

2525
TENNESSEE AIR POLLUTION CONTROL BOARD
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
NASHVILLE, TENNESSEE 37243-1531

C.O. FILE



Permit to Construct or Modify an Air Contaminant Source Issued Pursuant to Tennessee Air Quality Act

Date Issued: July 21, 2003

Permit Number:
954289P

Date Expires: December 1, 2003

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

Installation Address:
South Eastman Road
Kingsport

Installation Description:

Emission Source Reference No.:

**Chemical Manufacturing Operations:
Technical Modifications -
Listing in Attachment 2**

**82-1003-10
complete source listing in Attachment 1**

The holder of this permit shall comply with the conditions contained in this permit as well as all applicable provisions of the Tennessee Air Pollution Control Regulations.

CONDITIONS:

1. The applications that were utilized in the preparation of this permit are listed in Attachment 1 of this permit. If the individuals who signed the applications terminate his/her employment or is reassigned different duties such that he/she is no longer the responsible person to represent and bind the facility in environmental permitting affairs, the owner or operator of this air contaminant source shall notify the Technical Secretary of the change. Said notification shall be in writing and submitted within thirty (30) days of the change. The notification shall include the name and title of the new person assigned by the source owner or operator to represent and bind the facility in environmental permitting affairs. All representations, agreement to terms and conditions and covenants made by the former responsible person that were used in the establishment of limiting permit conditions on this permit 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 covenants.

(continued on the next page)

TECHNICAL SECRETARY

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

NON TRANSFERABLE

POST OR FILE AT INSTALLATION ADDRESS

2. This construction permit revises and/ or deletes certain permit conditions for the sources noted in Attachment 1 of this permit. The sources are grouped to correspond to the same source listings used in the major source (Title V) operating permit (MSOP) number. The modifications to the conditions of the most recent permit for each source are noted in the tables and notes of Attachment 2 of this permit. All permit conditions for these sources that are not modified by this permit remain effective.

(End of Conditions)

A handwritten signature in dark ink, appearing to be "Michael J. Smith", is located at the bottom left of the page.

ATTACHMENT 1

LISTING OF SOURCES

MSOP-10:

Reference Title V Permit Application revisions dated June 25, 2002. Requested permit modifications are noted on Forms V.30b for the following sources:

<u>Emission Source I.D.</u>	<u>Emission Source Number</u>	<u>Permit Number</u>
B-13-16	82-1009-48	742454P
B-57-2	82-1003-10	044181P
B-57-8	82-1010-47	946570P
B-57BTF-1	82-1005-77	046842P
B-57TF-5	82-1008-96	945858P
B-90-2	82-1003-67	741902P
B-90-7	82-1010-72	949938P
B-90B-1	82-1004-93	946041P
B-90D-2	82-1006-51	744404P
B-142-1	82-1003-86	744265P
B-142-2	82-1006-81	948844P
B-142-3	82-1008-69	742462P
B-142-8	82-1009-62	738030P
B-195-1	82-1004-61	740340P
B-369-1	82-1008-35	737009P
B-OCDY-1	82-1006-29	044985P
		044984P
		945358P

MSOP-11:

Reference Title V Permit Application revision dated January 13, 2003. Requested permit modifications are noted on Forms V.30b for the following sources:

<u>Emission Source I.D.</u>	<u>Emission Source Number</u>	<u>Permit Number</u>
B-YDS-2	82-1010-99	742491P

MSOP-22:

Reference Title V Permit Application revisions dated August 15, 2002 and January 13, 2003. Requested permit modifications are noted on Forms V.30b for the following sources:

<u>Emission Source I.D.</u>	<u>Emission Source Number</u>	<u>Permit Number</u>
B-32-2	82-1011-14	955767P
B-65E-2	82-1006-59	740307P
B-65E-6	82-1011-16	945825P
B-65F-3	82-1003-03	740305P

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B-66-PP-1	82-1006-07	954885P
B-124-1	82-1008-31	952035P
B-152-1	82-1006-22	954477P
B-159-1	82-1006-23	954100P

MSOP-23:

Reference Title V Permit Application revisions dated February 14, 2003. Requested permit modifications are noted on Forms V.30b for the following sources:

<u>Emission Source I.D.</u>	<u>Emission Source Number</u>	<u>Permit Number</u>
LI-CE-1	82-1010-16	946131P
B-55G-1	82-1007-51	947302P
TR-73-1	82-1006-32	741781P
B-82-1	82-1003-82	743038P
B-82-2	82-1008-79	946576P
B-82-TF	82-1004-20	945846P
B-137-1	82-1007-92	951202P

ATTACHMENT 2

SOURCE SPECIFIC MODIFICATIONS

TO PERMIT CONDITIONS

MSOP-10

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9TH FLOOR, L&C ANNEX
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APC V.30b

MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-13-16		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Storage Tanks				
4. EMISSION SOURCE REFERENCE NUMBER: 82-1009-48		5. PERMIT NUMBER: 742454P		6. DATE PERMIT ISSUED: 8/24/95
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/REVISION)	10. REASON FOR APPROVED DELETION/REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
2	The source owner or operator shall maintain records of tank identification, capacity, and an estimate of throughput for uncontrolled tanks YF-6 and TR-50 until such time as the Technical Secretary issues a major stationary source operating permit for this source pursuant to paragraph 1200-3-9-.02(11) that includes some other compliance demonstration method to meet the monitoring and related recordkeeping and reporting requirements of subpart 1200-3-9-.02(11)(e)1.(iii).	DELETION	Tank ID and capacity are not required for compliance demonstration.	N/A
3	Volatile organic compounds (VOCs) emitted from this source shall not exceed 0.73 tons per year (ton/yr).	REVISION	Removed exempt tank YF-6 from application, assigned vent IDs to tank TR-50. Acetone is no longer federally regulated as a VOC. Emissions from PES B-13-18 (Tank YF-4) were transferred to this PES under vent point E.	Volatile organic compounds (VOCs) and Other Organic Compounds emitted from this source (excluding fugitive equipment leaks such as pumps, valves, flanges, etc.) shall not exceed 0.62 tons per year (ton/yr).
4	Fugitive VOCs emitted from pumps, valves, connectors, etc. shall not exceed 0.91 tons/year.	REVISION	Recalculation of fugitive emissions to negligible amounts. Acetone is no longer federally regulated as a VOC. Fugitive emissions from PES B-13-18 (Tank YF-4) were transferred to this PES under Flow Diagram Point B.	Annual Leak Inspection and Repair ¹ (Fugitive VOC emissions from pumps, valves, flanges, etc. are estimated at 0.86 ton/yr)
Footnotes: 1 Refer to Quarterly / Annual Leak Inspection Guidance in the Table Notes.				
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MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-57-2	
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Hydroquinone Derivatives Production			
4. EMISSION SOURCE REFERENCE NUMBER: 82-1003-10		5. PERMIT NUMBER: 044181P	6. DATE PERMIT ISSUED: 4/22/96
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/REVISION)	10. REASON FOR APPROVED DELETION/REVISION
4	The process material input to this source shall not exceed 1,300 pounds per hour excluding water.	Deletion	Process material input rate is not needed for compliance demonstration.
5	Fugitive volatile organic compounds emitted from this source shall not exceed 1.62 tons per year.	Revision	Change to Work Practice Standard.
		11. NEW LIMITATION OR STANDARD FOR THIS SOURCE Annual Leak Inspection and Repair ¹ (Fugitive VOC emissions from pumps, valves, flanges, etc. are estimated at 1.62 ton/yr)	
Footnotes: 1 Refer to Quarterly / Annual Leak Inspection Guidance in the Table Notes.			
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MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-57-8		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Cyclic Intermediate Production				
4. EMISSION SOURCE REFERENCE NUMBER: 82-1010-47		5. PERMIT NUMBER: 946570P		6. DATE PERMIT ISSUED: 2/25/97
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/REVISION)	10. REASON FOR APPROVED DELETION/REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
2	The production rate, including off-specification production, shall not exceed 75,000 pounds per day until such time as the Technical Secretary issues a major stationary source operating permit for this source pursuant to paragraph 1200-3-9-.02(11) that includes some other compliance demonstration method to meet the monitoring and related recordkeeping and reporting requirements of subpart 1200-3-9-.02(11)(e)1.(iii).	DELETION	Production rate not needed for compliance demonstration.	N/A
3	For as long as condition 2 exists, a record of the production rate including off-specification production, in a form that readily shows compliance with condition 2, must be maintained at the source location and kept available for inspection by the Technical Secretary or his representative. This record must be retained for a period of not less than two years.	DELETION	Production rate not needed for compliance demonstration.	N/A
4	Segments of this source (Solvent Recovery Column 36-7) are subject to New Source Performance Standards (NSPS). These segments shall comply with Rule 1200-3-6-.43 of the Tennessee Air Pollution Control Regulations	REVISION	Source will comply with Federal NSPS Standards.	Segments of this source (Solvent Recovery Column 36-7) are subject to New Source Performance Standards (NSPS) Subpart VV.
6	Fugitive VOCs emitted from pumps, valves, etc. associated with this source shall not exceed 16.31 ton/yr.	REVISION	Change to Work Practice Standard for Fugitive Equipment Leaks.	¹ Quarterly Leak Inspection and Repair (Fugitive VOC emissions from pumps, valves, flanges, etc. are estimated at 16.31 ton/yr)
5	Volatile Organic Compounds (VOCs) emitted from this source shall not exceed 153.32 tons per year (ton/yr).	REVISION	Acetone is no longer federally regulated as a VOC. Change to Work Practice Standard for Fugitive Equipment Leaks.	Volatile Organic Compounds (VOCs) and Other Organic Compounds emitted from this source (excluding fugitive equipment leaks such as pumps, valves, flanges, etc.) shall not exceed 137.01 tons per year (ton/yr).
11	Fugitive NH ₃ emitted from pumps, valves, etc. associated with this source shall not exceed 0.43 ton/yr.	REVISION	Change to Work Practice Standard for Fugitive Equipment Leaks.	¹ Annual Leak Inspection and Repair (Fugitive ammonia emissions from pumps, valves, flanges, etc. are estimated at 0.43 ton/yr.)
Footnotes: 1 Refer to Quarterly / Annual Leak Inspection Guidance in the Table Notes.				
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MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER B-57-8		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR Cyclic Intermediate Production				
4. EMISSION SOURCE REFERENCE NUMBER 82-1010-47		5. PERMIT NUMBER 946570P		6. DATE PERMIT ISSUED 2-25-97
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED ■ DELETION ■ REVISION	10. REASON FOR APPROVED DELETION/ REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
7	Particulate matter emitted from Vents O, P, Q, and R shall not exceed 1.54 pounds per hour (lb/hr).	REVISION	Deleting Vent P and transferring these emissions to Vent Q.	Particulate matter emitted from Vents O, Q, and R shall not exceed 1.54 pounds per hour (lb/hr).
8	Fugitive particulate matter emitted from pumps, valves, etc. associated with this source shall not exceed 0.1 ton/yr.	DELETION	Fugitive particulates already covered by condition #9.	N/A
10	Ammonia (NH ₃) emitted from this source shall not exceed 8.45 ton/yr.	REVISION	Separate fugitive emissions from source emissions for ammonia.	Ammonia emitted from this source (excluding fugitive equipment leaks such as pumps, valves, flanges, etc.) shall not exceed 8.02 tons per year.
12	Nitrogen oxides (NO _x) emitted from this source shall not exceed 3.5 ton/yr.	REVISION	Reduction in emissions.	Nitrogen oxide (NO _x) emitted from this source shall not exceed 2.63 ton/yr.
13	Sulfur dioxide (SO ₂) emitted from Vents O, Q, T, shall not exceed 18.47 lb/hr.	REVISION	Recalculated emissions for all vents results in negligible emissions. Combining conditions 13 and 14.	Sulfur dioxide (SO ₂) emitted from this source shall not exceed 1.67 lbs/hour and 3.72 ton/yr.
14	SO ₂ emitted from this source shall not exceed 6.74 ton/yr. The emission limitations (conditions 13, and 14) is established pursuant to Rule 1200-3-14-.01(3) of the Tennessee Air Pollution Control Regulations and the information contained in the agreement letter dated June 19, 1996.	DELETION	Combined with revised condition # 13.	N/A
Footnotes:				
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MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-57TF-5		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Trailer Loading Station with Wet Scrubber Control				
4. EMISSION SOURCE REFERENCE NUMBER: 82-1008-96		5. PERMIT NUMBER: 945858P		6. DATE PERMIT ISSUED: 1/14/97
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/REVISION)	10. REASON FOR APPROVED DELETION/REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
2	The process material (by-products) input rate shall not exceed 2500 gallons per hour until such time as the Technical Secretary issues a major stationary source operating permit for this source pursuant to paragraph 1200-3-9-.02(11) that includes some other compliance demonstration method to meet the monitoring and related recordkeeping and reporting requirements of subpart 1200-3-9-.02(11)(e)1.(iii).	Deletion	Process material input rate is not needed for compliance demonstration.	N/A
3	Volatile Organic Compounds (VOCs) emitted from Trailer Loading Station (Vent A) shall not exceed 6.24 tons per year (ton/yr) on a 12 month moving total basis.	REVISION	Recalculation of emissions.	Volatile Organic Compounds (VOCs) emitted from this source (excluding fugitive emissions from pumps, valves, flanges, etc.) shall not exceed 0.22 ton/yr, on a 12 month moving total basis.
4	Fugitive VOCs emitted from pumps, valves, etc. associated with this source shall not exceed 0.04 ton/yr.	REVISION	CHANGE TO WORK PRACTICE STANDARDS	Leak Inspection and Repair ¹ (Fugitive VOC emissions from pumps, valves, flanges, etc. are estimated at 0.04 ton/yr.)
Footnotes: 1. Refer to Quarterly / Annual Leak Inspection Guidance in the Table Notes.				
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1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-57BTF-1		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Nine (9) Chemical Storage Tanks				
4. EMISSION SOURCE REFERENCE NUMBER: 82-1005-77		5. PERMIT NUMBER: 046842P		6. DATE PERMIT ISSUED: 3/3/97
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/REVISION)	10. REASON FOR APPROVED DELETION/REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
2	The source owner or operator shall maintain records of tank identification, capacity, and an estimate of projected throughput for uncontrolled tanks 52-4, 52-5, 52-8, 52-12, 52-13, 52-15, 52-32, 52-33, and 52-34 until such time as the Technical Secretary issues a major stationary source operating permit for this source pursuant to paragraph 1200-3-9-.02(11) that includes some other compliance demonstration methods to meet the monitoring and related recordkeeping and reporting requirements of subpart 1200-3-9-.02(11)(e)1.(iii).	Deletion	Records of tank identification, capacity, and estimate of projected throughput for uncontrolled tanks are not required for compliance demonstration.	N/A
3	Volatile organic compounds (VOC) emitted from tanks 52-4, 52-5, 52-8, 52-12, 52-13, 52-15, 52-32, 52-33, and 52-34 shall not exceed 3.45 tons per year (ton/yr).	Revision	Assigned Vent IDs to Tanks 52-4, 52-5, 52-8, 52-12, 52-13, 52-15, 52-32, 52-33, and 52-34, and acetone is no longer federally regulated as a VOC.	Volatile organic compounds (VOC) and Other Organic Compounds emitted from this source (excluding equipment leaks such as pumps, valves, flanges, etc.) shall not exceed 3.45 tons per year (ton/yr).
5	Fugitive VOCs emitted from vent B (pumps, valves, etc.) associated with this source shall not exceed 4.46 ton/year.	Revision	Acetone is no longer federally regulated as a VOC. Change to Work Practice Standard	Annual Leak Inspection and Repair ¹ Fugitive VOC and Other Organic Compound emissions from pumps, valves, flanges, etc. are estimated at 4.46 ton/yr)
Footnotes: 1 Refer to Quarterly / Annual Leak Inspection Guidance in the Table Notes.				
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MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-90-2		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Hydroquinone Production				
4. EMISSION SOURCE REFERENCE NUMBER: 82-1003-67		5. PERMIT NUMBER: 741920P		6. DATE PERMIT ISSUED: 7/3/95
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/ REVISION)	10. REASON FOR APPROVED DELETION/ REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
2	The process material (Various organic and inorganic compounds) input rate shall not exceed 16,700 pounds per hour (lb/hr) until such time as the Technical Secretary issues a major stationary source operating permit for this source pursuant to paragraph 1200-3-9-.02(11) that includes some other compliance demonstration method to meet the monitoring and related recordkeeping and reporting requirements of subpart 1200-3-9-.02(11)(e)1.(iii).	Deletion	Process material input rate is not needed for compliance demonstration.	N/A
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MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-90-7		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Production of Miscellaneous Organic Chemicals				
4. EMISSION SOURCE REFERENCE NUMBER: 82-1010-72		5. PERMIT NUMBER: 949938P		6. DATE PERMIT ISSUED: 8/28/98
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/REVISION)	10. REASON FOR APPROVED DELETION/REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
2	The production rate of Miscellaneous Organic and Inorganic Compounds, including off-specification production, shall not exceed 24,000 pounds per day, on a weekly moving average basis, until such time as the Technical Secretary issues a major stationary source operating permit for this source pursuant to paragraph 1200-3-9-.02(11) that includes some other compliance demonstration method to meet the monitoring and related recordkeeping and reporting requirements of subpart 1200-3-9-.02(11)(e)1.(iii).	Deletion	Process material input rate is not needed for compliance demonstration.	N/A
3	For as long as condition 2 exists, a record of the production rate of Miscellaneous Organic and Inorganic Compounds, including off-specification production, in a form that readily shows compliance with condition 2, must be maintained at the source location and kept available for inspection by the Technical Secretary or his/her representative. This record must be retained for a period of not less than five years.	Deletion	Process material input rate is not needed for compliance demonstration.	N/A
4	Volatile Organic Compounds (VOCs) emitted from vents A, B, C, D, and E shall not exceed 1.27 pounds per hour (lb/hr).	Revision	CHANGE TO WORK PRACTICE STANDARD	Volatile Organic Compounds (VOCs) emitted from this source (excluding fugitive emissions from pumps, valves, flanges, etc.) shall not exceed 1.27 pounds per hour (lb/hr).
6	Sulfur dioxide (SO ₂) emitted from Vents A, B, C, and E shall not exceed 0.04 lb/hr.	Revision	CHANGE TO WORK PRACTICE STANDARD	Sulfur Dioxide (SO ₂) emitted from this source (excluding fugitive emissions from pumps, valves, flanges, etc.) shall not exceed 0.04 pounds per hour (lb/hr).

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1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-90-7		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Production of Miscellaneous Organic Chemicals				
7	Fugitive VOCs emitted from pumps, valves, etc. associated with this source shall not exceed 3.41 tons per year (ton/yr).	Revision	CHANGE TO WORK PRACTICE STANDARD.	Annual Leak Inspection and Repair ¹ (Fugitive VOC emissions from pumps, valves, flanges, etc. are estimated at 3.41 ton/yr.)
Footnotes: 1 Refer to Quarterly / Annual Leak Inspection Guidance in the Table Notes.				
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MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-90-7		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Production of Miscellaneous Organic Chemicals				
4. EMISSION SOURCE REFERENCE NUMBER: 82-1010-72		5. PERMIT NUMBER: 949938P		6. DATE PERMIT ISSUED: 8/28/98
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/ REVISION)	10. REASON FOR APPROVED DELETION/ REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
8	Fugitive SO ₂ emitted from pumps, valves, etc. associated with this source shall not exceed 0.01 ton/yr. This emissions limitation is established pursuant to Rule 1200-3-14-.03(5) of the Tennessee Air Pollution Control Regulations.	Revision	CHANGE TO WORK PRACTICE STANDARD.	Annual Leak Inspection and Repair ¹ (Fugitive SO ₂ emissions from pumps, valves, flanges, etc. are estimated at 0.01 ton/yr.)
9	Fugitive phosphoric acid (H ₃ PO ₄) emitted from pumps, valves, etc. associated with this source shall not exceed 0.62 ton/yr.	Revision	CHANGE TO WORK PRACTICE STANDARD	Annual Leak Inspection and Repair ¹ (Fugitive phosphoric acid emissions from pumps, valves, flanges, etc. are estimated at 0.62 ton/yr.)
Footnotes: 1 Refer to Quarterly / Annual Leak Inspection Guidance in the Table Notes.				
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MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-90B-1		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Miscellaneous Equipment for the Production of Chemicals				
4. EMISSION SOURCE REFERENCE NUMBER: 82-1004-93		5. PERMIT NUMBER: 946041P		6. DATE PERMIT ISSUED: 1/28/97
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/REVISION)	10. REASON FOR APPROVED DELETION/REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
2	The production rate, including all primary products and all off-specification production, shall not exceed 25,300 pounds per day until such time as the Technical Secretary issues a major stationary source operating permit for this source pursuant to paragraph 1200-3-9-.02(11) that includes some other compliance demonstration method to meet the monitoring and related recordkeeping and reporting requirements of subpart 1200-3-9-.02(11)(e)1.(iii).	DELETION	The production rate is not needed for compliance demonstration.	N/A
3	For as long as condition 2 exists, a record of the production rate including off-specification production, in a form that readily shows compliance with condition 2, must be maintained at the source location and kept available for inspection by the Technical Secretary or his representative. This record must be retained for a period of not less than two years.	DELETION	The production rate is not needed for compliance demonstration.	N/A
4	Particulate matter emitted from Vents A1, and B4 shall not exceed 0.55 pounds per hour (lb/hr) and 1.43 tons per year (ton/yr).	REVISION	Vent B4 is no longer in service and should be deleted.	Particulate matter emitted from Vent A1 shall not exceed 0.36 pounds per hour (lb/hr) and 1.21 tons per year (ton/yr).
5	Volatile Organic Compounds (VOCs) emitted from Vents A1, B1, A2, B2, A3, B3, B4, E3, A4, C4, E4, F4, H4, and I4 shall not exceed 14.77 ton/yr on a 12 month moving total basis.	REVISION	Recalculation of emissions resulted in a net decrease in VOC emissions from these vents. Vents Renamed. Vents B4, D4, and H4 are no longer in service and should be deleted.	Volatile Organic Compounds (VOCs) emitted from this entire source, excluding fugitive equipment leaks shall not exceed 14.18 tons during all intervals of 12 consecutive months.
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MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-90B-1		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Miscellaneous Equipment for the Production of Chemicals				
4. EMISSION SOURCE REFERENCE NUMBER: 82-1004-93		5. PERMIT NUMBER: 946041P		6. DATE PERMIT ISSUED: 1/28/97
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/REVISION)	10. REASON FOR APPROVED DELETION/REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
6	Fugitive VOCs emitted from pumps, valves, etc. associated with this source shall not exceed 5.48 ton/yr.	REVISION	CHANGE TO WORK PRACTICE STANDARD	¹ Quarterly Leak Inspection and Repair (Fugitive VOC emissions from pumps, valves, flanges, etc. are estimated at 5.48 ton/yr.)
7	Sulfur dioxide (SO ₂) emitted from Vents A1, B1, and B2 shall not exceed 0.32 lb/hr.	Revision	The previously existing but unregistered (SO ₂) emissions from vents E4 and I4 (even though negligible) need to be included in permit condition #7.	Sulfur Dioxide (SO ₂) emitted from the entire source shall not exceed 0.32 lb/hr.
Footnotes: 1 Refer to Quarterly / Annual Leak Inspection Guidance in the Table Notes.				
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MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-90D-2		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Vacuum System for Hydroquinone Production				
4. EMISSION SOURCE REFERENCE NUMBER: 82-1006-51		5. PERMIT NUMBER: 744404P		6. DATE PERMIT ISSUED: 4/9/96
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/ REVISION)	10. REASON FOR APPROVED DELETION/ REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
2	The process material input rate shall not exceed 20,000 pounds per hour (lb/hr) until such time as the Technical Secretary issues a major Stationary Source Operating Permit for this source pursuant to paragraph 1200-3-9-.02(11) that includes some other compliance demonstration methods to meet the monitoring and related recordkeeping and reporting requirements of subpart 1200-3-9-.02(11)(e)1.(iii).	DELETION	Process material input rate is not required for compliance demonstration.	N/A
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MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-142-1		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Miscellaneous Organic Chemicals				
4. EMISSION SOURCE REFERENCE NUMBER: 82-1003-86		5. PERMIT NUMBER: 744265P		6. DATE PERMIT ISSUED: 4/9/96
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/REVISION)	10. REASON FOR APPROVED DELETION/REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
2	The process material input rate shall not exceed 2,450 pounds per hour (lb/hr) until such time as the Technical Secretary issues a major stationary source operating permit for this source pursuant to paragraph 1200-3-9-.02(11) that includes some other compliance demonstration method to meet the monitoring and related record keeping and reporting requirements of subpart 1200-3-9-.02(11)(e)1.(iii).	Deletion	Process material input rate is not needed for compliance demonstration.	N/A
3	Particulate matter emitted from Vents A, C, D, E, L, M, P, AA, and BB shall not exceed 1.79 lb/hr.	Revision	Deleted vents L, M, and AA from source.	Particulate matter emitted from the Entire Source shall not exceed 0.64 lb/hr.
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MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-142-2		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR Polymer Dispersion Manufacturing				
4. EMISSION SOURCE REFERENCE NUMBER 82-1006-81		5. PERMIT NUMBER 948844P		6. DATE PERMIT ISSUED 2-12-98
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/REVISION)	10. REASON FOR APPROVED DELETION/REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
3	Fugitive VOCs emitted from pumps, valves, etc, associated with this source shall not exceed 1.26 ton/yr.	REVISION	CHANGE TO WORK PRACTICE STANDARD	Annual Leak Inspection and Repair ¹ (Fugitive VOC emissions from pumps, valves, flanges, etc. are estimated at 1.26 ton/yr.)
Footnotes: 1 Refer to Quarterly / Annual Leak Inspection Guidance in the Table Notes.				
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MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-142-3		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Miscellaneous Organic Chemicals Production				
4. EMISSION SOURCE REFERENCE NUMBER: 82-1008-69		5. PERMIT NUMBER: 742462P		6. DATE PERMIT ISSUED: 8/18/95
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/REVISION)	10. REASON FOR APPROVED DELETION/REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
2	The process material input rate (miscellaneous organic chemicals) shall not exceed 870 pounds per hour (lb/hr) until such time as the Technical Secretary issues a major stationary source operating permit for this source pursuant to paragraph 1200-3-9-.02(11) that includes some other compliance demonstration method to meet the monitoring and related record keeping and reporting requirements of subpart 1200-3-9-.02(11)(e)1.(iii).	Deletion	Process material input rate is not needed for compliance demonstration.	N/A
4	Volatile Organic Compounds (VOC's) emitted from vent A shall not exceed 0.04 lb/hr and 0.04 TPY.	Revision	The pounds per hour (lb/hr) limit is not appropriate for batch processes.	Volatile Organic Compounds (VOC's) emitted from Vent A shall not exceed 0.04 TPY.
5	Fugitive VOCs emitted from pumps, valves, connect ors, etc. shall not exceed 1.84 ton/yr.	Revision	Recalculation of fugitive emissions to negligible amount.	Annual Leak Inspection and Repair ¹ (Fugitive VOC emissions from pumps, valves, flanges, etc. are estimated at 1.84 ton/yr.)
7	Unless allowed otherwise in 1200-3, the control device (fabric filters) for Vent A shall be operated with a control efficiency of 95% at the control device design rating.	Deletion	Control efficiency is not needed for compliance demonstration	N/A
Footnotes: 1 Refer to Quarterly / Annual Leak Inspection Guidance in the Table Notes.				
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MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-142-8		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Drum Loading Station				
4. EMISSION SOURCE REFERENCE NUMBER: 82-1009-62		5. PERMIT NUMBER: 738030P		6. DATE PERMIT ISSUED: 1/04/94
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/REVISION)	10. REASON FOR APPROVED DELETION/REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
2	The process material input rate (aqueous inks) shall not exceed 290 lb/hr.	Deletion	Process material input rate is not needed for compliance demonstration.	N/A
6	The VOC's emitted from Vents A, B, C, D shall not exceed 0.16 lb/hr and 0.70 TPY each. The VOC's emitted from Vent E shall not exceed 1.84 lb/hr and 0.37 TPY.	Revision	The pounds per hour (lb/hr) limit is not appropriate for batch processes and OENOC emissions. Combine into source limit.	The VOC's emitted from the source shall not exceed 3.17 TPY.
Footnotes: 1 Refer to Quarterly / Annual Leak Inspection Guidance in the Table Notes.				
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1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-195-1		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR Drum cleaning operation				
4. EMISSION SOURCE REFERENCE NUMBER 82-1004-61		5. PERMIT NUMBER 740340P		6. DATE PERMIT ISSUED November 23, 1994
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/REVISION)	10. REASON FOR APPROVED DELETION/REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
4	Volatile Organic Compounds (VOCs) emitted from Vent A shall not exceed 3.0 lb/hr and 3.3 tons per year (ton/yr).	Revision	Delete lb/hr limit due to batch processing.	Volatile Organic Compounds (VOCs) and Other Organic Compounds emitted from Vent A shall not exceed 3.3 tons per year (ton/yr).
5	Volatile Organic Compounds (VOCs) emitted from Vent B shall not exceed 0.1 lb/hr and 0.1 tons per year (ton/yr).	Revision	Delete lb/hr limit since these are OENOC emissions.	Volatile Organic Compounds (VOCs) and Other Organic Compounds emitted from Vent B shall not exceed 0.1 tons per year (ton/yr).
Footnotes:				
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MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-369-1		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Hydroquinone Production Facility				
4. EMISSION SOURCE REFERENCE NUMBER: 82-1008-35		5. PERMIT NUMBER: 737009P		6. DATE PERMIT ISSUED: 8/30/93
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/REVISION)	10. REASON FOR APPROVED DELETION/REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
2	Process Material Input rate excluding water shall not exceed 17,000 lb/hr.	Deletion	Process Material Input rate is not needed for compliance demonstration.	N/A
3	Volatile Organic Compounds (VOCs) emitted from this source shall not exceed 36.0 ton/yr, on a 12-month rolling average basis.	Revision	Acetone is no longer federally regulated as a VOC. Change to Work Practice Standard. Combining B-57TF-7 and T-200-11 into B-369-1.	Volatile Organic Compounds (VOCs) and Other Organic Compounds emitted from this source (excluding fugitive emissions from pumps, valves, flanges, etc.) shall not exceed 11.43 tons during all intervals of 12 consecutive months.
N/A	N/A – newly proposed limitation	Addition	Acetone is no longer federally regulated as a VOC. Change to Work Practice Standard. Combining B-57TF-7 and T-200-11 into B-369-1.	¹ Quarterly Leak Inspection and Repair (Fugitive VOC and Other Organic Compounds from pumps, valves, flanges, etc., are estimated at 25.8 tpy)
4	Sodium hydroxide (NaOH) emitted from this source shall not exceed 0.41 lb/hr.	Revision	Changing to Leak Inspection and Repair for fugitive emissions from pumps, valves, flanges, etc.	¹ Annual Leak Inspection and Repair (Fugitive NaOH from pumps, valves, flanges, etc., are estimated at 1.8 tpy)
Footnotes: 1 Refer to Quarterly / Annual Leak Inspection Guidance in the Table Notes.				
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1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company				2. EMISSION SOURCE NUMBER: B-369-1																																																																	
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N/A	N/A – newly proposed limitation		Addition	Condition not established previously. Change to work practice standard.	Annual Leak Inspection and Repair ¹ (Fugitive Ammonia from pumps, valves, flanges, etc., are estimated at 0.12 tpy)																																																																
5	This permit is only valid for the storage tanks listed below: <table border="1"> <thead> <tr> <th colspan="2">Tanks ID</th> <th colspan="2">Capacity (gallons)</th> </tr> </thead> <tbody> <tr><td>CG-50</td><td>AP-53</td><td>1,400</td><td>57,000</td></tr> <tr><td>CH-50</td><td>AS-54</td><td>600</td><td>18,500</td></tr> <tr><td>DA-51</td><td>AR-50</td><td>1,830</td><td>24,000</td></tr> <tr><td>DC-50</td><td>AR-51</td><td>830</td><td>9,440</td></tr> <tr><td>DD-50</td><td>AS-52</td><td>2,200</td><td>13,600</td></tr> <tr><td>DE-50</td><td>BF-50</td><td>800</td><td>1,050</td></tr> <tr><td>DE-51</td><td>AR-52</td><td>1,000</td><td>24,000</td></tr> <tr><td>DH-50</td><td>AS-55</td><td>2,250</td><td>13,600</td></tr> <tr><td>DJ-50</td><td>AT-50</td><td>800</td><td>18,500</td></tr> <tr><td>DK-50</td><td>BG-50</td><td>830</td><td>3,200</td></tr> <tr><td>DN-50</td><td>BG-01</td><td>1,200</td><td>8,190</td></tr> <tr><td>DN-51</td><td>BG-02</td><td>800</td><td>1,950</td></tr> <tr><td>AP-50</td><td>AS-50</td><td>57,000</td><td>24,000</td></tr> <tr><td>AP-51</td><td>AG-51</td><td>30,000</td><td>540</td></tr> <tr><td>AP-52</td><td>AT-51</td><td>16,000</td><td>10,200</td></tr> </tbody> </table>		Tanks ID		Capacity (gallons)		CG-50	AP-53	1,400	57,000	CH-50	AS-54	600	18,500	DA-51	AR-50	1,830	24,000	DC-50	AR-51	830	9,440	DD-50	AS-52	2,200	13,600	DE-50	BF-50	800	1,050	DE-51	AR-52	1,000	24,000	DH-50	AS-55	2,250	13,600	DJ-50	AT-50	800	18,500	DK-50	BG-50	830	3,200	DN-50	BG-01	1,200	8,190	DN-51	BG-02	800	1,950	AP-50	AS-50	57,000	24,000	AP-51	AG-51	30,000	540	AP-52	AT-51	16,000	10,200	Deletion	Tank capacity is not needed for compliance demonstration.	N/A
Tanks ID		Capacity (gallons)																																																																			
CG-50	AP-53	1,400	57,000																																																																		
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MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-OC DY-1		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR Trailer/Railcar Loading and Unloading Stations				
4. EMISSION SOURCE REFERENCE NUMBER 82-1006-29 (see note below)		5. PERMIT NUMBER 044985P		6. DATE PERMIT ISSUED 5-29-96
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/REVISION)	10. REASON FOR APPROVED DELETION/REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
2	The source owner or operator shall maintain records of tank capacity and an estimate of projected throughput for any uncontrolled tank at the Dumpster Area until such time as the Technical Secretary issue a major stationary source operating permit for this source pursuant to paragraph 1200-3-9-.02(11) that includes some other compliance demonstration method to meet the monitoring and related recordkeeping and reporting requirements of subpart 1200-3-9-.02(11)(e)1.(iii).	DELETION	Not needed for compliance demonstration.	N/A
3	Volatile organic compounds emitted from this source shall not exceed 8.89 tons per year.	REVISION	Combining B-13Y-1 & B-57Y-1 into B-3Y-1. Renaming B-3Y-1 to B-OC DY-1. Acetone no longer federally regulated as a VOC. Removing dumpsters from permit. Revised emissions estimates. Change to Work Practice Standard for equipment leaks.	Volatile organic compounds (VOCs) and other organic compounds emissions from this source (excluding fugitive emissions from pumps, valves, flanges, etc.) shall not exceed 4.66 tons per year on a 12-month moving total basis.
Footnotes:				
11. PAGE NUMBER:		REVISION NUMBER: NA		DATE OF REVISION:

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MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-OC DY-1		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR Trailer/Railcar Loading and Unloading Stations				
4. EMISSION SOURCE REFERENCE NUMBER 82-1006-29 (see note below)		5. PERMIT NUMBER 044985P (see note below)		6. DATE PERMIT ISSUED 5-29-96
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/REVISION)	10. REASON FOR APPROVED DELETION/REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
N/A	N/A	PROPOSED	Combining B-13Y-1 & B-57Y-1 into B-3Y-1. Renaming B-3Y-1 to B-OC DY-1. Acetone no longer federally regulated as a VOC. Removing dumpsters from permit. Revised emissions estimates. Change to Work Practice Standard for equipment leaks.	1 Annual Leak Inspection and Repair (Fugitive VOC and Other Organic Compound emissions from pumps, valves, flanges, etc. are estimated at 2.54 TPY)
Footnotes: 1 Refer to Quarterly / Annual Leak Inspection Guidance in the Table Notes.				
11. PAGE NUMBER:		REVISION NUMBER: NA		DATE OF REVISION:

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MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-YDS-2		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Fugitive ethylene glycol emissions from refrigeration equipment				
4. EMISSION SOURCE REFERENCE NUMBER: 82-1010-99		5. PERMIT NUMBER: 742491P		6. DATE PERMIT ISSUED: October 24, 1995
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/REVISION)	10. REASON FOR APPROVED DELETION/REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
2	Fugitive Volatile Organic Compounds emitted from pumps, valves, etc. shall not exceed 3.3 tons per year (ton/yr).	REVISION	Change to work practice standard. Updated Equipment Count Worksheets	Annual Leak Detection and Repair (Fugitive VOC's from pumps, valves, flanges, etc. are estimated at 4.7 ton/yr.)
Footnotes: 1 Refer to Quarterly / Annual Leak Inspection Guidance in the Table Notes.				
11. PAGE NUMBER:		REVISION NUMBER: NA		DATE OF REVISION:

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Expiration date: December 1, 2003

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Permit number 954289P
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 9TH FLOOR, L&C ANNEX
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Expiration date: December 1, 2003
 APC V.30b

MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-32-2		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Manufacture of Acid, Ester, Alcohol, and Furan, includes pilot plant equipment.				
4. EMISSION SOURCE REFERENCE NUMBER: 82-1011-14		5. PERMIT NUMBER: 955767P		6. DATE PERMIT ISSUED: 11/08/02
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/REVISION)	10. REASON FOR APPROVED DELETION/REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
2	The production rates (non - Research and Development (R&D)) of the following four products, (1) acid, (2) ester, (3) alcohol, and (4) Furan including off-specification production shall not exceed 30,000, 50,000, 10,800, and 9,700 pounds per day, respectively until such time as the Technical Secretary issues a major stationary source operating permit for this source pursuant to paragraph 1200-3-9-.02(11) that includes some other compliance demonstration method to meet the monitoring and related recordkeeping and reporting requirements of subpart 1200-3-9-.02(11) (e).(iii).	Deletion	Alternative method of compliance demonstration	N/A
3	For as long as condition #2 exists, a record of the production rate of acid, ester, alcohol, and ketone including off-specification production, in a form that readily shows compliance with condition #2, must be maintained at the source location and kept available for inspection by the Technical Secretary or his representative. This record must be maintained for a period of not less than five years.	Deletion	Alternative method of compliance demonstration	N/A
11. PAGE NUMBER: 2		REVISION NUMBER: NA		DATE OF REVISION:

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APC V.30b

MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-65E-2		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Small Order Plastics Processing				
4. EMISSION SOURCE REFERENCE NUMBER: 82-1006-59		5. PERMIT NUMBER: 740307P		6. DATE PERMIT ISSUED: November 10, 1994
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/ REVISION)	10. REASON FOR APPROVED DELETION/ REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
1	Input rate of miscellaneous chemicals shall not exceed 740 pounds per hour (lb/hr).	Deletion	Process material input rate is not needed for compliance demonstration	N/A
11. PAGE NUMBER: 5		REVISION NUMBER: NA		DATE OF REVISION:

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MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-65E-6		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Cleaning Ovens for Plastics Processing Equipment				
4. EMISSION SOURCE REFERENCE NUMBER: 82-1011-16		5. PERMIT NUMBER: 945825P		6. DATE PERMIT ISSUED: 11/18/96
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/ REVISION)	10. REASON FOR APPROVED DELETION/ REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
2	The process material input rate shall not exceed 20 pounds per batch and 2 batches per day until such time as the Technical Secretary issues a major stationary source operating permit for this source pursuant to paragraph 1200-3-9-.02(11) that includes some other compliance demonstration method to meet the monitoring and related recordkeeping and reporting requirements of subpart 1200-3-9-.02(11)(e)1.(iii).	Deletion	Process material input rate is not needed for compliance demonstration	N/A
11. PAGE NUMBER: 6		REVISION NUMBER: NA		DATE OF REVISION:

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MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-65F-3		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Small Order Plastics Processing				
4. EMISSION SOURCE REFERENCE NUMBER: 82-1003-03		5. PERMIT NUMBER: 740305P		6. DATE PERMIT ISSUED: 11/10/94
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/ REVISION)	10. REASON FOR APPROVED DELETION/ REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
1	Input rate of miscellaneous chemicals shall not exceed 1,650 pounds per hour (lb/hr).	Deletion	Process material input rate is not needed for compliance demonstration.	N/A
2	Particulate matter emitted from Vents A, B, and C shall not exceed 5.06 pounds per hour (lb/hr) and 3.12 tons per year (ton/yr)	Revision	Includes negligible OENOCs from batch process.	Particulate matter emitted from this source shall not exceed 3.12 tons per year (ton/yr)
3	Volatile Organic Compounds (VOCs) emitted from Vents A, B, and C shall not exceed 3.32 lb/hr and 4.62 ton/yr	Revision	Includes negligible OENOCs from batch process.	Volatile Organic Compounds (VOCs) emitted from this source shall not exceed 4.62 ton/yr.
11. PAGE NUMBER: 7		REVISION NUMBER: NA		DATE OF REVISION:

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MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-66-PP-1		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: General Operations Cellulose Esters Pilot Plant and Small Scale Production				
4. EMISSION SOURCE REFERENCE NUMBER: 82-1006-07		5. PERMIT NUMBER: 954885P		6. DATE PERMIT ISSUED: 11/8/01
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/ REVISION)	10. REASON FOR APPROVED DELETION/ REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
4	During non-R&D operations, a log of the emission factor for each specific product, the number of batches of each specific product produced each month, the VOC and other organic compound emissions for all products during each period of 12 consecutive months, in a form that readily shows compliance with conditions 2 and 3 of this permit, must be retained for a period of not less than two years.	Delete	Meets PMT _c	
11. PAGE NUMBER 8		REVISION NUMBER: NA DATE OF REVISION:		

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MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-124-1		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: General Operations Pilot Plant and Small Scale ()Non-R&D) Production				
4. EMISSION SOURCE REFERENCE NUMBER: 82-1008-31		5. PERMIT NUMBER: 952035P		6. DATE PERMIT ISSUED: 11/1/99
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/REVISION)	10. REASON FOR APPROVED DELETION/REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
2	Total Volatile Organic Compounds (VOC) and Other Organics emitted from this source during non-research and development (R&D) operations shall not exceed 3.71 tons during any period of 12 consecutive months.	Revision	Change to work practice standard for fugitive equipment leaks	Total Volatile Organic Compounds (VOC) and Other Organics, excluding fugitive equipment leaks from pumps, valves, flanges, etc. during non-research and development (R&D) shall not exceed 0.87 tons during any period of 12 consecutive months.
3	During non-R&D Operations, fugitive Volatile Organic Compounds (VOC) and other organics emitted from Vent E (pumps, valves, flanges, etc.) shall not exceed 2.84 tons per year.	Revision	Change to work practice standard for fugitive equipment leaks	Annual Leak Detection and Repair ¹ (Fugitive Volatile Organic Compounds (VOC) and other Organic emissions from pumps, valves, flanges, etc. are estimated at 2.84 tons per year).
Footnotes: 1 Refer to Quarterly / Annual Leak Inspection Guidance in the Table Notes.				
11. PAGE NUMBER: 9		REVISION NUMBER: NA		DATE OF REVISION:

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MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-152-1		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: General Operations Pilot Plant and Small Scale Production				
4. EMISSION SOURCE REFERENCE NUMBER: 82-1006-22		5. PERMIT NUMBER: 954477P		6. DATE PERMIT ISSUED: July 3, 2001
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/REVISION)	10. REASON FOR APPROVED DELETION/REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
3	During non-R&D operations a log of the emission factor for each specific product, the number of batches of each specific product produced each month, the VOC and other organic compound emissions for all products during each period of 12 consecutive months, in a form that readily shows compliance with Condition 2 of this permit, must be retained for a period of not less than two years.	Deletion	Included with PMT	
Footnotes: 1 Refer to Quarterly / Annual Leak Inspection Guidance in the Table Notes.				
11. PAGE NUMBER: 10		REVISION NUMBER: NA		DATE OF REVISION:

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MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-159-1		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: General Operations Pilot Plant and Small Scale (non R&D) Production				
4. EMISSION SOURCE REFERENCE NUMBER: 82-1006-23		5. PERMIT NUMBER: 954100P		6. DATE PERMIT ISSUED: February 27, 2001
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/ REVISION)	10. REASON FOR APPROVED DELETION/ REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
4	During non - R&D operations, a log of the emission factor for each specific product, the number of batches of each specific product produced each month, the VOC and other organic compound emissions for all products during each period of 12 consecutive months, in a form that readily shows compliance with condition 2 of this permit, must be retained for a period of not less than two years..	Delete	Included with PMT	
Footnotes: 1 Refer to Quarterly / Annual Leak Inspection Guidance in the Table Notes.				
11. PAGE NUMBER: 11		REVISION NUMBER: NA		DATE OF REVISION:

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MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: LI-CE-1		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Storage Tanks D501 and D502				
4. EMISSION SOURCE REFERENCE NUMBER: 82-1010-16		5. PERMIT NUMBER: 946131P		6. DATE PERMIT ISSUED: February 5, 1997
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/REVISION)	10. REASON FOR APPROVED DELETION/REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
5	Fugitive VOCs equipment leaks associated with this source shall not exceed 1.13 ton/yr	REVISION	Change to work practice standard.	Annual Leak Inspection and Repair. ¹ (Fugitive VOCs from pumps, valves, flanges, etc., are estimated at 1.13 ton/yr.
3	Storage tanks D501 and D502 are subject to Rule 1200-3-16-.61(7)(a)(b) of the Tennessee Air Pollution Control Regulations.	Deletion	Will comply with federal Subpart Kb standards.	
Footnotes: 1 Refer to Quarterly / Annual Leak Inspection Guidance in the Table Notes.				
11. PAGE NUMBER:		REVISION NUMBER: NA		DATE OF REVISION:

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MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-55G-1		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Acid Concentration Sludge System				
4. EMISSION SOURCE REFERENCE NUMBER: 82-1007-51		5. PERMIT NUMBER: 947302P		6. DATE PERMIT ISSUED: July 24, 1997
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/REVISION)	10. REASON FOR APPROVED DELETION/REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
2	The process material (sulfuric acid and acid sludge/dope) input rate shall not exceed 91 batches (4,000 gallons per batch (gal/batch) maximum) per week on a rolling weekly average until such time as the Technical Secretary issues a major stationary source operating permit for this source pursuant to paragraph 1200-3-9-.02(11) that includes some other compliance demonstration method to meet the monitoring and related recordkeeping and reporting requirements of subpart 1200-3-9-.02(11)(e)1.(iii).	DELETION	The production record of batches per week is being used as compliance for Vent B.	N/A
3	For as long as condition 2 exists, a production record of the number of batches per week at a maximum of 4,000 gal/batch, in a form that readily shows compliance with condition 2, must be maintained at the source location and kept available for inspection by the Technical Secretary or his representative. This record must be retained for a period of not less than five years.	DELETION	The log of batches per week is being used as compliance for Vent B.	N/A
4	Sulfur dioxide (SO ₂) emitted from Vent B shall not exceed 21.8 pounds per week (lb/wk) based on 0.24 pounds per batch (lb/batch)	REVISION	To include in limit flow diagram points D and F (with negligible emissions) and removed lbs/batch restriction.	Sulfur dioxide (SO ₂) emitted from this source shall not exceed 21.8 pounds per week (lb/wk).
5	Volatile Organic Compounds (VOCs) emitted from Vents B, C, and E shall not exceed 329.3 lb/wk based on 3.62 lb/batch	REVISION	Batches per week is being used as compliance and removed lbs/batch restriction.	Volatile Organic Compounds (VOCs) emitted from Vents B, C, and E shall not exceed 329.3 pounds per week.
11. PAGE NUMBER: REVISION NUMBER: NA DATE OF REVISION:				

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MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-55G-1		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Acid Concentration Sludge System				
4. EMISSION SOURCE REFERENCE NUMBER: 82-1007-51		5. PERMIT NUMBER: 947302P		6. DATE PERMIT ISSUED: July 24, 1997
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/REVISION)	10. REASON FOR APPROVED DELETION/REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
6	Fugitive VOC emitted from Vent D (equipment leaks) shall not exceed 6.8 tons per year (ton/yr).	REVISION	Change to work practice standards for fugitive emissions	Quarterly Leak Inspection and Repair ¹ (Fugitive VOCs from pumps, valves, flanges, etc., are estimated to be 7.3 tons per year)
7	VOCs emitted from this source shall not exceed 16.61 ton/yr on a 12-month moving total basis.	REVISION	Change to work practice standards for fugitive emissions	VOCs emitted from this source (excluding fugitive equipment leaks from pumps, valves, flanges, etc.) shall not exceed 9.81 tons per year on a 12-month moving basis.
8	Carbon monoxide (CO) emitted from Vents B and E shall not exceed 7.73 tons per week based on 169.0 lb/batch.	REVISION	Removed lbs/batch restriction	CO emitted from Vents B and E shall not exceed 7.73 tons per week.
Footnotes: .1 Refer to Quarterly / Annual Leak Inspection Guidance in the Table Notes.				
11. PAGE NUMBER:		REVISION NUMBER: NA		DATE OF REVISION:

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MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations; Eastman Chemical Company		2. EMISSION SOURCE NUMBER: TR-73-1																																		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Chemical Storage Tanks																																				
4. EMISSION SOURCE REFERENCE NUMBER: 82-1006-32		5. PERMIT NUMBER: 741781P		6. DATE PERMIT ISSUED: June 23, 1995																																
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED DELETION/REVISION	10. REASON FOR APPROVED DELETION/REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE																																
3	Fugitive volatile organic compounds emitted from pumps, valves, etc., shall not exceed 10.6 ton/yr.	Revision	Change to work practice standard	Quarterly leak inspection and repair (fugitive VOCs from pumps, valves, flanges, etc., are estimated at 10.6 ton/yr) ¹																																
4	Total Volatile Organic Compounds emitted from this source shall not exceed 14.7 ton/yr.	Revision	Change to work practice standard	Total Volatile Organic Compounds emitted from this source excluding fugitive equipment leaks from pumps, valves, flanges, etc.) shall not exceed 4.1 ton/yr.																																
5	Unless allowed otherwise in 1200-3, the control device (scrubbers) on Vents A and B shall be operated with a control efficiency of 96 percent at the control device design rating.	Revision	Vent B deleted.	Unless allowed otherwise in 1200-3, the control device (scrubbers) on Vent A shall be operated with a control efficiency of 96 percent at the control device design rating.																																
2	This permit is valid for the storage tanks listed below: <table border="1"> <thead> <tr> <th>TK ID</th> <th>Capacity (Gallo ns)</th> </tr> </thead> <tbody> <tr><td>131</td><td>23,900</td></tr> <tr><td>132</td><td>23,900</td></tr> <tr><td>133</td><td>23,900</td></tr> <tr><td>134</td><td>23,900</td></tr> <tr><td>135</td><td>18,370</td></tr> <tr><td>136</td><td>18,370</td></tr> <tr><td>137</td><td>18,370</td></tr> <tr><td>138</td><td>18,370</td></tr> <tr><td>139</td><td>18,370</td></tr> <tr><td>140</td><td>18,370</td></tr> <tr><td>141</td><td>18,370</td></tr> <tr><td>142</td><td>18,370</td></tr> <tr><td>143</td><td>18,370</td></tr> <tr><td>144</td><td>18,370</td></tr> <tr><td>146</td><td>18,370</td></tr> </tbody> </table>	TK ID	Capacity (Gallo ns)	131	23,900	132	23,900	133	23,900	134	23,900	135	18,370	136	18,370	137	18,370	138	18,370	139	18,370	140	18,370	141	18,370	142	18,370	143	18,370	144	18,370	146	18,370	Deletion	Maintaining records of tank identification and capacity is not needed for compliance demonstration.	
TK ID	Capacity (Gallo ns)																																			
131	23,900																																			
132	23,900																																			
133	23,900																																			
134	23,900																																			
135	18,370																																			
136	18,370																																			
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Footnotes: 1 Refer to Quarterly / Annual Leak Inspection Guidance in the Table Notes.																																				
11. PAGE NUMBER:		REVISION NUMBER: NA		DATE OF REVISION:																																

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MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-82-1		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Pneumatic Unloading Station				
4. EMISSION SOURCE REFERENCE NUMBER: 82-1003-82		5. PERMIT NUMBER: 743038P		6. DATE PERMIT ISSUED: December 5, 1995
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/ REVISION)	10. REASON FOR APPROVED DELETION/ REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
2	The process material input rate shall not exceed 60,000 pounds per hour until such time as the Technical Secretary issues a major Stationary Source Operating Permit for this source pursuant to Paragraph 1200-3-9-.02(11) that includes some other compliance demonstration method to meet the monitoring and related recordkeeping and reporting requirements of subpart 1200-3-9.02 (11)(e)1.(iii)	Deletion	Process material input rate is not needed for compliance demonstration.	
11. PAGE NUMBER:		REVISION NUMBER: NA		DATE OF REVISION:

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MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-82-2		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Distillation Complex, Buildings 82, 82A, 82D, 82E, 82F, 82G, and 489				
4. EMISSION SOURCE REFERENCE NUMBER: 82-1008-79		5. PERMIT NUMBER: 946576P		6. DATE PERMIT ISSUED: February 20, 1997
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/REVISION)	10. REASON FOR APPROVED DELETION/REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
2	The process production rate of organic acid, including off-specification production shall not exceed 12,000,000 pounds per day until such time as the Technical Secretary issues a major Stationary Source Operating Permit for this source pursuant to paragraph 1200-3-9-.02 (11) that includes some other compliance demonstration methods to meet the monitoring and related recordkeeping and reporting requirements of Subpart 1200-3-9-.02(11)(e)1.(iii).	Deletion	Process production rate is not needed for compliance demonstration.	N/A
3	For as long as condition 2 exists, a record of the process production rate of organic acid, including off-specification production, in a form that readily shows compliance with condition 2, must be maintained at the source location and kept available for inspection by the Technical Secretary or his representative. This record must be retained for a period of not less than two years.	Deletion	The log is not needed for compliance demonstration.	N/A
Footnotes:				
11. PAGE NUMBER:		REVISION NUMBER: NA		DATE OF REVISION:

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Expiration date: December 1, 2003

TENNESSEE DIVISION OF AIR POLLUTION CONTROL
9TH FLOOR, L&C ANNEX
401 CHURCH STREET
NASHVILLE, TN 37243-1531

APC V.30b

MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-82-2		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Distillation Complex, Building 82, 82A, 82D, 82E, 82F, 82G, and 489				
4. EMISSION SOURCE REFERENCE NUMBER: 82-1008-79		5. PERMIT NUMBER: 946576P		6. DATE PERMIT ISSUED: February 20, 1997
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/REVISION)	10. REASON FOR APPROVED DELETION/REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
6	Fugitive VOCs emitted from pumps, valves, etc. associated with this source (Vents J and X) shall not exceed 52.7 tons per year (ton/yr).	Revision	Change to work practice standard	Quarterly leak inspection and repair for Flow Diagram Point J. ¹ Annual Leak Inspection and Repair for Flow Diagram Point X. ¹ (Fugitive VOC emissions from pumps, valves, flanges, etc., are estimated at 52.7 ton/yr)
7	VOCs emitted from this source shall not exceed 125.1 ton/year	Revision	Change to work practice standard	VOCs emitted from this source (excluding fugitive equipment leaks from pumps, valves, and flanges, etc.) shall not exceed 72.4 ton/year.
Footnotes: 1 Refer to Quarterly / Annual Leak Inspection Guidance in the Table Notes.				
11. PAGE NUMBER:		REVISION NUMBER: NA		DATE OF REVISION:

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MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-82-TF		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Thirty Seven (37) Storage Tanks				
4. EMISSION SOURCE REFERENCE NUMBER: 82-1004-20		5. PERMIT NUMBER: 945846P		6. DATE PERMIT ISSUED: December 29, 1996
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/ REVISION)	10. REASON FOR APPROVED DELETION/ REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
4	Fugitive VOCs emitted from pumps, valves, etc., associated with this source shall not exceed 24.4 ton/yr.	REVISION	Change to work practice standard	Quarterly Leak inspection and repair. 1 (Fugitive VOC emissions from pumps, valves, flanges, etc., are estimated at 24.4 ton/yr.
5	VOCs emitted from this source shall not exceed 41.5 ton/yr.	REVISION	Change to work practice standard for equipment leaks.	VOCs emitted from this source (excluding fugitive equipment leaks from pumps, valves, flanges, etc.) shall not exceed 17.1 ton/yr.
Footnotes: 1 Refer to Quarterly / Annual Leak Inspection Guidance in the Table Notes.				
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MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-137-1		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Recovery equipment for weak acid.				
4. EMISSION SOURCE REFERENCE NUMBER: 82-1007-92		5. PERMIT NUMBER: 951202P		6. DATE PERMIT ISSUED: May 19, 1999
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/ REVISION)	10. REASON FOR APPROVED DELETION/ REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
3	The production rate of acid, including off-specification production, shall not exceed 11,800,000 pounds per day until such time as the Technical Secretary issues a major stationary source operating permit for this source pursuant to paragraph 1200-3-9-.02(11) that includes some other compliance demonstration method to meet the monitoring and related recordkeeping and reporting requirements of subpart 1200-3-9-.02(11)(e)1.(iii)e	DELETION	The production rate of acid is not needed for compliance demonstration.	N/A
4	For as long as condition 3 exists, a record of the production rate of acid, including off-specification production, in a form that readily shows compliance with condition 3, must be maintained at the source location and kept available for inspection by the Technical Secretary or his representative. This record must be maintained for a period of not less than five years.	DELETION	The production rate of acid is not needed for compliance demonstration	N/A
Footnotes:				
11. PAGE NUMBER:		REVISION NUMBER: NA		DATE OF REVISION:

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MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-137-1		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Recovery equipment for weak acid.				
4. EMISSION SOURCE REFERENCE NUMBER: 82-1007-92		5. PERMIT NUMBER: 951202P		6. DATE PERMIT ISSUED: May 19, 1999
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/REVISION)	10. REASON FOR APPROVED DELETION/REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
5	The source owner or operator shall maintain records of tank identification, capacity, and an estimate of projected throughput for uncontrolled Tank 352 until such time as the Technical Secretary issues a major stationary source operating permit for this source pursuant to paragraph 1200-3-9-.02(11) that includes some other compliance demonstration method to meet the monitoring and related recordkeeping and reporting requirements of subpart 1200-3-9-.02(11)(e)1(iii).	DELETION	Maintaining records of tank identification, capacity, and an estimate of projected throughput for uncontrolled tank 352 is not needed for compliance demonstration	N/A
6	Volatile Organic Compounds (VOCs) emitted from Vents A and G shall not exceed 231.0 tons per year (Ton/yr)	REVISION	Tank 357 (Vent G emissions) has been replaced and emissions are included in Vent A emissions	Volatile Organic Compounds (VOCs) emitted from Vent A shall not exceed 201 tons per year (ton/yr.).
7	VOC emissions from Tanks 352 shall not exceed 5.66 ton/yr.	DELETION	Tank 352 emissions are included in source VOC limit.	
8	Carbon monoxide emitted from Vent A shall not exceed 1.2 pounds per hour and 1.1 ton/yr	REVISION	N/A	Carbon monoxide emitted from Vent A shall not exceed 1.1 ton/yr.
Footnotes:				
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MAJOR SOURCE OPERATING PERMIT APPLICATION: APPROVED CHANGES TO CONSTRUCTION PERMIT CONDITIONS

1. FACILITY NAME: Tennessee Operations, Eastman Chemical Company		2. EMISSION SOURCE NUMBER: B-137-1		
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Recovery equipment for weak acid.				
4. EMISSION SOURCE REFERENCE NUMBER: 82-1007-92		5. PERMIT NUMBER: 951202P		6. DATE PERMIT ISSUED: May 19, 1999
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/ REVISION)	10. REASON FOR APPROVED DELETION/ REVISION	11. NEW LIMITATION OR STANDARD FOR THIS SOURCE
9	VOC emissions from rotostrainer solids removal system (Vent B) shall not exceed 110 ton/yr.	REVISION	OENOC emissions included with source limit (includes bypass hours)	VOC emissions from entire Source (excluding fugitive equipment leaks from pumps, valves, flanges, etc.) shall not exceed 322 ton/yr.
10	Fugitive VOCs emitted from pumps, valves, etc. associated with this source shall not exceed 31.41 ton/yr	REVISION	Change to work practice standard	Quarterly Leak Inspection and Repair. ¹ Fugitive VOCs from pumps, valves, flanges, etc., are estimated at 31.41 ton/yr.
12	Unless allowed otherwise in 1200-3, the recovery device for Vents A, and G shall be operated with recovery efficiencies of at least 95%, and 90%, respectively for VOCs at the respective recovery device design rating.	REVISION	Tank 357 (Vent G emission) has been replaced and emissions are included in Vent A emissions	Unless allowed otherwise in 1200-3, the recovery device for Vent A shall be operated with recovery efficiencies > or = 95% for VOCs at the recovery device design rating.
Footnotes: 1 Refer to Quarterly / Annual Leak Inspection Guidance in the Table Notes.				
11. PAGE NUMBER:		REVISION NUMBER: NA		DATE OF REVISION:

Table Notes:
Quarterly/Annual Leak Inspection Guidance

Quarterly Leak Inspection

a) 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 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 300 hours in a calendar quarter is exempt from this inspection for that quarter.

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 (a).

(v) "Repair delayed" and the reason for the delay if a leak is not repaired within 30 days after discovery of the leak.

Annual Leak Inspection

- (a) 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 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 (a).
 - (v) "Repair delayed" and the reason for the delay if a leak is not repaired within 30 days after discovery of the leak.