C.O. FILE

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



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

Date Issued: September 6, 2001

Permit Number:

953862P

Date Expires: December 1, 2001

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

82-0003-51 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)

TEQUNICAL 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

CN-0754 (Rev. 9-92)

RDA-1298

page 2 of 2

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)

<u>ATTACHMENT 1</u> <u>LISTING OF SOURCES</u>

MSOP-07:

Reference Title V Permit Application dated May 30, 1997 and revisions dated February 18, 1999 and June 6, 2000. Requested permit modifications are noted on Forms V.30b for the following sources:

Emission Source I.D.	 Emission Source Number		Permit Number
B-244A-1	82-1003-13		951231P
B-244B-1	82-1003-14	•	948289P
T-234-1	82-0003-51		946666P

MSOP-21

Reference Title V Permit Application dated June 24, 1997 and revisions dated March 31, 1999, September 24, 1999, October 23, 2000, and August 23, 2001. Requested permit modifications are noted on Forms V.30b for the following sources:

Emission Source I.D.	Emission Source Number	Permit Number
B-244-1	82-1003-08	948040P
B-244-2	82-1003-09	947375P
B-244D-1	82-0003-70	948625P
B-244D-2	82-1006-03	948121P
B-244E-1	82-0003-23	949838P

ATTACHMENT 2 SOURCE SPECIFIC MODIFICATIONS TO PERMIT CONDITIONS

<u>MSOP-07</u>

Permit number 953862P

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

Expiration date: December 1, 2001

APC V.30b

Tennessee Eastman Division of Eastman Chemical Company 3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Ketone Production 4. EMISSION SOURCE REPERENCE NUMBER: 5. PERMIT NUMBER: 6. DATE PERMIT ISSUED: May 19, 1999 7. CONSTRUCTION 7. CONSTRUCTION 8. PERMIT CONDITION NUMBER 9. NATURE OF APPROVED (DELETTON) REVISION PERMIT CONDITION 2. The production rate of ketones, including off specification production, shall not exceed the number stated in APC-21 & 24 dated March 5, 1999, that accompanied the Request for Protection Order for Confidential Information dated March 5, 1999, and signed by Linda Lewis, until such time as the Technical Secretary in to paragraph 1200-39-02 (11) that includes some other compliance demonstration method to meet the monitoring and related recordiseping and reporting requirements of subpart 1200-39-02 (11) (e) 1, (iii) 4. The source owner or operator shall maintain records of tank Secretary in the restrict of projected permits of the source pursuant to paragraph 1200-39-02 (11) that includes some other compliance demonstration paragraph 200-39-02 (11) that includes some other compliance of the 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 its representative. This record must be retained for a period of not less than five years. 4. The source owner or operator shall maintain records of tank Secretary or its representative. This record must be retained for a period of not less than five years. 4. The source owner or operator shall maintain records of tank Secretary or Secretary issues a major source demonstration using record-keeping of law emission limitations. 4. The source owner or operator shall maintain records of tank Secretary or longer required compliance demonstration using record-keeping of law emission limitations. 4. The source owner or operator shall maintain records of tank Secretary or longer required. 5.						'	
3. DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Retone Production 4. EMISSION SOURCE REFERENCE NUMBER: 82-1003-13 8. FERMIT CONDITION 7. CONSTRUCTION 8. FERMIT CONDITION 8. FERMIT CONDITION NUMBER 7. The production rate of ketones, including off specification production, shall not exceed the number stated in APC-21 & 24 dated March 5, 1999, that accompanied the Request for Protection Order for Confidential Information dated March 5, 1999, and signed by Linda Lewis, until such time as the Technical Secretary issues a major source operating permit for this source pursuant to paragraph 1200-3-9-02(11) that includes some other compliance demonstration to meet the monitoring and related recordisceping and reporting requirements of subpart 1200-3-9-02(11) that includes some other compliance demonstration will be referred to the source location and kept available for impection by the Technical Secretary issues a major source operating permit for this source pursuant to paragraph 1200-3-9-02(11) that includes some other compliance demonstration will be referred to the source location and kept available for impection by the Technical Secretary issues a major source operating permit for this source pursuant to paragraph 1200-3-9-02(11) that includes some other compliance demonstration using recording the received Compliance demonstration using recording for this recording the received Compliance demonstration using recording the received Compliance demonstration using recording the received Compliance demonstration using recording the received Compliance demonstration demonstration method to meet the monitoring and related recording and reporting requirements of subpart 1200-3-9-02(11) that includes some other compliance demonstration method to meet the monitoring and related recording and reporting requirements of subpart 1200	1. FACILITY	NAME:	······································	2. EMISSION SOURCE	CE NUMBER:		
Retone Production String Source Reference Number: S. Premit Number: S. Premit Number: Source Reference Number: S. Premit Number: Source Source Reference Number: Source So	Tennessee	Eastman Division of Eastman Chemical Company		B-244A-1			
4. BMISSION SOURCE REFERENCE NUMBER: 5. PERMIT NUMBER: 9.1231P 7. CONSTRUCTION 8. PERMIT CONDITION 10. REASON FOR APPROVIDE DELECTION REVISION APPROVIDE DELECTION REVISION 11. NEW LIMITATION OR STANDARD FOR APPROVIDE DELECTION REVISION POSITION REVISION Deletion Deletion Deletion Deletion This condition rate of ketones, including off specification production, shall not exceed the number stated in APC-21 & 24 dated March 5, 1996, and signed by Lind Lewis, until such time as the Technical Secretary issues a major source operating permit for this source pursuant to paragraph 1200-5-9-0.2 (11) that includes some other compliance demonstration membrand the source pursuant to 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 five years. 4. The source owner or operator shall maintain records of tank identification, capacity, and an estimate of projected throughput for uncontrolled Tanks 71, 89, 73, 72, 64, 65, 63, 70, 200, 77, 78, 94, 95, and 79 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 membrod to meet the monitoring and related recordkeeping and reporting requirements of subpart 1200-3-9-02(11) that includes some other compliance demonstration membrod to meet the monitoring and related recordkeeping and reporting requirements of subpart 1200-3-9-02(11) that includes some other compliance demonstration membrod to meet the monitoring and related recordkeeping and reporting requirements of subpart 1200-3-9-02(11) that includes some other compliance demonstration membrod to meet the monitoring and related recordkeeping and reporting requirements of subpart 1200-3-9-02(11)	3. DESCRIBE	THE PROCESS EMISSION SOURCE/FUEL BURNING INSTA	LLATION/INCINERA	TOR:	.,	-	
7. CONSTRUCTION 7. CONSTRUCTION 8. PERMIT CONDITION NUMBER 8. PERMIT CONDITION NUMBER 9. NATURE OF APPROVED OBLETTON/ PROVED OBLETTON/ PROVIDE O	Ketone Pr	oduction					
7. CONSTRUCTION REMAIT CONDITION WIGHER OF APPROVED (DELETION) APPROVED DELETION APPROVED DELETION (REVISION) 2 The production rate of ketones, including off specification production, shall not exceed the number stated in APC-21 & 24 dated March 5, 1999, and signed by Linda Lewis, until such time as the Technical Secretary issues a major source operating permit for this source pursuant to paragraph 1200-39-02 (11) (e) 1. (iii). 3 For as long as condition 2 exists, a record of the production rate of Ketones, 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 five years. 4 The source owner or operator shall maintain records of tank identification, capacity, and an estimate of projected throughput for uncontrolled Tanks 71, 69, 73, 72, 64, 63, 70, 200, 77, 78, 94, 59, and 79 untils such time as the Technical Secretary issues a major stationary source operating permit for its source pursuant to paragraph 1200-39-02(11) that includes some other compliance demonstration under the compliance demonstration method to meet the monitoring and related records of tank identification, capacity, and an estimate of projected incompliance demonstration method to uncent the monitoring and related recordseeping and reporting requirements of subpart 1200-3-9-02(11) that includes some other compliance demonstration method to meet the monitoring and related recordseeping and reporting requirements of subpart 1200-3-9-02(11) that includes some other compliance demonstration method to meet the monitoring and related recordseeping and reporting requirements of subpart 1200-3-9-02(11) that includes some other compliance demonstration method to meet the monitoring and related recordseeping and reporting requirements of subpart 1200-3-9-02(11) that includes some other compliance demonstration method to meet	4. EMISSION	SOURCE REFERENCE NUMBER:	5. PERMIT	NUMBER:	6. DATE P	ERMIT ISSUED	
7. CONSTRUCTION PERMIT CONDITION NUMBER 2 The production rate of ketones, including off specification production, shall not exceed the number stated in APC-21 & 24 dated March 5, 1999, and signed by Linda Lewis, until such time as the Technical Secretary issues a major source operating requirements of subpart 1200-3-0.2 (11) (e.) 1. (iii). 3 For as long as condition 2 exists, a record of the 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 five years. 4 The source owner or operator shall maintain records of tank identification, capacity, and an estimate of projected throughput for uncontrolled Tanks 71, 69, 73, 72, 64, 65, 63, 70, 200, 77, 78, 94, 95, and 79 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) (et al. (iii). 4 The source owner or operator shall maintain records of tank identification, capacity, and an estimate of projected throughput for uncontrolled Tanks 71, 69, 73, 72, 64, 65, 63, 70, 200, 77, 78, 94, 95, and 79 untils 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) that includes some other compliance demonstration method to meet the monitoring and related recordkeeping and reporting requirements of subpart 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) that includes some other compliance demonstration method to meet the monitoring and related recordkeeping and reporting requirements of subpart 1200-3-9-02(11) that inc	82-1003-1	3	951231P		May 19	. 1999	
production, shall not exceed the number stated in APC-21 & 24 dated March 5, 1999, and signed by Linda Lewis, until such time as the Technical Secretary issues a major 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). 3 For as long as condition 2 exists, a record of the production rate of Ketones, including off specification production, in a form that readily shows compliance with condition 2, must be maintained at the source location and kept variable for inspection by the Technical Secretary or his representative. This record must be retained for a period of not less than five years. 4 The source owner or operator shall maintain records of tank identification, capacity, and an estimate of projected throughput for uncontrolled Tanks 71, 89, 73, 72, 64, 65, 63, 70, 200, 77, 78, 94, 95, and 79 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).	7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	APPROVED (DELETION/	APPROVED DELETION/	11. NEW LI	MITATION OR	STANDARD FOR
rate of Ketones, 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 five years. 4 The source owner or operator shall maintain records of tank identification, capacity, and an estimate of projected throughput for uncontrolled Tanks 71, 69, 73, 72, 64, 65, 63, 70, 200, 77, 78, 94, 95, and 79 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 identification and capacity no longer required. Compliance demonstration using recordkeeping of tank emissions will serve to demonstrate compliance with emission limitations.	2	production, shall not exceed the number stated in APC-21 & 24 dated March 5, 1999, that accompanied the Request for Protection Order for Confidential Information dated March 5, 1999, and signed by Linda Lewis, until such time as the Technical Secretary issues a major source operating permit for this source pursuant to paragraph 1200-3-902 (11) that includes some other compliance demonstration method to meet the monitoring and related recordkeeping and reporting	Deletion	compliance demonstration			
identification, capacity, and an estimate of projected throughput for uncontrolled Tanks 71, 69, 73, 72, 64, 65, 63, 70, 200, 77, 78, 94, 95, and 79 until such time as the Technical Secretary issues a major stationary source operating permit for this source pursuant to paragraph 1200-3-902(11) that includes some other compliance demonstration method to meet the monitoring and related recordkeeping and reporting requirements of subpart 1200-3-902(11)(e)1.(iii).	, 3	rate of Ketones, 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 five	Deletion	combined in the revised			
	4	identification, capacity, and an estimate of projected throughput for uncontrolled Tanks 71, 69, 73, 72, 64, 65, 63, 70, 200, 77, 78, 94, 95, and 79 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-	Deletion	capacity no longer required. Compliance demonstration using recordkeeping of tank emissions will serve to demonstrate compliance with			
1. PAGE NUMBER: NA DATE OF REVISION:	Footnotes: N/	A					
	11. PAGE NUMBER:	R	EVISION NUMBER:	NA	DAT	E OF REVISION	•
TED Form (March 1999)			D D - 12	1			

Permit number 953862P
TENNESSEE DIVISION OF AIR POLLUTION CONTROL
9TH FLOOR, L&C ANNEX
401 CHURCH STREET

NASHVILLE, TN 37243-1531

Expiration date: December 1, 2001

APC V.30b

1. FACILITY N	AME:		2. EMISSION SOUR	CE NUMBER:
Tennessee	Eastman Division of Eastman Chemical Company		B-244A-1	
	HE PROCESS EMISSION SOURCE/FUEL BURNING INSTA	LLATION/INCINERA	TOR:	
Ketone Pro	duction			
. EMISSION S	OURCE REFERENCE NUMBER:	5. PERMIT	NUMBER:	6. DATE PERMIT ISSUED
82-1003-13		951231P		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
7	Fugitive VOCs emitted from pumps, valves, etc. associated with this source (Vent X) shall not exceed 26.47 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 26.47 ton/yr)
11	Fugitive Acetone emitted from pumps, valves, etc. associated with this source (Vent X) shall not exceed 17.01 ton/yr.	Revision	Change to Work Practice Standard	Quarterly Leak inspection and repair. (1) (Acetone emissions from pumps, valves, flanges, etc. a estimated at 17.01 ton/yr)
8	VOCs emitted from this source shall not exceed 71.4 ton/yr.	Revision	Change to Work Practice Standard	VOCs emitted from this source excluding fugitive emissions from pumps, valves, flanges, etc. shall not exceed 44.93 ton/yr.
12	Acetone emitted from this source shall not exceed 80.11 ton/yr.	Revision	Change to Work Practice Standard	Acetone emitted from this source excluding fugitive emissions from pumps, valves, flanges, etc. shall not exceed 63.1 ton/yr.
Footnotes: 1	Refer to Quarterly / Annual Leak Inspect	ion Guidance in	the Table Notes.	
. Cochoces.		REVISION NUMBER:	<u> </u>	DATE OF REVISION:

Permit number 953862P

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

Expiration date: December 1, 2001

APC V.30b

. FACILI	Y NAME:		2. EMISSION SOUR	CE NUMBER:		
Tennes	see Eastman Division of Eastman Chemical Company		B-244B-1	,		
. DESCRI	BE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTA	ALLATION/INCINERA	TOR:			
Ketone	Production			٠.		
. EMISSIC	N SOURCE REFERENCE NUMBER:	5. PERMIT N	NUMBER:	6. DATE P	ERMIT ISSUED:	
82-1003	3-14	948289P		Februa	ry 18, 1998	
. CONSTRUCTI ERMIT CONDITI UMBER		9. NATURE OF APPROVED (DELETION/ REVISION)	10. REASON FOR APPROVED DELETION/ REVISION	11. NEW LI	MITATION OR S	TANDARD FOR
4	The source owner or operator shall maintain records of tank identification, capacity, and an estimate of projected throughput for uncontrolled tanks 272, 264, 265, 269, 273, 201, 271, 270, 263, 5, 66, DD-161/162, and 293 until such time as the Technical Secretary issues a major Stationary Source Operating Permit for this source pursuant to paragraph 1200-3-902(11) that includes some other compliance demonstration methods to meet the monitoring and related recordkeeping and reporting requirements of subpart 1200-3-902(11)(e)1.(iii).	Deletion	Tank identification and capacity no longer required. Compliance demonstration using recordkeeping of tank emissions will serve to demonstrate compliance with emission limitations.			
8	VOCs emitted from this source shall not exceed 57.18 ton/yr.	Revision	Change to Work Practice Standard	VOCs emitted from emissions from purn exceed 31.93 ton/yr.	ps, valves, flange	
7	Fugitive VOCs emitted from pumps, valves, etc. associated with this source shall not exceed 25.25 ton/yr.	Revision	Change to Work Practice Standard	Quarterly leak inspe (Fugitive VOC emiss etc. are estimated at	sions from pumps	•
12	Acetone emitted from this source shall not exceed 15.93 ton/yr.	Revision	Change to Work Practice Standard	Acetone emitted from emissions from pum exceed 5.68 ton/yr.		
11	Fugitive acetone emission emitted from pumps, valves, etc. associated with this source shall not exceed 10.25 ton/yr.		Change to Work Practice Standard	Quarterly leak inspective acetone emetic. are estimated at	nissions from pum	•
ootnotes:	1 Refer to Quarterly / Annual Leak Inspect	ion Guidance in t	he Table Notes.	***		
. PAGE NUMBER	:	REVISION NUMBER:	NA	DATE	OF REVISION	<u> </u>

Permit number 953862P

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

Expiration date: December 1, 2001

APC V.30b

1. FACILITY NAME:		2. EMISSION SOURCE	E NUMBER:		
Tennessee Eastman Division of Eastman Chemical	Company	T-234-1			
DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNI	ING INSTALLATION/INCINERA	TOR:			
Tanks 70-06 and 70-07					
EMISSION SOURCE REFERENCE NUMBER:	5. PERMIT	NUMBER:	6. DATE P	ERMIT ISSUED:	* * * * * * * * * * * * * * * * * * * *
82-0003-51	946666P		ł	6, 1997	
7. CONSTRUCTION 8. PERMIT CONDITION PERMIT CONDITION NUMBER	.9. NATURE OF APPROVED (DELETION/ REVISION)	10. REASON FOR APPROVED DELETION/ REVISION	11. NEW LI	MITATION OR S	TANDARD FOR
The source owner or operator shall maintain record identification, capacity, and an estimate of projecte throughput for uncontrolled tanks 70-06 and 70-07 time as the Technical Secretary issues a major sta source operating permit for this source pursuant to paragraph 1200-3-902(11) that includes some other compliance demonstration method to meet the more and related recordkeeping and reporting requirement subpart 1200-3-902(11)(e)1.(iii).	ed 7 until such ationary o ther unitoring	Tank identification, capacity, and throughput are no longer required for compliance demonstration.			
Fugitive VOCs emitted from pumps, valves, etc as with this source (Vent A) shall not exceed 0.86 ton		Change to Work Practice Standard.	Annual leak inspect (Fugitive VOC emis etc. are estimated a	sions from pump	
Footnotes: 1 Refer to Quarterly / Annual Leak	k Inspection Guidance in	the Table Notes.			·
1. PAGE NUMBER:	REVISION NUMBER:	NA	DAT	E OF REVISION	•

MSOP-21

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

APC V.30b

1. FACILITY NA	AME:			2. EMISSION SOU	JRCE NUME	ER:	: 1
Tennessee (Operations, Eastman Chemical Company			B-244-1			
3. DESCRIBE TH	HE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/IN	CINERAT	OR:	<u> </u>			
Diketene Re	efining and Acetic Anhydride Recovery						
4. EMISSION SO	DURCE REFERENCE NUMBER:	5.	PERMI	T NUMBER:	6.	DATE PERMIT	ISSUED:
82-1003-08			94804	OP .		October 16,	1997
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NAT OF APP (DELET REVISI	ROVED ION/	10. REASON FOR APPROVED DELETION/ REVISION	11. FOR THI	NEW LIMITATI S SOURCE	ON OR STANDARD
3	The production rate of Refined Diketene, including off-specification production, shall not exceed the number stated in APC-21 & 24 dated June 18, 1997, that accompanied the Request for Protection Order for Confidential Information dated May 22, 1997, and signed by B. M. Mitchell, until such time as the Technical Secretary issues a major Stationary Source Operating Permit for this source pursuant to paragraph 1200-3-902(11) that includes some other compliance demonstration methods to meet the monitoring and related recordkeeping and reporting requirements of subpart 1200-3-902(11)(e)1.(iii). For as long as condition 2 exists, a record of the production rate of refined Diketene, including off specification production, in a form that readily shows compliance with condition 2, must be		tion	Production rate is used as part of the compliance demonstration plan for Vent A. Production rate is used as part of the compliance demonstration plan	N/A		
4	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. The source owner or operator shall maintain records	Dele	tion	for Vent A. Records of tank	N/A		
	of tank identification, capacity, and an estimate of projected throughput for uncontrolled tanks 12, DD-154, DD-155, 11, 3, 6, 23, 24, 25, 15, 35, and DD-160 until such time as the Technical Secretary issues a major Stationary Source Operating Permit for this source pursuant to paragraph 1200-3-902(11) that includes some other compliance demonstration methods to meet the monitoring and related recordkeeping and reporting requirements of subpart 1200-3-902(11)(e)1.(iii).			identification, capacity, and an estimate of projected throughput no longer needed for compliance demonstration.			

Expiration date: December 1, 2001 Permit number 953862P EMISSION SOURCE NUMBER: FACILITY NAME: B-244-1 Tennessee Operations, Eastman Chemical Company DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: 3. Diketene Refining and Acetic Anhydride Recovery Change to work Quarterly Leak Inspection Revision Fugitive VOCs emitted from pumps, valves, etc. Repair (1) associated with this source (Vent G) shall not practice standard. (Fugitive VOCs from pumps, exceed 10.25 ton/yr. valves, flanges, etc. estimated at 10.25 ton/yr) VOCs emitted from this source Revision Change to work VOCs emitted from this source shall not exceed 24.19 practice standard (excluding fugitive equipment ton/yr. leaks from pumps, valves, flanges, etc.) shall not exceed for fugitive emissions. 13.94 ton/yr. Refer to Quarterly / Annual Leak Inspection Guidance in the Table Notes. Footnotes: DATE OF REVISION: REVISION NUMBER: 11. PAGE NUMBER:

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

APC V.30b

1. FACILITY N	JAME:	_:		2. EMISSION SOU	IRCE NUME	EP.	
	Operations, Eastman Chemical Company			B-244-2	Med Holle		
				D-244-2	·		
	THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/IN	CINERAT	OR:				
Manufact	cure of Acetoacetic Esters						•
4. EMISSION S	SOURCE REFERENCE NUMBER:	5.	PERMI	T NUMBER:	6.	DATE PERMIT	ISSUED:
82-1003-09			94737	5P		July 25, 199	7
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NA OF API (DELE REVIS	PROVED	10. REASON FOR APPROVED DELETION/ REVISION		LIMITATION (S SOURCE	R STANDARD
2	The production rate of Acetoacetic Esters, including off-specification production, shall not exceed CBI pounds per day until such time as the Technical Secretary issues a major Stationary Source Operating Permit for this source pursuant to paragraph 1200-3-902(11) that includes some other compliance demonstration methods to meet the monitoring and related recordkeeping and reporting requirements of subpart 1200-3-902(11)(e)1.(iii).	Dele	etion	Production rate is not needed for compliance demonstration.	N/A		
3	For as long as condition 2 exists, a record of the production rate of Acetoacetic Esters, 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.	Dele	tion	Production rate is not needed for compliance demonstration.	N/A		
4	The source owner or operator shall maintain records of tank identification, capacity, and an estimate of projected throughput for uncontrolled tanks 34, DD-156/DD-157, TK 33 CAT POT, and 4 until such time as the Technical Secretary issues a major Stationary Source Operating Permit for this source pursuant to paragraph 1200-3-902(11) that includes some other compliance demonstration methods to meet the monitoring and related recordkeeping and reporting requirements of subpart 1200-3-902(11)(e)1.(iii).		tion	Records of tank identification, capacity, and an estimate of projected throughput for uncontrolled tanks no longer needed for compliance demonstration.	N/A		
5	Volatile Organic Compounds (VOCs) emitted from Vents A, B, F, I, and J shall not exceed 0.53 pounds per hour (lb/hr).	Revi	sion	Added new vent N from existing emissions.	emitted and N	from Vents A	pounds (VOCs) B, F, I, J, exceed 0.53 hr).

								i ·
ermit number 953862P					Expiration da	ate: Dece	mber 1, 2001	i
1. FACILITY NA					2. EMISSION SOU	RCE NUME	ER:	i L
	perations, Eastman Chemical Company				B-244-2			
3. DESCRIBE TH	IE PROCESS EMISSION SOURCE/FUEL BURNING	INSTALLATION/IN	CINERA	TOR:				Hr-
Manufactu	are of Acetoacetic Esters				* .			<u> </u>
7	Fugitive VOCs emitted from equipment valves, connectors, etc) associated w (Vent K) shall not exceed 1.42 tons p (ton/yr).	ith this source	Rev	ision	Change to work practice standard.	(1) (Fugiti	ve VOCs	
Footnotes: 1	Refer to Quarterly / Annual Leak 1	Inspection Guidan	ce in	the Tabl	e Notes.			
11. PAGE NUMBER:		REVISION NU	MBER:	NA		DA'	TE OF REVISIO	N:
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TENNESSEE DIVISION OF AIR POLLUTION CONTROL 9TH FLOOR, L&C ANNEX 401 CHURCH STREET NASHVILLE, TN 37243-1531

•						
1. FACILI	ITY NAME:			2. EMISSION SOU	JRCE NUMBER:	
Tennes	ssee Operations, Eastman Chemical Company			B-244-2		
3. DESCRI	IBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/IN	CINERAT	DR:			
(Manu	ufacture of Acetoacetic Esters					
4. EMISSI	ION SOURCE REFERENCE NUMBER:	5.	PERMI'	T NUMBER:	6. DATE PERMIT I	SSUED:
82-100	03-09		947375	5P	July 25, 1997	
7. CONSTRUCT PERMIT CONDIT NUMBER		9. NAT OF APP (DELET REVISI	ROVED ION/	10. REASON FOR APPROVED DELETION/ REVISION	11. NEW LIMITATION OF	R STANDARD
8	VOCs emitted from this source shall not emceed 14.49 ton/yr	Revi	sion	Change to work practice standard for fugitive emissions.	VOCs emitted from (excluding fugitive leaks from pump flanges, etc.) shall 13.07 ton/yr.	e equipment os, valves,
11	Fugitive acetone emitted from equipment leaks (pumps, valves, connectors, etc.) associated with this source (Vent K) shall not exceed 0.89 ton/yr.	Revi	sion	Change to work practice standard.	Annual Leak Inspecti (1) (Fugitive acetone e pumps, valves, flancestimated at 0.89 to	missions from ges, etc. are
12	Acetone emitted from this source shall not exceed 6.54 ton/yr.	Revi	sion	Change to work practice standard for fugitive emissions.	Acetone emitted from (excluding fugitive leaks from pump	n this source e equipment
Footnotes:	1 Refer to Quarterly / Annual Leak Inspection Guidar	nce in t	ne Tabl	e Notes.		· · · · · · · · · · · · · · · · · · ·
11. PAGE NUMBE	ER: REVISION NU	UMBER:	NA		DATE OF REVISION	:
 						

TENNESSEE DIVISION OF AIR POLLUTION CONTROL 9TH FLOOR, L&C ANNEX 401 CHURCH STREET

NASHVILLE, TN 37243-1531

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		<u> </u>				·	
L. FACILITY N	AME:		2. EMISSION	SOURCE	NUMBER:		
Tennessee	Operations, Eastman Chemical Company		B-244D-1	:			
. DESCRIBE T	HE PROCESS EMISSION SOURCE/FUEL BURNING INSTAL	ATTON/INCINERAT	COR:				
Crude Me	thanol and Amine Refining						
. EMISSION S	OURCE REFERENCE NUMBER:	5. PERMIT	NUMBER:	6.	DATE PERMIT	ISSUED:	
82-0003-70		948625	₽		February 12	, 1998	
. CONSTRUCTION	8. PERMIT CONDITION	9. NATURE OF	10. REASON FOR	11.	NEW LIMITAT	ION OR STANDA	RD FOR THIS
PERMIT CONDITION		APPROVED	APPROVED	SOURCE			
NUMBER		(DELETION/	DELETION/				
		REVISION)	REVISION				
2	The production rate of refined amine or	Deletion	Production	N/A	•		
	methanol, including off-specification	·	rate is			i '	*
	production, shall not exceed the number		included in				,
	stated in APC-21 & 24 dated August 22, 1997,		the compliance	·			
	that accompanied the Request for Protection		demonstration				
-	Order for Confidential Information dated		plan for Tanks				
	August 18, 1997 and signed by B. M.		209, 210, and				
	Mitchell, until such time as the Technical		103.				
	Secretary issues a major source operating				•		
	permit for this source pursuant to paragraph					1	
	1200-3-902 (11) (e) 1.(iii).						
3	For as long as condition 2 exists, a record	Deletion	Production	N/A			
	of the production rate of refined amine or		rate is				
	methanol, including off-specification	.	included in				
	production, in a form that readily shows		the compliance				
	compliance with condition 2, must be		demonstration			1. "	
	maintained at the source location and kept		plan for Tanks				
•	available for inspection by the Technical		209, 210, and				
	Secretary or his representative. This		103.				
	record must be retained for a period of not						
	less than five years.						
4	The source owner or operator shall maintain	Deletion	A compliance	N/A		· ·	
•	records of tank identification, capacity,		demonstration	·			
	and an estimate of projected throughput for		plan exists				
	uncontrolled tanks 209, 210, and 103 until		for Tanks 209,				1
	such time as the Technical Secretary issues		210, and 103.				1
•	a major Stationary Source Operating Permit						
	for this source pursuant to paragraph 1200-			ļ.			•
·	3-902(11) that includes some other]		-			i
1	compliance demonstration methods to meet the						1
	monitoring and related recordkeeping and						
	reporting requirements of subpart 1200-3-9-			,			
	reporting requirements or subpart 1200-3-9-	1	'	,			1.

Expiration date: December 1, 2001 Permit number 953862P EMISSION SOURCE NUMBER: FACILITY NAME: B-244D-1 Tennessee Operations, Eastman Chemical Company DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: 3. Crude Methanol and Amine Refining Fugitive VOCs emitted from pumps, valves, Revision Change to Work Annual Leak Inspection and Repair (1) etc. associated with this source shall not Practice (Fugitive VOC emissions from pumps, valves, flanges, etc. are estimated at 1.67 ton/yr.) Standard exceed 1.67 ton/yr. Annual Leak Inspection and Repair (1) Fugitive acetone emitted from pumps, valves, Revision Change to Work (Fugitive acetone emissions from pumps, valves, flanges, etc. are estimated at 0.11 Practice etc. associated with this source shall not Standard exceed 0.11 ton/yr. Refer to Quarterly / Annual Leak Inspection Guidance in the Table Notes. Footnotes: REVISION NUMBER: NA DATE OF REVISION: 11. PAGE NUMBER:

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

Expiration date: December 1, 2001

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1.	FACILITY N	IAME:		2. EMISSION	SOURCE NUMBER:		
	Tennessee	Operations, Eastman Chemical Company		B-244D-2			
	DESCRIBE T	THE PROCESS EMISSION SOURCE/FUEL BURNING INSTA	LLATION/INCINER	ATOR:			
	Manufactur	re of Acetoacetamides or Acrylic Esters			•		
	EMISSION S	SOURCE REFERENCE NUMBER:	5. PERMIT	NUMBER:	6. DATE PERMIT	ISSUED:	
	82-1006-03		948121E		October 24,		
	STRUCTION CONDITION	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/ REVISION)	10. REASON FOR APPROVED DELETION/ REVISION	SOURCE	ION OR STANDA	RD FOR THIS
	2	The production of acetoacetamides or acrylic esters, including off specification production, shall not exceed the number stated in APC-21 & 24 dated June 19, 1997, that accompanied the Request for Protection Order for Confidential Information dated June 19, 1997, and signed by B. M. Mitchell, until such time as the Technical Secretary issues a major source operating permit for this source pursuant to paragraph 1200-3-902(11) that includes some other compliance demonstration method to meet the monitoring and related recordkeeping and reporting requirements of subpart 1200-3-902(11)(e)1.(iii).	Deletion	Process production rate is used as part of the compliance demonstration plan for this source.	N/A		
	3	For as long as condition 2 exists, a record of the production rate of acetoacetamides or acrylic esters, 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 five years.	Deletion Revision	Process production rate is used as part of the compliance demonstration plan for this source. Change to work	N/A Annual Leak Inspect	ion and Repa	ir (1)
	6	VOCs emitted from pumps, valves, etc. associated with this source (Vent E), and exiting building through exhaust fans, windows, doors, etc., shall not exceed 3.53 ton/yr.	Kevision	practice standard.	(Fugitive VOCs from etc. are estimated	n pumps, valv	es, flanges,

Expiration date: December 1, 2001 Permit number 953862P EMISSION SOURCE NUMBER: FACILITY NAME: B-244D-2 Tennessee Operations, Eastman Chemical Company DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: 3. Manufacture of Acetoacetamides or Acrylic Esters VOCs emitted from this source (excluding VOCs emitted from this source shall not Revision Change to work fugitive equipment leaks from pumps, valves, practice exceed 3.74 ton/yr. flanges, etc.) shall not exceed 0.21 ton/yr. standard for fugitive emissions. Annual Leak Inspection and Repair (1) Change to work Revision Acetone emitted from pumps, valves, etc. (Fugitive acetone emissions from pumps, associated with this source (Vent E), and bractice valves, flanges, etc. are estimated at 0.02 standard. exiting building through exhaust fans, ton/vr) windows, doors, etc., shall not exceed 0.02 ton/yr. Acetone emitted from this source (excluding Change to work Acetone emitted from this source shall not Revision 10 fugitive equipment leaks from pumps, valves, practice exceed 2.38 ton/yr. flanges, etc.) shall not exceed 2.36 ton/yr. standard for fugitive emissions. Refer to Quarterly / Annual Leak Inspection Guidance in the Table Notes. Footnotes:

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Permit number 953862P

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

Expiration date: December 1, 2001

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1.	FACILITY N	IAME:		2. EMISSION	SOURCE N	UMBER:		
	Tennessee	Operations, Eastman Chemical Company		B-244E-1		•		:
3.		THE PROCESS EMISSION SOURCE/FUEL BURNING IN	STALLATION/INCINER	ATOR:				
٥.			TOTTI DELL'IL TOTTI DELL'INTE					1
,	Ace	toacetarylide Manufacture			16.			
4.	EMISSION SOURCE REFERENCE NUMBER: 82-0003-23		5. PERMIT NUM	PERMIT NUMBER:		DATE PERMIT	ISSUED:	
			949838P			July 31, 1998		:
7. CONS	TRUCTION	8. PERMIT CONDITION	9. NATURE OF	10. REASON FOR	11.	NEW LIMITATI	ON OR STANDA	RD FOR THIS
PERMIT	CONDITION	·	APPROVED	APPROVED	SOURCE			*
NUMBER			(DELETION/	DELETION/	l			
			REVISION)	REVISION				
	2	The production rate of	Deletion	Production rate	N/A		•	
		acetoacetarylides, including off-		is part of the			•	
		specification production, shall not		compliance				
		exceed the number stated in APC 21 & 24		demonstration				
		dated April 1, 1998, that accompanied		plan for this				
		the Request for Protection Order for	f	source.	į			
		Confidential Information dated March			1 .			
		30, 1998, and signed by R. C. Lindsay,	ļ					
		until such time as the Technical						
		Secretary issues a major source		!				
		operating permit for this source						1
		pursuant to paragraph 1200-3-902(11)			·			
		that includes some other compliance		 				
		demonstration method to meet the			ŀ			
		monitoring and related recordkeeping			[•		
		and reporting requirements of Subpart						
		1200-3-902(11)(e)1.(iii).			1			
	3	For as long as condition 2 exists, a	Deletion	Production rate	N/A			
	_	record of the production rate of	[is part of the	1			
		acetoacetarylides, including off-		compliance	1			
		specification production, in a form		demonstration	1.			
		that readily shows compliance with		plan for this		¥		
		condition 2, must be maintained at the		source.	1			
		source location and kept available for			1	+		-
		inspection by the Technical Secretary	:		1			
		or his representative. This record	1					
		must be retained for a period of not	1		1	*		
		less than five years.						
		1 2000 onder 1270 years.	I		<u> </u>			

Expiration date: December 1, 2001 Permit number 953862P EMISSION SOURCE NUMBER: FACILITY NAME: Tennessee Operations, Eastman Chemical Company B-244E-1 DESCRIBE THE PROCESS EMISSION SOURCE/FUEL BURNING INSTALLATION/INCINERATOR: Acetoacetarylide Manufacture N/A Deletion Tank The source owner or operator shall identification maintain records of tank and capacity identification, capacity, and an are no longer estimate of projected throughput for required. uncontrolled tanks 235, 90-68, 274, and Compliance 275 until such time as the Technical Secretary issues a major stationary demonstration using source operating permit for this source recordkeeping pursuant to paragraph 1200-3-9-.02(11) that includes some other compliance of tank emissions will demonstration method to meet the serve to monitoring and related recordkeeping and reporting requirements of subpart demonstrate 1200-3-9-.02 (11) (e) 1. (iii). compliance with emission limitations. Refer to Quarterly / Annual Leak Inspection Guidance in the Table Notes. Footnotes: DATE OF REVISION: REVISION NUMBER: NA 11. PAGE NUMBER:

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

			TIO THE TOTAL ON	SOURCE NUMBER:	
. FACILITY N			117.		
Tennessee	Operations, Eastman Chemical Company	B-244E-1			
. DESCRIBE	THE PROCESS EMISSION SOURCE/FUEL BURNING IN	NSTALLATION/INCINER	ATOR:		• •
Ace	etoacetarylide Manufacture				
. EMISSION S	SOURCE REFERENCE NUMBER:	5. PERMIT NUMBER: 949838P		6. DATE PERMIT ISSUED:	
82-0003-23	3			July 31, 1998	
7. CONSTRUCTION PERMIT CONDITION NUMBER	8. PERMIT CONDITION	9. NATURE OF APPROVED (DELETION/ REVISION)	10. REASON FOR APPROVED DELETION/REVISION	11. NEW LIMITATION OR STANDARI SOURCE	
10	Fugitive acetone emitted from pumps, valves, etc. associated with this source shall not exceed 1.08 ton/yr.	Revision	Change to work practice standard.	Annual Leak Inspection and Repair (Fugitive acetone emissions from valves, flanges, etc. are estimat ton/yr)	pumps, ed at 1.08
11	Fugitive VOCs emitted from pumps, valves, etc. associated with this source shall not exceed 0.88 ton/yr.	Revision	Change to work practice standard.	Annual Leak Inspection and Repair (Fugitive VOC emissions from pump flanges, etc. are estimated at 0.	s, valves, 88 ton/yr.
12	VOCs emitted from this source shall not exceed 1.08 ton/yr.	Revision	Change to work practice standard for fugitive emissions.	VOCs emitted from this source (exfugitive equipment leaks from pum flanges, etc.) shall not exceed 0	ps, valves,
13	Acetone emitted from this source shall not exceed 13.22 ton/yr.	Revision	Change to work practice standard for fugitive emissions.	Acetone emitted from this source fugitive equipment leaks from pum flanges, etc.) shall not exceed 1 ton/yr.	ps, valves,
Cootnotes: 1	Refer to Quarterly / Annual Leak Inst	pection Guidance in	the Table Notes.		
1. PAGE NUMBER:		REVISION NUMBER:	1 172	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 the maximum true vapor pressure of the pure air contaminant components is equal to or less than 0.044 psia at 68 degrees F. "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 or exempted from 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.
- 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.

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 the maximum true vapor pressure of the pure air contaminant components is equal to or less than 0.044 psia at 68 degrees F. "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 or exempted from 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.
- (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 annual 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.