

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. They seek to obtain a significant modification to a major source operating permit for changes to periodic monitoring requirements at their chemical manufacturing operation. The existing Title V operating permit subject to the modification is identified as follows: Division identification number 82-0003/565421 (MSOP-13). The process emission source affected by the modification is identified as follows: 82-0003-101/PES CA-MNF. 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://www2.epa.gov/caa-permitting/caa-permitting-epas-southeastern-region>

Copies of the application materials and draft permits 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
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Electronic copies of the draft permits are available by accessing the TDEC internet site located at:

<http://www.tn.gov/environment/topic/ppo-air>

Questions concerning the source(s) may be addressed to Mr. Travis Blake at (615) 532-0617 or by e-mail at [travis.blake@tn.gov](mailto:travis.blake@tn.gov).

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 received no later than 4:30 PM on November 21, 2016. To assure that written comments are received and addressed in a timely manner, written comments must be submitted using one of the following methods:

1. **Mail, private carrier, or hand delivery:** Address written comments to Travis Blake, Division of Air Pollution Control, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue 15<sup>th</sup> Floor, Nashville, Tennessee 37243.
2. **E-mail:** Submit electronic comments to [air.pollution.control@tn.gov](mailto:air.pollution.control@tn.gov).

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 2<sup>nd</sup> Floor, Nashville, TN 37243, 1-(866)-253-5827. Hearing impaired callers may use the Tennessee Relay Service, 1-(800)-848-0298.

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For the Sullivan County "Kingsport Times-News" -- publish once during the time period of October 17, 2016, through October 21, 2016.

Air Pollution Control                      DATE: OCTOBER 5, 2016  
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 15<sup>th</sup> Floor, Nashville, Tennessee 37243.

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



**SIGNIFICANT MODIFICATION #1 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: **June 29, 2012**

Permit Number: **565421**

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

Expiration Date: **June 28, 2017**

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

Installation Address:  
**South Eastman Road  
Kingsport**

Installation Description: **MSOP-13**

ESRN	PES	Description
82-0003-160	CA-SPIN	Synthetic Fiber Production
82-0003-100	CA-DRY	Manufacture of Cellulose Esters
82-0003-101	CA-MNF	Manufacture of Cellulose Esters
82-0003-161	B-81-3	Cellulose Esters Blending Operations
82-0003-162	B-81-7	Bag and Box Pouring Station and Bag Loading Station
82-0003-163	B-136-1	Ester Storage and Solids Handling

Emission Source Reference No.: **82-0003 MSOP-13**

Renewal Application Due Date: **Between October 1, 2016, and December 30, 2016**

Primary SIC: 28

Information Relied Upon:

**Renewal Application dated February 3, 2012. Minor modification #1 application dated February 23, 2015. Significant modification #1 application dated August 25, 2016.**

(continued on the next page)

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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 SIGNIFICANT MODIFICATION #1 TO PERMIT NUMBER 565421

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**SECTION A**

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**GENERAL PERMIT CONDITIONS**

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**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 PM<sub>10</sub> on an allowable emission basis may do so if they have a specific PM<sub>10</sub> allowable emission standard. If a major source has a total particulate emission standard, but wishes to pay annual emission fees on an actual PM<sub>10</sub> emission basis, it may do so if the PM<sub>10</sub> actual emission levels are proven to the satisfaction of the Technical Secretary. The method to demonstrate the actual PM<sub>10</sub> emission levels must be made as part of the source's major source operating permit in advance in order to exercise this option. The PM<sub>10</sub> 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 PM<sub>10</sub> 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 (SM1). Permit renewal and expiration.**

- (a) An application for permit renewal must be submitted at least 180 days, but no more than 270 days prior to the expiration of this permit. Permit expiration terminates the source's right to operate unless a timely and complete renewal application has been submitted.
- (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.
  - 3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to Section 82.161.

- (b) If the permittee performs a service on motor (fleet) vehicles when this service involves ozone depleting substance refrigerant in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR, Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.
- (c) The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program(SNAP) promulgated pursuant to 40 CFR, Part 82, Subpart G, Significant New Alternatives Policy Program.

**A20.** 112 (r). The permittee shall comply with the requirement to submit to the Administrator or designated State Agency a risk management plan, including a registration that reflects all covered processes, by June 21, 1999, if the permittee's facility is required pursuant to 40 CFR, 68, to submit such a plan.

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## SECTION B

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

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**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 (SM1). 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. 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;

(c) Reserved.

(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.79, No. 144, July 28, 2014, pages 43661 through 43667

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

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: <a href="mailto:air.pollution.control@tn.gov">air.pollution.control@tn.gov</a>	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 deletes 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)

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## SECTION C

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### PERMIT CHANGES

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- 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)

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## SECTION D

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### GENERAL APPLICABLE REQUIREMENTS

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- 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**

<b>82-0003</b>	<b>Facility Description:</b>	Eastman Chemical Company - Tennessee Eastman Division facility in Kingsport manufactures chemicals, fibers, and plastics. The production of synthetic fibers, manufacture of cellulose esters, and the associated ester storage and solids handling operations are identified as MSOP-13 for Title V permitting purposes.
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Conditions E1 and E2 apply to all sources in Section E of this permit unless otherwise noted.

E1 (SM1). **Fee payment: allowable emissions basis.**

**FEE EMISSIONS SUMMARY TABLE FOR MAJOR SOURCE 82-0003 MSOP-13**

REGULATED POLLUTANTS	ALLOWABLE EMISSIONS (tons per AAP)	ACTUAL EMISSIONS (tons per AAP)	COMMENTS
<b>PARTICULATE MATTER (PM)</b>	<b>83</b>	<b>N/A</b>	<b>N/A</b>
PM <sub>10</sub>	N/A	N/A	N/A
SO <sub>2</sub>	N/A	N/A	N/A
VOC	314.75 SM1	N/A	Includes all fee emissions.
NO <sub>x</sub>	N/A	N/A	N/A
<b>CATEGORY OF MISCELLANEOUS HAZARDOUS AIR POLLUTANTS (HAP WITHOUT A STANDARD)*</b>			
VOC FAMILY GROUP	2.45 SM1	N/A	Fee emissions are included in VOC above. Maximum actual HAP emissions.
NON-VOC GASEOUS GROUP	N/A	N/A	N/A
PM FAMILY GROUP	N/A	N/A	N/A
<b>CATEGORY OF SPECIFIC HAZARDOUS AIR POLLUTANTS (HAP WITH A STANDARD)**</b>			
VOC FAMILY GROUP			40 CFR 63 Subpart FFFF. Fee emissions are not included in VOC above. Maximum actual HAP emissions.
Acetaldehyde	1.5 SM1	N/A	
Acetonitrile	0.02	N/A	
Acrylic Acid	0.01	N/A	
Benzene	0.1 SM1		
Cumene	0.24 SM1		
Methanol	5.7 SM1	N/A	
Methyl Ethyl Ketone	1.63 SM1	N/A	
Phenol	0.1 SM1	N/A	
Propionaldehyde	1.7 SM1	N/A	
NON-VOC GASEOUS GROUP	N/A	N/A	N/A
PM FAMILY GROUP	N/A	N/A	N/A
<b>CATEGORY OF NSPS POLLUTANTS NOT LISTED ABOVE***</b>			
EACH NSPS POLLUTANT NOT LISTED ABOVE	N/A	N/A	N/A

**NOTES**

**ALLOWABLE EMISSIONS** The term “allowable” as used here is synonymous with the term “allowable emissions” as defined under subparagraph 1200-03-26-.02(2)(d). These emission rates are intended solely for purposes of fee computation and in no way are to be considered the setting of binding emission limitations.

**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, 2016 and ends June 30, 2017**. The **next Annual Accounting Period begins July 1, 2017 and ends June 30, 2018**.

**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, SO<sub>2</sub>, VOC, NO<sub>x</sub> 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, SO<sub>2</sub>, VOC or NO<sub>x</sub>** 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).

#### END NOTES

**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, 2016**.

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 Technical Secretary at the address in Condition E2-1(b) of this permit.**

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 (SM1). Reporting requirements.**

- (a) **Semiannual reports.** Reporting periods shall be **January 1 to June 30** and **July 1 to December 31** of each calendar year. Reports shall be submitted within 60 days after the end of each 6-month period. Semiannual reports of this facility (**82-0003 MSOP-13**) shall include:

- (1) Any monitoring and recordkeeping required by Conditions **E3-2, E3-4, E4-2, E5-3, E5-5, E5-6, and E5-8** 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 report required by 40 CFR 63 Subpart FFFF (Condition **E5-9**).
- (3) The visible emissions evaluation readings from Conditions **E3-6, E4-1, and E5-1** 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.
- (4) 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. 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;
  - (3) Reserved.
  - (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.

**Submittals shall cover the 12-month period from July 1 of each calendar year to June 30 of the next calendar year and shall be submitted within 60 days after the end of each 12-month 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**

**and Air and EPCRA Enforcement Branch  
US EPA Region IV**

**East Tennessee Permit Program**  
**William R. Snodgrass Tennessee Tower**  
**312 Rosa L Parks Avenue, 15<sup>th</sup> Floor**  
**Nashville, TN 37243**  
**e-mail: air.pollution.control@tn.gov**

**61 Forsyth Street, SW**  
**Atlanta, Georgia 30303**

40 CFR Part 70.6(c)(5)(iii) as amended in the Federal Register Vol.79, No. 144, July 28, 2014, pages 43661 through 43667

- (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 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 the owner or operator maintains records of operating hours or fuel usage 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 the results of all calculations, must be entered into the log no later than 30 days from the end of the month for which the data is required.
- (b) For weekly recordkeeping, all data, including the results of all calculations, must be entered into the log no later than 14 days from the end of the week for which the data is required.
- (c) For daily recordkeeping, all data, including the results of all calculations, must be entered into the log no later than 14 days from the end of the day for which the data is required.

**E2-5. Visible Emissions Evaluation: General Requirements.** For all emission sources that use the 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. Identification of Responsible Official, Technical Contact, and Billing Contact**

- (a) The application that was utilized in the preparation of this renewal permit is dated February 3, 2012, and is signed by Jeffrey W. Phebus, Acetate Fibers Division Superintendent. Per the letter dated February 3, 2015, the Responsible Official for this facility is William J. Fritsch, Acetate Fibers Division Superintendent. 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 application that was utilized in the preparation of this renewal permit is dated February 3, 2012. The letter dated January 8, 2015, identifies Frederick T. Mullner, Sr. 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 application that was utilized in the preparation of this renewal permit is dated February 3, 2012. The letter dated January 8, 2015, identifies Hanneke Counts, Director, Global Environmental Affairs, as the Billing Contact for the permitted facility. 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.

**Synthetic Fiber Production (82-0003-160)  
 Emission Source Specific Operating Permit Conditions\*  
 Conditions E3-1 through E3-7 Apply**

1. EASTMAN SOURCE NUMBER		2. EMISSION SOURCE DESCRIPTION		3. EMISSION SOURCE REFERENCE NUMBER		4. MSOP NUMBER		5. PERMIT NUMBER	
PES CA-SPIN		Synthetic Fiber Production		82-0003-160		MSOP-13		565421	
6. ID	7. PORTION OF SOURCE SUBJECT TO REQUIREMENT	8. POLLUTANT	9. UNDERLYING APPLICABLE REQUIREMENT(S)	10. LIMITATION OR STANDARD	11. REFERENCE TEST METHOD	12. PERIODIC MONITORING METHOD(S)			
<b>FEDERALLY AND STATE ENFORCEABLE CONDITIONS</b>									
E3-1	Vents A, B, C, D, E, F, T, and U	Particulates	TAPCR 1200-03-07-.01(5): Permit Number 950517P, Condition 4	0.47 lb/hr	EPA Method 5	Certification			
E3-2	Vents G, H, I, J, K, L, M, N, O, and Flow Diagram Point P	CO	TAPCR 1200-03-07-.07(2): Permit Number 950517P, Condition 6	17.4 lb/hr	EPA Method 10	Vents G, H, I, J, K, L, M, N, and Flow Diagram Point P – Certification  Vent O – Continuous CO Emissions Monitoring: The average CO emissions rate in lb/hr for each carbon bed will be calculated by using the CO composition from each valid operating adsorption cycle and the maximum blower capacity. The rate will be calculated at the end of each operating day. The 24-hour block average for each bed will be summed and compared to the emission limit. See Operating Plan in Title V Application dated February 3, 2012, PES CA-SPIN, pages 20 and 21.			
E3-3	<i>See State-Only Enforceable Conditions Below</i>								
E3-4	Flow Diagram Point R (Entire Source)	VOC	TAPCR 1200-03-07-.07(2): Permit Number 950517P, Condition 7	15 tons/year on a 12-month moving total basis	Engineering Assessment	Recordkeeping: Sample the supply tank weekly. See Operating Plan in Title V Application dated February 3, 2012, PES CA-SPIN, page 22.			
E3-5	Entire Source	Particulates	TAPCR 1200-03-07-.01(5): Permit Number 950517P, Condition 5	3.56 tons/year	Engineering Assessment	Certification			
E3-6 (SM1)	Entire Source	Visible Emissions	TAPCR 1200-03-05: Permit Number 950517P, Condition 10	20% Opacity	EPA Method 9	Visible Emissions Evaluation: Emission units requiring initial VEEs – None, per TAPCD Opacity Matrix dated September 11, 2013.			
E3-7	<i>See State-Only Enforceable Conditions Below</i>								

\* See Table Notes for additional clarification of permit conditions.

**Synthetic Fiber Production (82-0003-160)**  
**Emission Source Specific Operating Permit Conditions\***  
**Conditions E3-1 through E3-7 Apply**

1. EASTMAN SOURCE NUMBER		2. EMISSION SOURCE DESCRIPTION		3. EMISSION SOURCE REFERENCE NUMBER		4. MSOP NUMBER		5. PERMIT NUMBER	
PES CA-SPIN		Synthetic Fiber Production		82-0003-160		MSOP-13		565421	
6. ID	7. PORTION OF SOURCE SUBJECT TO REQUIREMENT	8. POLLUTANT	9. UNDERLYING APPLICABLE REQUIREMENT(S)	10. LIMITATION OR STANDARD	11. REFERENCE TEST METHOD	12. PERIODIC MONITORING METHOD(S)			
<b>FEDERALLY AND STATE ENFORCEABLE CONDITIONS</b>									
E3-8	Designated Miscellaneous Organic Chemical Process Units (MCPUs):  Cellulose Acetate Dissolving and Filtration MCPU  Acetate Fibers Acetone Recovery MCPU	HAP	40 CFR 63 Subpart FFFF – National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing  Both MCPUs have been evaluated for MON applicability due to low levels of HAP impurities in a non-VOC raw material. Evaluations for this process have indicated that there are no vents, vessels, equipment, or wastewater streams that meet the definition of MON applicability.						
<b>STATE-ONLY ENFORCEABLE CONDITIONS</b>									
E3-3	Flow Diagram Point Q (Entire Source)	Acetone	TAPCR 1200-03-07-.07(2): Permit Number 950517P, Condition 8	16,315 tons/year on a 12-month moving total basis	Engineering Assessment	Not Applicable**			
E3-7 (MM1)	Entire Source	Chlorine Dioxide	TAPCR 1200-03-07-.07(2): Permit Number 950517P, Condition 9	2.2 tons/year on a 12-month moving total basis	Engineering Assessment	Not Applicable**			

\*\* “Not Applicable” because the term or condition does not implement relevant requirements of the Federal Act and therefore is not an applicable requirement under the Federal Act.

(End of Conditions)

\* See Table Notes for additional clarification of permit conditions.

**Manufacture of Cellulose Esters (82-0003-100)**  
**Emission Source Specific Operating Permit Conditions\***  
**Conditions E4-1 through E4-3 Apply**

1. EASTMAN SOURCE NUMBER		2. EMISSION SOURCE DESCRIPTION		3. EMISSION SOURCE REFERENCE NUMBER	4. MSOP NUMBER	5. PERMIT NUMBER
PES CA-DRY		Manufacture of Cellulose Esters		82-0003-100	MSOP-13	565421
6. ID	7. PORTION OF SOURCE SUBJECT TO REQUIREMENT	8. POLLUTANT	9. UNDERLYING APPLICABLE REQUIREMENT(S)	10. LIMITATION OR STANDARD	11. REFERENCE TEST METHOD	12. PERIODIC MONITORING METHOD(S)
<b>FEDERALLY AND STATE ENFORCEABLE CONDITIONS</b>						
E4-1 (SM1)	Entire Source	Visible Emissions	TAPCR 1200-03-05: Permit Number 946212P, Condition 7. Permit Number 044190P, Condition 2.	20% Opacity	EPA Method 9	Visible Emissions Evaluation: Emission units requiring initial VEEs – None, per TAPCD Opacity Matrix dated September 11, 2013.
E4-2	Vents A through P	Particulate	TAPCR 1200-03-07-.01(5), agreement letter dated 4/15/86. Permit Number 946212P, Condition 5. Permit Number 044190P, Condition 3.	15.48 lb/hr	EPA Method 5	Vents A through D: Parametric Monitoring: 24-hour block average of scrubber water flow rate; daily production rate. See Operating Plan in Title V Application dated February 3, 2012, PES CA-DRY, pages 11 and 12.  Vents E through P:  Monitoring: Maintain log of cyclone inspection and maintenance.  Recordkeeping: daily production rate.  See Operating Plan in Title V Application dated February 3, 2012, PES CA-DRY, pages 13 and 14.
E4-3	Entire Source	Particulate	TAPCR 1200-03-07-.01(5): Permit Number 946212P, Condition 6. Permit Number 044190P, Condition 5. Agreement letter dated 4/15/86	67.80 tons/year	Engineering Assessment	Monitoring, recordkeeping, and reporting required by ID Limitation E4-2 will assure compliance with this limit

(End of Conditions)

\* See Table Notes for additional clarification of permit conditions.

**Activation of Cellulose (82-0003-101)  
 Emission Source Specific Operating Permit Conditions\*  
 Conditions E5-1 through E5-9 Apply**

1. EASTMAN SOURCE NUMBER		2. EMISSION SOURCE DESCRIPTION		3. EMISSION SOURCE REFERENCE NUMBER		4. MSOP NUMBER		5. PERMIT NUMBER	
PES CA-MNF		Manufacture of Cellulose Esters		82-0003-101		MSOP-13		565421	
6. ID	7. PORTION OF SOURCE SUBJECT TO REQUIREMENT	8. POLLUTANT	9. UNDERLYING APPLICABLE REQUIREMENT(S)	10. LIMITATION OR STANDARD	11. REFERENCE TEST METHOD	12. PERIODIC MONITORING METHOD(S)			
<b>FEDERALLY AND STATE ENFORCEABLE CONDITIONS</b>									
E5-1	Entire Source	Visible Emissions	TAPCR 1200-03-05: Permit Number 945856P, Condition 10	20% Opacity	EPA Method 9	Visible Emissions Evaluation: Emission units requiring initial VEEs – None, per TAPCD Opacity Matrix dated September 11, 2013.			
E5-2 (SM1)	Vents A, B, C, D, E, F, L, and M	VOC	TAPCR 1200-03-07-.07(2): Permit Number 945856P, Condition 4	155.7 tons/year	EPA Method 18	Monitoring, recordkeeping, and reporting required by ID limitation E5-8 will assure compliance with this limit.			
E5-3 (SM1)	Flow Diagram Point G (Equipment Leaks)	VOC	TAPCR 1200-03-07-.07(2): Permit Number 945856P, Condition 6 (Modified in Permit Number 953155P). Permit Number 945857P, Condition 6 (Modified in Permit Number 953155P). Permit Number 945842P, Condition 10 (Modified in Permit Number 953155P).	Quarterly Leak Inspection and Repair (Fugitive VOCs from pumps, valves, flanges, etc., are estimated at 106 tons/year)	See Item 10	See Item 10			
E5-4	Vent I (Tank 412) Vent J (Tank 413) Vent K (Tank 416)	VOC	TAPCR 1200-03-07-.07(2): Permit Number 945842P, Condition 8	2.97 tons/year	Engineering Assessment	Certification			
E5-5	Vents N, O, P, Q, R, S, T, and W	VOC	TAPCR 1200-03-07-.07(2): Permit Number 945842P, Condition 5. Permit Number 945857P, Condition 8.	48 hr/year each	Engineering Assessment	Recordkeeping: A record of operating hours will be maintained and operating hours will be totaled for the calendar year. See Operating Plan in Title V Application dated August 25, 2016, PES CA-MNF, page 47.			
E5-6	Vents U and V	VOC	TAPCR 1200-03-07-.07(2): Permit Number 945856P, Condition 8	36 hr/year each	Engineering Assessment	Recordkeeping: A record of operating hours will be maintained and operating hours will be totaled for the calendar year. See Operating Plan in Title V Application dated August 25, 2016, PES CA-MNF, page 47.			

\* See Table Notes for additional clarification of permit conditions.

**Activation of Cellulose (82-0003-101)  
 Emission Source Specific Operating Permit Conditions\*  
 Conditions E5-1 through E5-9 Apply**

1. EASTMAN SOURCE NUMBER		2. EMISSION SOURCE DESCRIPTION		3. EMISSION SOURCE REFERENCE NUMBER		4. MSOP NUMBER		5. PERMIT NUMBER	
PES CA-MNF		Manufacture of Cellulose Esters		82-0003-101		MSOP-13		565421	
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									
E5-7	Entire Source (excluding fugitive equipment leaks from pumps, valves, flanges, etc.)	VOC	TAPCR 1200-03-07-.07(2): Permit Number 945856P, Condition 7 (Modified in Permit Number 953155P). Permit Number 945857P, Condition 7 (Modified in Permit Number 953155P). Permit Number 945842P, Condition 11 (Modified in Permit Number 953155P).	203.45 tons/year	Engineering Assessment	Vents A, B, C, D, E, F, L, and M: Monitoring, recordkeeping, and reporting required by ID limitation E5-8 will assure compliance with this limit.  Vents N, O, P, Q, R, S, T, and W: Monitoring, recordkeeping, and reporting required by ID limitation E5-5 will assure compliance with this limit.  Vents U and V: Monitoring, recordkeeping, and reporting required by ID limitation E5-6 will assure compliance with this limit.  Vents H, I, J, K, X, and Y: Certification.			
E5-8 (SM1)	The following Pollutant-Specific Emissions Units: Vents A, B, C, D, E, F, L, and M	VOC	40 CFR Part 64 – Compliance Assurance Monitoring  See Attachment 3.						
E5-9	Designated Miscellaneous Organic Chemical Process Units (MCPUs):  Cellulose Acetate Production MCPU	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 applicable procedures in Section C of this permit and include an update to Attachment 2.						

(End of Conditions)

\* See Table Notes for additional clarification of permit conditions.

**Acetate Transfer and Packaging Operation (82-0003-161)  
 Emission Source Specific Operating Permit Conditions\*  
 Conditions E6-1 through E6-3 Apply**

1. EASTMAN SOURCE NUMBER		2. EMISSION SOURCE DESCRIPTION		3. EMISSION SOURCE REFERENCE NUMBER		4. MSOP NUMBER		5. PERMIT NUMBER	
PES B-81-3		Acetate Transfer and Packaging Operation		82-0003-161		MSOP-13		565421	
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	Visible Emissions	TAPCR 1200-03-05: Permit Number 945653P, Condition 5	20% Opacity	EPA Method 9	Certification			
E6-2	Vents A, B, F and G	Particulate	TAPCR 1200-03-07-.01(5); Permit Number 945653P, Condition 3	0.47 lb/hr	EPA Method 5	Certification			
E6-3	Entire Source	Particulate	TAPCR 1200-03-07-.01(5); Permit Number 945653P, Condition 4	5.9 tons/year	Engineering Assessment	Certification			

(End of Conditions)

\* See Table Notes for additional clarification of permit conditions.

**Bag and Box Pouring Station and Bag Loading Station (82-0003-162)  
 Emission Source Specific Operating Permit Conditions\*  
 Conditions E7-1 through E7-3 Apply**

<b>1. EASTMAN SOURCE NUMBER</b>  PES B-81-7		<b>2. EMISSION SOURCE DESCRIPTION</b>  Bag & Box Pouring Station and Bag Loading Station		<b>3. EMISSION SOURCE REFERENCE NUMBER</b>  82-0003-162		<b>4. MSOP NUMBER</b>  MSOP-13		<b>5. PERMIT NUMBER</b>  565421	
<b>6. ID</b>	<b>7. PORTION OF SOURCE SUBJECT TO REQUIREMENT</b>	<b>8. POLLUTANT</b>	<b>9. UNDERLYING APPLICABLE REQUIREMENT(S)</b>	<b>10. LIMITATION OR STANDARD</b>	<b>11. REFERENCE TEST METHOD</b>	<b>12. PERIODIC MONITORING METHOD(S)</b>			
<b>FEDERALLY AND STATE ENFORCEABLE CONDITIONS</b>									
E7-1	Vent A	Particulate	TAPCR 1200-03-07-.01(5): Permit Number 743040P, Condition 2	0.2 lb/hr	EPA Method 5	Certification			
E7-2	Entire Source	Particulate	TAPCR 1200-03-07-.01(5): Permit Number 743040P, Condition 3	0.9 tons/year	Engineering Assessment	Certification			
E7-3	Entire Source	Visible Emissions	TAPCR 1200-03-05: Permit number 743040P; Condition 4	20% Opacity	EPA Method 9	Certification			

(End of Conditions)

\* See Table Notes for additional clarification of permit conditions.

**Ester Storage and Solids Handling (82-0003-163)  
 Emission Source Specific Operating Permit Conditions\*  
 Conditions E8-1 through E8-3 Apply**

1. EASTMAN SOURCE NUMBER		2. EMISSION SOURCE DESCRIPTION		3. EMISSION SOURCE REFERENCE NUMBER		4. MSOP NUMBER		5. PERMIT NUMBER	
PES B-136-1		Ester Storage and Solids Handling		82-0003-163		MSOP-13		565421	
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	Vents A, B, C, and D	Particulates	TAPCR 1200-03-07-.01(5): Permit Number 740851P, Condition 3	0.7 lb/hr	EPA Method 5	Certification			
E8-2	Entire Source	Particulates	TAPCR 1200-03-07-.01(5): Permit Number 740851P, Condition 4	4.82 tons/year	Engineering Assessment	Certification			
E8-3	Entire Source	Visible Emissions	TAPCR 1200-03-05: Permit Number 740851P, Condition 5	20% Opacity	EPA Method 9	Certification			

(End of Conditions)

\* See Table Notes for additional clarification of permit conditions.

## Table Notes

- Item 1**            **EASTMAN SOURCE NUMBER**  
 Permittee's designation for 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:

<u>Pollutant or Parameter</u>	<u>Testing Methodology</u>
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 Emissions Evaluation Method 2 as adopted by the Tennessee Air Pollution Control Board on August 24, 1984.
Visible Emissions (Roads and Parking Areas)	Tennessee Visible Emissions Evaluation Method 1 as adopted by the Tennessee Air Pollution Control Board on April 29, 1982, as amended on September 15, 1982 and as amended on August 24, 1984.
Fugitive Dust Emissions Crossing a Property Line	Tennessee Visible Emissions 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)(I)II.)
- (i) The permittee must implement a system to monitor the control system parameters or process operating parameters shown in item 12 utilizing the averaging times shown.
- (ii) The permittee must develop and obtain the approval of the Technical Secretary of an operating plan that includes a description of the parameter(s) to be monitored; an explanation for the selection of the parameter; description and location (if applicable) of monitoring equipment; the range (and the rationale for establishing the range) for each monitored parameter that indicates proper operation and maintenance of the control technology or pollution prevention measure; monitoring frequency; and any necessary data collection/compression procedures.
- (iii) 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:



- (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.

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

**END OF SIGNIFICANT MODIFICATION #1 TO PERMIT NUMBER 565421**

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**ATTACHMENT 1**

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

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**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, SO<sub>2</sub>, NO<sub>x</sub>, 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.

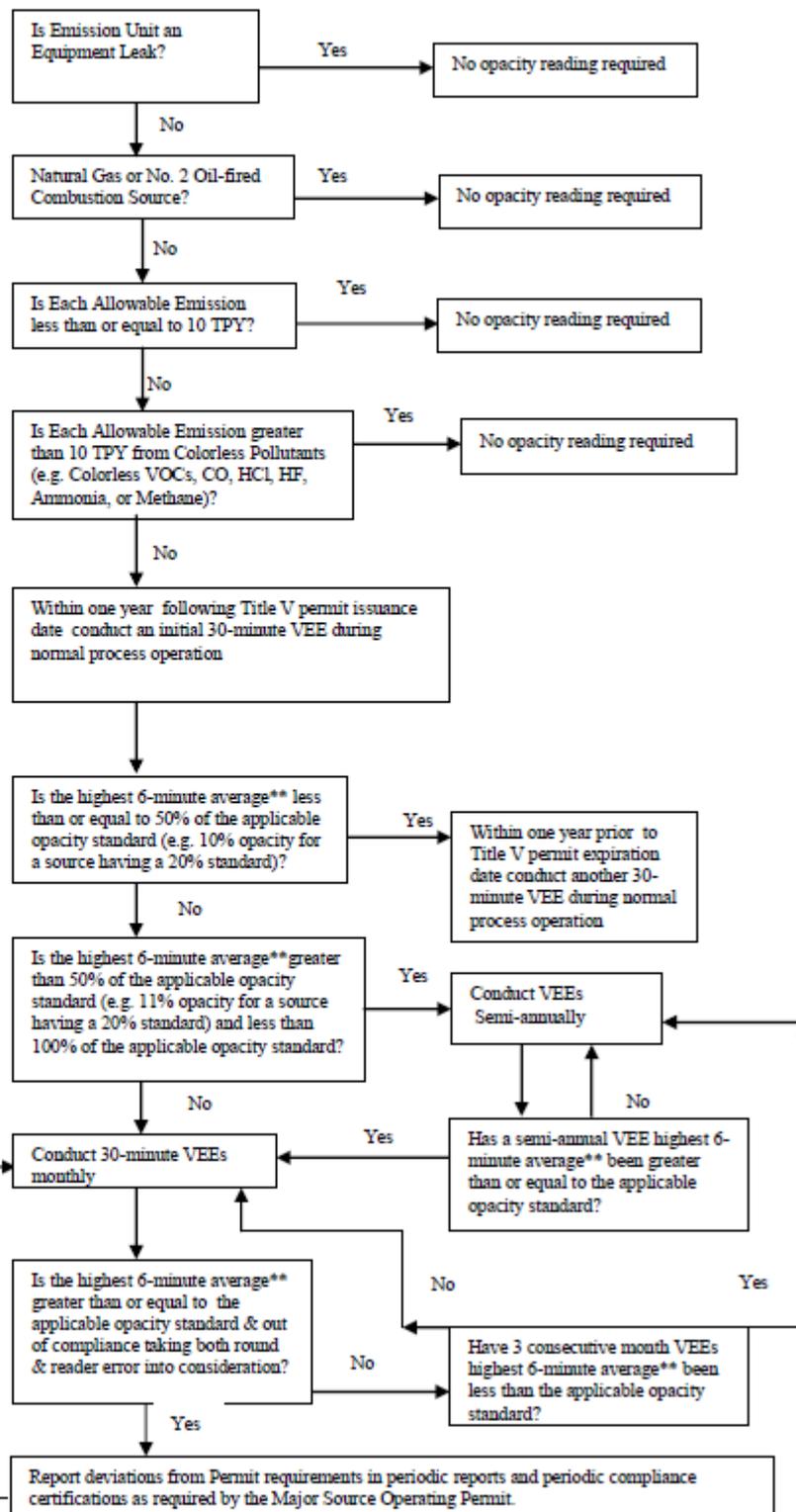
**Reader Error**  
 EPA Method 9, Non-NSPS or NESHAPS stipulated opacity standards: The TAPCD guidance is to declare non-compliance when the highest six-minute average\*\* exceeds the standard plus 6.8% opacity (e.g. 26.8% for a 20% standard).

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



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**ATTACHMENT 2**

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**SPECIFIC APPLICABILITY DETERMINATIONS for  
40 CFR 60 (NSPS) and 40 CFR 63 (MACT)  
to MSOP-13**

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**40 CFR Part 63 Subpart FFFF  
 Specific Applicability Determinations  
 MSOP-13, PES CA-MNF**

Identification	Category	Rule Citation from 40 CFR 63
<b>Continuous Process Vents</b>		
	Group 1 Continuous Process Vent and Applicable Monitoring	§63.2455
	Continuous Process vent combined with Group 1 batch vent before control or recovery device	§63.2455(b)(1)
Vents A, B, C, D, E, F, L, and M	Existing Group 2 Process with TRE >5	§63.2455(b)(2)
	New Group 2 Continuous Process Vents with TRE >8	§63.2455(b)(2)
	Existing Group 2 Continuous Process Vents requiring monitoring (vents using a recovery device to maintain 1.9 < TRE <= 5).	§63.2455(c)(1)
	New Group 2 Continuous Process Vents with 5 < TRE <= 8 before recovery devices.	§63.2455(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.	§63.2550
<b>Process Vents Emitting Hydrogen Halide or Halogen HAPs</b>		
	Process with collective sum of hydrogen halide and hydrogen HAPs < 1,000 lb/year	§63.2465(b), §63.1257(d)(2)(i)
	Process with collective sum of hydrogen halide and hydrogen HAPs >= 1,000 lb/year	§63.2465(c), §63.994
	New process vents that emit HAP metals	§63.2465(d)
<b>Batch Process Vents</b>		
	Group 1 process vents and applicable monitoring	§63.2460
	Group 2 process vents	§63.2460, §63.2525(e)
	Process with non-reactive HAP usage < 10,000 lb/year	§63.2460(b)(7)
	Halogenated Group 1 batch process vents for which a combustion device is used to control organic HAP emissions	§63.2460
<b>Storage Vessels</b>		
	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)	§63.2470, §63.2450(r), §63.982
	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)	§63.2470, §63.2450(r), Subpart WW
	Group 2 Storage Vessels (storage, surge control, and bottoms receivers)	§63.2470, §63.2450(r)
	Halogenated Group 1 vessels (storage, surge control, and bottoms receivers) for which a combustion device is used to control organic HAP emissions.	§63.2470
<b>Transfer Operations</b>		
	Group 1 transfer racks and applicable monitoring and testing	§63.2475
	Group 2 transfer rack	
	Halogenated Group 1 transfer racks for which a combustion device is used to control organic HAP emissions	§63.2475
<b>Equipment Leaks</b>		
	Equipment in OHAP service complying with 40 CFR 63 Subpart H, or equipment in OHAP service complying with 40 CFR 63 Subpart UU.	§63.2480(a)
	Equipment in OHAP service complying with 40 CFR 63 Subpart F.	§63.2480(a)
<b>Process Wastewater</b>		
	Group 1 wastewater stream	§§63.2485(c) and (n), §63.132-148
	Group 2 wastewater stream	§63.2485
	Standards for waste management units managing Group 1 wastewater stream or residuals removed from Group 1 streams	§63.2485(d)
	Liquid streams in open systems	§63.2485(l), §63.149
<b>Emissions Averaging</b>		
	Comply with the emissions averaging plan for selected emission points	§63.2500, §63.150
<b>General Provisions</b>		
MON subject points as applicable	Applicability of General Provisions	§63.2540 and Table 12 of Subpart FFFF
<b>Recordkeeping and Reporting</b>		
MON subject points as applicable	Recordkeeping and reporting applicable MON emission points	§63.2520, §63.2525

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**ATTACHMENT 3**

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**COMPLIANCE ASSURANCE MONITORING (CAM) PLANS  
FOR MSOP-13**

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**Compliance Assurance Monitoring General Requirements  
 MSOP-13**

Identification	Requirement	Rule Citation
<b>Operation of Approved Monitoring</b>		
PES CA-MNF, Vents A, B, C, D, E, F, L, and M	Commencement of monitoring upon permit issuance	§64.7(a)
	Commencement of monitoring by date specified in the permit pursuant to §64.6(d).	§64.7(a)
PES CA-MNF, Vents A, B, C, D, E, F, L, and M	Proper maintenance	§64.7(b)
	Continued operation	§64.7(c)
	Response to excursions or exceedances	§64.7(d)
	Documentation of need for improved monitoring	§64.7(e)
<b>Data Availability</b>		
PES CA-MNF, Vents A, B, C, D, E, F, L, and M  Comply with the data availability requirements specified in Item 12 of the Table Notes, or with specific requirements established in TAPCR 1200-03, 40 CFR, or permit conditions.	Minimum Data Availability	§64.6(c)(4)
<b>Quality Improvement Plan (QIP)</b>		
PES CA-MNF, Vents A, B, C, D, E, F, L, and M  The permittee shall comply with the provisions of §64.8 upon written notice from the Technical Secretary.	Requirement to submit QIP	§64.8(a)
	QIP elements	§64.8(b)
	Deadline for QIP development	§64.8(c)
	Reasonable changes to QIP	§64.8(d)
	QIP implementation	§64.8(e)
<b>Reporting and Recordkeeping Requirements</b>		
PES CA-MNF, Vents A, B, C, D, E, F, L, and M	Reporting requirements	§64.9(a)
	Recordkeeping requirements	§64.9(b)

**Compliance Assurance Monitoring (CAM) Plan – 40 CFR 64  
 MSOP-13, PES CA-MNF**

<b>Stack or Flow Diagram Points</b>	Vents A, B, C, D, E, F, L, and M																		
<b>Pollutant</b>	VOC																		
<b>Description of Monitoring Protocol</b>	Monitor the water flow rate to each scrubber.																		
<b>Equipment and Installation</b>	Flow meter in scrubber water feed line.																		
<b>Measurement Frequency</b>	The water flow rate will be measured every 15 minutes, and a 24-hour block average will be calculated.																		
<b>Indicators</b>	<p>The following indicators are established:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Vent</th> <th>Minimum Flow Rate 24-hour Block Average (gallons/minute)</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>3.5</td> </tr> <tr> <td>B</td> <td>3.5</td> </tr> <tr> <td>C</td> <td>5</td> </tr> <tr> <td>D</td> <td>5</td> </tr> <tr> <td>E</td> <td>3.5</td> </tr> <tr> <td>F</td> <td>3.5</td> </tr> <tr> <td>L</td> <td>0.5</td> </tr> <tr> <td>M</td> <td>0.5</td> </tr> </tbody> </table> <p>For each vent listed above, an excursion is defined as any 24-hour block average (midnight of each day to midnight of the following day) in which the average water flow rate is less than the minimum flow rate listed above.</p>	Vent	Minimum Flow Rate 24-hour Block Average (gallons/minute)	A	3.5	B	3.5	C	5	D	5	E	3.5	F	3.5	L	0.5	M	0.5
Vent	Minimum Flow Rate 24-hour Block Average (gallons/minute)																		
A	3.5																		
B	3.5																		
C	5																		
D	5																		
E	3.5																		
F	3.5																		
L	0.5																		
M	0.5																		
<b>QA/QC Practices</b>	Flow meters will be calibrated once per calendar year. Analytical equipment will be calibrated once per calendar quarter.																		
<b>Reference</b>	Operating plans in the Title V application dated August 25, 2016, PES CA-MNF, pages 38 through 45.																		

## **TITLE V PERMIT STATEMENT**

<b>Company</b>	<b>Eastman Chemical Company</b>
<b>Facility Name:</b>	<b>Eastman Chemical Company, Tennessee Operations Major Source Operating Permit (MSOP)-13</b>
<b>City:</b>	<b>Kingsport</b>
<b>County:</b>	<b>Sullivan</b>

<b>Date Application Received:</b>	<b>February 6, 2012</b>
<b>Date Application Deemed Complete:</b>	<b>February 6, 2012</b>

<b>Emission Source Reference No.:</b>	<b>82-0003-MSOP-13</b>
<b>Permit No.:</b>	<b>565421</b>

### **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 – Tennessee Operations 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 for MSOP-13

<b>Emission Source Number</b>	<b>Description</b>
82-1010-98 (PES CA-SPIN)	Synthetic Fiber Production
82-0003-100 (PES CA-DRY)	Manufacture of Cellulose Esters
82-0003-101 (PES CA-MNF)	Manufacture of Cellulose Esters
82-1009-14 (PES B-81-3)	Cellulose Esters Blending Operations
82-1010-58 (PES B-81-7)	Bag and Box Pouring Station and Bag Loading Station
82-1010-86 (PES B-136-1)	Ester Storage and Solids Handling

B. Facility Classification

1. Attainment or Non-Attainment Area Location: Area is designated as an attainment area for all criteria pollutants.
2. Company is located in a Class II area.

C. Regulatory Status

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

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

3. MACT Standards for Sources contained in this Title V Application: This facility is a major source for HAPs. None of the sources contained in the MSOP-13 application are subject to a MACT standard.

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 this portion of 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. North Carolina Department of Environment and Natural Resources
3. Virginia Department of Environmental Quality
4. Kentucky Department for Environmental Protection

TITLE V PERMIT STATEMENT: PUBLIC COMMENTS (Title V Renewal 565421)

**General Information**

Company	Eastman Chemical Company
Facility Name:	Eastman Chemical Company, Tennessee Operations
City:	Kingsport
County:	Sullivan

Date Application Received:	February 6, 2012
Date Application Deemed Complete:	February 6, 2012

Emission Source Reference No.:	82-0003-MSOP-13
Permit No.:	565421

Date of Public Notice:	May 10, 2012
Date of Public Hearing:	None requested

**Comment Summary**

Commenter	Comment	Response
There were <b><u>no comments</u></b> received during the public comment period for this permit.		

### Changes to Title V Operating Permit 547935 Since First Issuance (Issued October 16, 2000)

Permit Modification	Issue Date	Condition or Section	Modification
Minor Modification #1 (MPM-1)	January 28, 2003	E3-2	Updated periodic monitoring to use maximum blower capacity for CO emissions monitoring.
		E3-4 , E8-2	Changes to periodic monitoring.
		E7-6	Added new Vent W.
		E9-2	Change in monitoring frequency for scrubber flow rate.
MPM-2	July 7, 2004	E3-2	Decreased allowable CO emission rate from 33.2 lb/hr to 17.4 lb/hr. Changed compliance method for Vents G, H, I, J, K, L, M, and N to "certification."
MPM-3	March 30, 2005	E6-2	Decreased allowable PM emissions (Vents A, B, F and G) from 0.8 lb/hr to 0.47 lb/hr.
		E6-3	Increased allowable PM emissions (entire source) from 4.6 tons/year to 5.9 tons/year.

### Changes to Title V Operating Permit 558175 Since Renewal Issuance

Permit Modification	Issue Date	Condition or Section	Modification
Administrative Amendment #1	August 27, 2010	Cover Page	Updated Responsible Official,
		B5	Condition B5(d) was revised to add the underlined language:  (d) 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 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
		C2	Condition C2(b) was revised to add the underlined language:  (b) The written notification must <u>be signed by a facility Title V responsible official and include the following:</u> <ol style="list-style-type: none"> <li>1. brief description of the change within the permitted facility;</li> <li>2. specifies the date on which the change will occur;</li> <li>3. declares <u>and quantifies where possible</u> any change in emissions;</li> <li>4. declares any permit term or condition that is no longer applicable as a result of the change; and</li> <li>5. <u>declares the requested change is not a Title I modification and will not exceed allowable emissions</u> <u>under the permit.</u></li> </ol>
		E2-1	Condition E2-1(b)(4) was revised to add the underlined language:  (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  Accidental Release Plan certification requirements were moved from E2-1(b) to E2-1(c).
		Section E	Reformatted tables, margins, etc.
Minor Modification #1 (MPM-1)	October 12, 2010	B1	Corrected to read: "...In no case shall reports of any required monitoring and record keeping be submitted less frequently than <del>at least 180</del> <u>days every six months.</u> "

**Changes to Title V Operating Permit 558175 Since Renewal Issuance**

Permit Modification	Issue Date	Condition or Section	Modification
		B10	Corrected to read: "...resulted in emissions greater than any applicable emission limits, <u>occurred</u> and..."
		E2-1	Updated semiannual reporting requirements.
		E3-2	Updated operating plan to incorporate minor changes to CO CEMS specifications.
		E3-4	Updated operating plan to incorporate minor changes to compliance method.
MPM-2	August 17, 2011	E2-1	Updated semiannual reporting requirements.
		E3-1	Added new Vent A. No change in emission limit or periodic monitoring method.
		E3-2, E3-4	Updated operating plan date and page numbers. No changes to periodic monitoring method for Vent R.
		E3-3, E3-7	Added footnote for State-only conditions
		Table Notes	Updated Item 12 of the Table Notes to renumber all elements and to add general requirements for quarterly, semiannual, and annual periodic monitoring.

**MSOP-13, Changes Made in Title V Renewal Permit 565421 (Issued June 29, 2012)**

Condition	Change																				
All sections	Updated opacity matrix references to indicate that the current opacity matrix is dated September 12, 2005. Updated operating plan dates and page numbers.																				
Section E	<p>Permit conditions were renumbered, added, or deleted as follows:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Old Permit Condition</th> <th>New Permit Condition</th> </tr> </thead> <tbody> <tr> <td>Section E3</td> <td>Section E3</td> </tr> <tr> <td>Section E4</td> <td>Section E5. Combines PES B-71-1 (Section E4 of old permit), PES B-81-2 (Section E5 of old permit), and PES B-81-4 (Section E7 of old permit) into a new PES (CA-MNF).</td> </tr> <tr> <td>Section E5</td> <td>Section E5 (combined as indicated above).</td> </tr> <tr> <td>Section E6</td> <td>Section E6</td> </tr> <tr> <td>Section E7</td> <td>Section E5 (combined as indicated above).</td> </tr> <tr> <td>Section E8</td> <td>Section E4. Combines PES B-81-5 (Section E8 of old permit) and PES B-81-6 (Section E9 of old permit) into a new PES (CA-DRY).</td> </tr> <tr> <td>Section E9</td> <td>Section E4 (combined as indicated above).</td> </tr> <tr> <td>Section E10</td> <td>Section E7</td> </tr> <tr> <td>Section E11</td> <td>Section E8</td> </tr> </tbody> </table>	Old Permit Condition	New Permit Condition	Section E3	Section E3	Section E4	Section E5. Combines PES B-71-1 (Section E4 of old permit), PES B-81-2 (Section E5 of old permit), and PES B-81-4 (Section E7 of old permit) into a new PES (CA-MNF).	Section E5	Section E5 (combined as indicated above).	Section E6	Section E6	Section E7	Section E5 (combined as indicated above).	Section E8	Section E4. Combines PES B-81-5 (Section E8 of old permit) and PES B-81-6 (Section E9 of old permit) into a new PES (CA-DRY).	Section E9	Section E4 (combined as indicated above).	Section E10	Section E7	Section E11	Section E8
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E1	Updated fee emissions.																				
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) (see next row for revised language). Deleted																				

**MSOP-13, Changes Made in Title V Renewal Permit 565421 (Issued June 29, 2012)**

<b>Condition</b>	<b>Change</b>																																														
	references to NSPS reports, since there are no applicable NSPS reporting requirements for this MSOP.																																														
E2-1(b)	Added MACT reporting requirement for 40 CFR 63 Subpart FFFF.																																														
E2-5	Added general requirements for visible emissions evaluations.																																														
E3-6	Visible emissions – changed compliance method from “certification” to “opacity matrix.”																																														
E3-8	Added determination of non-applicability for MON.																																														
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E4-2, E4-3	Combined old PM emission limits for B-81-5 and B-81-6. No change in allowable emissions.																																														
Section E4	Deleted compliance assurance monitoring (CAM) requirements for Vent G (Vent C of old permit, Condition E9-4 of old permit). CAM requirements do not apply.																																														

**MSOP-13, Changes Made in Title V Renewal Permit 565421 (Issued June 29, 2012)**

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E5-4	Combined VOC LDAR requirements for old PES B-71-1, B-81-2, and B-81-4. Increased estimated VOC emissions from equipment leaks from 105.3 tons/year to 105.8 tons/year.																																																																																		
E5-7	Combined VOC emission limits (entire source excluding fugitives) for old PES B-71-1, B-81-2, and B-81-4. No change in allowable emissions.																																																																																		
E5-8, Attachment 3	Added Compliance Assurance Monitoring requirements for Vents A, B, C, D, E, F, L, and M.																																																																																		
E5-9, Attachment 2	Added 40 CFR 63 Subpart FFFF requirements (Cellulose Acetate Production MCPU).																																																																																		
E8-3	Changed compliance method from “opacity matrix” to “certification.”																																																																																		
Table Notes	Revised quarterly and annual LDAR requirements to delete redundant language (no change to monitoring).																																																																																		

**Changes to Title V Renewal Permit 565421 since Issuance**

Permit Modification	Issue Date	Condition or Section	Modification																												
Administrative Amendment #1 (AA1)	1/15/2015	Cover page, E2-6	Updated Responsible Official & Technical Contact information and moved this information from cover page to new condition E2-6.																												
		E1	Updated annual accounting period dates.																												
		B6, E2-1(b)	Updated Division of Air Pollution Control Central Office addresses																												
Minor Modification #1 (MM1)	4/22/2015	<b>General Information</b>	This modification updates a State-only requirement (chlorine dioxide emissions in PES CA-SPIN).																												
		E1	Reviewed HAP emissions to determine whether individual HAPs need to be listed in the “HAP with a standard” category. The application lists individual HAPs emitted from PES CA-SPIN, which were listed only as “total HAP” in the renewal application. A MACT standard (MON) is listed as an applicable requirement for PES CA-SPIN, but the application states that the two MCPUs associated with this PES (Cellulose Acetate Dissolving and Filtration, Acetate Fibers Acetone Recovery) have been evaluated for MON applicability due to low levels of HAP impurities in a non-VOC raw material. Evaluations for this process have indicated that there are no vents, vessels, equipment, or wastewater streams that meet the definition of MON applicability. <b>No change in fee emissions.</b>																												
		E3-7	Increased allowable ClO <sub>2</sub> emissions (PES CA-SPIN, entire source) from 1.1 tons/year to 2.2 tons/year.																												
		Notifications	Initial notification to EPA and affected States: February 24, 2015 Draft permit sent to EPA: March 6, 2015 Additional information requested by EPA: None requested.																												
Significant Modification #1 (SM1)	Pending	<b>General Information:</b>	This modification removes certain monitoring parameters associated with scrubbers in the Acetate Fibers Division.																												
		Cover Page, Section E	Updated emission source reference numbers as shown below. <table border="1"> <thead> <tr> <th>Old ESRN</th> <th>New ESRN</th> <th>PES</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>82-1010-98</td> <td>82-0003-160</td> <td>CA-SPIN</td> <td>Synthetic Fiber Production</td> </tr> <tr> <td>82-0003-100</td> <td>82-0003-100</td> <td>CA-DRY</td> <td>Manufacture of Cellulose Esters</td> </tr> <tr> <td>82-0003-101</td> <td>82-0003-101</td> <td>CA-MNF</td> <td>Manufacture of Cellulose Esters</td> </tr> <tr> <td>82-1009-14</td> <td>82-0003-161</td> <td>B-81-3</td> <td>Cellulose Esters Blending Operations</td> </tr> <tr> <td>82-1010-58</td> <td>82-0003-162</td> <td>B-81-7</td> <td>Bag and Box Pouring Station and Bag Loading Station</td> </tr> <tr> <td>82-1010-86</td> <td>82-0003-163</td> <td>B-136-1</td> <td>Ester Storage and Solids Handling</td> </tr> </tbody> </table>	Old ESRN	New ESRN	PES	Description	82-1010-98	82-0003-160	CA-SPIN	Synthetic Fiber Production	82-0003-100	82-0003-100	CA-DRY	Manufacture of Cellulose Esters	82-0003-101	82-0003-101	CA-MNF	Manufacture of Cellulose Esters	82-1009-14	82-0003-161	B-81-3	Cellulose Esters Blending Operations	82-1010-58	82-0003-162	B-81-7	Bag and Box Pouring Station and Bag Loading Station	82-1010-86	82-0003-163	B-136-1	Ester Storage and Solids Handling
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		A12	Updated A12(a) to clarify the deadlines for submittal of a renewal application.																												
B10	Deleted – underlying applicable requirement no longer exists.																														
B5, E2-1(b)	Removed the requirement for the ACC to state whether compliance method provide continuous or intermittent data (underlying applicable requirement no longer exists). Updated citation for underlying applicable requirement.																														
E1	Updated fee emissions and annual accounting period dates.																														
E3-6, E4-1, E5-1, Attachment 1	Updated the opacity matrix to the current version (September 11, 2013).																														
Section E5	Updated operating plans to reference the current application (August 25, 2016). No changes to monitoring unless otherwise indicated below.																														
E5-2	Removed lb/hr VOC limit for PES CA-MNF, Vents A, B, C, D, E, F, L, and M. The ton/year limit (155.7 tpy) did not change.																														
E5-3	Increased estimated fugitive VOC from equipment leaks from 105.8 tons/year to 106 tons/year.																														

**Changes to Title V Renewal Permit 565421 since Issuance**

<b>Permit Modification</b>	<b>Issue Date</b>	<b>Condition or Section</b>	<b>Modification</b>
Significant Modification #1 (SM1)	Pending	E5-8, Attachment 3	<p>Updated CAM plan for PES CA-MNF, Vents A, B, C, D, E, and F. Removed the requirement to measure the acid concentration in the water leaving the scrubbers. Combined the CAM plans for Vents A-F and Vents L and M into a single plan.</p> <p>APC reviewed the requested change and determined that the change will not result in an emissions increase. Division staff reviewed the design acid concentrations in the scrubber underflows indicated in the August 25, 2016 application (the application used ASPEN modeling to calculate the absorption of VOC into the scrubbing liquid). These design acid concentrations are approximately equal to the existing limits established for each scrubber.</p> <p>When these design acid concentrations are compared with the maximum acid concentrations in the scrubber underflows between July 2013 and June 2016 (reported in the Title V semiannual reports), the average acid concentrations are well below the design concentrations indicated in the application. When an upper control limit (average plus three standard deviations) is calculated to estimate the highest acid concentration at each vent, the UCLs are 22-54% of the permitted limits for Vents A, B, E, and F. The UCL is 90% of the permit limit at Vent C and 113% of the permit limit at Vent D. However, the maximum allowable acid concentrations for Vents C and D are only 8.5% and 8.3%, respectively. Since the VOC in these vents is acetic acid (confirmed by Fred Mullner 9/9/2016), a small increase in the acid concentration is unlikely to affect the emission rate (since acetic acid is highly soluble in water).</p>
		Section E6	Updated underlying applicable requirement to reference construction permit 945653P.
		Table Notes	Corrected numbering on item 12(e).
		<b>Public Comments</b>	The public notice for this modification will be published in the <i>Kingsport Times-News</i> . Any comments received during the public comment period.

**82-0003-MSOP-13 Changes to Fee Emissions since Title V Permit Issuance**

Permit Number	Modification Number	Issue Date	Emissions in Tons per Year											
			Criteria Pollutants					HAP Without a Standard			HAP With a Standard			
			PM	PM <sub>10</sub>	SO <sub>2</sub>	VOC	NO <sub>x</sub>	VOC Family	Non-VOC Gaseous	PM Family	VOC Family	Non-VOC Gaseous	PM Family	
547935	First Issuance	10/16/2000	81.68	N/A	N/A	323.75	N/A	14.15	N/A	N/A	N/A	N/A	N/A	N/A
547935	Minor Modification #1 (MPM-1)	1/28/2003	81.68	N/A	N/A	323.75	N/A	14.15	N/A	N/A	N/A	N/A	N/A	N/A
547935	MPM-2	7/7/2004	81.68	N/A	N/A	323.75	N/A	14.15	N/A	N/A	N/A	N/A	N/A	N/A
547935	MPM-3	3/30/2005	82.9	N/A	N/A	323.75	N/A	14.15	N/A	N/A	N/A	N/A	N/A	N/A
558175	Renewal	8/3/2007	82.9	N/A	N/A	323.75	N/A	14.15	N/A	N/A	N/A	N/A	N/A	N/A
558175	MPM-1	10/12/2010	82.9	N/A	N/A	323.75	N/A	14.15	N/A	N/A	N/A	N/A	N/A	N/A
558175	MPM-2	8/17/2011	82.9	N/A	N/A	323.75	N/A	14.15	N/A	N/A	N/A	N/A	N/A	N/A
565421	Renewal #2	6/29/2012	83	N/A	N/A	323.3	N/A	11	N/A	N/A	0.7	N/A	N/A	N/A
565421	MM1	4/22/2015	83	N/A	N/A	323.3	N/A	11	N/A	N/A	0.7	N/A	N/A	N/A
565421	SM1	Pending	83	N/A	N/A	314.75	N/A	2.45	N/A	N/A	9.25	N/A	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.