 (Vent E) and EE-25 (Vent E2). Updated Subpart FFFF overlap provisions. Deleted TRE points Δ4, Δ8, Δ13, Δ14 (Group 2 vents subject to MACT FFFF and NSPS RRR).
		E11-14, Attachment 2	Updated 40 CFR 60 Subpart RRR requirements. Deleted Group 2 process vents Δ4, Δ8, Δ13, Δ14.
		E13-1	Decreased allowable VOC emissions (entire source excluding fugitives) from 1.24 tons/year to 1.09 tons/year (lb/hr limit does not change).
		E13-2	Increased estimated fugitive VOC (flow diagram point G) from 1.14 tons/year to 1.29 tons/year.
		E13-6, Attachment 2	Updated 40 CFR 63 Subpart FFFF requirements. Deleted Group 2 wastewater stream W1. Updated Group 2 wastewater stream from W2 to W13 due to renumbering of stream IDs. Updated Subpart FFFF overlap provisions. Added Group 1 process vents DM-01 and DN-01 to show overlap of MACT FFFF and NSPS NNN. Previous permit shows MACT and NSPS applicability for these vents, but they were not listed in the overlap provisions.
		E17-1	Increased allowable VOC emissions from 10.14 tons/year to 11.03 tons/year. Removed tank DM-C-41 (Vent T).
		E17-2	Increased estimated fugitive VOC (flow diagram point B) from 2.67 tons/year to 2.75 tons/year.
		E17-5	Updated MACT JJJ requirements. Updated Group 2 wastewater stream from W3 to WF due to renumbering of stream IDs. Removed Group 1 Storage Vessel DA-70.
		E17-7, E17-9, E17-13, E17-14	Updated operating plan date and page number, no changes to existing monitoring.
		E17-8	Updated CAM exemption to show Vent U (vent subject to MACT Group 1 control requirements). MACT requirements for Vent U were listed on the previous permit, but the CAM exemption was not listed.
		E17-9	Updated operating plan date and page number. Updated operating plan to refer to Appendix B-1 (MON design evaluation and operating plan), but no significant changes to existing monitoring.
		E17-11	Updated 40 CFR 63 Subpart FFFF requirements. Updated Group 2 wastewater streams from W1, W2, and W4 to W11, W12, and W14 due to renumbering of stream IDs. Updated Group 2 storage vessels (removed Vents T and V and moved storage tanks DM-41 and DM-45 to expanded Vent S). Updated the identification for Vent U (Group 1 storage vessels) to reference the design evaluation in the application.
		E11-1	Corrected a typographical error in the periodic monitoring requirement for Vent B3 to reference Condition E11-16 instead of E11-6. This change was made after the draft permit was sent to EPA. Additional 45-day review of the draft permit is not needed, since the change could be made as an administrative amendment.
MPM-8	April 3, 2013	E1	Updated fee emissions for PM, SO ₂ , and NO _x .
		E2-1(a)	Updated semiannual reporting requirements. Added E8-3 and E13-2.
		E8-1	Increased allowable PM emissions from 0.02 lb/hr and 0.08 tons/year to 0.04 lb/hr and 0.16 tons/year.
		E8-3	Added new Vent K (temporary cleaning oven), operating time limit (121 days per calendar year), and recordkeeping requirement. Note: Emission calculations for Vent K are based on 2,904hours per year (24 hours/day for 121 days/year).

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Permit Modification	Issue Date	Condition or Section	Modification
		E8-4	Add fuel limit for Vent K (only propane to be used as fuel).
		E8-5	Added VOC limit for Vent K.

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Condition	Change																																		
E1	<p>Updated fee emissions. Increased VOC fee emissions from 251.6 tons/year to 509.89 tons/year (258.29 tons/year increase). Most of the change is due to a change in the emissions estimate for PES B-302-1 (increase of 279.44 tons/year). The application states that there were no modifications to the cooling tower and no increases in actual emissions.</p> <p>Eastman staff indicated in follow-up discussions (telephone call on 9/23/2013) that the previous emissions estimate (169.52 tons/year) was based on a stack test conducted in the early 1990s. When Eastman reviewed the methodology of the original stack test, they had questions about the validity of the test and elected to use a different method to calculate emissions. The revised emissions estimate uses grab sampling of the cooling tower inlet and outlet streams (difference between inlet and outlet concentrations is the amount emitted – cooling water blowdown is a negligible fraction of the total and is not sampled).</p>																																		
E2-1(a)	Updated semiannual reporting requirements. Deleted semiannual reporting requirements for all conditions that reference the monitoring, recordkeeping, and reporting of another permit condition but establish no other periodic monitoring. Moved MACT reporting requirements from E2-1(a)(1) to E2-1(a)(2). Moved NSPS reporting requirements from E2-1(a)(1) to E2-1(a)(3).																																		
Section E	Updated operating plan dates and page numbers. No changes to monitoring unless specifically indicated below.																																		
Section E	Updated visible emissions requirements to reference the most recent opacity matrix.																																		
Section E	<p>Permit conditions were renumbered as follows:</p> <table border="1" data-bbox="396 837 1866 1369"> <thead> <tr> <th>Old Section/Condition</th> <th>New Section/Condition</th> </tr> </thead> <tbody> <tr> <td>Section E3</td> <td>Section E3</td> </tr> <tr> <td>E3-10</td> <td>Deleted in a previous modification, placeholder was removed from renewal.</td> </tr> <tr> <td>E3-11 through E3-15</td> <td>E3-10 through E3-14</td> </tr> <tr> <td>Section E4</td> <td>Section E4. PES was renamed from B-226P-2 to B-226MCS-1.</td> </tr> <tr> <td>Section E5</td> <td>Deleted in renewal (PES B-226P-3 was combined with PES B-226MCS-1).</td> </tr> <tr> <td>Section E6</td> <td>Deleted in renewal (PES B-226P-5 was combined with PES B-226MCS-1).</td> </tr> <tr> <td>Section E7</td> <td>Deleted in renewal (PES B-226P-9 was combined with PES B-226MCS-1).</td> </tr> <tr> <td>Section E8</td> <td>Section E5</td> </tr> <tr> <td>Section E9</td> <td>Section E6</td> </tr> <tr> <td>E9-10</td> <td>Deleted in a previous modification, placeholder was removed from renewal.</td> </tr> <tr> <td>E9-11 and E9-12</td> <td>E6-10 and E6-11</td> </tr> <tr> <td>Section E10</td> <td>Section E7</td> </tr> <tr> <td>Section E11</td> <td>Section E8</td> </tr> <tr> <td>E11-5</td> <td>Deleted in renewal. Vents B1, B2, C1, C2, C3, D2, D3, D4, D5, and D6 have negligible VOC emissions and are addressed in E8-1. Limit and compliance method for Vents D7 and D8 were moved to E8-4.</td> </tr> <tr> <td>E11-8</td> <td>Deleted in renewal. VOC compliance method is not required due to negligible emissions (April 24, 2013 application).</td> </tr> <tr> <td>E11-9 through E11-16</td> <td>E8-8 through E8-14</td> </tr> </tbody> </table>	Old Section/Condition	New Section/Condition	Section E3	Section E3	E3-10	Deleted in a previous modification, placeholder was removed from renewal.	E3-11 through E3-15	E3-10 through E3-14	Section E4	Section E4. PES was renamed from B-226P-2 to B-226MCS-1.	Section E5	Deleted in renewal (PES B-226P-3 was combined with PES B-226MCS-1).	Section E6	Deleted in renewal (PES B-226P-5 was combined with PES B-226MCS-1).	Section E7	Deleted in renewal (PES B-226P-9 was combined with PES B-226MCS-1).	Section E8	Section E5	Section E9	Section E6	E9-10	Deleted in a previous modification, placeholder was removed from renewal.	E9-11 and E9-12	E6-10 and E6-11	Section E10	Section E7	Section E11	Section E8	E11-5	Deleted in renewal. Vents B1, B2, C1, C2, C3, D2, D3, D4, D5, and D6 have negligible VOC emissions and are addressed in E8-1. Limit and compliance method for Vents D7 and D8 were moved to E8-4.	E11-8	Deleted in renewal. VOC compliance method is not required due to negligible emissions (April 24, 2013 application).	E11-9 through E11-16	E8-8 through E8-14
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Changes to Title V Renewal Permit 567375

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Section E20	Section E12																																												
Section E3	Updated underlying applicable requirements to reference construction permit 967183P.																																												
E3-1	Decreased allowable VOC emissions (entire source excluding fugitives) from 44.4 tons/year to 40.14 tons/year. Added new vents 8E and 8F. Added parametric monitoring for Vent 8F. Added compliance method for Vent 5A (subject to MON requirements). Changed compliance method for Vent 5A to “certification.”																																												
E3-2	Decreased allowable VOC emissions (vents listed in permit) from 8.0 lb/hr to 6.40 lb/hr. Added new vent 8F and parametric monitoring. Updated parametric monitoring requirements for Vent A.																																												
E3-3, Attachment 2	Updated MACT JJJ requirements. Changed applicability for Tank VEG (Vent 1C), Tank TEG (Vent 1E) from “Group 2 Storage Vessel” to “Storage vessels containing ethylene glycol are exempt from storage vessel provision.”																																												
E3-5	<p>Decreased estimated fugitive VOC from 22.8 tons/year to 18.16 tons/year. The application indicates a decrease in emissions due to reduced emissions from heat transfer makeup. See below for explanation (e-mail from Steve Moore to Travis Blake, 7/17/2013):</p> <p>“That refers to the amount of heat transfer material that is added to the system during a calendar year. It is a closed system so the assumption is that the fugitive losses equal the annual makeup. A complicating factor is that the system is common between 3 buildings. In reviewing the calculation documentation for the renewal, we felt like the distribution of the total makeup should be equal between the 3 buildings and adjusted the fugitive estimate sheets accordingly. This would account for any increase [or decrease – TJB] in this number. So there is no actual increase in heat transfer fluid usage, just a redistribution of the existing emissions.”</p>																																												

Changes to Title V Renewal Permit 567375

Condition	Change																														
E3-6	Added the following language to the underlying applicable requirement: "agreement letter dated April 15, 1986 authorizing lower than allowable particulate emission rates as shown on permit applications."																														
E3-8	Increased allowable PM emissions (multiple vents specified in Condition E3-8) from 10.4 tons/year to 11.63 tons/year. Added new vents SB-01 and SB-02.																														
E3-12, Attachment 2	Deleted NSPS VV requirements and added NSPS VVa requirements.																														
E3-14, Attachment 2	Updated MACT FFFF requirements. Deleted MON/NSPS overlap provisions (see E3-12, NSPS VV applicability was removed and VVa applicability was added – no MON overlap with VVa).																														
E4-1	<p>Increased allowable PM emissions (entire source) from 0.38 lb/hr and 1.63 tons/year to 1.80 lb/hr and 7.88 tons/year. Updated underlying applicable requirement to reference new construction permit.</p> <table border="1" data-bbox="785 488 1482 771"> <thead> <tr> <th rowspan="2">Permit</th> <th rowspan="2">PES</th> <th colspan="2">Allowable PM emissions</th> </tr> <tr> <th>lb/hr</th> <th>tons/year</th> </tr> </thead> <tbody> <tr> <td>560956</td> <td>B-226P-2</td> <td>0.38</td> <td>1.63</td> </tr> <tr> <td>560956</td> <td>B-226P-3</td> <td>0.433</td> <td>1.92</td> </tr> <tr> <td>560956</td> <td>B-226P-5</td> <td>0.6</td> <td>0.57</td> </tr> <tr> <td>560956</td> <td>B-226P-9</td> <td>0.8</td> <td>0.36</td> </tr> <tr> <td>567375</td> <td>B-226MCS-1</td> <td>1.8</td> <td>7.88</td> </tr> <tr> <td colspan="2">Change in Emissions:</td> <td>-0.413</td> <td>3.4</td> </tr> </tbody> </table>	Permit	PES	Allowable PM emissions		lb/hr	tons/year	560956	B-226P-2	0.38	1.63	560956	B-226P-3	0.433	1.92	560956	B-226P-5	0.6	0.57	560956	B-226P-9	0.8	0.36	567375	B-226MCS-1	1.8	7.88	Change in Emissions:		-0.413	3.4
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E5-1	Increased allowable PM emissions (entire source) from 0.04 lb/hr to 0.06 lb/hr.																														
E5-3, Attachment 2	Updated MACT JJJ requirements. Added new Vent 8F (other continuous process vents – Group 1 process vents).																														
E6-1	Decreased allowable VOC emissions (entire source excluding fugitives) from 19.92 tons/year to 10.69 tons/year. Removed Vents 2C, 2D, 7A, 7B, 7C, R1, R3, and Z2. Added new Vent 8C. Changed compliance method for Vent 8B from parametric monitoring to MACT FFFF (Group 2 process vent not requiring monitoring). Changed compliance methods for Vents 1B and 8C to "certification."																														
E6-2	Decreased allowable VOC emissions (vents specified in E6-2) from 3.3 lb/hr to 2.61 lb/hr. Removed Vents 2C, 2D, 7A, 7B, 7C, and R3. Changed compliance method for Vents 1C and 8B to "certification."																														
E6-3	Decreased allowable VOC emissions (vents specified in E6-3) from 5.24 tons/year to 4.59 tons/year. Removed Vents SE and Z2. Added Vent S3 (Tank CY-D-46).																														
E6-4	Decreased allowable PM emissions (entire source) from 3.07 tons/year to 1.76 tons/year.																														
E6-6, Attachment 2	Updated MACT JJJ requirements. Removed applicability for 6 batch reactors (4EE Reactors & 2 PP Reactors: "Combination of Batch Process Vents or Aggregate Batch Vent Streams with Continuous Process Vents" and "Group 2 Batch Process Vent with Annual Emissions < 11,800 kg/year"). Removed applicability for casting (Vents 7A, 7B, and 7C: "Group 2 Batch Process Vent with Annual Emissions < 11,800 kg/year").																														
E6-8	Decreased allowable PM emissions (vents specified in E6-8) from 0.702 lb/hr to 0.40 lb/hr. Removed Vents 3A, 3B, 3C, 3D, 4H, 4I, 6A, 6B, 6C, 7A, 7B, and 7C.																														
E6-9	<p>Increased estimated fugitive VOC emissions from 8.04 tons/year to 13.11 tons/year.</p> <p>Note - increase in fugitive emissions is mostly due to the increase in emissions from heat transfer makeup.</p>																														

Changes to Title V Renewal Permit 567375

Condition	Change																														
E7-1, E7-3	<p>Increased allowable PM emissions (entire source) from 1.56 lb/hr to 2.22 lb/hr (Condition E7-1) and from 6.76 tons/year to 9.62 tons/year (Condition E7-3). This is a net decrease in allowable emissions, which results from the combination of three additional PES's into this emission source (see below). Updated underlying applicable requirement to reference new construction permit.</p> <table border="1" data-bbox="787 284 1480 565"> <thead> <tr> <th rowspan="2">Permit</th> <th rowspan="2">PES</th> <th colspan="2">Allowable PM emissions</th> </tr> <tr> <th>lb/hr</th> <th>tons/year</th> </tr> </thead> <tbody> <tr> <td>560956</td> <td>270PA-1</td> <td>0.12</td> <td>0.52</td> </tr> <tr> <td>560956</td> <td>270RL-1</td> <td>0.42</td> <td>1.82</td> </tr> <tr> <td>560956</td> <td>270TL-1</td> <td>0.18</td> <td>0.78</td> </tr> <tr> <td>560956</td> <td>B-270MCS-1</td> <td>1.56</td> <td>6.76</td> </tr> <tr> <td>567375</td> <td>B-270MCS-1</td> <td>2.22</td> <td>9.62</td> </tr> <tr> <td align="center" colspan="2">Change in Emissions:</td> <td>-0.06</td> <td>-0.26</td> </tr> </tbody> </table>	Permit	PES	Allowable PM emissions		lb/hr	tons/year	560956	270PA-1	0.12	0.52	560956	270RL-1	0.42	1.82	560956	270TL-1	0.18	0.78	560956	B-270MCS-1	1.56	6.76	567375	B-270MCS-1	2.22	9.62	Change in Emissions:		-0.06	-0.26
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E8-1	Decreased allowable VOC emissions (entire source excluding fugitives) from 3.95 tons/year to 1.15 tons/year. Removed Vent L (this vent still exists but has no VOC emissions). Changed compliance method for Vents A12 and A13 from recordkeeping (hours of operation for each vent) to certification. Changed compliance method for Vents D7 and D8 from MACT JJJ to certification.																														
E8-3	Increased estimated fugitive VOC emissions from 32.31 tons/year to 33.10 tons/year.																														
E8-4	Increased allowable VOC emissions (tanks listed in Condition E8-4) from 0.19 tons/year to 0.23 tons/year. Added Vents D7 and D8 (these are existing tanks that are also subject to Condition E7-1).																														
E8-5	Updated catalytic oxidizer inlet temperature from 340°C to 370°C (application dated April 24, 2013).																														
E8-6	Added Vent L.																														
E8-8, Attachment 2	Updated MACT JJJ requirements (application dated April 24, 2013). Deleted MACT applicability for Vents D7 and D8 (PET using a continuous dimethyl terephthalate process – polymerization reaction sections and applicable monitoring). Deleted MACT applicability for process wastewater streams WC and WD (existing Group 2 wastewater stream). Added Vent 1C (other continuous process Vents – TRE . 4.0).																														
E9-2	Increased estimated fugitive VOC emissions from 1.29 tons/year to 1.31 tons/year.																														
E9-4, Attachment 2	Updated MACT JJJ requirements (equipment leaks) by adding quarterly visual inspection for affected equipment in ethylene glycol service.																														
E10-1	Decreased allowable PM emissions (Vents A1 and B2) from 0.12 lb/hr to 0.06 lb/hr. Removed Vent A2.																														
E10-2	Decreased allowable VOC emissions (Vent B2) from 14.24 lb/hr to 3.4 lb/hr. Removed Vent C3 (this vent is still operating but is not subject to this emission limit).																														
E10-3	Decreased allowable VOC emissions (Vents D1 and D2) from 1.17 tons/year to 0.32 tons/year. Removed Vents D3, D4, and D5.																														
E10-4	Decreased estimated fugitive VOC emissions from 7.41 tons/year to 1.05 tons/year. Changed inspection frequency from quarterly to annual. Note - decrease in fugitive emissions looks like it would be mostly due to the decrease in emissions from heat transfer makeup (changes in equipment counts account for a little less than 2.5 tons/year of the change).																														
E10-6	Decreased allowable PM emissions (Vents A1 and B2) 0.52 tons/year to 0.26 tons/year. Removed Vents A2, B1, and B3.																														
E10-7	Increased allowable VOC emissions from 3.31 tons/year to 3.48 tons/year. Changed portion of source subject to requirement from Vents B2 and C3 only to entire source excluding fugitives (applicability was changed by adding emissions from Vents D1 and D2). Added compliance method for Vent C3 (replaces CAM requirement from old permit).																														
E10-10	Updated MON requirements. Changed TRE point Δ 4 from “Group 2 continuous” to “Group 2 batch.”																														

Changes to Title V Renewal Permit 567375

Condition	Change
E11-1	Changed portion of source subject to requirement from the tanks listed in the application to entire source excluding fugitive emissions. Decreased allowable VOC emissions from 11.03 tons/year to 5.89 tons/year. Removed vents C, D, and J. Added compliance methods for Vents A, R, U, W, and X. Changes are from application dated April 24, 2013.
E11-2	Increased estimated fugitive VOC emissions from 2.75 tons/year to 3.52 tons/year.
E11-4	Decreased allowable VOC emissions (Vent A) from 0.12 tons/year to 0.04 tons/year.
E11-5	Updated MACT JJJ requirements. Added applicability for tanks DA-03 and DA-04 (Vent A, Group 2 storage vessels). Changed Group 2 wastewater stream WF to WX, added Group 2 wastewater stream WA.
E11-9	Increased allowable VOC emissions (Vent U) from 0.07 tons/year to 0.15 tons/year.
E11-10	Decreased allowable VOC emissions (Vents W and X) from 0.18 tons/year to 0.14 tons/year.
Table Notes	The table notes were amended to clarify requirements for monitoring events that occur quarterly, semiannually, or annually. Revised quarterly and annual LDAR requirements to delete redundant language (no change to monitoring).

Changes to Title V Operating Permit 567375 Since Renewal Issuance

Permit Modification	Issue Date	Condition or Section	Modification
Significant Modification #1 (SM1)	September 2, 2014	B6, E2-1	Added e-mail addresses for report submittals.
		B10	Condition B10 was deleted (underlying applicable requirement no longer exists).
		E1	Updated fee emissions.
		E2-1	Updated semiannual reporting requirements (removed NSPS VV and added NSPS VVa).
		E3-7, E6-5, E7-2, E8-2, E9-3, E10-5, E11-3, E12-1, Attachment 1	Updated opacity matrix to most current version (September 11, 2013).
		Sections E8, E9, and E11	Updated operating plans to reference the current application (March 20, 2014). No changes to monitoring unless otherwise indicated below.
		E8-1, E8-3, E9-1, E9-2, E11-1, E11-2, E11-4, E11-9	Removed TAPCR 1200-03-09-.01(4)(a)11 recordkeeping requirement.
		E8-2, E9-3, E11-3, Attachment 1	Updated opacity matrix to the most current version (September 11, 2013).
		E8-3	Increased estimated fugitive VOC emissions (PES B-270MP-1, equipment leaks) from 33.10 tons/year to 33.29 tons/year.
		E8-8, Attachment 2	Removed "Vent 1C" from MACT JJJ applicability. This appears to be a typographical error in the previous permit (MSOP-09 Title V renewal).

Changes to Title V Operating Permit 567375 Since Renewal Issuance

Permit Modification	Issue Date	Condition or Section	Modification
Significant Modification #1 (SM1)	September 2, 2014	E8-10, Attachment 2	Updated MACT FFFF applicability. Removed Process Unit Group provisions (§§63.2435(e) and 63.2535(l)) for PES B-270MP-1. Removed overlap provisions for Subpart FFFF and NSPS Subpart VV (NSPS VVa applies to modified source, there are no overlap provisions).
		E8-12, E8-15, Attachment 2	Removed NSPS VV applicability and added NSPS VVa applicability.
		E8-13, Attachment 2	Updated NSPS RRR requirements, moved flow diagram points Triangle 7 and Triangle 12 from “routed to distillation unit” to “Group 1 process vent.” This is not a modification, existing MON overlap shows these as Group 1 process vents. Deleted Triangle 10 and Triangle 11.
		E9-1	Decreased allowable VOC emissions (PES B-270RC-1, entire source excluding fugitives) from 0.19 lb/hr to 0.15 lb/hr and from 1.09 tons/year to 0.93 tons/year.
		E9-2	Increased estimated fugitive VOC emissions (PES B-270RC-1, equipment leaks) from 1.31 tons/year to 1.67 tons/year.
		E9-4, Attachment 2	Updated operating plan date for equipment leaks monitoring (equipment in ethylene glycol service). No changes to existing requirements.
		E9-5, E9-10, Attachment 2	Removed NSPS VV applicability and added NSPS VVa applicability.
		E11-5, Attachment 2	Updated MACT JJJ operating plan date and page numbers for Vent A. No changes to existing requirements.
		E11-9	Updated periodic monitoring to reference MACT FFFF requirements.
		E11-11, Attachment 2	Removed NSPS VV applicability and added NSPS VVa applicability.
		E11-13, Attachment 2	Updated MACT FFFF applicability. Removed overlap provisions for Subpart FFFF and NSPS Subpart VV (NSPS VVa applies to modified source, there are no overlap provisions). Updated MACT FFFF operating plan date for Vent U. No changes to existing requirements.
		Public comments	The public notice for this permit was published in the Kingsport Times-News on July 16, 2014. There were no comments received during the public comment period.
		SM2	Pending
E2-1	Updated semiannual reporting requirements (added NSPS VVa for PES B-255-1).		
Section E6	Updated operating plans to reference the current application (December 17, 2014). No changes to monitoring unless otherwise indicated below.		
E6-6, Attachment 2	Updated MACT JJJ provisions, removed Vent 1C (Group 2 Process Vent with $TRE \leq 4.0$ and applicable monitoring). The affected line is being converted to Tritan polymer production, which is a non-PET polymer that will be subject to MON. The back-up EG refining system in this PES remains subject to Subpart JJJ and could be used in emergency situations to refine EG from PET lines in other PES's. There are no plans to produce PET again in this equipment once the line is converted to Tritan, and MON applicability will be updated in a future modification.		
E6-7, E6-10	Combined MACT General Provisions applicability for Subparts JJJ and FFFF into a single condition and marked E6-10 as “reserved.”		
E6-9	Increased estimated fugitive VOC emissions (PES B-255-1, Flow Diagram Point F) from 13.11 tons/year to 17.59 tons/year.		

Changes to Title V Operating Permit 567375 Since Renewal Issuance

Permit Modification	Issue Date	Condition or Section	Modification
		E6-12	Added NSPS General Provisions applicability.
SM2	Pending	E6-13, Attachment 2	Added NSPS VVa applicability.
		Public comments	The public notice for this permit will be published in the Kingsport Times-News. Any comments received during the public comment period will be noted here.

82-0003-MSOP-09, Title V Renewal Permit 567375
Summary of Allowable Emissions Changes (see Condition E1)

Permit Information			Criteria Pollutants					HAP Without a Standard			HAP With Standard		
Permit Number	Modification Number	Issue Date	PM	PM ₁₀	SO ₂	VOC	NO _x	VOC Family	Non-VOC Gaseous	PM Family	VOC Family	Non-VOC Gaseous	PM Family
547916	First Issue	11/12/2002	23.05	9.3*	N/A	276.5	0.86	273	N/A	N/A	92.9	N/A	N/A
547916	MPM-1	6/20/2005	23.11	9.3*	N/A	276.5	0.86	273	N/A	N/A	92.9	N/A	N/A
547916	MPM-2	7/14/2005	23.11	9.3*	N/A	277.6	0.86	273	N/A	N/A	93.92	N/A	N/A
547916	MPM-3	9/8/2005	23.45	N/A	N/A	269.3	0.86	255.8	N/A	N/A	99.26	N/A	N/A
547916	MPM-4	10/20/2005	23.71	N/A	N/A	269.3	0.86	255.8	N/A	N/A	99.26	N/A	N/A
547916	MPM-5	10/9/2006	23.8	9.35	N/A	269.3	0.86	255.8	N/A	N/A	99.26	N/A	N/A
547916	MPM-6	6/18/2007	24.05	9.35	N/A	270.06	0.86	158.04	N/A	N/A	100.29	N/A	N/A
547916	MPM-7	9/5/2008	23.97	N/A	N/A	264.7	0.86	152.7	N/A	N/A	102.02	N/A	N/A
547916	SPM-1	9/26/2008	23.97	N/A	N/A	262.38	0.86	151.62	N/A	N/A	110.53	N/A	N/A
560956	Renewal	12/15/2008	23.97	N/A	N/A	262.38	0.86	151.62	N/A	N/A	110.53	N/A	N/A
560956	MPM-1, MPM-2, MPM-3	12/22/2009	24.49	N/A	N/A	254.65	0.86	152.67	N/A	N/A	106.94	N/A	N/A
560956	MPM-4	3/5/2010	24.49	N/A	N/A	254.65	0.86	152.67	N/A	N/A	106.94	N/A	N/A
560956	MPM-5	6/11/2010	24.49	N/A	N/A	254.65	0.86	152.67	N/A	N/A	107.22	N/A	N/A
560956	SPM-1	10/4/2010	24.49	N/A	N/A	247.61	0.86	152.43	N/A	N/A	95.63	N/A	N/A
560956	SPM-2	5/16/2011	24.49	N/A	N/A	249.20	0.86	152.43	N/A	N/A	91.84	N/A	N/A
560956	MPM-6	7/27/2011	9.35	N/A	N/A	251.6	0.86	152.43	N/A	N/A	83.13	N/A	N/A
560956	MPM-7	10/20/2011	9.35	N/A	N/A	251.6	0.86	152.43	N/A	N/A	84.13	N/A	N/A
560956	MPM-8	4/3/2013	9.43	N/A	0.24	251.6	1.93	152.43	N/A	N/A	84.13	N/A	N/A
567375	Renewal #2	12/9/2013	22.61	N/A	0.24	509.79**	1.93	405.37	N/A	N/A	72.1	N/A	N/A
567375	SM1	9/2/2014	22.61	N/A	0.24	509.78	1.93	405.53	N/A	N/A	72.5	N/A	N/A
567375	SM2	Pending	22.61	N/A	0.24	511.35	1.93	402.62	N/A	N/A	75.41	N/A	N/A

VOC Family "HAP Without a Standard" emissions are included in VOC emission total for fee purposes.
VOC Family "HAP With a Standard" emissions are not included in VOC emission total for fee purposes.
* Inclusion of PM₁₀ fee emissions appears to be a typographical error, since there is no emission standard for PM₁₀ in this permit.
** See the table of changes, Condition E1, for an explanation of the increase.

**TENNESSEE AIR POLLUTION CONTROL BOARD
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
NASHVILLE, TENNESSEE 37243-1531**



**SIGNIFICANT MODIFICATION #2 TO
OPERATING PERMIT (TITLE V) Issued Pursuant to Tennessee Air Quality Act**

This permit fulfills the requirements of Title V of the Federal Clean Air Act (42 U.S.C. 7661a-7661e) and the federal regulations promulgated thereunder at 40 CFR Part 70. (FR Vol. 57, No. 140, Tuesday, July 21, 1992 p.32295-32312). This permit is issued in accordance with the provisions of paragraph 1200-03-09-.02(11) of the Tennessee Air Pollution Control Regulations. The permittee has been granted permission to operate an air contaminant source in accordance with emissions limitations and monitoring requirements set forth herein.

Issue Date: **December 9, 2013**

Permit Number: **567375**

Modification Date: *******DRAFT*******

Expiration Date: **December 8, 2018**

Issued To:
**Eastman Chemical Company
Tennessee Operations
P.O. Box 511
Kingsport, TN 37662**

Installation Address:
**South Eastman Road
Kingsport**

Installation Description: **MSOP-09**

For source listing see Section E of Table of Contents

Emission Source Reference No.: **82-0003 MSOP-09**

Renewal Application Due Date: **Between March 13, 2018 and June 11, 2018**

Primary SIC: **28**

Information Relied Upon:

Application dated April 24, 2013 (Significant Modification #3 to Permit 560956), renewal application dated June 18, 2013, and update dated August 17, 2013. Significant modification #1 application dated March 20, 2014, and revisions dated April 9, 2014. Significant Modification #2 application dated December 17, 2014.

(continued on the next page)

TECHNICAL SECRETARY

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.

POST AT INSTALLATION ADDRESS

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END OF PERMIT NUMBER 567375

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ATTACHMENT 2	Applicability Determinations for 40 CFR 60 (NSPS) and 40 CFR 63 (MACT) to MSOP-09
ATTACHMENT 3	Specific Recordkeeping Requirements (TAPCR 1200-03-09-.01(4)(a)11.)

SECTION A

GENERAL PERMIT CONDITIONS

A permit issued under the provisions of paragraph 1200-03-09-.02(11) is a permit issued pursuant to the requirements of Title V of the Federal Act and its implementing Federal regulations promulgated at 40 CFR, Part 70.

A1. Definitions. Terms not otherwise defined in the permit shall have the meaning assigned to such terms in the referenced regulation.

TAPCR 1200-03

A2. Compliance requirement. All terms and conditions in a permit issued pursuant to paragraph 1200-03-09-.02(11) including any provisions designed to limit a source's potential to emit, are enforceable by the Administrator and citizens under the Federal Act.

The permittee shall comply with all conditions of its permit. Except for requirements specifically designated herein as not being federally enforceable (State Only), non-compliance with the permit requirements is a violation of the Federal Act and the Tennessee Air Quality Act and is grounds for enforcement action; for a permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. Non-compliance with permit conditions specifically designated herein as not being federally enforceable (State Only) is a violation of the Tennessee Air Quality Act and may be grounds for these actions.

TAPCR 1200-03-09-.02(11)(e)2(i) and 1200-03-09-.02(11)(e)1(vi)(I)

A3. Need to halt or reduce activity. The need to halt or reduce activity is not a defense for noncompliance. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. However, nothing in this item shall be construed as precluding consideration of a need to halt or reduce activity as a mitigating factor in assessing penalties for noncompliance if the health, safety or environmental impacts of halting or reducing operations would be more serious than the impacts of continuing operations.

TAPCR 1200-03-09-.02(11)(e)1(vi)(II)

A4. The permit. The permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

TAPCR 1200-03-09-.02(11)(e)1(vi)(III)

A5. Property rights. The permit does not convey any property rights of any sort, or any exclusive privilege.

TAPCR 1200-03-09-.02(11)(e)1(vi)(IV)

A6. Submittal of requested information. The permittee shall furnish to the Technical Secretary, within a reasonable time, any information that the Technical Secretary may request in writing to determine whether cause exists for modifying, revoking and reissuing, or termination of the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Technical Secretary copies of records required to be kept by the permit. If the permittee claims that such information is confidential, the Technical Secretary may review that claim and hold the information in protected status until such time that the Board can hear any contested proceedings regarding confidentiality disputes. If the information is desired by EPA, the permittee may mail the information directly to EPA. Any claims of confidentiality for federal purposes will be determined by EPA.

TAPCR 1200-03-09-.02(11)(e)1(vi)(V)

A7. Severability clause. The requirements of this permit are severable. A dispute regarding one or more requirements of this permit does not invalidate or otherwise excuse the permittee from their duty to comply with the remaining portion of the permit.

TAPCR 1200-03-09.02(11)(e)1(v)

A8. Fee payment.

(a) The permittee shall pay an annual major source emission fee based upon the responsible official's choice of actual emissions or allowable emissions. An emission cap of 4,000 tons per year per regulated pollutant per major source SIC Code shall apply to actual or allowable based emission fees. A major source annual emission fee will not be charged for emissions in excess of the cap (s) or for carbon monoxide.

(b) Major sources who have filed a timely, complete operating permit application in accordance with 1200-03-09-.02(11), shall pay allowable emission based fees until the beginning of the next annual accounting period following receipt of their major source operating permit. At that time, the permittee shall begin paying their annual emission fee based upon their choice of actual or allowable based fees, or mixed actual and allowable based fees as stated under SECTION E of this permit. Once permitted, altering the existing choice shall be accomplished by a written request of the major source, filed in the office of the Technical Secretary at least one hundred eighty days prior to the expiration or reissuance of the major source operating permit.

(c) Major sources must conform to the following requirements with respect to fee payments:

1. If a major source choosing an allowable based annual emission fee wishes to restructure its allowable emissions for the purposes of lowering its annual emission fees, a mutually agreed upon, more restrictive regulatory requirement may be established to minimize the allowable emissions and thus the annual emission fee. The more restrictive requirement must be specified on the permit, and must include the method used to determine compliance with the limitation. The documentation procedure to be followed by the major source must also be included to insure that the limit is not exceeded. Restructuring the allowable emissions is permissible only in the annual accounting periods of eligibility and only, if the written request for restructuring is filed with the Technical Secretary at least 120 days prior to the beginning of the annual accounting period of eligibility. These periods of eligibility occur upon expiration of the initial major source operating permit, renewal of an expired major source operating permit or reissuance of a major source operating permit.
2. Major sources paying on allowable based emission fees will be billed by the Division no later than April 1 prior to the end of the accounting period. The major source annual emission fee is due July 1 following the end of the accounting period.
3. Major sources choosing an actual based annual emission fee shall file an actual emissions analysis with the Technical Secretary which summarizes the actual emissions of all regulated pollutants at the air contaminant sources of their facility. Based upon the actual emissions analysis, the source shall calculate the fee due and submit the payment and the analysis each July 1st following the end of the annual accounting period.
4. Major sources choosing a mixture of allowable and actual based emission fees shall file an actual emissions and allowable emissions analysis with the Technical Secretary which summarizes the actual and allowable emissions of all regulated pollutants at the air contaminant sources of their facility. Based upon the analysis, the source shall calculate the fee due and submit the payment and the analysis each July 1st following the end of the annual accounting period.

The mixed based fee shall be calculated utilizing the 4,000 ton cap specified in subparagraph 1200-03-26-.02(2)(i). In determining the tonnages to be applied toward the regulated pollutant 4,000 ton cap in a mixed based fee, the source shall first calculate the actual emission based fees for a regulated pollutant and apply that tonnage toward the regulated pollutant's cap. The remaining tonnage available in the 4,000 ton category of a regulated pollutant shall be subject to allowable emission based fee calculations for the sources that were not included in the actual emission based fee calculations. Once the 4,000 ton cap has been reached for a regulated pollutant, no additional fee shall be required.

5. Major sources choosing to pay their major source annual emission fee based on actual based emissions or a mixture of allowable and actual based emissions may request an extension of time to file their emissions analysis with the Technical Secretary. The extension may be granted by the Technical Secretary up to ninety (90) days. The request for extension must be postmarked no later than July 1 or the request for extension shall be denied. The request for extension to file must state the reason and give an adequate explanation.

An estimated annual emission fee payment of no less than eighty percent (80%) of the fee due July 1 must accompany the request for extension to avoid penalties and interest on the underpayment of the annual emission fee. A remaining balance due must accompany the emission analysis. If there has been an overpayment, a refund may be requested in writing to the Division or be applied as a credit toward next year's major source annual emission fee. The request for extension of time is not available to major sources choosing to pay their major source annual emission fee based on allowable emissions.

6. Newly constructed major sources or minor existing sources modifying their operations such that they become a major source in the midst of the standard July 1st to June 30th annual accounting period, shall pay allowable based annual emission fees for the fractional remainder of the annual accounting period commencing upon their start-up. At the beginning of the next annual accounting period, the "responsible official" of the source may choose to pay annual emission fees based on actual or allowable emissions or a mixture of the two as provided for in this rule 1200-03-26-.02.

(d) Where more than one (1) allowable emission limit is applicable to a regulated pollutant, the allowable emissions for the regulated pollutants shall not be double counted. Major sources subject to the provisions of paragraph 1200-03-26-.02(9) shall apportion their emissions as follows to ensure that their fees are not double counted.

1. Sources that are subject to federally promulgated hazardous air pollutant standards that can be imposed under Chapter 1200-03-11 or Chapter 1200-03-31 will place such regulated emissions in the specific hazardous air pollutant under regulation. If the pollutant is also in the family of volatile organic compounds or the family of particulates, the pollutant shall not be placed in that respective family category.
2. A miscellaneous category of hazardous air pollutants shall be used for hazardous air pollutants listed at part 1200-03-26-.02(2)(i)12 that do not have an allowable emission standard. A pollutant placed in this category shall not be subject to being placed in any other category such as volatile organic compounds or particulates.
3. Each individual hazardous air pollutant and the miscellaneous category of hazardous air pollutants is subject to the 4,000 ton cap provisions of subparagraph 1200-03-26-.02(2)(i).
4. Major sources that wish to pay annual emission fees for PM₁₀ on an allowable emission basis may do so if they have a specific PM₁₀ allowable emission standard. If a major source has a total particulate emission standard, but wishes to pay annual emission fees on an actual PM₁₀ emission basis, it may do so if the PM₁₀ actual emission levels are proven to the satisfaction of the Technical Secretary. The method to demonstrate the actual PM₁₀ emission levels must be made as part of the source's major source operating permit in advance in order to exercise this option. The PM₁₀ emissions reported under these options shall not be subject to fees under the family of particulate emissions. The 4,000 ton cap provisions of subparagraph 1200-03-26-.02(2)(i) shall also apply to PM₁₀ emissions.

TAPCR 1200-03-26-.02 (3) and (9) and 1200-03-09-.02(11)(e)1(vii)

A9. Permit revision not required. A permit revision will not be required under any approved economic incentives, marketable permits, emissions trading and other similar programs or process for changes that are provided for in the permit.

TAPCR 1200-03-09-.02(11)(e)1(viii)

A10. Inspection and entry. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Technical Secretary or his authorized representative to perform the following for the purposes of determining compliance with the permit applicable requirements:

- (a) Enter upon, at reasonable times, the permittee's premises where a source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
- (c) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
- (d) As authorized by the Clean Air Act and Chapter 1200-03-10 of TAPCR, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.
- (e) "Reasonable times" shall be considered to be customary business hours unless reasonable cause exists to suspect noncompliance with the Act, Division 1200-03 or any permit issued pursuant thereto and the Technical Secretary specifically authorizes an inspector to inspect a facility at any other time.

TAPCR 1200-03-09-.02(11)(e)3.(ii)

A11. Permit shield.

- (a) Compliance with the conditions of this permit shall be deemed compliance with all applicable requirements as of the date of permit issuance, provided that:
 - 1. Such applicable requirements are included and are specifically identified in the permit; or
 - 2. The Technical Secretary, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.
- (b) Nothing in this permit shall alter or affect the following:
 - 1. The provisions of section 303 of the Federal Act (emergency orders), including the authority of the Administrator under that section. Similarly, the provisions of T.C.A. §68-201-109 (emergency orders) including the authority of the Governor under the section;
 - 2. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
 - 3. The applicable requirements of the acid rain program, consistent with section 408(a) of the Federal Act; or
 - 4. The ability of EPA to obtain information from a source pursuant to section 114 of the Federal Act.
- (c) Permit shield is granted to the permittee.

TAPCR 1200-03-09-.02(11)(e)6

A12. Permit renewal and expiration.

- (a) Permit expiration terminates the source's right to operate unless a timely and complete renewal application has been submitted at least 180 days, but no more than 270 days prior to the expiration of this permit.
- (b) Provided that the permittee submits a timely and complete application for permit renewal the source will not be considered in violation of paragraph 1200-03-09-.02(11) until the Technical Secretary takes final action on the permit application, except as otherwise noted in paragraph 1200-03-09-.02(11).

- (c) This permit, its shield provided in Condition A11, and its conditions will be extended and effective after its expiration date provided that the source has submitted a timely, complete renewal application to the Technical Secretary.

TAPCR 1200-03-09-.02(11)(f)3 and 2, 1200-03-09-.02(11)(d)1(i)(III), and 1200-03-09-.02(11)(a)2

A13. Reopening for cause.

- (a) A permit shall be reopened and revised prior to the expiration of the permit under any of the circumstances listed below:
 - 1. Additional applicable requirements under the Federal Act become applicable to the sources contained in this permit provided the permit has a remaining term of 3 or more years. Such a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the permit expiration date of this permit, unless the original has been extended pursuant to 1200-03-09-.02(11)(a)2.
 - 2. Additional requirements become applicable to an affected source under the acid rain program.
 - 3. The Technical Secretary or EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
 - 4. The Technical Secretary or EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
- (b) Proceedings to reopen and issue a permit shall follow the same proceedings as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists, and not the entire permit. Such reopening shall be made as expeditiously as practicable.
- (c) Reopenings for cause shall not be initiated before a notice of such intent is provided to the permittee by the Technical Secretary at least 30 days in advance of the date that the permit is to be reopened except that the Technical Secretary may provide a shorter time period in the case of an emergency. An emergency shall be established by the criteria of T.C.A. 68-201-109 or other compelling reasons that public welfare is being adversely affected by the operation of a source that is in compliance with its permit requirements.
- (d) If the Administrator finds that cause exists to terminate, modify, or revoke and reissue a permit as identified in A13, he is required under federal rules to notify the Technical Secretary and the permittee of such findings in writing. Upon receipt of such notification, the Technical Secretary shall investigate the matter in order to determine if he agrees or disagrees with the Administrator's findings. If he agrees with the Administrator's findings, the Technical Secretary shall conduct the reopening in the following manner:
 - 1. The Technical Secretary shall, within 90 days after receipt of such notification, forward to EPA a proposed determination of termination, modification, or revocation and reissuance, as appropriate. If the Administrator grants additional time to secure permit applications or additional information from the permittee, the Technical Secretary shall have the additional time period added to the standard 90 day time period.
 - 2. EPA will evaluate the Technical Secretary's proposed revisions and respond as to their evaluation.
 - 3. If EPA agrees with the proposed revisions, the Technical Secretary shall proceed with the reopening in the same manner prescribed under Condition A13 (b) and Condition A13 (c).
 - 4. If the Technical Secretary disagrees with either the findings or the Administrator that a permit should be reopened or an objection of the Administrator to a proposed revision to a permit submitted pursuant to Condition A13(d), he shall bring the matter to the Board at its next regularly scheduled meeting for instructions as to how he should proceed. The permittee shall be required to file a written brief expressing their position relative to the Administrator's objection and have a responsible official present at the meeting to answer questions for the Board. If the Board agrees that EPA is wrong in their demand for a permit revision, they shall

instruct the Technical Secretary to conform to EPA's demand, but to issue the permit under protest preserving all rights available for litigation against EPA.

TAPCR 1200-03-09-.02(11)(f)6 and 7.

A14. Permit transference. An administrative permit amendment allows for a change of ownership or operational control of a source where the Technical Secretary determines that no other change in the permit is necessary, provided that the following requirements are met:

- (a) Transfer of ownership permit application is filed consistent with the provisions of 1200-03-09-.03(6), and
- (b) written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new permittee has been submitted to the Technical Secretary.

TAPCR 1200-03-09-.02(11)(f)4(i)(IV) and 1200-03-09-.03(6)

A15. Air pollution alert. When the Technical Secretary has declared that an air pollution alert, an air pollution warning, or an air pollution emergency exists, the permittee must follow the requirements for that episode level as outlined in TAPCR 1200-03-09-.03(1) and TAPCR 1200-03-15-.03.

A16. Construction permit required. Except as exempted in TAPCR 1200-03-09-.04, or excluded in subparagraph TAPCR 1200-03-02-.01(1)(aa) or subparagraph TAPCR 1200-03-02-.01(1)(cc), this facility shall not begin the construction of a new air contaminant source or the modification of an air contaminant source which may result in the discharge of air contaminants without first having applied for and received from the Technical Secretary a construction permit for the construction or modification of such air contaminant source.

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

A17. Notification of changes. The permittee shall notify the Technical Secretary 30 days prior to commencement of any of the following changes to an air contaminant source which would not be a modification requiring a construction permit.

- (a) change in air pollution control equipment
- (b) change in stack height or diameter
- (c) change in exit velocity of more than 25 percent or exit temperature of more than 15 percent based on absolute temperature.

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

A18. Schedule of compliance. The permittee will comply with any applicable requirement that becomes effective during the permit term on a timely basis. If the permittee is not in compliance the permittee must submit a schedule for coming into compliance which must include a schedule of remedial measure(s), including an enforceable set of deadlines for specific actions.

TAPCR 1200-03-09-.02(11)(d)3 and 40 CFR Part 70.5(c)

A19. Title VI.

- (a) The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR, Part 82, Subpart F, except as provided for motor vehicle air conditioners (MVACs) in Subpart B:
 - 1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to Section 82.156.
 - 2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to Section 82.158.

SECTION B

**GENERAL CONDITIONS for MONITORING,
REPORTING, and ENFORCEMENT**

B1. Recordkeeping. Monitoring and related record keeping shall be performed in accordance with the requirements specified in the permit conditions for each individual permit unit. In no case shall reports of any required monitoring and record keeping be submitted less frequently than every six months.

(a) Where applicable, records of required monitoring information include the following:

1. The date, place as defined in the permit, and time of sampling or measurements;
2. The date(s) analyses were performed;
3. The company or entity that performed the analysis;
4. The analytical techniques or methods used;
5. The results of such analyses; and
6. The operating conditions as existing at the time of sampling or measurement.

(b) Digital data accumulation which utilizes valid data compression techniques shall be acceptable for compliance determination as long as such compression does not violate an applicable requirement and its use has been approved in advance by the Technical Secretary.

TAPCR 1200-03-09-.02(11)(e)1(iii)

B2. Retention of monitoring data. The permittee shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

TAPCR 1200-03-09-.02(11)(e)1(iii)(II)II

B3. Reporting. Reports of any required monitoring and record keeping shall be submitted to the Technical Secretary in accordance with the frequencies specified in the permit conditions for each individual permit unit. Reports shall be submitted within 60 days of the close of the reporting period unless otherwise noted. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official. Reports required under "State only requirements" are not required to be certified by a responsible official.

TAPCR 1200-03-09-.02(11)(e)1(iii)

B4. Certification. Except for reports required under "State Only" requirements, any application form, report or compliance certification submitted pursuant to the requirements of this permit shall contain certification by a responsible official of truth, accuracy and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

TAPCR 1200-03-09-.02(11)(d)4

B5. Annual compliance certification. The permittee shall submit annually compliance certifications with terms and conditions contained in Sections A, B, D and E of this permit, including emission limitations, standards, or work practices. This compliance certification shall include all of the following (provided that the identification of applicable information may cross-reference the permit or previous reports, as applicable):

- (a) The identification of each term or condition of the permit that is the basis of the certification;
- (b) The identification of the method(s) or other means used by the owner or operator for determining the compliance status with each term and condition during the certification period;
- (c) Whether such method(s) or other means provide continuous or intermittent data. Such methods and other means shall include, at a minimum, the methods and means required by this permit. If necessary, the owner or operator also shall identify any other material information that must be included in the certification to comply with section

113(c)(2) of the Federal Act, which prohibits knowingly making a false certification or omitting material information;

- (d) The status of compliance with the terms and conditions of the permit for the period covered by the certification, including whether compliance during the period was continuous or intermittent. The certification shall be based on the method or means designated in B5(b) above. The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion* or exceedance** as defined below occurred; and
- (e) Such other facts as the Technical Secretary may require to determine the compliance status of the source.

* “Excursion” shall mean a departure from an indicator range established for monitoring under this paragraph, consistent with any averaging period specified for averaging the results of the monitoring.

** “Exceedance” shall mean a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of a percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring.

40 CFR Part 70.6(c)(5)(iii) as amended in the Federal Register Vol.62, No.204, October 22, 1997, pages 54946 and 54947

B6. Submission of compliance certification. The compliance certification shall be submitted to:

The Technical Secretary Division of Air Pollution Control ATTN: East Tennessee Permit Program William R. Snodgrass Tennessee Tower 312 Rosa L Parks Avenue, 15th Floor Nashville, TN 37243 e-mail: Air.Pollution.Control@tn.gov	and	Air and EPCRA Enforcement Branch US EPA Region IV 61 Forsyth Street, SW Atlanta, Georgia 30303
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TAPCR 1200-03-09-.02(11)(e)3(v)(IV)

B7. Emergency provisions. An emergency constitutes an affirmative defense to an enforcement action brought against this source for noncompliance with a technology based emission limitation due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

- (a) The affirmative defense of the emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:
 1. An emergency occurred and that the permittee can identify the probable cause(s) of the emergency. "Probable" must be supported by a credible investigation into the incident that seeks to identify the causes and results in an explanation supported by generally accepted engineering or scientific principles.
 2. The permitted source was at the time being properly operated. In determining whether or not a source was being properly operated, the Technical Secretary shall examine the source's written standard operating procedures which were in effect at the time of the noncompliance and any other code as detailed below that would be relevant to preventing the noncompliance. Adherence to the source's standard operating procedures will be the test of adequate preventative maintenance, careless operation, improper operation or operator error to the extent that such adherence would prevent noncompliance. The source's failure to follow recognized standards of practice to the extent that adherence to such a standard would have prevented noncompliance will disqualify the source from any claim of an emergency and an affirmative defense.

3. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit.
 4. The permittee submitted notice of the emergency to the Technical Secretary according to the notification criteria for malfunctions in rule 1200-03-20-.03. For the purposes of this condition, "emergency" shall be substituted for "malfunction(s)" in rule 1200-03-20-.03 to determine the relevant notification threshold. The notice shall include a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.
- (b) In any enforcement proceeding the permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (c) The provisions of this condition are in addition to any emergency, malfunction or upset requirement contained in Division 1200-03 or other applicable requirement.

TAPCR 1200-03-09-.02(11)(e)7

B8. Excess emissions reporting.

- (a) The permittee shall promptly notify the Technical Secretary when any emission source, air pollution control equipment, or related facility breaks down in such a manner to cause the emission of air contaminants in excess of the applicable emission standards contained in Division 1200-03 or any permit issued thereto, or of sufficient duration to cause damage to property or public health. The permittee must provide the Technical Secretary with a statement giving all pertinent facts, including the estimated duration of the breakdown. Violations of the visible emission standard which occur for less than 20 minutes in one day (midnight to midnight) need not be reported. Prompt notification will be within 24 hours of the malfunction and shall be provided by telephone to the Division's Nashville office. The Technical Secretary shall be notified when the condition causing the failure or breakdown has been corrected. In attainment and unclassified areas if emissions other than from sources designated as significantly impacting on a nonattainment area in excess of the standards will not and do not occur over more than a 24-hour period (or will not recur over more than a 24-hour period) and no damage to property and or public health is anticipated, notification is not required.
- (b) Any malfunction that creates an imminent hazard to health must be reported by telephone immediately to the Division's Nashville office at (615) 532-0554 and to the State Civil Defense.
- (c) A log of all malfunctions, startups, and shutdowns resulting in emissions in excess of the standards in Division 1200-03 or any permit issued thereto must be kept at the plant. All information shall be entered in the log no later than twenty-four (24) hours after the startup or shutdown is complete, or the malfunction has ceased or has been corrected. Any later discovered corrections can be added in the log as footnotes with the reason given for the change. This log must record at least the following:
1. Stack or emission point involved
 2. Time malfunction, startup, or shutdown began and/or when first noticed
 3. Type of malfunction and/or reason for shutdown
 4. Time startup or shutdown was complete or time the air contaminant source returned to normal operation
 5. The company employee making entry on the log must sign, date, and indicate the time of each log entry

The information under items 1. and 2. must be entered into the log by the end of the shift during which the malfunction or startup began. For any source utilizing continuous emission(s) monitoring, continuous emission(s) monitoring collection satisfies the above log keeping requirement.

TAPCR 1200-03-20-.03 and .04

- B9. Malfunctions, startups and shutdowns - reasonable measures required.** The permittee must take all reasonable measures to keep emissions to a minimum during startups, shutdowns, and malfunctions. These measures may include installation and use of alternate control systems, changes in operating methods or procedures, cessation of operation until the process equipment and/or air pollution control equipment is repaired, maintaining sufficient spare parts, use of overtime labor, use of

outside consultants and contractors, and other appropriate means. Failures that are caused by poor maintenance, careless operation or any other preventable upset condition or preventable equipment breakdown shall not be considered malfunctions. This provision does not apply to standards found in 40 CFR, Parts 60(Standards of performance for new stationary sources), 61(National emission standards for hazardous air pollutants) and 63(National emission standards for hazardous air pollutants for source categories). TAPCR 1200-03-20-.02

B10 (SM1). Reserved (SM1 removes this requirement).

B11. Report required upon the issuance of a notice of violation for excess emissions. The permittee must submit within twenty (20) days after receipt of the notice of violation, the data shown below to assist the Technical Secretary in deciding whether to excuse or validate the violation. If this data has previously been available to the Technical Secretary prior to the issuance of the notice of violation no further action is required of the violating source. However, if the source desires to submit additional information, then this must be submitted within the same twenty (20) day time period. The minimum data requirements are:

- (a) The identity of the stack and/or other emission point where the excess emission(s) occurred;
- (b) The magnitude of the excess emissions expressed in pounds per hour and the units of the applicable emission limitation and the operating data and calculations used in determining the magnitude of the excess emissions;
- (c) The time and duration of the emissions;
- (d) The nature and cause of such emissions;
- (e) For malfunctions, the steps taken to correct the situation and the action taken or planned to prevent the recurrence of such malfunctions;
- (f) The steps taken to limit the excess emissions during the occurrence reported, and
- (g) If applicable, documentation that the air pollution control equipment, process equipment, or processes were at all times maintained and operated in a manner consistent with good operating practices for minimizing emissions.

Failure to submit the required report within the twenty (20) day period specified shall preclude the admissibility of the data for consideration of excusal for malfunctions.

TAPCR 1200-03-20-.06(2), (3) and (4)

SECTION C

PERMIT CHANGES

C1. Operational flexibility changes. The source may make operational flexibility changes that are not addressed or prohibited by the permit without a permit revision subject to the following requirements:

- (a) The change cannot be subject to a requirement of Title IV of the Federal Act or Chapter 1200-03-30.
- (b) The change cannot be a modification under any provision of Title I of the federal Act or Division 1200-03.
- (c) Each change shall meet all applicable requirements and shall not violate any existing permit term or condition.
- (d) The source must provide contemporaneous written notice to the Technical Secretary and EPA of each such change, except for changes that are below the threshold of levels that are specified in Rule 1200-03-09-.04.
- (e) Each change shall be described in the notice including the date, any change in emissions, pollutants emitted, and any applicable requirements that would apply as a result of the change.
- (f) The change shall not qualify for a permit shield under the provisions of part 1200-03-09-.02(11)(e)6.
- (g) The permittee shall keep a record describing the changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes. The records shall be retained until the changes are incorporated into subsequently issued permits.

TAPCR 1200-03-09-.02(11)(a)4 (ii)

C2. Section 502(b)(10) changes.

- (a) The permittee can make certain changes without requiring a permit revision, if the changes are not modifications under Title I of the Federal Act or Division 1200-03 and the changes do not exceed the emissions allowable under the permit. The permittee must, however, provide the Administrator and Technical Secretary with written notification within a minimum of 7 days in advance of the proposed changes. The Technical Secretary may waive the 7 day advance notice in instances where the source demonstrates in writing that an emergency necessitates the change. Emergency shall be demonstrated by the criteria of TAPCR 1200-03-09-.02(11)(e)7 and in no way shall it include changes solely to take advantages of an unforeseen business opportunity. The Technical Secretary and EPA shall attach each such notice to their copy of the relevant permit.
- (b) The written notification must be signed by a facility Title V responsible official and include the following:
 - 1. a brief description of the change within the permitted facility;
 - 2. the date on which the change will occur;
 - 3. a declaration and quantification of any change in emissions;
 - 4. a declaration of any permit term or condition that is no longer applicable as a result of the change; and
 - 5. a declaration that the requested change is not a Title I modification and will not exceed allowable emissions under the permit.
- (c) The permit shield provisions of TAPCR 1200-03-09-.02(11)(e)6 shall not apply to Section 502(b)(10) changes.

TAPCR 1200-03-09-.02(11)(a)4 (i)

C3. Administrative amendment.

- (a) Administrative permit amendments to this permit shall be in accordance with 1200-03-09-.02(11)(f)4. The source may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request.

- (b) The permit shield shall be extended as part of an administrative permit amendment revision consistent with the provisions of TAPCR 1200-03-09-.02(11)(e)6 for such revisions made pursuant to item (c) of this condition which meet the relevant requirements of TAPCR 1200-03-09-.02(11)(e), TAPCR 1200-03-09-.02(11)(f) and TAPCR 1200-03-09-.02(11)(g) for significant permit modifications.
- (c) Proceedings to review and grant administrative permit amendments shall be limited to only those parts of the permit for which cause to amend exists, and not the entire permit.

TAPCR 1200-03-09-.02(11)(f)4

C4. Minor permit modifications.

- (a) The permittee may submit an application for a minor permit modification in accordance with TAPCR 1200-03-09-.02(11)(f)5(ii).
- (b) The permittee may make the change proposed in its minor permit modification immediately after an application is filed with the Technical Secretary.
- (c) Proceedings to review and modify permits shall be limited to only those parts of the permit for which cause to modify exists, and not the entire permit.
- (d) Minor permit modifications do not qualify for a permit shield.

TAPCR 1200-03-09-.02(11)(f)5(ii)

C5. Significant permit modifications.

- (a) The permittee may submit an application for a significant modification in accordance with TAPCR 1200-03-09-.02(11)(f)5(iv).
- (b) Proceedings to review and modify permits shall be limited to only those parts of the permit for which cause to modify exists, and not the entire permit.

TAPCR 1200-03-09-.02(11)(f)5(iv)

C6. New construction or modifications. Future construction at this facility that is subject to the provisions of TAPCR 1200-03-09-.01 shall be governed by the following:

- (a) The permittee shall designate in their construction permit application the route that they desire to follow for the purposes of incorporating the newly constructed or modified sources into their existing operating permit. The Technical Secretary shall use that information to prepare the operating permit application submittal deadlines in their construction permit.
- (b) Sources desiring the permit shield shall choose the administrative amendment route of TAPCR 1200-03-09-.02(11)(f)4 or the significant modification route of TAPCR 1200-03-09-.02(11)(f)5(iv).
- (c) Sources desiring expediency instead of the permit shield shall choose the minor permit modification procedure route of TAPCR 1200-03-09-.02(11)(f)5(ii) or group processing of minor modifications under the provisions of TAPCR 1200-03-09-.02(11)(f)5(iii) as applicable to the magnitude of their construction.

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

SECTION D

GENERAL APPLICABLE REQUIREMENTS

- D1. Visible emissions.** With the exception of air emission sources exempt from the requirements of TAPCR Chapter 1200-03-05 and air emission sources for which a different opacity standard is specifically provided elsewhere in this permit, the permittee shall not cause, suffer, allow or permit discharge of a visible emission from any air contaminant source with an opacity in excess of twenty (20) percent for an aggregate of more than five (5) minutes in any one (1) hour or more than twenty (20) minutes in any twenty-four (24) hour period; provided, however, that for fuel burning installations with fuel burning equipment of input capacity greater than 600 million btu per hour, the permittee shall not cause, suffer, allow, or permit discharge of a visible emission from any fuel burning installation with an opacity in excess of twenty (20) percent (6-minute average) except for one six minute period per one (1) hour of not more than forty (40) percent opacity. Sources constructed or modified after July 7, 1992 shall utilize 6-minute averaging.

Consistent with the requirements of TAPCR Chapter 1200-03-20, due allowance may be made for visible emissions in excess of that permitted under TAPCR 1200-03-05 which are necessary or unavoidable due to routine startup and shutdown conditions. The facility shall maintain a continuous, current log of all excess visible emissions showing the time at which such conditions began and ended and that such record shall be available to the Technical Secretary or his representative upon his request.

TAPCR 1200-03-05-.01(1), TAPCR 1200-03-05-.03(6) and TAPCR 1200-03-05-.02(1)

- D2. General provisions and applicability for non-process gaseous emissions.** Any person constructing or otherwise establishing a non-portable air contaminant source emitting gaseous air contaminants after April 3, 1972, or relocating an air contaminant source more than 1.0 km from the previous position after November 6, 1988, shall install and utilize the best equipment and technology currently available for controlling such gaseous emissions.

TAPCR 1200-03-06-.03(2)

- D3. Non-process emission standards.** The permittee shall not cause, suffer, allow, or permit particulate emissions from non-process sources in excess of the standards in TAPCR 1200-03-06.

- D4. General provisions and applicability for process gaseous emissions.** Any person constructing or otherwise establishing an air contaminant source emitting gaseous air contaminants after April 3, 1972, or relocating an air contaminant source more than 1.0 km from the previous position after November 6, 1988, shall install and utilize equipment and technology which is deemed reasonable and proper by the Technical Secretary.

TAPCR 1200-03-07-.07(2)

- D5. Particulate emissions from process emission sources.** The permittee shall not cause, suffer, allow, or permit particulate emissions from process sources in excess of the standards in TAPCR 1200-03-07.

- D6. Sulfur dioxide emission standards.** The permittee shall not cause, suffer, allow, or permit Sulfur dioxide emissions from process and non-process sources in excess of the standards in TAPCR 1200-03-14. Regardless of the specific emission standard, new process sources shall utilize the best available control technology as deemed appropriate by the Technical Secretary of the Tennessee Air Pollution Control Board.

- D7. Fugitive Dust.**

(a) The permittee shall not cause, suffer, allow, or permit any materials to be handled, transported, or stored; or a building, its appurtenances, or a road to be used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions shall include, but not be limited to, the following:

1. Use, where possible, of water or chemicals for control of dust in demolition of existing buildings or structures, construction operations, grading of roads, or the clearing of land;

2. Application of asphalt, oil, water, or suitable chemicals on dirt roads, material stock piles, and other surfaces which can create airborne dusts;
 3. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty materials. Adequate containment methods shall be employed during sandblasting or other similar operations.
- (b) The permittee shall not cause, suffer, allow, or permit fugitive dust to be emitted in such manner to exceed five (5) minutes per hour or twenty (20) minutes per day as to produce a visible emission beyond the property line of the property on which the emission originates, excluding malfunction of equipment as provided in Chapter 1200-03-20.

TAPCR 1200-03-08

- D8. Open burning.** The permittee shall comply with the TAPCR 1200-03-04 for all open burning activities at the facility.

TAPCR 1200-03-04

- D9. Asbestos.** Where applicable, the permittee shall comply with the requirements of 1200-03-11-.02(2)(d) when conducting any renovation or demolition activities at the facility.

TAPCR 1200-03-11-.02(2)(d) and 40 CFR, Part 61

- D10. Annual certification of compliance.** The generally applicable requirements set forth in Section D of this permit are intended to apply to activities and sources that are not subject to source-specific applicable requirements contained in State of Tennessee and U.S. EPA regulations. By annual certification of compliance, the permittee shall be considered to meet the monitoring and related record keeping and reporting requirements of TAPCR 1200-03-09-.02(11)(e)1.(iii) and 1200-03-10-.04(2)(b)1 and compliance requirements of TAPCR 1200-03-09-.02(11)(e)3.(i). The permittee shall submit compliance certification for these conditions annually.

SECTION E

SOURCE SPECIFIC EMISSION STANDARDS, OPERATING LIMITATIONS, and MONITORING, RECORDKEEPING and REPORTING REQUIREMENTS

82-0003	Facility Description:	Eastman Chemical Company - Tennessee Eastman Division facility in Kingsport manufactures chemicals, fibers, and plastics. MSOP-09 for Title V permitting purposes includes polyester polymer and plastics manufacturing and associated material handling operations.
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Conditions E1 and E2 apply to all sources in Section E of this permit unless otherwise noted.

E1 (SM2). **Fee payment: allowable emissions basis.**

FEE EMISSIONS SUMMARY TABLE FOR MAJOR SOURCE 82-0003 MSOP-09			
REGULATED POLLUTANTS	ALLOWABLE EMISSIONS (tons per AAP)	ACTUAL EMISSIONS (tons per AAP)	COMMENTS
PARTICULATE MATTER (PM)	22.61	N/A	Includes all fee emissions.
PM₁₀	N/A	N/A	N/A
SO₂	0.24	N/A	N/A
VOC	511.35 (SM2)	N/A	Includes family of gaseous HAPS without a standard. See notes below.
NO_x	1.93	N/A	Maximum actual based emissions.
CATEGORY OF MISCELLANEOUS HAZARDOUS AIR POLLUTANTS (HAP WITHOUT A STANDARD)*			
VOC FAMILY GROUP	405.37 (SM2)	N/A	Fee emissions are included in VOC above. Maximum actual based HAP emissions.
NON-VOC GASEOUS GROUP	N/A	N/A	N/A
PM FAMILY GROUP	N/A	N/A	Fee emissions are included in PM above. Maximum actual based HAP emissions.
CATEGORY OF SPECIFIC HAZARDOUS AIR POLLUTANTS (HAP WITH A STANDARD)**			
VOC FAMILY GROUP			Fee emissions are not included in VOC above. Maximum actual based HAP emissions.
Methanol	38.23 (SM2)	N/A	MACT 40 CFR Part 63, Subpart JJJ (Group IV Polymers and Resins); 40 CFR 63 Subpart FFFF (Miscellaneous Organic Chemicals Manufacturing)
Ethylene Glycol	21.14 (SM2)	N/A	
Biphenyl	9.71	N/A	
Acetaldehyde	5.8	N/A	
1,4 Dioxane	0.53	N/A	
NON-VOC GASEOUS GROUP	N/A	N/A	N/A
PM FAMILY GROUP	N/A	N/A	N/A
CATEGORY OF NSPS POLLUTANTS NOT LISTED ABOVE***			
EACH NSPS POLLUTANT NOT LISTED ABOVE	N/A	N/A	N/A

NOTES

AAP The **Annual Accounting Period (AAP)** is a twelve (12) consecutive month period that **begins each July 1st and ends June 30th of the following year**. The **present Annual Accounting Period began July 1, 2014 and ends June 30, 2015**. The **next Annual Accounting Period begins July 1, 2015 and ends June 30, 2016**.

N/A N/A indicates that no emissions are specified for fee computation.

AEAR **AEAR** indicates that an **Actual Emissions Analysis** is **Required** to determine the actual emissions of:

- (1) **each regulated pollutant** (Particulate matter, SO₂, VOC, NO_x and so forth. See TAPCR 1200-03-26-.02(2)(i) for the definition of a regulated pollutant.),
- (2) **each pollutant group** (VOC Family, Non-VOC Gaseous, and Particulate Family), and
- (3) the **Miscellaneous HAP Category** under consideration during the **Annual Accounting Period**.

* **Category Of Miscellaneous HAP (HAP Without A Standard):** This category is made-up of hazardous air pollutants that do not have a federal or state standard. Each HAP is classified into one of three groups, the **VOC Family** group, the **Non-VOC Gaseous** group, or the **Particulate (PM) Family** group. **For fee computation**, the **Miscellaneous HAP Category** is subject to the 4,000 ton cap provisions of subparagraph 1200-03-26-.02(2)(i).

** **Category Of Specific HAP (HAP With A Standard):** This category is made-up of hazardous air pollutants (HAP) that are subject to Federally promulgated Hazardous Air Pollutant Standards that can be imposed under Chapter 1200-03-11 or Chapter 1200-03-31. Each individual hazardous air pollutant is classified into one of three groups, the **VOC Family** group, the **Non-VOC Gaseous** group, or the **Particulate (PM) Family** group. **For fee computation**, each individual hazardous air pollutant of the **Specific HAP Category** is subject to the 4,000 ton cap provisions of subparagraph 1200-03-26-.02(2)(i).

*** **Category Of NSPS Pollutants Not Listed Above:** This category is made-up of each New Source Performance Standard (NSPS) pollutant whose emissions are not included in the **PM, SO₂, VOC or NO_x** emissions from each source in this permit. **For fee computation**, each **NSPS pollutant not listed above** is subject to the 4,000 ton cap provisions of subparagraph 1200-03-26-.02(2)(i).

The permittee shall: Pay major source annual **allowable based emission fees**, as requested by the responsible official, in accordance with the above **Fee Emissions Summary Table** for the **current** annual accounting period that began July 1, **2014**.

The Tennessee Air Pollution Control Division will bill the permittee no later than April 1 prior to the end of each **annual accounting period**. The annual emission fee is due July 1 following the end of each **annual accounting period**. If any part of any fee imposed under TAPCR 1200-03-26-.02 is not paid within fifteen (15) days of the due date, penalties shall at once accrue as specified in TAPCR 1200-03-26-.02(8). Emissions for regulated pollutants shall not be double counted as specified in Condition A8(d) of this permit.

Payment of the fee due shall be submitted to the following address:

Tennessee Department of Environment and Conservation
Division of Fiscal Services
Consolidated Fee Section – APC
William R. Snodgrass Tennessee Tower
312 Rosa L Parks Avenue, 10th Floor
Nashville, TN 37243

TAPCR 1200-03-26-.02 (3) and (9), and 1200-03-09-.02(11)(e)1 (iii) and (vii)

E2. General Facility Conditions**E2-1 (SM2). Reporting requirements.**

- (a) **Semiannual reports.** The semiannual reports shall cover the six-month periods from **January 1** to **June 30** of each calendar year and from **July 1** through **December 31** of each calendar year. The reports shall be submitted within 60 days after the end of each six-month reporting period. Semiannual reports of this facility (**82-0003-MSOP-09**) shall include:
- (1) Any monitoring and recordkeeping required by Conditions **E3-2, E3-5, E5-3, E6-2, E6-9, E8-3, E8-5, E9-2, E10-2, E10-4, E10-7, E11-2, E11-8, E11-9, and E11-10** of this permit. A summary report of this data is acceptable provided there is sufficient information to enable the Technical Secretary to evaluate compliance.
 - (2) The MACT reports required by 40 CFR 63 Subpart A (Conditions **E3-4, E3-13, E6-7, E6-10, E8-9, E9-7, E10-9, and E11-12**), 40 CFR 63 Subpart JJJ (Conditions **E3-3, E6-6, E8-8, E9-4, and E11-5**), and 40 CFR 63 Subpart FFFF** (Conditions **E3-14, E6-11, E8-10, E9-8, E10-10, and E11-13**).
- ** **Note to Condition E2-1(a)(2):**
- (i) Portions of the Tritan MCPU are found in MSOP 09, MSOP 19, MSOP 24, and MSOP 31. The semiannual reporting requirement for this permit includes only the portions of the Tritan MCPU that are in MSOP-09.
- (3) The NSPS reports required by 40 CFR 63 Subpart A (Conditions **E3-11, E6-12, E8-14, E9-9, and E11-6**), 40 CFR 60 Subpart NNN (Conditions **E3-10, E8-11, and E9-6**), 40 CFR 60 Subpart RRR (Condition **E8-13**), and 40 CFR 60 Subpart VVa (Conditions **E3-12, E6-13, E8-15, E9-10, and E11-14**).
 - (4) The visible emission evaluation readings from Conditions **E3-7, E6-5, E7-2, E8-2, E9-3, E10-5, E11-3, and E12-1** of this permit, if required. A summary report of this data is acceptable provided there is sufficient information to enable the Technical Secretary to evaluate compliance.
 - (5) Identification of all instances of deviations from **ALL PERMIT REQUIREMENTS**.

These reports must be certified by a responsible official consistent with Condition B4 of this permit and shall be submitted to The Technical Secretary at the address in Condition E2-1(b) of this permit.

TAPCR 1200-03-09-.02(11)(e)1.(iii)

- (b) **Annual compliance certification.** The permittee shall submit annually compliance certifications with terms and conditions contained in Sections A, B, D and E of this permit, including emission limitations, standards, or work practices. This compliance certification shall include all of the following (provided that the identification of applicable information may cross-reference the permit or previous reports, as applicable):
- (1) The identification of each term or condition of the permit that is the basis of the certification;
 - (2) The identification of the method(s) or other means used by the owner or operator for determining the compliance status with each term and condition during the certification period;
 - (3) Whether such method(s) or other means provide continuous or intermittent data. Such methods and other means shall include, at a minimum, the methods and means required by this permit. If necessary, the owner or operator also shall identify any other material information that must be included in the certification to comply with section 113(c)(2) of the Federal Act, which prohibits knowingly making a false certification or omitting material information;

- (4) The status of compliance with the terms and conditions of the permit for the period covered by the certification, including whether compliance during the period was continuous or intermittent. The certification shall be based on the method or means designated in E2-1(b)(2) above. The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an *excursion or **exceedance as defined below occurred; and
- (5) Such other facts as the Technical Secretary may require to determine the compliance status of the source.
- * “Excursion” shall mean a departure from an indicator range established for monitoring under this paragraph, consistent with any averaging period specified for averaging the results of the monitoring.
- ** “Exceedance” shall mean a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of a percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring.

Annual compliance certifications shall cover the 12-month periods from July 1 of each calendar year to June 30 of the following calendar year and shall be submitted within 60 days after the 12-month reporting period:

These certifications shall be submitted to: Tennessee Division of Air Pollution Control TN APCD and EPA

**The Technical Secretary
Division of Air Pollution Control
East Tennessee Permit Program
William R. Snodgrass Tennessee Tower
312 Rosa L Parks Avenue, 15th Floor
Nashville, TN 37243
e-mail: Air.Pollution.Control@tn.gov**

and

**Air and EPCRA Enforcement Branch
US EPA Region IV
61 Forsyth Street, SW
Atlanta, Georgia 30303**

40 CFR Part 70.6(c)(5)(iii) as amended in the Federal Register Vol.62, No.204, October 22, 1997, pages 54946 and 54947

- (c) **Accidental Release Plan.** In accordance with Section 112(r) of the Clean Air Act and Rule 1200-03-32-.03(1) of Tennessee Air Pollution Control Regulations, the permittee has filed a copy of the accidental release plan for this facility. This plan has been filed with both EPA Region IV and the Division of Air Pollution Control. The permittee shall annually certify in writing to the Technical Secretary that they are properly following their accidental release plan. Such certification is due no later than January 31 for the preceding calendar year in accordance with 1200-03-32-.03(3) of TAPCR.

E2-2. Conservation Vent Maintenance:

For storage or process vessels subject to emission limitations based upon TAPCR 1200-03-07-.07(2):

Where removal of a pressure relief device such as a conservation vent from a storage or process vessel would otherwise result in excess emissions, the owner or operator is permitted to remove the pressure relief device provided the following applicable conditions are met:

For vessels which under normal operating conditions vent to a downstream piece of process or control equipment, a pressure relief device may be removed for up to a five (5) day period of time for maintenance, replacement, calibration, or inspection, under the following conditions:

- (a) Upward level movement of liquid within the vessel is restricted to ten percent of the vessel height during the period in which the pressure relief device is removed, or
- (b) Emissions of air contaminants due to working losses and inert gas purge losses are restricted to 100 pounds per day as determined by standard engineering estimation methods during the period in which the pressure relief device is removed.

Emissions occurring during the period of time the pressure relief device is removed shall not be considered excess emissions.

E2-3. Internal Combustion Engines

Internal combustion engines burning natural gas, gasoline, or diesel fuel including stationary reciprocating engines, internal combustion (IC) engine driven compressors, and IC driven water pumps shall qualify as insignificant emissions units under 1200-03-09-.04(5)(a)4.(i) as long as (1) the engine is not subject to a federal applicable requirement under 40 CFR Parts 60 or 63; and (2) the owner or operator maintains records of fuel usage or operating hours that demonstrate the emission thresholds included in 1200-03-09-.04(5)(a)4.(i) are met on an annual basis for each engine. The owner or operator shall utilize the emission factors found in the EPA document AP-42, Fifth Edition, Volume I, Section 3.3 Gasoline and Diesel Industrial Engines or some other alternative means approved by the Technical Secretary when making this demonstration. This permit condition does not apply to equipment used exclusively for emergency replacement or standby service.

E2-4. Recordkeeping: Data Entry Requirements

- a) For monthly recordkeeping, all data, including results of all calculations, must be entered into the log no later than thirty (30) days from the end of the month for which the data is required.
- b) For weekly recordkeeping, all data, including results of all calculations, must be entered into the log no later than fourteen (14) days from the end of the week for which the data is required.
- c) For daily recordkeeping, all data, including results of all calculations, must be entered into the log no later than fourteen (14) days from the end of the day for which the data is required.

TAPCR 1200-03-10-.02(1)(a)

E2-5. Visible Emissions Evaluation: General Requirements

For all emission sources that use opacity matrix decision trees (Attachment 1) to comply with any visible emissions requirement, including emission sources for which visible emissions are not required by the opacity matrix, if the magnitude and frequency of excursions reported by the permittee in the periodic monitoring for emissions is unsatisfactory to the Technical Secretary, this permit may be reopened to impose additional opacity monitoring requirements.

TAPCR 1200-03-10-.02(1)(a)

E2-6 (SM1). Identification of Responsible Official, Technical Contact, and Billing Contact

- (a) The applications that were utilized in the preparation of this permit are dated April 24, 2013, June 18, 2013, August 17, 2013, March 20, 2014, and April 9, 2014, and December 17, 2014. The application dated December 17, 2014, identifies F. Allen Booth, Polymers Division Superintendent, as the Responsible Official for this permit. If this person terminates his employment or is assigned different duties such that he is no longer a Responsible Official for this facility as defined in part 1200-03-09-.02(11)(b)21 of the Tennessee Air Pollution Control Regulations, the owner or operator of this air contaminant source shall notify the Technical Secretary of the change. Said notification must be in writing and must be submitted within thirty (30) days of the change. The notification shall include the name and title of the new Responsible Official and certification of truth and accuracy. All representations, agreement to terms and conditions, and covenants made by the former Responsible Official that were used in the establishment of the permit terms and conditions will continue to be binding on the facility until such time that a revision to this permit is obtained that would change said representations, agreements, and/or covenants.
- (b) The applications that were utilized in the preparation of this permit are dated April 24, 2013, June 18, 2013, August 17, 2013, March 20, 2014, and April 9, 2014, and December 17, 2014, and identify Steve Moore, Senior Environmental Representative as the Principal Technical Contact for the permitted facility. If this person terminates his employment or is assigned different duties such that he is no longer the Principal Technical Contact for this facility, the owner or operator of this air contaminant source shall notify the Technical Secretary of the change. Said

notification must be in writing and must be submitted within thirty (30) days of the change. The notification shall include the name and title of the new Principal Technical Contact and certification of truth and accuracy.

- (c) The applications that were utilized in the preparation of this permit are dated April 24, 2013, June 18, 2013, August 17, 2013, March 20, 2014, and April 9, 2014, and December 17, 2014. The Billing Contact for the permitted facility is Hanneke Counts, Director, Global Environmental Affairs. If this person terminates her employment or is assigned different duties such that she is no longer the Billing Contact for this facility, the owner or operator of this air contaminant source shall notify the Technical Secretary of the change. Said notification must be in writing and must be submitted within thirty (30) days of the change. The notification shall include the name and title of the new Billing Contact and certification of truth and accuracy.

Polyester Polymer Manufacturing (82-1004-14)
Emission Source Specific Operating Permit Conditions*
Conditions E3-1 through E3-14 Apply to Source 82-1004-14

1. EASTMAN SOURCE NUMBER		2. EMISSION SOURCE DESCRIPTION		3. EMISSION SOURCE REFERENCE NUMBER		4. MSOP NUMBER		5. PERMIT NUMBER	
PES B-226P-1		Polyester Polymer Manufacturing		82-1004-14		MSOP-09		567375	
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									
E3-1	Entire Source (excluding fugitive equipment leaks from pumps, valves, flanges etc.)	VOC	1200-03-07-.07(2) Permit 967183P, Condition E3-1.	40.14 tons/year	Engineering Assessment	Vents 1A, 1B, 1C, 1E, 1Q, 1R, 1U, 1V, 1W, 1X, 1Y, 2A, 2B, 2D, 2E, 2F, 2G, 4A, 4B, 4C, 4D, 4I, 4K, 4L, 4M, 4N, 4O, 4P, 4Q, 4S, 4T, 4U, 4V, 4W, 4X, 5A, 6A, 6B, 6F, 6G, 8B, and 8E – Certification Vents 8A and 8F – Monitoring, recordkeeping, and reporting required by ID Limitation E3-2 will assure compliance with this limit. Vents 2C, 3B, 5C - Monitoring, recordkeeping, and reporting required by ID Limitation E3-3 will assure compliance with this limit.			
E3-2	Vents 2B, 2C, 2D, 2E, 3B, 4A, 4B, 4C, 4D, 4I, 4K, 4L, 4M, 4N, 4O, 4P, 4Q, 4S, 4T, 4W, 5A, 5C, 6A, 6B, 8A, 8B, and 8F	VOC	1200-03-07-.07(2). Permit 967183P, Condition E3-2.	6.40 lb/hr	EPA Method 18	Vents 2B, 2D, 2E, 4A, 4B, 4C, 4D, 4I, 4K, 4L, 4M, 4N, 4O, 4P, 4Q, 4S, 4T, 4W, 5A, 6A, 6B, and 8B – Certification Vents 2C, 3B, and 5C: Monitoring required by ID Limitation E3-3 will assure compliance with this limit. Vent 8A – Recordkeeping: Maintain Log of dryer production rate. See Operating Plan in the Title V application dated June 18, 2013, PES B-226P-1, page 98. Vent 8F: Parametric monitoring: Catalytic oxidizer inlet temperature. See Operating Plan in the Title V application dated June 18, 2013, PES B-226P-1, page 97.			
E3-3	Thermoplastic Product Process Unit (TPPU) - TPA Continuous	HAPS	40 CFR 63 Subpart JJJ – National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers & Resins A listing of specific applicability determinations for 40 CFR Parts 60 and 63 in effect as of the issuance date of this permit is found in Attachment 2. Changes that result in a change of applicability shall follow the procedures in Section C of this permit and shall include an update to Attachment 2.						
E3-4	Thermoplastic Product Process Unit (TPPU) - PET Process Line	HAPs	40 CFR 63 Subpart A – General Provisions						

* See Table Notes for additional clarification of permit conditions.

**Polyester Polymer Manufacturing (82-1004-14)
 Emission Source Specific Operating Permit Conditions*
 Conditions E3-1 through E3-14 Apply to Source 82-1004-14**

1. EASTMAN SOURCE NUMBER		2. EMISSION SOURCE DESCRIPTION		3. EMISSION SOURCE REFERENCE NUMBER		4. MSOP NUMBER		5. PERMIT NUMBER	
PES B-226P-1		Polyester Polymer Manufacturing		82-1004-14		MSOP-09		567375	
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	Flow Diagram Point 9A (Equipment Leaks)	VOC	TAPCR 1200-03-07-.07(2). Permit 967183P, Condition E3-5.	Quarterly Leak Detection and Repair (Fugitive VOC Emissions from pumps, valves, flanges, etc. are estimated at 18.16 tons/year)	See Item 10	See Item 10			
E3-6	Vents 7B, 7D, 7E, 8A, 8C, and 8D	Particulates	TAPCR 1200-03-07-.01(5), agreement letter dated April 15, 1986 authorizing lower than allowable particulate emission rates as shown on permit applications. Permit 967183P, Condition E3-6.	0.34 lb/hr	EPA Method 5	Certification			
E3-7	Entire Source	Visible Emissions	TAPCR 1200-03-05. Permit 967183P, Condition E3-7.	20% Opacity	EPA Method 9	Visible Emissions Evaluation: Emission units requiring initial VEEs – None, per TAPCD Opacity Matrix dated September 11, 2013.			
E3-8	HE-102, VEG, TEG, CT-54, WT-54, D-DMI-1, HE-100, FE-203, FE-204, FE-205, HE-101, FE-100, FE-101, KB-05, KB-06, FE-200, FM-40, SB-01, and SB-02	VOC	1200-03-07-.07(2). Permit 967183P, Condition E3-8.	11.63 tons/year	Engineering Assessment	Certification			
E3-9	Entire Source, excluding fugitive equipment leaks	Particulates	TAPCR 1200-03-07-.01(5). Permit 967183P, Condition E3-9.	1.5 tons/year	Engineering Assessment	Certification			

* See Table Notes for additional clarification of permit conditions.

Polyester Polymer Manufacturing (82-1004-14)
Emission Source Specific Operating Permit Conditions*
Conditions E3-1 through E3-14 Apply to Source 82-1004-14

1. EASTMAN SOURCE NUMBER		2. EMISSION SOURCE DESCRIPTION		3. EMISSION SOURCE REFERENCE NUMBER		4. MSOP NUMBER		5. PERMIT NUMBER	
PES B-226P-1		Polyester Polymer Manufacturing		82-1004-14		MSOP-09		567375	
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									
E3-10	Portion of Source Subject to NSPS	VOC	40 CFR 60 Subpart NNN – Standards of Performance for Volatile Organic Compound Emissions from Synthetic Organic Chemical Manufacturing Industry Distillation Operations A listing of specific applicability determinations for 40 CFR Parts 60 and 63 in effect as of the issuance date of this permit is found in Attachment 2. Changes that result in a change of applicability shall follow the procedures in Section C of this permit and shall include an update to Attachment 2.						
E3-11	B-Line Methanol Recovery Unit (Vent 2B)	VOC	40 CFR 60 Subpart A – General Provisions						
E3-12	Flow Diagram Point 9A - Equipment Leaks for Equipment in "VOC" Service	VOC	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 A listing of specific applicability determinations for 40 CFR Parts 60 and 63 in effect as of the issuance date of this permit is found in Attachment 2. Changes that result in a change of applicability shall follow the procedures in Section C of this permit and shall include an update to Attachment 2.						
E3-13	Miscellaneous Chemical Processing Units – PCT Melt Phase	HAP	40 CFR 63 Subpart A – General Provisions						
E3-14	Miscellaneous Chemical Processing Units - PCT Melt Phase	HAP	40 CFR 63 Subpart FFFF– National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing A listing of specific applicability determinations for 40 CFR Parts 60 and 63 in effect as of the issuance date of this permit is found in Attachment 2. Changes that result in a change of applicability shall follow the procedures in Section C of this permit and shall include an update to Attachment 2.						

* See Table Notes for additional clarification of permit conditions.

**Polyester Polymer Manufacturing (82-1006-93)
 Emission Source Specific Operating Permit Conditions*
 Conditions E4-1 through E4-2 Apply to Source 82-1006-93**

1. EASTMAN SOURCE NUMBER		2. EMISSION SOURCE DESCRIPTION		3. EMISSION SOURCE REFERENCE NUMBER		4. MSOP NUMBER		5. PERMIT NUMBER	
PES B-226MCS-1		Polyester Polymer Manufacturing		82-1006-93		MSOP-09		567375	
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									
E4-1	Entire Source, excluding fugitive equipment leaks	Particulates	TAPCR 1200-03-07-.01(5): Permit Number 967679P, Condition E4-1	1.80 lb/hr and 7.88 tons/year	lb/hr – EPA Method 5 tons/year - Engineering Assessment	Certification			
E4-2	Entire Source	Visible Emissions	TAPCR 1200-03-05: Permit Number 967679P, Condition E4-2	20% Opacity	EPA Method 9	Certification			

* See Table Notes for additional clarification of permit conditions.

Parts Cleaning Oven (82-1004-74)
Emission Source Specific Operating Permit Conditions*
Conditions E5-1 through E5-5 Apply to Source 82-1004-74

1. EASTMAN SOURCE NUMBER		2. EMISSION SOURCE DESCRIPTION		3. EMISSION SOURCE REFERENCE NUMBER		4. MSOP NUMBER		5. PERMIT NUMBER	
PES B-227A-1		Parts Cleaning Oven		82-1004-74		MSOP-09		567375	
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									
E5-1	Entire Source	Particulates	TAPCR 1200-03-07-.01(5): Permit Number 953271P, Condition 3	0.06 lb/hr and 0.16 tons/year	EPA Method 5 – lb/hr Engineering Assessment – tons/year	Certification			
E5-2	Entire Source	Visible Emissions	TAPCR 1200-03-05: Permit Number 953271P, Condition 4	20% Opacity	EPA Method 9	Certification			
E5-3	Vent K	N/A	TAPCR 1200-03-06-.02: Non-process gaseous emission standard for this source constructed after April 3, 1972 – best currently available equipment and technology	121 days of operation per calendar year	N/A	Vent K – Recordkeeping: Maintain log of days of operation. See Operating Plan in the Title V Application dated June 18, 2013, PES B-227A-1, page 11.			
E5-4	Vent K	N/A	TAPCR 1200-03-06-.02: Non-process gaseous emission standard for this source constructed after April 3, 1972 – best currently available equipment and technology	Only propane shall be used as fuel for this source	N/A	Certification			
E5-5	Entire Source	VOC	TAPCR 1200-03-06-.02: Non-process gaseous emission standard for this source constructed after April 3, 1972 – best currently available equipment and technology	0.25 tons/year	Engineering Assessment	Certification			

* See Table Notes for additional clarification of permit conditions.

Polyester Polymer Manufacturing (82-0003-60)
Emission Source Specific Operating Permit Conditions*
Conditions E6-1 through E6-13 Apply to Source 82-0003-60

1. EASTMAN SOURCE NUMBER		2. EMISSION SOURCE DESCRIPTION		3. EMISSION SOURCE REFERENCE NUMBER		4. MSOP NUMBER		5. PERMIT NUMBER	
PES B-255-1		Polyester Polymer Manufacturing		82-0003-60		MSOP-09		567375	
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									
E6-1	Entire Source, excluding fugitive equipment leaks from pumps, valves, flanges, etc.	VOC	TAPCR 1200-03-07-.07(2): Permit Number 046768P, Condition 9 (Modified in Permit Number 955108P)	10.69 tons/year	Engineering Assessment	Vents 1A, 1B, 1C, 1D, 7D, 8B, 8C, 9A, A, B, C, D, E, F, G, H, S1, S3, U2, X1, X2, and Z3 – Certification Vent M1 – Monitoring, recordkeeping, and reporting required by ID Limitation E6-2 will assure compliance with this limit.			
E6-2	Vents 1C, 7D, 8B, 9A, M1, S1, X1, and X2	VOC	TAPCR 1200-03-07-.07(2): Permit Number 046768P, Condition 6 (Modified in Permit Number 955108P)	2.61 lb/hr	EPA Method 18	Vents 1C, 7D, 8B, 9A, S1, X1, and X2 – Certification Vent M1 – Monitoring Maintenance Procedures: Inspect Interlock. Refer to the Operating Plan in the Title V Application dated December 17, 2014, PES B-255-1, page 63.			
E6-3	Vents: 1A (Tank AZ-04) 1B (Tank AZ-05) 1D (Tank SB-51) A (Tank JB-01) B (Tank JB-02) C (Tank JA-03) D (Tank JA-06) E (Tank JD-02) F (Tank JD-03) G (Tank JF-01) H (UVI-50) S3 (Tank CY-D-46) Z3 (Tank AZ-03)	VOC	TAPCR 1200-03-07-.07(2): Permit Number 046768P, Condition 7	4.59 tons/year	Engineering Assessment	Certification			
E6-4	Entire Source	Particulates	TAPCR 1200-03-07-.01(5): Permit Number 046768P, Condition 11	1.76 tons/year	Engineering Assessment	Certification			

* See Table Notes for additional clarification of permit conditions.

Polyester Polymer Manufacturing (82-0003-60)
Emission Source Specific Operating Permit Conditions*
Conditions E6-1 through E6-13 Apply to Source 82-0003-60

1. EASTMAN SOURCE NUMBER		2. EMISSION SOURCE DESCRIPTION		3. EMISSION SOURCE REFERENCE NUMBER		4. MSOP NUMBER		5. PERMIT NUMBER	
PES B-255-1		Polyester Polymer Manufacturing		82-0003-60		MSOP-09		567375	
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									
E6-5	Entire Source	Visible Emissions	TAPCR 1200-03-05: Permit Number 046768P, Condition 12	20% Opacity	EPA Method 9	Visible Emissions Evaluation: Emission units requiring initial VEEs – None, per TAPCD Opacity Matrix dated September 11, 2013.			
E6-6 (SM2)	Thermoplastic Product Process Unit (TPPU) - DMT Continuous	HAPs	40 CFR 63 Subpart JJJ – National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers & Resins A listing of specific applicability determinations for 40 CFR Parts 60 and 63 in effect as of the issuance date of this permit is found in Attachment 2. Changes that result in a change of applicability shall follow the procedures in Section C of this permit and shall include an update to Attachment 2.						
E6-7 (SM2)	Thermoplastic Product Process Units, Miscellaneous Chemical Processing Units	HAPs	40 CFR 63 Subpart A – General Provisions						
E6-8	Vents P1, P2, P3, T5, T6, X1, and X2	Particulates	TAPCR 1200-03-07-.01(5): Permit Number 046768P, Condition 10	0.40 lb/hr	EPA Method 5	Certification			
E6-9 (SM2)	Flow Diagram Point U1 (Equipment Leaks)	VOC	TAPCR 1200-03-07-.07(2): Permit Number 046768P, Condition 8 (Modified in Permit Number 955108P)	Quarterly Leak Inspection and Repair (Fugitive VOC Emissions from pumps, valves, flanges, etc. are estimated at 17.59 tons/year)	See Item 10	See Item 10			
E6-10 (SM2)	Reserved. SM2 deletes this requirement.								
E6-11	Miscellaneous Chemical Processing Units (MCPU): Solid Stating	HAP	40 CFR 63 Subpart FFFF– National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing A listing of specific applicability determinations for 40 CFR Parts 60 and 63 in effect as of the issuance date of this permit is found in Attachment 2. Changes that result in a change of applicability shall follow the procedures in Section C of this permit and shall include an update to Attachment 2.						

* See Table Notes for additional clarification of permit conditions.

Polyester Polymer Manufacturing (82-0003-60)
Emission Source Specific Operating Permit Conditions*
Conditions E6-1 through E6-13 Apply to Source 82-0003-60

1. EASTMAN SOURCE NUMBER PES B-255-1		2. EMISSION SOURCE DESCRIPTION Polyester Polymer Manufacturing		3. EMISSION SOURCE REFERENCE NUMBER 82-0003-60		4. MSOP NUMBER MSOP-09		5. PERMIT NUMBER 567375	
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									
E6-12 (SM2)	NSPS Affected Facility	VOC	40 CFR 60 Subpart A – General Provisions						
E6-13 (SM2)	NSPS Affected Facility	VOC	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 A listing of specific applicability determinations for 40 CFR Parts 60 and 63 in effect as of the issuance date of this permit is found in Attachment 2. Changes that result in a change of applicability shall follow the procedures in Section C of this permit and shall include an update to Attachment 2.						

(End of Conditions)

* See Table Notes for additional clarification of permit conditions.

Plastic Pellet Convey and Storage (82-1010-53)
Emission Source Specific Operating Permit Conditions*
Conditions E7-1 through E7-3 Apply to Source 82-1010-53

1. EASTMAN SOURCE NUMBER		2. EMISSION SOURCE DESCRIPTION		3. EMISSION SOURCE REFERENCE NUMBER		4. MSOP NUMBER		5. PERMIT NUMBER	
PES B-270MCS-1		Plastic Pellet Convey and Storage		82-1010-53		MSOP-09		567375	
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									
E7-1	Entire Source	Particulates	TAPCR 1200-03-07-.01(5), Permit Number 967680P, Condition E7-1	2.22 lb/hr	EPA Method 5	Certification			
E7-2	Entire Source	Visible Emissions	TAPCR 1200-03-05, Permit Number 967680P, Condition E7-2	20% Opacity	EPA Method 9	Visible Emissions Evaluation: Emission units requiring initial VEEs – None, per TAPCD Opacity Matrix dated September 11, 2013.			
E7-3	Entire Source	Particulates	TAPCR 1200-03-07-.01(5), Permit Number 967680P, Condition E7-3	9.62 tons/year	Engineering Assessment	Certification			

* See Table Notes for additional clarification of permit conditions.

Plastic Manufacturing Facilities (82-1010-43)
Emission Source Specific Operating Permit Conditions*
Conditions E8-1 through E8-15 Apply to Source 82-1010-43

1. EASTMAN SOURCE NUMBER		2. EMISSION SOURCE DESCRIPTION		3. EMISSION SOURCE REFERENCE NUMBER		4. MSOP NUMBER		5. PERMIT NUMBER	
PES B-270MP-1		Plastic Manufacturing Facilities		82-1010-43		MSOP-09		567375	
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									
E8-1 (SM1)	Entire Source, excluding fugitive equipment leaks from pumps, valves, flanges, etc.	VOC	TAPCR 1200-03-07-.07(2) TAPCR 1200-03-09-.01(4)(a)11. Construction Permit 968490P, Condition E8-1	1.15 tons/year	Engineering Assessment	Certification: Vents A, A12, A13, A15, B1, B2, C1, C2, C3, D2, D3, D4, D5, D6, D7, D8, E, E1, E2, and J Vent B3: Monitoring, recordkeeping, and reporting required by Condition E8-5 will assure compliance with this limit.			
E8-2	Entire Source	Visible Emissions	TAPCR 1200-03-05 Construction Permit 968490P, Condition E8-2	20% Opacity	EPA Method 9	Visible Emissions Evaluation: Emission units requiring initial VEEs – None, per TAPCD Opacity Matrix dated September 11, 2013.			
E8-3 (SM1)	Flow Diagram Point I (Equipment Leaks)	VOC	TAPCR 1200-03-07-.07(2) TAPCR 1200-03-09-.01(4)(a)11. Construction Permit 968490P, Condition E8-3	Quarterly leak Detection and Repair (Fugitive VOC Emissions from pumps, valves, flanges, etc. are estimated at 33.29 tons/year)	See Item 10	See Item 10			
E8-4	Tanks: GP01 and GP02 (Vent A15), DE-D-48B, -48C EE-D-48B, -48C; FE-D-48A, -48C (Vent D7), FE-D-48A, -48C GE-D-48B, -48C; JE-D-48A, -48C (Vent D8), DE-D-25 (Vent E), DE-D-26 (Vent E1), EE-D-25 (Vent E2)	VOC	TAPCR 1200-03-07-.07(2) Construction Permit 968490P, Condition E8-4	0.23 tons/year	EPA Method 18	Certification			

* See Table Notes for additional clarification of permit conditions.

**Plastic Manufacturing Facilities (82-1010-43)
 Emission Source Specific Operating Permit Conditions*
 Conditions E8-1 through E8-15 Apply to Source 82-1010-43**

1. EASTMAN SOURCE NUMBER		2. EMISSION SOURCE DESCRIPTION		3. EMISSION SOURCE REFERENCE NUMBER		4. MSOP NUMBER		5. PERMIT NUMBER	
PES B-270MP-1		Plastic Manufacturing Facilities		82-1010-43		MSOP-09		567375	
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									
E8-5	Vent B3	VOC	TAPCR 1200-03-07-.07(2) Construction Permit 968490P, Condition E8-5	0.08 lb/hr	Engineering Assessment	Parametric Monitoring: 24-hour block average flow rates for DL-02 and EL-02 scrubbers; 24-hour block average catalytic oxidizer inlet temperature. Source Testing: Annual performance test or catalytic activity test. See Operating Plan in the Title V application dated March 20, 2014, PES B-270MP-1, pages 66-67.			
E8-6	Vents F1, F2, and L	Particulates	TAPCR 1200-03-07-.01(5), Agreement Letter dated April 15, 1986. Construction Permit 968490P, Condition E8-6	0.06 lb/hr	EPA Method 5	Certification			
E8-7	Entire Source	Particulates	TAPCR 1200-03-07-.01(5) Construction Permit 968490P, Condition E8-7	0.26 tons/year	Engineering Assessment	Certification			
E8-8 (SM1)	Thermoplastic Product Process Unit (TPPU) – DMT Continuous	HAPs	40 CFR 63 Subpart JJJ – National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers & Resins A listing of specific applicability determinations for 40 CFR Parts 60 and 63 in effect as of the issuance date of this permit is found in Attachment 2. Changes that result in a change of applicability shall follow the procedures in Section C of this permit and shall include an update to Attachment 2.						
E8-9	Thermoplastic Product Process Unit (TPPU) Miscellaneous Chemical Manufacturing Units	HAPs	40 CFR 63 Subpart A – General Provisions						
E8-10 (SM1)	Miscellaneous Chemical Manufacturing Units (MCPUs) - Tritan	HAPs	40 CFR 63 Subpart FFFF – National Emission Standards for Hazardous Air Pollutant Emissions: Miscellaneous Organic Chemical Manufacturing. A listing of specific applicability determinations for 40 CFR Parts 60 and 63 in effect as of the issuance date of this permit is found in Attachment 2. Changes that result in a change of applicability shall follow the procedures in Section C of this permit and shall include an update to Attachment 2.						

* See Table Notes for additional clarification of permit conditions.

**Plastic Manufacturing Facilities (82-1010-43)
 Emission Source Specific Operating Permit Conditions*
 Conditions E8-1 through E8-15 Apply to Source 82-1010-43**

1. EASTMAN SOURCE NUMBER		2. EMISSION SOURCE DESCRIPTION		3. EMISSION SOURCE REFERENCE NUMBER		4. MSOP NUMBER		5. PERMIT NUMBER	
PES B-270MP-1		Plastic Manufacturing Facilities		82-1010-43		MSOP-09		567375	
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									
E8-11	Portions of Source Subject to NSPS NNN	VOC	40 CFR 60 Subpart NNN – Standards of Performance for VOC Emissions from SOCM I Distillation Operations. A listing of specific applicability determinations for 40 CFR Parts 60 and 63 in effect as of the issuance date of this permit is found in Attachment 2. Changes that result in a change of applicability shall follow the procedures in Section C of this permit and shall include an update to Attachment 2.						
E8-12 (SM1)	Reserved – SM1 deletes this requirement.								
E8-13 (SM1)	Portions of Source Subject to NSPS RRR	VOC	40 CFR 60 Subpart RRR – Standards of Performance for VOC Emissions from SOCM I Reaction Process. A listing of specific applicability determinations for 40 CFR Parts 60 and 63 in effect as of the issuance date of this permit is found in Attachment 2. Changes that result in a change of applicability shall follow the procedures in Section C of this permit and shall include an update to Attachment 2.						
E8-14	Portions of Source Subject to NSPS	VOC	40 CFR 60 Subpart A – General Provisions.						
E8-15 (SM1)	Flow Diagram Point 1 – Equipment Leaks for Equipment in VOC Service	VOC	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. A listing of specific applicability determinations for 40 CFR Parts 60 and 63 in effect as of the issuance date of this permit is found in Attachment 2. Changes that result in a change of applicability shall follow the procedures in Section C of this permit and shall include an update to Attachment 2.						

* See Table Notes for additional clarification of permit conditions.

Glycol Condensates Refining System (82-1010-42)
Emission Source Specific Operating Permit Conditions*
Conditions E9-1 through E9-10 Apply to Source 82-1010-42

1. EASTMAN SOURCE NUMBER		2. EMISSION SOURCE DESCRIPTION		3. EMISSION SOURCE REFERENCE NUMBER		4. MSOP NUMBER		5. PERMIT NUMBER	
PES B-270RC-1		Glycol Condensates Refining System		82-1010-42		MSOP-09		567375	
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									
E9-1 (SM1)	Entire source, excluding fugitive equipment leaks from pumps, valves, flanges, etc.	VOC	TAPCR 1200-03-07-.07(2) TAPCR 1200-03-09-.01(4)(a)11. Construction Permit 968490P, Condition E9-1	0.15 lb/hr and 0.93 tons/year	EPA Method 5	Certification			
E9-2 (SM1)	Flow Diagram Point G (Equipment Leaks)	VOC	TAPCR 1200-03-07-.07(2) TAPCR 1200-03-09-.01(4)(a)11. Construction Permit 968490P, Condition E9-2	Annual Leak Detection and Repair (Fugitive VOC Emissions from pumps, valves, flanges, etc. are estimated at 1.67 tons/year)	See Item 10	See Item 10			
E9-3	Entire Source	Visible Emissions	TAPCR 1200-03-05 Construction Permit 968490P, Condition E9-3	20% Opacity	EPA Method 9	Visible Emissions Evaluation: Emission units requiring initial VEEs – None, per TAPCD Opacity Matrix dated September 11, 2013.			
E9-4	Thermoplastic Product Process Unit (TPPU) – DMT Continuous	HAPs	40 CFR 63 Subpart JJJ – National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers & Resins A listing of specific applicability determinations for 40 CFR Parts 60 and 63 in effect as of the issuance date of this permit is found in Attachment 2. Changes that result in a change of applicability shall follow the procedures in Section C of this permit and shall include an update to Attachment 2.						
E9-5 (SM1)	Reserved – SM1 deletes this requirement.								
E9-6	Portions of Source Subject to NSPS NNN	VOC	40 CFR 60 Subpart NNN – Standards of Performance for VOC Emissions from SOCM Distillation Operations A listing of specific applicability determinations for 40 CFR Parts 60 and 63 in effect as of the issuance date of this permit is found in Attachment 2. Changes that result in a change of applicability shall follow the procedures in Section C of this permit and shall include an update to Attachment 2.						

* See Table Notes for additional clarification of permit conditions.

Glycol Condensates Refining System (82-1010-42)
Emission Source Specific Operating Permit Conditions*
Conditions E9-1 through E9-10 Apply to Source 82-1010-42

1. EASTMAN SOURCE NUMBER		2. EMISSION SOURCE DESCRIPTION		3. EMISSION SOURCE REFERENCE NUMBER		4. MSOP NUMBER		5. PERMIT NUMBER	
PES B-270RC-1		Glycol Condensates Refining System		82-1010-42		MSOP-09		567375	
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									
E9-7	Thermoplastic Product Process Unit (TPPU) Miscellaneous Chemical Manufacturing Units (MCPUs)	HAPs	40 CFR 63 Subpart A – General Provisions						
E9-8	Miscellaneous Chemical Manufacturing Units (MCPUs) - Tritan	HAPs	40 CFR 63 Subpart FFFF – National Emission Standards for Hazardous Air Pollutant Emissions: Miscellaneous Organic Chemical Manufacturing A listing of specific applicability determinations for 40 CFR Parts 60 and 63 in effect as of the issuance date of this permit is found in Attachment 2. Changes that result in a change of applicability shall follow the procedures in Section C of this permit and shall include an update to Attachment 2.						
E9-9	Portions of Source Subject to NSPS NNN	VOC	40 CFR 60 Subpart A – General Provisions						
E9-10 (SM1)	Flow Diagram Point G – Equipment Leaks for Equipment in VOC Service	VOC	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. A listing of specific applicability determinations for 40 CFR Parts 60 and 63 in effect as of the issuance date of this permit is found in Attachment 2. Changes that result in a change of applicability shall follow the procedures in Section C of this permit and shall include an update to Attachment 2.						

* See Table Notes for additional clarification of permit conditions.

**Polymer Solid Stating System (82-1010-94)
 Emission Source Specific Operating Permit Conditions*
 Conditions E10-1 through E10-10 Apply to Source 82-1010-94**

1. EASTMAN SOURCE NUMBER		2. EMISSION SOURCE DESCRIPTION		3. EMISSION SOURCE REFERENCE NUMBER		4. MSOP NUMBER		5. PERMIT NUMBER	
PES B-270SS-1		Polymer Solid Stating System		82-1010-94		MSOP-09		567375	
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									
E10-1	Vents A1, B2	Particulates	TAPCR 1200-03-07-.01(5): Permit Number 951090P, Condition 5	0.06 lb/hr	EPA Method 5	Certification			
E10-2	Vent B2	VOC	TAPCR 1200-03-07-.07(2): Permit Number 951090P, Condition 6	3.4 lb/hr	EPA Method 18	Recordkeeping: Maintain log of operating hours. See Operating Plan in the Title V Application dated June 18, 2013, PES B-270SS-1, page 20.			
E10-3	Tank: UJ-40 (Vent D1) UE-41 (Vent D2)	VOC	TAPCR 1200-03-07-.07(2): Permit Number 951090P, Condition 7	0.32 tons/year	Engineering Assessment	Certification			
E10-4	Flow Diagram Point F1 (Equipment Leaks)	VOC	TAPCR 1200-03-07-.07(2): Permit Number 951090P, Condition 8 (Modified in Permit Number 955108P)	Annual Leak Detection and Repair (Fugitive VOC Emissions from pumps, valves, flanges, etc. are estimated at 1.05 tons/year)	See Item 10	See Item 10			
E10-5	Entire Source	Visible Emissions	TAPCR 1200-03-05: Permit Number 951090P, Condition 9	20% Opacity	EPA Method 9	Visible Emissions Evaluation: Emission units requiring initial VEEs – None, per TAPCD Opacity Matrix dated September 11, 2013.			

* See Table Notes for additional clarification of permit conditions.

Polymer Solid Stating System (82-1010-94)
Emission Source Specific Operating Permit Conditions*
Conditions E10-1 through E10-10 Apply to Source 82-1010-94

1. EASTMAN SOURCE NUMBER		2. EMISSION SOURCE DESCRIPTION		3. EMISSION SOURCE REFERENCE NUMBER		4. MSOP NUMBER		5. PERMIT NUMBER	
PES B-270SS-1		Polymer Solid Stating System		82-1010-94		MSOP-09		567375	
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									
E10-6	Vents A1 and B2	Particulates	TAPCR 1200-03-07-.01(5): Permit Number 951090P, Condition 5	0.26 tons/year	Engineering Assessment	Certification			
E10-7	Entire source, excluding fugitive equipment leaks from pumps, valves, flanges, etc.	VOC	TAPCR 1200-03-07-.07(2): Permit Number 951090P, Condition 6	3.48 tons/year	Engineering Assessment	Vent B2: Monitoring, recordkeeping, and reporting required by ID Limitation E10-2 will assure compliance with this limit. Vent C3: Recordkeeping – log of calculated VOC emissions to U-Line scrubber. See Operating Plan in the Title V Application dated June 18, 2013, PES B-270SS-1, page 13. Vents D1 and D2: Certification			
E10-9	Miscellaneous Chemical Processing Units	HAP	40 CFR 63 Subpart A – General Provisions						
E10-10	Miscellaneous Chemical Processing Units – Solid Stating	HAP	40 CFR 63 Subpart FFFF– National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing A listing of specific applicability determinations for 40 CFR Parts 60 and 63 in effect as of the issuance date of this permit is found in Attachment 2. Changes that result in a change of applicability shall follow the procedures in Section C of this permit and shall include an update to Attachment 2.						

* See Table Notes for additional clarification of permit conditions.

Storage and Process Tanks (82-1010-19)
Emission Source Specific Operating Permit Conditions*
Conditions E11-1 through E11-13 Apply to Source 82-1010-19

1. EASTMAN SOURCE NUMBER		2. EMISSION SOURCE DESCRIPTION		3. EMISSION SOURCE REFERENCE NUMBER		4. MSOP NUMBER		5. PERMIT NUMBER	
PES B-270TF-1		Storage and Process Tanks		82-1010-19		MSOP-09		567375	
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									
E11-1 (SM1)	Entire source, excluding fugitive equipment leaks from pumps, valves, flanges, etc.	VOC	TAPCR 1200-03-07-.07(2) TAPCR 1200-03-09-.01(4)(a)11. Construction Permit 961886P, Condition 27	5.89 tons/year	Engineering Assessment	Vents E, F, G, H, I, K, L, M, N, O, P, Q, and S – Certification Vent A – Monitoring, recordkeeping, and reporting required by ID Limitation E11-5 will assure compliance with this limit. Vent R – Monitoring, recordkeeping, and reporting required by ID Limitation E11-8 will assure compliance with this limit. Vents W and X – Monitoring, recordkeeping, and reporting required by ID Limitation E11-10 will assure compliance with this limit. Vent U – Monitoring, recordkeeping, and reporting required by ID Limitation E11-9 will assure compliance with this limit.			
E11-2 (SM1)	Flow Diagram Point B (Equipment Leaks)	VOC	TAPCR 1200-03-07-.07(2) TAPCR 1200-03-09-.01(4)(a)11. Construction Permit 961886P, Condition 28	Annual Leak Detection and Repair (Fugitive VOC Emissions from pumps, valves, flanges, etc. are estimated at 3.52 tons/year)	See Item 10	See Item 10			
E11-3	Entire Source	Visible Emissions	TAPCR 1200-03-05 Construction Permit 961886P, Condition 29	20% Opacity	EPA Method 9	Visible Emissions Evaluation: Emission units requiring initial VEEs – None, per TAPCD Opacity Matrix dated September 11, 2013.			

* See Table Notes for additional clarification of permit conditions.

Storage and Process Tanks (82-1010-19)
Emission Source Specific Operating Permit Conditions*
Conditions E11-1 through E11-13 Apply to Source 82-1010-19

1. EASTMAN SOURCE NUMBER		2. EMISSION SOURCE DESCRIPTION		3. EMISSION SOURCE REFERENCE NUMBER		4. MSOP NUMBER		5. PERMIT NUMBER	
PES B-270TF-1		Storage and Process Tanks		82-1010-19		MSOP-09		567375	
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									
E11-4 (SM1)	Vent A	VOC	TAPCR 1200-03-07-.07(2) TAPCR 1200-03-09-.01(4)(a)11. Construction Permit 961886P, Condition 30	0.04 tons/year	EPA Method 18	Monitoring required by ID Limitation E11-5 will assure compliance with this limit.			
E11-5	Thermoplastic Product Process Unit (TPPU) – DMT Continuous	HAPs	40 CFR 63 Subpart JJJ – National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers & Resins A listing of specific applicability determinations for 40 CFR Parts 60 and 63 in effect as of the issuance date of this permit is found in Attachment 2. Changes that result in a change of applicability shall follow the procedures in Section C of this permit and shall include an update to Attachment 2.						
E11-6	Portion of source subject to NSPS	HAPs	40 CFR 60 Subpart A – General Provisions						
E11-7	Vents A and U	VOC	40 CFR Part 64 – Compliance Assurance Monitoring 40 CFR 64.2(b)(1)(i) – Exempt emission limitations or standards proposed by the Administrator after November 15, 1990 – vent subject to Group 1 MACT control device requirements.						
E11-8	Vent R	VOC	TAPCR 1200-03-07-.07(2)	0.08 tons/year	Engineering Assessment	Parametric Monitoring: 24-hour block average scrubber flow rate. See Operating Plan in the Title V application dated March 20, 2014, PES B-270TF-1, page 67.			
E11-9 (SM1)	Vent U	VOC	TAPCR 1200-03-07-.07(2) TAPCR 1200-03-09-.01(4)(a)11. Construction Permit 961886P, Condition 35	0.15 tons/year	Engineering Assessment	Monitoring, recordkeeping, and reporting required by ID Limitation E11-13 will assure compliance with this limit.			
E11-10	Vents W and X	VOC	TAPCR 1200-03-07-.07(2)	0.14 tons/year	Engineering Assessment	Parametric Monitoring: 24-hour block average scrubber flow rate. See Operating Plan in the Title V application dated March 20, 2014, PES B-270TF-1, pages 69 and 70.			
E11-11 (SM1)	Reserved – SM1 deletes this requirement.								

* See Table Notes for additional clarification of permit conditions.

Storage and Process Tanks (82-1010-19)
Emission Source Specific Operating Permit Conditions*
Conditions E11-1 through E11-13 Apply to Source 82-1010-19

1. EASTMAN SOURCE NUMBER		2. EMISSION SOURCE DESCRIPTION		3. EMISSION SOURCE REFERENCE NUMBER		4. MSOP NUMBER		5. PERMIT NUMBER	
PES B-270TF-1		Storage and Process Tanks		82-1010-19		MSOP-09		567375	
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									
E11-12	Thermoplastic Product Process Units (TPPUs) Miscellaneous Chemical Manufacturing Units (MCPUs)	HAPs	40 CFR 63 Subpart A – General Provisions						
E11-13 (SM1)	Miscellaneous Chemical Manufacturing Units (MCPUs) – Tritan	HAPs	40 CFR 63 Subpart FFFF – National Emission Standards for Hazardous Air Pollutant Emissions: Miscellaneous Organic Chemical Manufacturing A listing of specific applicability determinations for 40 CFR Parts 60 and 63 in effect as of the issuance date of this permit is found in Attachment 2. Changes that result in a change of applicability shall follow the procedures in Section C of this permit and shall include an update to Attachment 2.						
E11-14 (SM1)	Flow Diagram Point B – Equipment Leaks for Equipment in VOC Service	VOC	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. A listing of specific applicability determinations for 40 CFR Parts 60 and 63 in effect as of the issuance date of this permit is found in Attachment 2. Changes that result in a change of applicability shall follow the procedures in Section C of this permit and shall include an update to Attachment 2.						

* See Table Notes for additional clarification of permit conditions.

Cooling Tower (82-1004-25)
Emission Source Specific Operating Permit Conditions*
Conditions E12-1 through E12-2 Apply to Source 82-1004-25

1. EASTMAN SOURCE NUMBER		2. EMISSION SOURCE DESCRIPTION		3. EMISSION SOURCE REFERENCE NUMBER		4. MSOP NUMBER		5. PERMIT NUMBER	
PES B-302-1		Cooling Tower		82-1004-25		MSOP-09		567375	
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)			
T									
FEDERALLY AND STATE ENFORCEABLE CONDITIONS									
E12-1	Entire Source	Visible Emissions	TAPCR 1200-03-05: Permit Number 945838P, Condition 8	20% Opacity	EPA Method 9	Visible Emissions Evaluation: Emission units requiring initial VEEs – None, per TAPCD Opacity Matrix dated September 11, 2013.			
E12-2	Entire Source	Particulates	TAPCR 1200-03-07-.04(2)	0.25 gr/dscf @ 70° F, 1 atmosphere	Engineering Assessment	Certification			

* See Table Notes for additional clarification of permit conditions.

Table Notes

Item 1	EASTMAN SOURCE NUMBER Permittee's designation for the emission source.
Item 2	EMISSION SOURCE DESCRIPTION Permittee's description of the emission source.
Item 3	EMISSION SOURCE REFERENCE NUMBER TDAPC assigned number for the emission source.
Item 4	MSOP NUMBER Permittee's designation for major source operating permit
Item 5	PERMIT NUMBER TDAPC assigned major source operating permit number
Item 6	ID Emission limitation or standard identification
Item 7	PORTION OF SOURCE SUBJECT TO REQUIREMENT Identifies emission units to which the permit term or condition applies.
Item 8	POLLUTANT Identifies the air contaminant, regulated air pollutant, or other parameter to which the emission limitation or standard applies.
Item 9	UNDERLYING APPLICABLE REQUIREMENTS 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 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 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
NSPS 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 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 GGG	National Emissions Standards for Pharmaceutical Production
40 CFR 63 Subpart JJJ	National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins
40 CFR 63 Subpart MMM	National Emission Standards for Hazardous Air Pollutants For Pesticide Active Ingredient Production
40 CFR 63 Subpart FFFF	National Emission Standards for Hazardous Air Pollutants Miscellaneous Organic Chemical Manufacturing
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.

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

- (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 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 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 6 months after the first process unit shutdown.
 - (5) Delay of repair of pumps for up to 6 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 during the quarterly inspection, 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

Those exclusive 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:

Pollutant or Parameter

Testing Methodology

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 Method 10 as published in the current 40 CFR 60, Appendix A
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 (6 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

Pollutant or Parameter**Testing Methodology**

Fugitive Dust Emissions Crossing a Property Line	September 15, 1982 and as amended on August 24, 1984. 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

In cases where the underlying applicable requirement does not specify performance testing requirements, the following shall apply:

- (a) 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 the results of which he has 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.
- (b) 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 nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard.
- (c) 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.
- (d) 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.
- (e) 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.

Item 12 PERIODIC MONITORING METHODS

- (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 and related recordkeeping and reporting requirements previously prescribed by the Technical Secretary in accordance with the powers granted to him 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, as reported pursuant to Condition B.2. 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 Title V permit as fully enforceable conditions of the permit. Changes to an Operating Plan shall follow the applicable procedures in Section C of this permit. 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 5 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).
- (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)(DII).)
- (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) When the approved operating plan utilizes continuous parametric monitoring systems (CPMS), the permittee may use manual readings of the applicable parameter taken once per operating shift as a backup during periods of CPMS breakdown.
- (iv) An excursion means:
- (I) A departure from an indicator range established for monitoring by this Title V permit, consistent with any averaging period specified for averaging the results of the monitoring, or,
- (II) Availability of less than 75 percent of the measured values within a given averaging period unless manual readings of the parameter are made as a backup during periods of CPMS breakdown, or,
- (III) In cases where measured values are not averaged, when a measurement is missed.

- (v) For each excursion, that does not demonstrate noncompliance with an applicable requirement, of a monitored parameter outside the range stated in the operating plan for an applicable averaging period, the permittee may be deemed to have failed to have maintained or operated the source including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Each excursion shall be reported as an instance of deviation from permit requirements in semi-annual reports submitted pursuant to Condition B3.
- (vi) 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.
- (vii) Where the permit requires twenty-four hour block averages of each continuously monitored parameter, the 24-hour block average shall be calculated for each 24 hour period of time (these periods may be from midnight to midnight or another daily period). 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.
- (viii) If the average value of a monitored parameter is within the range stated in the operating plan for an applicable averaging period, the owner or operator shall either:
 - (I) Retain the average value for the averaging period for 5 years and discard, at or after the end of that averaging period, the 15-minute or more frequent average values and readings recorded; or
 - (II) Retain the recorded data for 5 years.
- (ix) If the average value of a monitored parameter is outside the range stated in the operating plan for an applicable averaging period, the owner or operator shall retain the data recorded in (d)(2)(vi)(ii) above for 5 years.
- (x) 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 shall be retained for 5 years of the times and durations of all such periods and any other periods during process or control device operation when monitors are not operating.
- (xi) 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

- (xii) The number of excused excursions for each monitored parameter for each semi-annual reporting period is shown below:

When Measured Values are Averaged:

Each semi-annual period Two excused excursions

When Measured Values are Not Averaged:

Each semi-annual period 1% of discrete readings

A monitored parameter found outside its established range during startup, shutdown, or malfunction conditions or during periods of nonoperation of the source or lack of monitoring data during start-up, shutdown, or malfunction conditions or during periods of nonoperation of the source do not count toward the number of excused excursions.

- (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 5 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.

- (a) 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).
- (b) Semiannual monitoring shall be completed at least once during each calendar semiannual period corresponding to the semi-annual reporting periods specified in Condition E2-1(a) of this permit.
- (c) 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 this permit.
- (d) Periodic monitoring may be delayed for equipment that is out of service for an extended period, as follows:
- (1) 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.
 - (2) 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.
 - (3) 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.

END OF PERMIT NUMBER 567375

ATTACHMENT 1

**OPACITY MATRIX DECISION TREE FOR
VISIBLE EMISSION EVALUATION METHOD 9
DATED SEPTEMBER 11, 2013**

Decision Tree PM for Opacity for Sources Utilizing EPA Method 9*

Notes:

PM = Periodic Monitoring required by 1200-03-09-.02(11)(e)(iii).

This Decision Tree outlines the criteria by which major sources can meet the periodic monitoring and testing requirements of Title V for demonstrating compliance with the visible emission standards set forth in the permit. It is not intended to determine compliance requirements for EPA's Compliance Assurance Monitoring (CAM) Rule (formerly referred to as Enhanced Monitoring – Proposed 40 CFR 64).

Examine each emission unit using this Decision Tree to determine the PM required.*

Use of continuous emission monitoring systems eliminates the need to do any additional periodic monitoring.

Visible Emission Evaluations (VEEs) are to be conducted utilizing EPA Method 9. The observer must be properly certified to conduct valid evaluations.

Typical Pollutants
 Particulates, VOC, CO, SO₂, NO_x, HCl, HF, HBr, Ammonia, and Methane.

Initial observations are to be repeated within 90 days of startup of a modified source, if a new construction permit is issued for modification of the source.

A VEE conducted by TAPCD personnel after the Title V permit is issued will also constitute an initial reading.

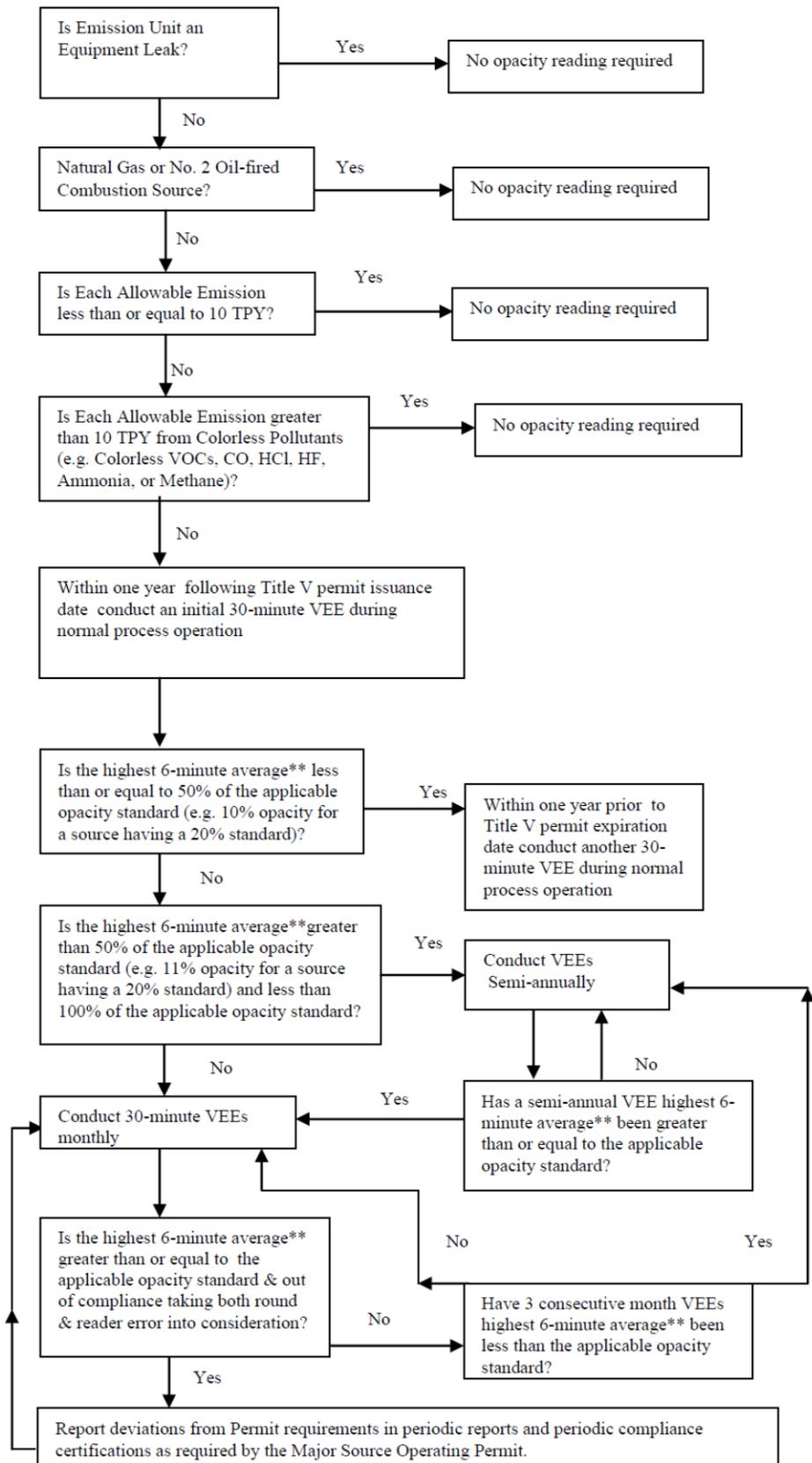
Reader Error
 EPA Method 9, Non-NSPS or NESHAPS stipulated opacity standards:
 The TAPCD guidance is to declare non-compliance when the highest six-minute average** exceeds the standard plus 6.8% opacity (e.g. 26.8% for a 20% standard).

EPA Method 9, NSPS or NESHAPS stipulate opacity standards:
 EPA guidance is to allow only engineering round. No allowance for reader error is given.

*Not applicable to Asbestos manufacturing subject to 40 CFR 61.142

**Or second highest six-minute average, if the source has an exemption period stipulated in either the regulations or in the permit.

Dated June 18, 1996
 Amended September 11, 2013



ATTACHMENT 2

**SPECIFIC APPLICABILITY DETERMINATIONS
FOR 40 CFR 60 (NSPS) AND 40 CFR 63 (MACT)
TO MSOP-09**

Group IV Polymers & Resins
40 CFR Part 63 Subpart JJJ
Specific Applicability Determinations
MSOP-09, PES B-226P-1

Identification	Category	Rule Citation
Continuous PET Process Section Vents		
	PET using a Continuous Dimethyl Terephthalate Process – Material Recovery Sections and applicable Monitoring	40 CFR 63.1316(b)(1)(i), 63.1317
	PET using a Continuous Dimethyl Terephthalate Process – Polymerization Reaction Sections and applicable Monitoring	40 CFR 63.1316(b)(1)(ii), 63.1317
Vents 2C, 5C*	PET using a Continuous Terephthalic Acid Process – Raw Material Preparation Sections and applicable Monitoring	40 CFR 63.1316(b)(2)(i), 63.1317
Vent 3B*	PET using a Continuous Terephthalic Acid Process – Polymerization Reaction Sections and applicable Monitoring	40 CFR 63.1316(b)(2)(ii), 63.1317
Other Continuous Process Vents		
Vent 8F	Group 1 Process Vent and applicable Monitoring	40 CFR 63.1315(a), 63.113(a), 63.114
	Group 2 Process Vent with TRE ≤ 4.0 and applicable Monitoring	40 CFR 63.1315(a), 63.113(d), 63.114
	Group 2 Process Vent with TRE > 4.0	40 CFR 63.1315(a), 63.113(e)
	Group 2 Process Vent with Low Flow	40 CFR 63.1315(a), 63.113(f)
	Group 2 Process Vent with Low Concentration	40 CFR 63.1315(a), 63.113(g)
Batch Process Vents		
	Group 1 Batch Process Vent and applicable Monitoring	40 CFR 63.1322(a), 63.1324
	Aggregate Batch Vent Stream and applicable Monitoring	40 CFR 63.1322(b), 63.1324
	Combination of Batch Process Vents or Aggregate Batch Vent Streams with Continuous Process Vents	40 CFR 63.1322(e)
	Group 2 Batch Process Vent with Annual Emissions ≥ 11,800 kg/year	40 CFR 63.1322(f)
	Group 2 Batch Process Vent with Annual Emissions < 11,800 kg/year	40 CFR 63.1322(g)
Storage Vessels		
	Group 1 Storage Vessel storing a liquid for which the maximum true vapor pressure of organic HAPs is < 76.6 kPa	40 CFR 63.1314(a), 63.119(a)(1)
	Group 1 Storage Vessel storing a liquid for which the maximum true vapor pressure of organic HAPs is ≥ 76.6 kPa	40 CFR 63.1314(a), 63.119(a)(2)
	Group 2 Storage Vessel	40 CFR 63.1314(a), 63.119(a)(3)
Tank VEG (Vent 1C), Tank TEG (Vent 1E)	Storage vessels containing ethylene glycol are exempt from storage vessel provision.	40 CFR 63.1314(d)
Process Wastewater		
	Existing Group 1 Wastewater Stream and applicable Monitoring	40 CFR 1330(a), 63.132(a)(2), 63.143
WB, WC, WD, WE, WG, WH, WI, WJ, WK, WL, WM	Existing Group 2 Wastewater Stream	40 CFR 1330(a), 63.132(a)(3)
	Group 1 Wastewater Stream at a New Source and applicable Monitoring	40 CFR 1330(a), 63.132(b)(3), 63.143
	Group 2 Wastewater Stream at a New Source	40 CFR 1330(a), 63.132(b)(4)
Equipment Leaks (also Surge Control Vessels and Bottoms Receivers)		
9A	Equipment leak provisions	40 CFR 63.1331
9A	Alternative monitoring for equipment in ethylene glycol vapor service (letter from R. Douglas Neeley, EPA Region 4, to Susan C. Myers, March 7, 2002).	
Recordkeeping and Reporting		
JJJ subject points as applicable	Recordkeeping and Reporting	40 CFR 63.1335

* Alternative Control Parameter Demonstration for Vents 2C, 3B, 5C. See pages A-1 through A-6 of the Title V application dated June 18, 2013.

**Group IV Polymers & Resins (40 CFR Part 63 Subpart JJJ)
Overlap with NSPS Regulations (40 CFR Part 60)
Specific Applicability Determinations
MSOP-09, PES B-226P-1**

Identification	P&R IV Category (40 CFR Part 63)	NSPS Category (40 CFR Part 60)	Rule Citation
	Subject to Subpart JJJ	Subpart Kb – Exempt from Kb	40 CFR 63.1311(h)
5C	Subject to Subpart JJJ	Subpart DDD – Exempt from DDD	40 CFR 63.1311(i)(1)
	Subject to Subpart JJJ	Subpart VV – Exempt from VV	40 CFR 63.1311(k)
	Subject to Subpart JJJ	Subpart NNN – Exempt from NNN	40 CFR 63.1311(l)

New Source Performance Standards
40 CFR Part 60 – Specific Applicability Determinations
MSOP-09, PES B-226P-1

Identification	Category	Rule Citation
Subpart Kb – Storage Vessels		
	Storage Vessels storing a VOL having a maximum true vapor pressure less than 76.7 kPa and must meet standards.	§60.112b(a)
	Storage Vessels storing a VOL having a maximum true vapor pressure equal to or greater than 76.7 kPa and must meet standards.	§60.112b(b)
	Storage Vessels that are not required to meet standards.	§60.110b
Kb subject points as applicable	Monitoring, recordkeeping, and reporting	§§60.115b, 60.116b
Subpart VVa – Equipment Leaks		
Flow Diagram Point 9A	Work practice standards for pumps, compressors, pressure relief devices, sampling connection systems, open-ended valves or lines, etc.	§§60.482a, 60.483a
Flow Diagram Point 9A	Alternative monitoring for equipment in ethylene glycol vapor service (letter from Winston A. Smith, EPA Region 4, to Robert L. Barnes, October 2, 2001)	§60.13(i)
	Alternative monitoring for equipment in acetic acid service (letter from Beverly Banister, EPA Region 4 to Barry Stephens, TDAPC, January 23, 2004).	§60.13(i)
	Alternative monitoring for equipment in acetic anhydride service (letter from Beverly Banister, EPA Region 4 to Barry Stephens, TDAPC, March 30, 2005, and letter from Carol Kemker, EPA Region 4, to Barry Stephens, TDAPC, July 1, 2010).	
	Alternative monitoring for equipment in acetic anhydride service (letter from Beverly Banister, EPA Region 4 to Barry Stephens, TDAPC, July 1, 2008, and letter from Carol Kemker, EPA Region 4, to Barry Stephens, TDAPC, July 1, 2010).	§60.13(i)
VVa subject points as applicable	Recordkeeping and reporting	§§60.486a, 60.487a
Subpart III – Air Oxidation		
	TRE less than or equal to 1.0 (Reduce TOC by 98% or to 20 ppmv)	§60.612(a)
	TRE less than or equal to 1.0 (Combust in a flare)	§60.612(b)
	TRE greater than 1.0 but less than or equal to 4.0	§60.612(c)
	TRE greater than 4.0	§60.610(c)
III subject points as applicable	Monitoring, recordkeeping, and reporting	§§60.613, 60.615
Subpart NNN – Distillation		
	TRE less than or equal to 1.0 (Reduce TOC by 98% or to 20 ppmv)	§60.662(a)
	TRE less than or equal to 1.0 (Combust in a flare)	§60.662(b)
	TRE greater than 1.0 but less than or equal to 8.0	§60.662(c)
	TRE greater than 8.0	§60.660(c)(4)
Vent 2B – B-Line Methanol Recovery Unit	Low Flow Exemption	§60.660(c)(6)
	Design Capacity Exemption	§60.660(c)(5)
NNN subject points as applicable	Monitoring, recordkeeping, and reporting	§§60.663, 60.665
Subpart RRR – Reactors		
	TRE less than or equal to 1.0 (Reduce TOC by 98% or to 20 ppmv)	§60.702(a)
	TRE less than or equal to 1.0 (Combust in a flare)	§60.702(b)
	TRE greater than 1.0 but less than or equal to 8.0	§60.702(c)
	TRE greater than 8.0	§60.700(c)(2)
	Low Flow Exemption	§60.700(c)(4)
	Design Capacity Exemption	§60.700(c)(3)
	Low Concentration Exemption	§60.700(c)(8)
	Routed to distillation unit subject to subpart NNN except for a pressure relief valve	§60.700(c)(5)
RRR subject points as applicable	Monitoring, recordkeeping, and reporting	§60.703, 60.705

**40 CFR Part 63 Subpart FFFF
 Specific Applicability Determinations
 MSOP-09, PES B-226P-1**

Identification	Category	Rule Citation from 40 CFR 63
Continuous Process Vents		
	Group 1 Continuous Process Vent and Applicable Monitoring	2455
	Continuous Process vent combined with Group 1 batch vent before control or recovery device	2455(b)(1)
See Note 1	Existing Group 2 Process Vents not requiring monitoring: Vents with no recovery device with TRE >1.9, vents with recovery device with TRE >5	2455
	New Group 2 Continuous Process Vents not requiring monitoring: Vents with no recovery device with TRE >5, vents with recovery device with TRE >8	2455
	Existing Group 2 Continuous Process Vents requiring monitoring (vents using a recovery device to maintain 1.9 < TRE <= 5).	2455(c)(1)
	New Group 2 Continuous Process Vents with 5 < TRE <= 8 before recovery devices.	2455(c)(1)
	Gaseous streams routed to a Fuel Gas System are not process vents and have no applicable requirements under 40 CFR 63 Subpart FFFF.	2550
Process Vents Emitting Hydrogen Halide or Halogen HAPs		
	Process with collective sum of hydrogen halide and hydrogen HAPs < 1,000 lb/year	2465(b), 1257(d)(2)(i)
	Process with collective sum of hydrogen halide and hydrogen HAPs >= 1,000 lb/year	2465(c), 994
	New process vents that emit HAP metals	2465(d)
Batch Process Vents		
	Group 1 process vents and applicable monitoring	2460
	Group 2 process vents	2460, 2525(e)
	Process with non-reactive HAP usage < 10,000 lb/year	2460(b)(7)
	Halogenated Group 1 batch process vents for which a combustion device is used to control organic HAP emissions	2460
Storage Vessels		
	Group 1 storage vessels (storage, surge control, and bottoms receivers) storing a liquid for which the maximum true vapor pressure of organic HAPs > 76.6 kPa (527.9 psi)	2470, 2450(r), 982
	Group 1 storage vessels (storage, surge control, and bottoms receivers) storing a liquid for which the maximum true vapor pressure of organic HAPs < 76.6 kPa (527.9 psi)	2470, 2450(r), Subpart WW
See Note 2	Group 2 Storage Vessels (storage, surge control, and bottoms receivers)	2470, 2450(r)
	Halogenated Group 1 vessels (storage, surge control, and bottoms receivers) for which a combustion device is used to control organic HAP emissions.	2470
Transfer Operations		
B-226 Loading Station	Group 1 transfer racks and applicable monitoring and testing	2475
	Group 2 transfer rack	
	Halogenated Group 1 transfer racks for which a combustion device is used to control organic HAP emissions	2475
Equipment Leaks		
Vent 9A	Equipment in OHAP service complying with 40 CFR 63 Subpart H.	2480(a)
	Equipment in OHAP service complying with 40 CFR 63 Subpart UU.	2480(a)
	Equipment in OHAP service complying with 40 CFR 63 Subpart F.	2480(a)
Process Wastewater		
	Group 1 wastewater stream	2485(c), (n), 132-148
W1, W2, W3, W4, W5, W6	Group 2 wastewater stream	2485
	Standards for waste management units managing Group 1 wastewater stream or residuals removed from Group 1 streams	2485(d)
	Liquid streams in open systems	2485(l), 149
Emissions averaging		
	Comply with the emissions averaging plan for selected emission points	2500, 150
Recordkeeping and Reporting		
MON Subpart FFFF points as applicable	Recordkeeping and reporting applicable MON emission points	2520, 2525

1 Vents 2B, 2D, 2E, 4A, 4B, 4C, 4D, 4Q, 4S, 4T, 4W, 5A

2 Tanks GA-01/02/03, FE-100/101, FE-200/204/205/206, HE-100/101/102, FM-40, CB-02, PB-02, RB-02, MB-01, RB-40

Group IV Polymers & Resins
40 CFR Part 63 Subpart JJJ
Specific Applicability Determinations
MSOP-09, PES B-255-1

Identification	Category	Rule Citation
Continuous PET Process Section Vents		
	PET using a Continuous Dimethyl Terephthalate Process – Material Recovery Sections and applicable Monitoring	40 CFR 63.1316(b)(1)(i), 63.1317
9A	PET using a Continuous Dimethyl Terephthalate Process – Polymerization Reaction Sections and applicable Monitoring	40 CFR 63.1316(b)(1)(ii), 63.1317
	PET using a Continuous Terephthalic Acid Process – Raw Material Preparation Sections and applicable Monitoring	40 CFR 63.1316(b)(2)(i), 63.1317
	PET using a Continuous Terephthalic Acid Process – Polymerization Reaction Sections and applicable Monitoring	40 CFR 63.1316(b)(2)(ii), 63.1317
Other Continuous Process Vents		
	Group 1 Process Vent and applicable Monitoring	40 CFR 63.1315(a), 63.113(a), 63.114
	Group 2 Process Vent with $TRE \leq 4.0$ and applicable Monitoring	40 CFR 63.1315(a), 63.113(d), 63.114
	Group 2 Process Vent with $TRE > 4.0$	40 CFR 63.1315(a), 63.113(e)
	Group 2 Process Vent with Low Flow	40 CFR 63.1315(a), 63.113(f)
	Group 2 Process Vent with Low Concentration	40 CFR 63.1315(a), 63.113(g)
Batch Process Vents		
	Group 1 Batch Process Vent and applicable Monitoring	40 CFR 63.1322(a), 63.1324
	Aggregate Batch Vent Stream and applicable Monitoring	40 CFR 63.1322(b), 63.1324
	Combination of Batch Process Vents or Aggregate Batch Vent Streams with Continuous Process Vents	40 CFR 63.1322(e)
	Group 2 Batch Process Vent with Annual Emissions $\geq 11,800$ kg/year	40 CFR 63.1322(f)
	Group 2 Batch Process Vent with Annual Emissions $< 11,800$ kg/year	40 CFR 63.1322(g)
Storage Vessels		
	Group 1 Storage Vessel storing a liquid for which the maximum true vapor pressure of organic HAPs is < 76.6 kPa	40 CFR 63.1314(a), 63.119(a)(1)
	Group 1 Storage Vessel storing a liquid for which the maximum true vapor pressure of organic HAPs is ≥ 76.6 kPa	40 CFR 63.1314(a), 63.119(a)(2)
	Group 2 Storage Vessel	40 CFR 63.1314(a), 63.119(a)(3)
	Storage vessels containing ethylene glycol are exempt from storage vessel provision.	40 CFR 63.1314(d)
Process Wastewater		
	Existing Group 1 Wastewater Stream and applicable Monitoring	40 CFR 1330(a), 63.132(a)(2), 63.143
WA	Existing Group 2 Wastewater Stream	40 CFR 1330(a), 63.132(a)(3)
	Group 1 Wastewater Stream at a New Source and applicable Monitoring	40 CFR 1330(a), 63.132(b)(3), 63.143
	Group 2 Wastewater Stream at a New Source	40 CFR 1330(a), 63.132(b)(4)
Equipment Leaks (also Surge Control Vessels and Bottoms Receivers)		
U1	Equipment leak provisions	40 CFR 63.1331
U1*	Alternative monitoring for equipment in ethylene glycol vapor service (letter from R. Douglas Neeley, EPA Region 4, to Susan C. Myers, March 7, 2002).	
Recordkeeping and Reporting		
JJJ subject points as applicable	Recordkeeping and Reporting	40 CFR 63.1335

* See page A1 of the application dated December 17, 2014, for the alternative monitoring plan for equipment in ethylene glycol vapor service.

**40 CFR Part 63 Subpart FFFF
Specific Applicability Determinations
MSOP-09, PES B-255-1**

Identification	Category	Rule Citation from 40 CFR 63
Continuous Process Vents		
	Group 1 Continuous Process Vent and Applicable Monitoring	2455
	Continuous Process vent combined with Group 1 batch vent before control or recovery device	2455(b)(1)
Vent 8B	Existing Group 2 Process Vents not requiring monitoring: Vents with no recovery device with TRE >1.9, vents with recovery device with TRE >5	2455
	New Group 2 Continuous Process Vents not requiring monitoring: Vents with no recovery device with TRE >5, vents with recovery device with TRE >8	2455
	Existing Group 2 Continuous Process Vents requiring monitoring (vents using a recovery device to maintain 1.9 < TRE <= 5).	2455(c)(1)
	New Group 2 Continuous Process Vents with 5 < TRE <= 8 before recovery devices.	2455(c)(1)
	Gaseous streams routed to a Fuel Gas System are not process vents and have no applicable requirements under 40 CFR 63 Subpart FFFF.	2550
Process Vents Emitting Hydrogen Halide or Halogen HAPs		
	Process with collective sum of hydrogen halide and hydrogen HAPs < 1,000 lb/year	2465(b), 1257(d)(2)(i)
	Process with collective sum of hydrogen halide and hydrogen HAPs >= 1,000 lb/year	2465(c), 994
	New process vents that emit HAP metals	2465(d)
Batch Process Vents		
	Group 1 process vents and applicable monitoring	2460
	Group 2 process vents	2460, 2525(e)
	Process with non-reactive HAP usage < 10,000 lb/year	2460(b)(7)
	Halogenated Group 1 batch process vents for which a combustion device is used to control organic HAP emissions	2460
Storage Vessels		
	Group 1 storage vessels (storage, surge control, and bottoms receivers) storing a liquid for which the maximum true vapor pressure of organic HAPs > 76.6 kPa (527.9 psi)	2470, 2450(r), 982
	Group 1 storage vessels (storage, surge control, and bottoms receivers) storing a liquid for which the maximum true vapor pressure of organic HAPs < 76.6 kPa (527.9 psi)	2470, 2450(r), Subpart WW
	Group 2 Storage Vessels (storage, surge control, and bottoms receivers)	2470, 2450(r)
	Halogenated Group 1 vessels (storage, surge control, and bottoms receivers) for which a combustion device is used to control organic HAP emissions.	2470
Transfer Operations		
	Group 1 transfer racks and applicable monitoring and testing	2475
	Group 2 transfer rack	
	Halogenated Group 1 transfer racks for which a combustion device is used to control organic HAP emissions	2475
Equipment Leaks		
Vent U1	Equipment in OHAP service complying with 40 CFR 63 Subpart H.	2480(a)
	Equipment in OHAP service complying with 40 CFR 63 Subpart UU.	2480(a)
	Equipment in OHAP service complying with 40 CFR 63 Subpart F.	2480(a)
Process Wastewater		
	Group 1 wastewater stream	2485(c), (n), 132-148
W1, W2	Group 2 wastewater stream	2485
	Standards for waste management units managing Group 1 wastewater stream or residuals removed from Group 1 streams	2485(d)
	Liquid streams in open systems	2485(l), 149
Emissions averaging		
	Comply with the emissions averaging plan for selected emission points	2500, 150
Recordkeeping and Reporting		
MON Subpart FFFF points as applicable	Recordkeeping and reporting applicable MON emission points	2520, 2525

New Source Performance Standards
40 CFR Part 60 – Specific Applicability Determinations
MSOP-09, PES B-255-1

Identification	Category	Rule Citation
Subpart Kb – Storage Vessels		
	Storage Vessels storing a VOL having a maximum true vapor pressure less than 76.7 kPa and must meet standards.	§60.112b(a)
	Storage Vessels storing a VOL having a maximum true vapor pressure equal to or greater than 76.7 kPa and must meet standards.	§60.112b(b)
	Storage Vessels that are not required to meet standards.	§60.110b
Kb subject points as applicable	Monitoring, recordkeeping, and reporting	§§60.115b, 60.116b
Subpart VVa – Equipment Leaks		
	Work practice standards for pumps, compressors, pressure relief devices, sampling connection systems, open-ended valves or lines, etc.	§§60.482a, 60.483a
Applicable portions of Vent U1 in VOC service	Comply with 40 CFR 63 Subpart H	§60.480a(e)(2)
	Alternative monitoring for equipment in ethylene glycol vapor service (letter from Winston A. Smith, EPA Region 4, to Robert L. Barnes, October 2, 2001)	§60.13(i)
	Alternative monitoring for equipment in acetic acid service (letter from Beverly Banister, EPA Region 4 to Barry Stephens, TDAPC, January 23, 2004).	§60.13(i)
VVa subject points as applicable	Recordkeeping and reporting	§§60.486a, 60.487a
Subpart III – Air Oxidation		
	TRE less than or equal to 1.0 (Reduce TOC by 98% or to 20 ppmv)	§60.612(a)
	TRE less than or equal to 1.0 (Combust in a flare)	§60.612(b)
	TRE greater than 1.0 but less than or equal to 4.0	§60.612(c)
	TRE greater than 4.0	§60.610(c)
III subject points as applicable	Monitoring, recordkeeping, and reporting	§§60.613, 60.615
Subpart NNN – Distillation		
	TRE less than or equal to 1.0 (Reduce TOC by 98% or to 20 ppmv)	§60.662(a)
	TRE less than or equal to 1.0 (Combust in a flare)	§60.662(b)
	TRE greater than 1.0 but less than or equal to 8.0	§60.662(c)
	TRE greater than 8.0	§60.660(c)(4)
	Low Flow Exemption	§60.660(c)(6)
	Design Capacity Exemption	§60.660(c)(5)
NNN subject points as applicable	Monitoring, recordkeeping, and reporting	§§60.663, 60.665
Subpart RRR – Reactors		
	TRE less than or equal to 1.0 (Reduce TOC by 98% or to 20 ppmv)	§60.702(a)
	TRE less than or equal to 1.0 (Combust in a flare)	§60.702(b)
	TRE greater than 1.0 but less than or equal to 8.0	§60.702(c)
	TRE greater than 8.0	§60.700(c)(2)
	Low Flow Exemption	§60.700(c)(4)
	Design Capacity Exemption	§60.700(c)(3)
	Low Concentration Exemption	§60.700(c)(8)
	Routed to distillation unit subject to subpart NNN except for a pressure relief valve	§60.700(c)(5)
RRR subject points as applicable	Monitoring, recordkeeping, and reporting	§60.703, 60.705

**Group IV Polymers & Resins: 40 CFR Part 63 Subpart JJJ
Specific Applicability Determinations
MSOP-09, PES B-270MP-1**

Identification	Category	Rule Citation
Continuous PET Process Section Vents		
B1, B2	PET using a Continuous Dimethyl Terephthalate Process – Material Recovery Sections and applicable Monitoring	40 CFR 63.1316(b)(1)(i), 63.1317
J	PET using a Continuous Dimethyl Terephthalate Process – Polymerization Reaction Sections and applicable Monitoring	40 CFR 63.1316(b)(1)(ii), 63.1317
	PET using a Continuous Terephthalic Acid Process – Raw Material Preparation Sections and applicable Monitoring	40 CFR 63.1316(b)(2)(i), 63.1317
	PET using a Continuous Terephthalic Acid Process – Polymerization Reaction Sections and applicable Monitoring	40 CFR 63.1316(b)(2)(ii), 63.1317
Other Continuous Process Vents		
	Group 1 Process Vent and applicable Monitoring	40 CFR 63.1315(a), 63.113(a), 63.114
	Group 2 Process Vent with $TRE \leq 4.0$ and applicable Monitoring	40 CFR 63.1315(a), 63.113(d), 63.114
	Group 2 Process Vent with $TRE > 4.0$	40 CFR 63.1315(a), 63.113(e)
	Group 2 Process Vent with Low Flow	40 CFR 63.1315(a), 63.113(f)
	Group 2 Process Vent with Low Concentration	40 CFR 63.1315(a), 63.113(g)
Batch Process Vents		
	Group 1 Batch Process Vent and applicable Monitoring	40 CFR 63.1322(a), 63.1324
	Aggregate Batch Vent Stream and applicable Monitoring	40 CFR 63.1322(b), 63.1324
	Combination of Batch Process Vents or Aggregate Batch Vent Streams with Continuous Process Vents	40 CFR 63.1322(e)
	Group 2 Batch Process Vent with Annual Emissions $\geq 11,800$ kg/yr	40 CFR 63.1322(f)
	Group 2 Batch Process Vent with Annual Emissions $< 11,800$ kg/yr	40 CFR 63.1322(g)
Storage Vessels		
	Group 1 Storage Vessel storing a liquid for which the maximum true vapor pressure of organic HAPs is < 76.6 kPa	40 CFR 63.1314(a), 63.119(a)(1)
	Group 1 Storage Vessel storing a liquid for which the maximum true vapor pressure of organic HAPs is ≥ 76.6 kPa	40 CFR 63.1314(a), 63.119(a)(2)
	Group 2 Storage Vessel	40 CFR 63.1314(a), 63.119(a)(3)
Process Wastewater		
	Existing Group 1 Wastewater Stream and applicable Monitoring	40 CFR 1330(a), 63.132(a)(2), 63.143
WA and WB	Existing Group 2 Wastewater Stream	40 CFR 1330(a), 63.132(a)(3)
	Group 1 Wastewater Stream at a New Source and applicable Monitoring	40 CFR 1330(a), 63.132(b)(3), 63.143
	Group 2 Wastewater Stream at a New Source	40 CFR 1330(a), 63.132(b)(4)
Equipment Leaks (also Surge Control Vessels and Bottoms Receivers)		
I	Equipment leak provisions	40 CFR 63.1331
I	Alternative monitoring for equipment in ethylene glycol vapor service (letter from R. Douglas Neeley, EPA Region 4, to Susan C. Myers, March 7, 2002)	N/A
Recordkeeping and Reporting		
JJJ subject points as applicable	Recordkeeping and Reporting	40 CFR 63.1335

New Source Performance Standards
40 CFR Part 60 – Specific Applicability Determinations
MSOP-09, PES B-270MP-1

Identification	Category	Rule Citation
Subpart Kb – Storage Vessels		
	Storage Vessels storing a VOL having a maximum true vapor pressure less than 76.7 kPa and must meet standards.	40 CFR 60.112b(a)
	Storage Vessels storing a VOL having a maximum true vapor pressure equal to or greater than 76.7 kPa and must meet standards.	40 CFR 60.112b(b)
	Storage Vessels that are not required to meet standards.	40 CFR 60.110b
Kb subject points as applicable	Monitoring, recordkeeping, and reporting	40 CFR 60.115b, 60.116b
Subpart VVa – Equipment Leaks		
	Work practice standards for pumps, compressors, pressure relief devices, sampling connection systems, open-ended valves or lines, etc.	40 CFR 60.482a, 60.483a
Applicable portions of Vent I in VOC service	Comply with 40 CFR 63 Subpart H	40 CFR 60.480a(e)(2)
	Alternative monitoring for equipment in ethylene glycol vapor service (letter from Winston A. Smith, EPA Region 4, to Robert L. Barnes, October 2, 2001).	N/A
VVa subject points as applicable	Monitoring, recordkeeping, and reporting	40 CFR 60.486 & 60.487
Subpart III – Air Oxidation		
	TRE less than or equal to 1.0 (Control required)	40 CFR 60.612(a) or (b)
	TRE greater than 1.0 but less than or equal to 4.0	40 CFR 60.612(c)
	TRE greater than 4.0	40 CFR 60.610(c)
	Monitoring, recordkeeping, and reporting	40 CFR 60.613, 60.615
Subpart NNN – Distillation		
Δ5 (DL-24 Condenser) Δ7 (DL-01 Condenser) Δ12 (EL-01 Column)	TRE less than or equal to 1.0 (Control required)	40 CFR 60.662(a) or (b)
	TRE greater than 1.0 but less than or equal to 8.0	40 CFR 60.662(c)
	TRE greater than 8.0	40 CFR 60.660(c)(4)
	Low Flow Exemption	40 CFR 60.660(c)(6)
	Design Capacity Exemption	40 CFR 60.660(c)(5)
NNN points as applicable	Monitoring, recordkeeping, and reporting	40 CFR 60.663, 60.665
Subpart RRR – Reactors		
Δ5 (DD Reactors, DE-01 Reactor) Δ7 (DC Reactors) Δ12 (EC Reactors)	TRE less than or equal to 1.0 (Reduce TOC by 98% or to 20 ppmv)	40 CFR 60.702(a)
	TRE less than or equal to 1.0 (combust in a flare)	40 CFR 60.702(b)
	TRE greater than 1.0 but less than or equal to 8.0	40 CFR 60.702(c)
	TRE greater than 8.0	40 CFR 60.700(c)(2)
	Low Flow Exemption	40 CFR 60.700(c)(4)
	Design Capacity Exemption	40 CFR 60.700(c)(3)
	Low Concentration Exemption	40 CFR 60.700(c)(8)
	Routed to distillation unit subject to subpart NNN except for a pressure relief valve	40 CFR 60.700(c)(5)
RRR points as applicable	Monitoring, recordkeeping, and reporting	40 CFR 60.703, 60.705

40 CFR Part 63 Subpart FFFF
Specific Applicability Determinations
MSOP-09, PES B-270MP-1
Tritan MCPU

Identification	Category	Rule Citation from 40 CFR 63
Continuous Process Vents		
Δ5, Δ7, Δ10, Δ11, Δ12	Group 1 Continuous Process Vent and Applicable Monitoring	2455
	Continuous Process vent combined with Group 1 batch vent before control or recovery device	2455(b)(1)
	Existing Group 2 Process Vents not requiring monitoring: Vents with no recovery device with TRE >1.9, vents with recovery device with TRE >5	2455
	New Group 2 Continuous Process Vents not requiring monitoring: Vents with no recovery device with TRE >5, vents with recovery device with TRE >8	2455
	Existing Group 2 Continuous Process Vents requiring monitoring (vents using a recovery device to maintain 1.9 < TRE <= 5).	2455(c)(1)
	New Group 2 Continuous Process Vents with 5 < TRE <= 8 before recovery devices.	2455(c)(1)
	Gaseous streams routed to a Fuel Gas System are not process vents and have no applicable requirements under 40 CFR 63 Subpart FFFF.	2550
Process Vents Emitting Hydrogen Halide or Halogen HAPs		
	Process with collective sum of hydrogen halide and hydrogen HAPs < 1,000 lb/year	2465(b), 1257(d)(2)(i)
	Process with collective sum of hydrogen halide and hydrogen HAPs >= 1,000 lb/year	2465(c), 994
	New process vents that emit HAP metals	2465(d)
Batch Process Vents		
	Group 1 process vents and applicable monitoring	2460
	Group 2 process vents	2460, 2525(e)
	Process with non-reactive HAP usage < 10,000 lb/year	2460(b)(7)
	Halogenated Group 1 batch process vents for which a combustion device is used to control organic HAP emissions	2460
Storage Vessels		
	Group 1 storage vessels (storage, surge control, and bottoms receivers) storing a liquid for which the maximum true vapor pressure of organic HAPs > 76.6 kPa (527.9 psi)	2470, 2450(r), 982
	Group 1 storage vessels (storage, surge control, and bottoms receivers) storing a liquid for which the maximum true vapor pressure of organic HAPs < 76.6 kPa (527.9 psi)	2470, 2450(r), Subpart WW
DE-25 (Vent E), DE-26 (Vent E1), EE-25 (Vent E2)	Group 2 Storage Vessels (storage, surge control, and bottoms receivers)	2470, 2450(r)
	Halogenated Group 1 vessels (storage, surge control, and bottoms receivers) for which a combustion device is used to control organic HAP emissions.	2470
Transfer Operations		
	Group 1 transfer racks and applicable monitoring and testing	2475
	Group 2 transfer rack	
	Halogenated Group 1 transfer racks for which a combustion device is used to control organic HAP emissions	2475
Equipment Leaks		
Vent I	Equipment in OHAP service complying with 40 CFR 63 Subpart H.	2480(a)
	Equipment in OHAP service complying with 40 CFR 63 Subpart UU.	2480(a)
	Equipment in OHAP service complying with 40 CFR 63 Subpart F.	2480(a)
Process Wastewater		
	Group 1 wastewater stream	2485(c), (n), 132-148
W10, W15	Group 2 wastewater stream	2485
	Standards for waste management units managing Group 1 wastewater stream or residuals removed from Group 1 streams	2485(d)
	Liquid streams in open systems	2485(l), 149
Emissions averaging		
	Comply with the emissions averaging plan for selected emission points	2500, 150
Recordkeeping and Reporting		
MON Subpart FFFF points as applicable	Recordkeeping and reporting applicable MON emission points	2520, 2525

**MON Overlap Provisions
 40 CFR Part 63 Subpart FFFF
 Specific Applicability Provisions
 MSOP-09, PES B-270MP-1**

Identification	MON Category	Overlap	Compliance Requirement	Rule Citation from 40 CFR 63
	Group 1 MON Batch Process Vent	MCPU containing Batch Process Vent is also part of a HON CPU	Comply with MON for Batch vent and HON for all other HON equipment	2535(a)(1)
	MON Group 1 process vent	Subject to NSPS Part 60 Subpart DDD	Comply with MON Group 1 Process Vent provisions, but must apply to TOC, not just HAP	2535(h)
		Subject to NSPS Part 60 Subpart III		
Δ5, Δ7, Δ12		Subject to NSPS Part 60 Subpart NNN		
Δ5, Δ7, Δ10, Δ11, Δ12		Subject to NSPS Part 60 Subpart RRR		
	MON Group 2 Process Vent	Subject to NSPS Part 60 Subpart DDD	Comply with MON Group 2 Process Vent provisions, but must apply to TOC, not just HAP	2535(h)
		Subject to NSPS Part 60 Subpart III		
		Subject to NSPS Part 60 Subpart NNN		
		Subject to NSPS Part 60 Subpart RRR		
	MON Equipment Subject to Leak Detection and Repair	Subject to RCRA parts 264 or 265 subpart BB	Comply with MON Leak Detection and Repair OR May comply with recordkeeping and reporting requirements in RCRA to extent that MON requirements are duplicated	2535(b)(2)
		Subject to Part 60 Subpart VV or Part 61 Subpart V	Comply with MON Leak Detection and Repair, but must include all TOC, not just HAP	
	MON Group 1 tank	Subject to Part 60 Subpart Kb	Comply with MON	2535(c)
		Subject to Part 61 Subpart Y		
	MON Group 1 wastewater	Subject to Part 63 Subpart GGG (Pharma MACT) Group 1 wastewater requirements	Comply with MON	2535(e)
		Subject to Part 63 Subpart MMM (Pesticide MACT) Group 1 wastewater requirements	Comply with MON, except that the 99% reduction requirement for streams subject to §63.1362(d)(10) still applies.	2535(f)
		Subject to Parts 260 through 272	Comply with the most stringent. Notify in NOC.	2535(g)
		Subject to Part 61 Subpart FF	Comply with MON Group 1 wastewater provisions	2535(j)
	MON Group 1 wastewater	Subject to Part 61 Subpart FF reporting and recordkeeping only	Comply with MON Group 2 recordkeeping and reporting	2535(j)
	MON Group 1 transfer rack	Subject to Part 61 Subpart BB	Comply with MON Group 1 transfer rack provisions	2535 (i)(2)(i)
	MON Group 2 transfer rack	Subject to Part 61 Subpart BB	Comply with MON Group 1 transfer rack provisions or continue compliance with BB	2535(i)(2)(i)
		Subject to Part 61 Subpart BB reporting and recordkeeping only		2535 (i)(2)(ii)
	MON Group 1 control device	Subject to RCRA parts 264 or 265 Subparts AA, BB, or CC	May comply with either rule, but must report per §2520(e)	2535(b)(1)
	Offsite reloading or cleaning facility	Subject to any other subpart of part 63	Satisfies MON. Notify alternate Subpart in MON NOC.	2535(a)(2)

**Group IV Polymers & Resins: 40 CFR Part 63 Subpart JJJ
Specific Applicability Determinations
MSOP-09, PES B-270RC-1**

Identification	Category	Rule Citation
Continuous PET Process Section Vents		
	PET using a Continuous Dimethyl Terephthalate Process – Material Recovery Sections and applicable Monitoring	40 CFR 63.1316(b)(1)(i), 63.1317
A, B, I, J	PET using a Continuous Dimethyl Terephthalate Process – Polymerization Reaction Sections and applicable Monitoring	40 CFR 63.1316(b)(1)(ii), 63.1317
	PET using a Continuous Terephthalic Acid Process – Raw Material Preparation Sections and applicable Monitoring	40 CFR 63.1316(b)(2)(i), 63.1317
	PET using a Continuous Terephthalic Acid Process – Polymerization Reaction Sections and applicable Monitoring	40 CFR 63.1316(b)(2)(ii), 63.1317
Other Continuous Process Vents		
	Group 1 Process Vent and applicable Monitoring	40 CFR 63.1315(a), 63.113(a), 63.114
	Group 2 Process Vent with $TRE \leq 4.0$ and applicable Monitoring	40 CFR 63.1315(a), 63.113(d), 63.114
	Group 2 Process Vent with $TRE > 4.0$	40 CFR 63.1315(a), 63.113(e)
	Group 2 Process Vent with Low Flow	40 CFR 63.1315(a), 63.113(f)
	Group 2 Process Vent with Low Concentration	40 CFR 63.1315(a), 63.113(g)
Batch Process Vents		
	Group 1 Batch Process Vent and applicable Monitoring	40 CFR 63.1322(a), 63.1324
	Aggregate Batch Vent Stream and applicable Monitoring	40 CFR 63.1322(b), 63.1324
	Combination of Batch Process Vents or Aggregate Batch Vent Streams with Continuous Process Vents	40 CFR 63.1322(e)
	Group 2 Batch Process Vent with Annual Emissions $\geq 11,800$ kg/yr	40 CFR 63.1322(f)
	Group 2 Batch Process Vent with Annual Emissions $< 11,800$ kg/yr	40 CFR 63.1322(g)
Storage Vessels		
	Group 1 Storage Vessel storing a liquid for which the maximum true vapor pressure of organic HAPs is < 76.6 kPa	40 CFR 63.1314(a), 63.119(a)(1)
	Group 1 Storage Vessel storing a liquid for which the maximum true vapor pressure of organic HAPs is ≥ 76.6 kPa	40 CFR 63.1314(a), 63.119(a)(2)
	Group 2 Storage Vessel	40 CFR 63.1314(a), 63.119(a)(3)
	Storage Vessels Containing Ethylene Glycol are Exempt from Storage Vessel Provision	40 CFR 63.1314(d)
Process Wastewater		
	Existing Group 1 Wastewater Stream and applicable Monitoring	40 CFR 1330(a), 63.132(a)(2), 63.143
	Existing Group 2 Wastewater Stream	40 CFR 1330(a), 63.132(a)(3)
	Group 1 Wastewater Stream at a New Source and applicable Monitoring	40 CFR 1330(a), 63.132(b)(3), 63.143
	Group 2 Wastewater Stream at a New Source	40 CFR 1330(a), 63.132(b)(4)
Equipment Leaks (also Surge Control Vessels and Bottoms Receivers)		
G	Equipment leak provisions	40 CFR 63.1331
G*	Alternative monitoring for equipment in ethylene glycol vapor service (letter from R. Douglas Neeley, EPA Region 4, to Susan C. Myers, March 7, 2002).	N/A
Recordkeeping and Reporting		
JJJ subject points as applicable	Recordkeeping and Reporting	40 CFR 63.1335
* See Appendix A of the Title V application dated March 20, 2014, PES B-270RC-1, for requirements for affected equipment in ethylene glycol service.		

**New Source Performance Standards
 40 CFR Part 60 – Specific Applicability Determinations
 MSOP-09, PES B-270RC-1**

Identification	Category	Rule Citation
Subpart Kb – Storage Vessels		
	Storage Vessels storing a VOL having a maximum true vapor pressure less than 76.7 kPa and must meet standards.	40 CFR 60.112b(a)
	Storage Vessels storing a VOL having a maximum true vapor pressure equal to or greater than 76.7 kPa and must meet standards.	40 CFR 60.112b(b)
	Storage Vessels that are not required to meet standards.	40 CFR 60.110b
Kb subject points as applicable	Monitoring, recordkeeping, and reporting	40 CFR 60.115b, 60.116b
Subpart VVa – Equipment Leaks		
	Work practice standards for pumps, compressors, pressure relief devices, sampling connection systems, open-ended valves or lines, etc.	40 CFR 60.482a, 60.483a
Portions of Vent G in VOC service	Comply with 40 CFR 63 Subpart H	40 CFR 60.480a(e)(2)
Portions of Vent G in ethylene glycol vapor service	Alternative monitoring for equipment in ethylene glycol vapor service (letter from Winston A. Smith, EPA Region 4, to Robert L. Barnes, October 2, 2001).	N/A
VVa subject points as applicable	Monitoring, recordkeeping, and reporting	40 CFR 60.115b, 60.116b
Subpart III – Air Oxidation		
	TRE less than or equal to 1.0 (Control required)	40 CFR 60.612(a) or (b)
	TRE greater than 1.0 but less than or equal to 4.0	40 CFR 60.612(c)
	TRE greater than 4.0	40 CFR 60.610(c)
	Monitoring, recordkeeping, and reporting	40 CFR 60.613, 60.615
Subpart NNN – Distillation		
DM-01, DN-01 (Δ5)**	TRE less than or equal to 1.0 (Control required)	40 CFR 60.662(a) or (b)
	TRE greater than 1.0 but less than or equal to 8.0	40 CFR 60.662(c)
DM-03 (Vent L)	TRE greater than 8.0	40 CFR 60.660(c)(4)
	Low Flow Exemption	40 CFR 60.660(c)(6)
	Design Capacity Exemption	40 CFR 60.660(c)(5)
NNN Points as applicable	Monitoring, recordkeeping, and reporting	40 CFR 60.663, 60.665
Subpart RRR – Reactors		
	TRE less than or equal to 1.0 (Reduce TOC by 98% or to 20 ppmv)	40 CFR 60.702(a)
	TRE less than or equal to 1.0 (combust in a flare)	40 CFR 60.702(b)
	TRE greater than 1.0 but less than or equal to 8.0	40 CFR 60.702(c)
	TRE greater than 8.0	40 CFR 60.700(c)(2)
	Low Flow Exemption	40 CFR 60.700(c)(4)
	Design Capacity Exemption	40 CFR 60.700(c)(3)
	Low Concentration Exemption	40 CFR 60.700(c)(8)
	Routed to distillation unit subject to subpart NNN except for a pressure relief valve	40 CFR 60.700(c)(5)
RRR points as applicable	Monitoring, recordkeeping, and reporting	40 CFR 60.703, 60.705

**40 CFR Part 63 Subpart FFFF
 Specific Applicability Determinations
 MSOP-09, PES B-270RC-1
 Tritan MCPU**

Identification	Category	Rule Citation from 40 CFR 63
Continuous Process Vents		
DM-01, DN-01 (A5)	Group 1 Continuous Process Vent and Applicable Monitoring	2455
	Continuous Process vent combined with Group 1 batch vent before control or recovery device	2455(b)(1)
DM-03 (Vent L)	Existing Group 2 Process Vents not requiring monitoring: Vents with no recovery device with TRE >1.9, vents with recovery device with TRE >5	2455
	New Group 2 Continuous Process Vents not requiring monitoring: Vents with no recovery device with TRE >5, vents with recovery device with TRE >8	2455
	Existing Group 2 Continuous Process Vents requiring monitoring (vents using a recovery device to maintain 1.9 < TRE <= 5).	2455(c)(1)
	New Group 2 Continuous Process Vents with 5 < TRE <= 8 before recovery devices.	2455(c)(1)
	Gaseous streams routed to a Fuel Gas System are not process vents and have no applicable requirements under 40 CFR 63 Subpart FFFF.	2550
Process Vents Emitting Hydrogen Halide or Halogen HAPs		
	Process with collective sum of hydrogen halide and hydrogen HAPs < 1,000 lb/year	2465(b), 1257(d)(2)(i)
	Process with collective sum of hydrogen halide and hydrogen HAPs >= 1,000 lb/year	2465(c), 994
	New process vents that emit HAP metals	2465(d)
Batch Process Vents		
	Group 1 process vents and applicable monitoring	2460
	Group 2 process vents	2460, 2525(e)
	Process with non-reactive HAP usage < 10,000 lb/year	2460(b)(7)
	Halogenated Group 1 batch process vents for which a combustion device is used to control organic HAP emissions	2460
Storage Vessels		
	Group 1 storage vessels (storage, surge control, and bottoms receivers) storing a liquid for which the maximum true vapor pressure of organic HAPs > 76.6 kPa (527.9 psi)	2470, 2450(r), 982
	Group 1 storage vessels (storage, surge control, and bottoms receivers) storing a liquid for which the maximum true vapor pressure of organic HAPs < 76.6 kPa (527.9 psi)	2470, 2450(r), Subpart WW
Vents E and M	Group 2 Storage Vessels (storage, surge control, and bottoms receivers)	2470, 2450(r)
	Halogenated Group 1 vessels (storage, surge control, and bottoms receivers) for which a combustion device is used to control organic HAP emissions.	2470
Transfer Operations		
	Group 1 transfer racks and applicable monitoring and testing	2475
	Group 2 transfer rack	
	Halogenated Group 1 transfer racks for which a combustion device is used to control organic HAP emissions	2475
Equipment Leaks		
Vent G	Equipment in OHAP service complying with 40 CFR 63 Subpart H.	2480(a)
	Equipment in OHAP service complying with 40 CFR 63 Subpart UU.	2480(a)
	Equipment in OHAP service complying with 40 CFR 63 Subpart F.	2480(a)
Process Wastewater		
	Group 1 wastewater stream	2485(c), (n), 132-148
W13	Group 2 wastewater stream	2485
	Standards for waste management units managing Group 1 wastewater stream or residuals removed from Group 1 streams	2485(d)
	Liquid streams in open systems	2485(l), 149
Process Unit Group		
MACT Subpart JJJ points as applicable	Comply with the Process Unit Group Provisions for selected emission points.	2435(e), 2535(l)
Emissions averaging		
	Comply with the emissions averaging plan for selected emission points	2500, 150
Recordkeeping and Reporting		
MON Subpart FFFF points as applicable	Recordkeeping and reporting applicable MON emission points	2520, 2525

**MON Overlap Provisions
 40 CFR Part 63 Subpart FFFF
 Specific Applicability Provisions
 MSOP-09, PES B-270RC-1**

Identification	MON Category	Overlap	Compliance Requirement	Rule Citation from 40 CFR 63
	Group 1 MON Batch Process Vent	MCPU containing Batch Process Vent is also part of a HON CPU	Comply with MON for Batch vent and HON for all other HON equipment	2535(a)(1)
DM-01, DN-01 (Δ5)	MON Group 1 process vent	Subject to NSPS Part 60 Subpart DDD	Comply with MON Group 1 Process Vent provisions, but must apply to TOC, not just HAP	2535(h)
		Subject to NSPS Part 60 Subpart III		
		Subject to NSPS Part 60 Subpart NNN		
		Subject to NSPS Part 60 Subpart RRR		
DM-03 (Vent L)	MON Group 2 Process Vent	Subject to NSPS Part 60 Subpart DDD	Comply with MON Group 2 Process Vent provisions, but must apply to TOC, not just HAP	2535(h)
		Subject to NSPS Part 60 Subpart III		
		Subject to NSPS Part 60 Subpart NNN		
		Subject to NSPS Part 60 Subpart RRR		
Vent G	MON Equipment Subject to Leak Detection and Repair	Subject to RCRA parts 264 or 265 subpart BB	Comply with MON Leak Detection and Repair OR May comply with recordkeeping and reporting requirements in RCRA to extent that MON requirements are duplicated	2535(b)(2)
		Subject to Part 60 Subpart VV or Part 61 Subpart V	Comply with MON Leak Detection and Repair, but must include all TOC, not just HAP	
	MON Group 1 tank	Subject to Part 60 Subpart Kb	Comply with MON	2535(c)
		Subject to Part 61 Subpart Y		
	MON Group 1 wastewater	Subject to Part 63 Subpart GGG (Pharma MACT) Group 1 wastewater requirements	Comply with MON	2535(e)
		Subject to Part 63 Subpart MMM (Pesticide MACT) Group 1 wastewater requirements	Comply with MON, except that the 99% reduction requirement for streams subject to §63.1362(d)(10) still applies.	2535(f)
		Subject to Parts 260 through 272	Comply with the most stringent. Notify in NOC.	2535(g)
		Subject to Part 61 Subpart FF	Comply with MON Group 1 wastewater provisions	2535(j)
	MON Group 1 wastewater	Subject to Part 61 Subpart FF reporting and recordkeeping only	Comply with MON Group 2 recordkeeping and reporting	2535(j)
	MON Group 1 transfer rack	Subject to Part 61 Subpart BB	Comply with MON Group 1 transfer rack provisions	2535 (i)(2)(i)
	MON Group 2 transfer rack	Subject to Part 61 Subpart BB	Comply with MON Group 1 transfer rack provisions or continue compliance with BB	2535(i)(2)(i)
		Subject to Part 61 Subpart BB reporting and recordkeeping only		2535 (i)(2)(ii)
	MON Group 1 control device	Subject to RCRA parts 264 or 265 Subparts AA, BB, or CC	May comply with either rule, but must report per §2520(e)	2535(b)(1)
	Offsite reloading or cleaning facility	Subject to any other subpart of part 63	Satisfies MON. Notify alternate Subpart in MON NOC.	2535(a)(2)

40 CFR Part 63 Subpart FFFF
Specific Applicability Determinations
MSOP-09, PES B-270SS-1
Solid Stating MCPU

Identification	Category	Rule Citation from 40 CFR 63
Continuous Process Vents		
	Group 1 Continuous Process Vent and Applicable Monitoring	2455
	Continuous Process vent combined with Group 1 batch vent before control or recovery device	2455(b)(1)
	Existing Group 2 Process Vents not requiring monitoring: Vents with no recovery device with TRE >1.9, vents with recovery device with TRE >5	2455
	New Group 2 Continuous Process Vents not requiring monitoring: Vents with no recovery device with TRE >5, vents with recovery device with TRE >8	2455
	Existing Group 2 Continuous Process Vents requiring monitoring (vents using a recovery device to maintain 1.9 < TRE <= 5).	2455(c)(1)
	New Group 2 Continuous Process Vents with 5 < TRE <= 8 before recovery devices.	2455(c)(1)
	Gaseous streams routed to a Fuel Gas System are not process vents and have no applicable requirements under 40 CFR 63 Subpart FFFF.	2550
Process Vents Emitting Hydrogen Halide or Halogen HAPs		
	Process with collective sum of hydrogen halide and hydrogen HAPs < 1,000 lb/year	2465(b), 1257(d)(2)(i)
	Process with collective sum of hydrogen halide and hydrogen HAPs >= 1,000 lb/year	2465(c), 994
	New process vents that emit HAP metals	2465(d)
Batch Process Vents		
	Group 1 process vents and applicable monitoring	2460
△ 4	Group 2 process vents	2460, 2525(e)
	Process with non-reactive HAP usage < 10,000 lb/year	2460(b)(7)
	Halogenated Group 1 batch process vents for which a combustion device is used to control organic HAP emissions	2460
Storage Vessels		
	Group 1 storage vessels (storage, surge control, and bottoms receivers) storing a liquid for which the maximum true vapor pressure of organic HAPs > 76.6 kPa (527.9 psi)	2470, 2450(r), 982
	Group 1 storage vessels (storage, surge control, and bottoms receivers) storing a liquid for which the maximum true vapor pressure of organic HAPs < 76.6 kPa (527.9 psi)	2470, 2450(r), Subpart WW
	Group 2 Storage Vessels (storage, surge control, and bottoms receivers)	2470, 2450(r)
	Halogenated Group 1 vessels (storage, surge control, and bottoms receivers) for which a combustion device is used to control organic HAP emissions.	2470
Transfer Operations		
	Group 1 transfer racks and applicable monitoring and testing	2475
	Group 2 transfer rack	
	Halogenated Group 1 transfer racks for which a combustion device is used to control organic HAP emissions	2475
Equipment Leaks		
Vent F1	Equipment in OHAP service complying with 40 CFR 63 Subpart H.	2480(a)
	Equipment in OHAP service complying with 40 CFR 63 Subpart UU.	2480(a)
	Equipment in OHAP service complying with 40 CFR 63 Subpart F.	2480(a)
Process Wastewater		
	Group 1 wastewater stream	2485(c), (n), 132-148
W3, W4, W5	Group 2 wastewater stream	2485
	Standards for waste management units managing Group 1 wastewater stream or residuals removed from Group 1 streams	2485(d)
	Liquid streams in open systems	2485(l), 149
Emissions averaging		
	Comply with the emissions averaging plan for selected emission points	2500, 150
Recordkeeping and Reporting		
MON Subpart FFFF points as applicable	Recordkeeping and reporting applicable MON emission points	2520, 2525

**Group IV Polymers & Resins: 40 CFR Part 63 Subpart JJJ
Specific Applicability Determinations
MSOP-09, PES B-270TF-1**

Identification	Category	Rule Citation
Continuous PET Process Section Vents		
	PET using a Continuous Dimethyl Terephthalate Process – Material Recovery Sections and applicable Monitoring	40 CFR 63.1316(b)(1)(i), 63.1317
	PET using a Continuous Dimethyl Terephthalate Process – Polymerization Reaction Sections and applicable Monitoring	40 CFR 63.1316(b)(1)(ii), 63.1317
	PET using a Continuous Terephthalic Acid Process – Raw Material Preparation Sections and applicable Monitoring	40 CFR 63.1316(b)(2)(i), 63.1317
	PET using a Continuous Terephthalic Acid Process – Polymerization Reaction Sections and applicable Monitoring	40 CFR 63.1316(b)(2)(ii), 63.1317
Other Continuous Process Vents		
	Group 1 Process Vent and applicable Monitoring	40 CFR 63.1315(a), 63.113(a), 63.114
	Group 2 Process Vent with $TRE \leq 4.0$ and applicable Monitoring	40 CFR 63.1315(a), 63.113(d), 63.114
	Group 2 Process Vent with $TRE > 4.0$	40 CFR 63.1315(a), 63.113(e)
	Group 2 Process Vent with Low Flow	40 CFR 63.1315(a), 63.113(f)
	Group 2 Process Vent with Low Concentration	40 CFR 63.1315(a), 63.113(g)
Batch Process Vents		
	Group 1 Batch Process Vent and applicable Monitoring	40 CFR 63.1322(a), 63.1324
	Aggregate Batch Vent Stream and applicable Monitoring	40 CFR 63.1322(b), 63.1324
	Combination of Batch Process Vents or Aggregate Batch Vent Streams with Continuous Process Vents	40 CFR 63.1322(e)
	Group 2 Batch Process Vent with Annual Emissions $\geq 11,800$ kg/yr	40 CFR 63.1322(f)
	Group 2 Batch Process Vent with Annual Emissions $< 11,800$ kg/yr	40 CFR 63.1322(g)
Storage Vessels		
DA-07 and DA-08 (Vent A)*	Group 1 Storage Vessel storing a liquid for which the maximum true vapor pressure of organic HAPs is < 76.6 kPa	40 CFR 63.1314(a), 63.119(a)(1)
	Group 1 Storage Vessel storing a liquid for which the maximum true vapor pressure of organic HAPs is ≥ 76.6 kPa	40 CFR 63.1314(a), 63.119(a)(2)
DA-03 and DA-04 (Vent A)	Group 2 Storage Vessel	40 CFR 63.1314(a), 63.119(a)(3)
DA-02 (Vent E), DA-06, (Vent H), SA-01 (Vent I)	Storage Vessels Containing Ethylene Glycol are Exempt from Storage Vessel Provision	40 CFR 63.1314(d)
Process Wastewater		
	Existing Group 1 Wastewater Stream and applicable Monitoring	40 CFR 1330(a), 63.132(a)(2), 63.143
WX (Pit 2 scrubber) WA (Vent A)	Existing Group 2 Wastewater Stream	40 CFR 1330(a), 63.132(a)(3)
	Group 1 Wastewater Stream at a New Source and applicable Monitoring	40 CFR 1330(a), 63.132(b)(3), 63.143
	Group 2 Wastewater Stream at a New Source	40 CFR 1330(a), 63.132(b)(4)
Equipment Leaks (also Surge Control Vessels and Bottoms Receivers)		
	Equipment leak provisions	40 CFR 63.1331
Vent B	Alternative monitoring for equipment in ethylene glycol vapor service (letter from R. Douglas Neeley, EPA Region 4, to Susan C. Myers, March 7, 2002).	N/A
Recordkeeping and Reporting		
JJJ subject points as applicable	Recordkeeping and Reporting	40 CFR 63.1335

* Operating plan for Vent A: See pages A-1 through A-3 of the Title V application for PES B270TF-1 dated March 20, 2014.

**40 CFR Part 63 Subpart FFFF
 Specific Applicability Determinations
 MSOP-09, PES B-270TF-1**

Identification	Category	Rule Citation from 40 CFR 63
Continuous Process Vents		
	Group 1 Continuous Process Vent and Applicable Monitoring	2455
	Continuous Process vent combined with Group 1 batch vent before control or recovery device	2455(b)(1)
	Existing Group 2 Process Vents not requiring monitoring: Vents with no recovery device with TRE >1.9, vents with recovery device with TRE >5	2455
	New Group 2 Continuous Process Vents not requiring monitoring: Vents with no recovery device with TRE >5, vents with recovery device with TRE >8	2455
	Existing Group 2 Continuous Process Vents requiring monitoring (vents using a recovery device to maintain 1.9 < TRE <= 5).	2455(c)(1)
	New Group 2 Continuous Process Vents with 5 < TRE <= 8 before recovery devices.	2455(c)(1)
	Gaseous streams routed to a Fuel Gas System are not process vents and have no applicable requirements under 40 CFR 63 Subpart FFFF.	2550
Process Vents Emitting Hydrogen Halide or Halogen HAPs		
	Process with collective sum of hydrogen halide and hydrogen HAPs < 1,000 lb/year	2465(b), 1257(d)(2)(i)
	Process with collective sum of hydrogen halide and hydrogen HAPs >= 1,000 lb/year	2465(c), 994
	New process vents that emit HAP metals	2465(d)
Batch Process Vents		
	Group 1 process vents and applicable monitoring	2460
	Group 2 process vents	2460, 2525(e)
	Process with non-reactive HAP usage < 10,000 lb/year	2460(b)(7)
	Halogenated Group 1 batch process vents for which a combustion device is used to control organic HAP emissions	2460
Storage Vessels		
	Group 1 storage vessels (storage, surge control, and bottoms receivers) storing a liquid for which the maximum true vapor pressure of organic HAPs > 76.6 kPa (527.9 psi)	2470, 2450(r), 982
DA-71, HA-01 (Vent U)**	Group 1 storage vessels (storage, surge control, and bottoms receivers) storing a liquid for which the maximum true vapor pressure of organic HAPs < 76.6 kPa (527.9 psi)	2470, 2450(r), Subpart WW
* Listed below	Group 2 Storage Vessels (storage, surge control, and bottoms receivers)	2470, 2450(r)
	Halogenated Group 1 vessels (storage, surge control, and bottoms receivers) for which a combustion device is used to control organic HAP emissions.	2470
Transfer Operations		
	Group 1 transfer racks and applicable monitoring and testing	2475
	Group 2 transfer rack	
	Halogenated Group 1 transfer racks for which a combustion device is used to control organic HAP emissions	2475
Equipment Leaks		
Vent B	Equipment in OHAP service complying with 40 CFR 63 Subpart H.	2480(a)
	Equipment in OHAP service complying with 40 CFR 63 Subpart UU.	2480(a)
	Equipment in OHAP service complying with 40 CFR 63 Subpart F.	2480(a)
Process Wastewater		
	Group 1 wastewater stream	2485(c), (n), 132-148
W11, W12, W14 (Pit 1 scrubber)	Group 2 wastewater stream	2485
	Standards for waste management units managing Group 1 wastewater stream or residuals removed from Group 1 streams	2485(d)
	Liquid streams in open systems	2485(l), 149
Process Unit Group		
MACT Subpart JJJ points as applicable	Comply with the Process Unit Group Provisions for selected emission points.	2435(e), 2535(l)
Emissions averaging		
	Comply with the emissions averaging plan for selected emission points	2500, 150
Recordkeeping and Reporting		
MON Subpart FFFF points as applicable	Recordkeeping and reporting applicable MON emission points	2520, 2525

* DA-01 (Vent A), DA-70 (Vent A), DM-42 (Vent M), JA-01 (Vent P), DK-03/04 (Vent R), JJ-01 (Vent R), JP-01/02 (Vent R), DM-41 (Vent S), DM-43 (Vent S), DM-45 (Vent S),

** Design Evaluation for Vent U: See pages B-1 through B-6 of the Title V application for PES B-270-1 dated March 20, 2014.