



Port Arthur Ethane Cracker

July 16, 2019

Delivery via FedEx
Texas Commission on Environmental Quality
Air Permits Initial Review Team (APIRT), MC 161
12100 Park 35 Circle, Building C, Third Floor, Austin, Texas 78753
Phone: (512) 239-1250

Re: Federal Operating Permit (FOP) Initial Submittal
Bayport Polymers LLC (Baystar) – Port Arthur Ethane Cracker
Customer Reference Number: CN605458397
Regulated Entity Number: RN109845768

Dear Sir/Madame:

Bayport Polymers LCC (Baystar) is submitting the attached initial Title V permit application for FOP as required under 30 TAC § 122.132. The attached application contains all information required under 30 TAC §122.134 and is covered under the application provisions contained in 30 TAC §122.138 for an initial Title V application.

If you should have any questions or concerns, please feel free to contact Don Clauson, Environmental Coordinator at (281) 476-3811 or Lorentine Savoy, HSSE Coordinator at (409) 985-0391.

Sincerely,

A handwritten signature in blue ink that reads "Ryan Riffer".

Ryan Riffer
Total Petrochemicals and Refining USA, Inc.
Port Arthur Refinery

Operations Manager

cc: U.S. Environmental Protection Agency, Region 6 (6PD-A), Attn: Regional Director, 1445 Ross Avenue, Suite 1200, Dallas, Texas 75202-2733
Texas Commission on Environmental Quality, Region 10, Air Section, 3870 Eastex Freeway, Beaumont, Texas 77703

ORIGIN ID: OZAA (409) 985-0623
 KAYLIN GONZALES
 7600 32ND STREET
 PORT ARTHUR, TX 77642
 UNITED STATES US

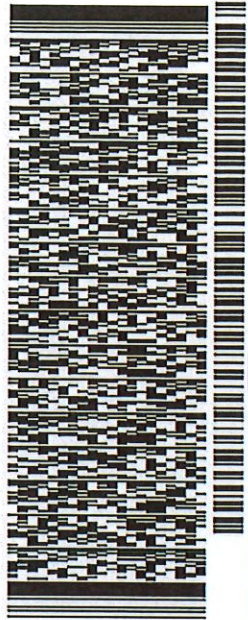
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TO **APIRT, MC 161**
TECQ
 12100 PARK 35 CIRCLE
 BUILDING C, THIRD FLOOR
 AUSTIN TX 78753

REF: LSA/OV#5555732
 NV: (512) 239-6696
 PO: DEPT

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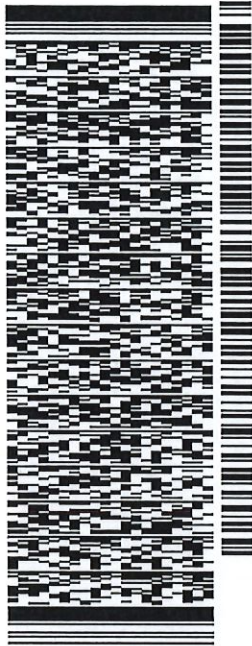
CE# 5555-732

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7600 32ND STREET
PORT ARTHUR, TX 77642
UNITED STATES US

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CAD: 114329365/NET4:160
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TO AIR PERMITS DIVISION, MC-163
TECQ
12100 PARK 35 CIRCLE

AUSTIN TX 78753
(512) 239-6696 REF: LSAVOY#555732
INV: DEPT:
PO:



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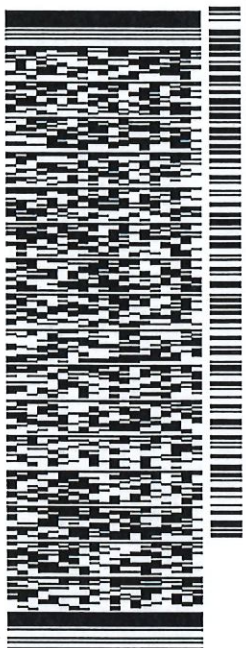
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7600 32ND STREET
PORT ARTHUR, TX 77642
UNITED STATES US

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BILL SENDER

TO AIR SECTION
TECQ REGION 10
3870 EASTEX FREEWAY

BEAUMONT TX 77703
(409) 898-3838 REF: LSAVOY#5555732
INV: DEPT:
PO:

567.J2/A6F9/C05A2

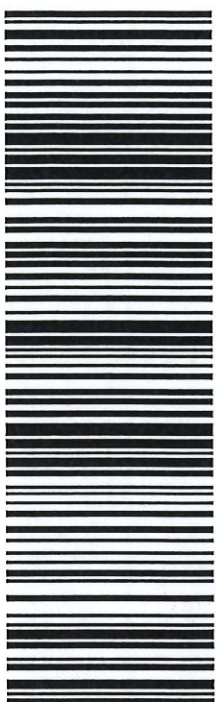


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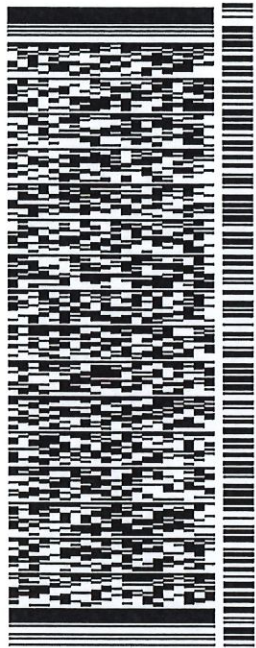
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KAYLIN GONZALES
7600 32ND STREET
PORT ARTHUR, TX 77642
UNITED STATES US

SHIP DATE: 22 JUL 19
ACTWGT: 0.20 LB
CAD: 114329365/NET14160
BILL SENDER

TO REGIONAL DIRECTOR
EPA REGION 6
1445 ROSS AVENUE, SUIT 1200

DALLAS TX 75202
INV: (800) 887-6063
REF:LSA/0/REF:#555732
DEPT:



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TRK# 7758 0297 3208
0207

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AD KIPA
TX-US 75202
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Form OP-CRO1
Certification by Responsible Official
Federal Operating Permit Program

All initial permit application, revision, renewal, and reopening submittals requiring certification must be addressed using this form. Updates to site operating permit (SOP) and temporary operating permit (TOP) applications, other than public notice verification materials, must be certified prior to authorization of public notice or start of public announcement. Updates to general operating permit (GOP) applications must be certified prior to receiving an authorization to operate under a GOP.

I. Identifying Information		
RN: RN109845768	CN: CN605458397	Account No.: TBD
Permit No.: TBD	Project No.: TBD	
Area Name: Ethane Cracker	Company Name: Bayport Polymers LLC	
II. Certification Type <i>(Please mark the appropriate box)</i>		
<input type="checkbox"/> Responsible Official	<input checked="" type="checkbox"/> Duly Authorized Representative	
III. Submittal Type <i>(Please mark the appropriate box) (Only one response can be accepted per form)</i>		
<input checked="" type="checkbox"/> SOP/TOP Initial Permit Application	<input type="checkbox"/> Update to Permit Application	
<input type="checkbox"/> GOP Initial Permit Application	<input type="checkbox"/> Permit Revision, Renewal, or Reopening	
<input type="checkbox"/> Other: _____		
IV. Certification of Truth		
This certification does not extend to information which is designated by the TCEQ as information for reference only.		
I, <u>Ryan Riffer</u> certify that I am the <u>DAR</u>		
<i>(Certifier Name printed or typed)</i> <i>(RO or DAR)</i>		
and that, based on information and belief formed after reasonable inquiry, the statements and information dated during the time period or on the specific date(s) below, are true, accurate, and complete:		
<i>Note: Enter Either a Time Period OR Specific Date(s) for each certification. This section must be completed. The certification is not valid without documentation date(s).</i>		
Time Period: From _____ to _____		
<i>Start Date</i> <i>End Date</i>		
Specific Dates: <u>07/16/2019</u>		
<i>Date 1</i>	<i>Date 2</i>	<i>Date 3</i>
<i>Date 4</i>	<i>Date 5</i>	<i>Date 6</i>
Signature: <u></u> Signature Date: <u>07/16/2019</u>		
Title: <u>Operations Manager</u>		



Title V Initial Application

Bayport Polymers, LLC (Baystar)

Ethane Cracker

Jefferson County, Texas

RN109845768

CN605458397

July 2019

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SECTION 1 INTRODUCTION

Bayport Polymers, LLC (Baystar) is submitting an initial application for a Federal Operating Permit (FOP) for a new site, the Ethane Cracker, pursuant to Title 30 Texas Administrative Code (30 TAC) §122.201. TOTAL is submitting this timely and complete initial application under 30 TAC §122.132, 30 TAC §122.133, and 30 TAC §122.134. A full initial application is being submitted rather than an abbreviated application as specified in 30 TAC §122.130(b)

1.1 Facility Information

Baystar will construct and operate a new ethane cracking plant located in Port Arthur, Jefferson County, Texas. The project is located at 7600 32nd St, Port Arthur, TX in Jefferson County. The facility operations are authorized under Permit Numbers 122353 and PSDTX1426, as well as GHGPSDTX114. Figure 1-1 is an area map showing the facility location relative to nearby topographic features. This map is based on a United States Geological Survey (USGS) quadrangle map, and indicates the property boundary, nearest school, a 3,000-foot radius, and a 1-mile radius from the facility. As indicated by the area map, no schools are located within 3,000 feet of the facility location.

1.2 Purpose of Application

As stipulated in 30 TAC §122.201, BAYSTAR is submitting this timely and complete initial Title V application under 30 TAC §122.132, 30 TAC §122.133, and 30 TAC §122.134. The full application is being submitted prior to operating the change and the new emission units, as stipulated in 30 TAC §122.130.

The new facility operations are authorized under Permit Numbers 122353 and PSDTX1426, as well as GHGPSDTX114. This Title V initial application covers emission units from the new site represented in the NSR permit, as well as various Permits By Rule (PBRs). All current authorization mechanisms are listed on OP-REQ1.

Additionally, the ground flare, XF-6401, has an Alternate Method of Control (AMOC) that has been attached for incorporation. The AMOC encompasses the state rules and the federal applicability the state rules reference, as indicated in the attached AMOC. The AMOC has been assigned AMOC no. 113 and has been included in Section 7 of the application.

1.3 Background

The new site will be potentially subject to the following rules and regulations. Applicability has been addressed in the initial application submittal.

- 30 TAC Subchapter 111
- 30 TAC Subchapter 115
- 40 CFR 60, Subpart A
- 40 CFR 60, Subpart Kb
- 40 CFR 60, Subpart VVa
- 40 CFR 60, Subpart IIII
- 40 CFR 61, Subpart FF
- 40 CFR 63, Subpart A
- 40 CFR 63, Subpart YY and associated subparts
- 40 CFR 63, Subpart ZZZZ

1.4 Application Contents

This initial Title V application is being submitted prior to operating the change and the new emission units, as stipulated in 30 TAC §122.130. Key components of a timely and complete renewal are included in this document as follows:

- A process description is included in Section 2.
- General and administrative information is included in Section 3.
- Unit attribute forms are contained in Section 4.
- Applicability identification forms are contained in Section 5.
- Compliance status is documented in Section 6.
- The Alternate Method of Control (AMOC) is contained in Section 7.

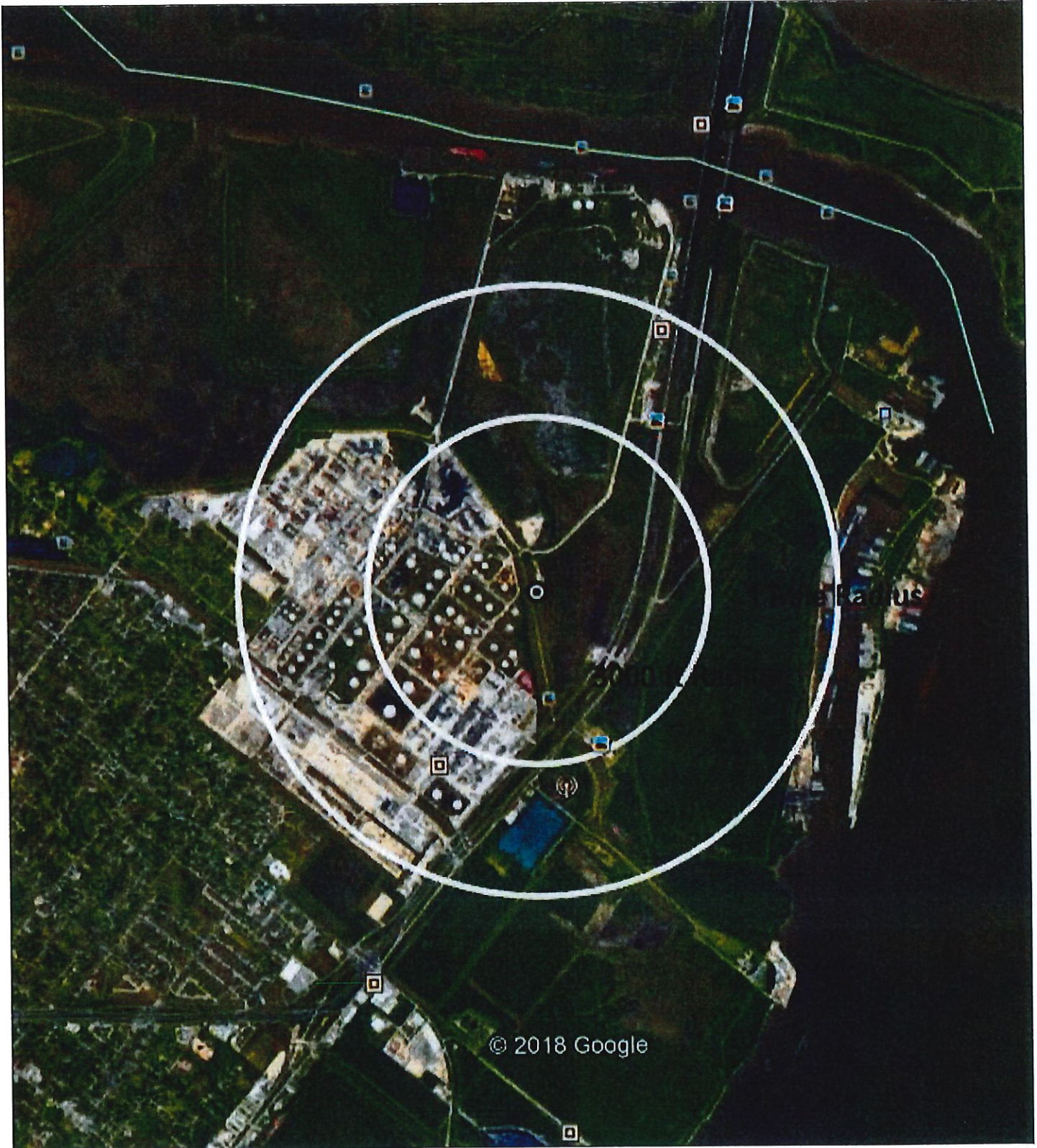


Figure 1-1 Area Map

SECTION 2 PROCESS DESCRIPTION

Baystar is constructing a new ethane cracking plant. The facility will process ethane to produce ethylene. Ethane will be received via pipeline, purified, and then fed to one of seven ethane cracking furnaces (H-1101 through H-1107) which will convert the ethane stream into ethylene and other by-products. Once passing through the furnaces, the cracked gas is cooled and sent to the quench tower, distillation, and purification process. Unreacted ethane is separated and recycled back to the process feed. The pyrolysis of hydrocarbons forms coke in the cracking heater tubes that must be periodically removed by steam/air decoking.

The new project will contain typical process equipment including fired heaters, vessels, drums, exchangers, rotating equipment, pipe and piping components, process control instrumentation, analyzers, and chemical injection facilities. Figure 2-1 shows the basic process flow of the proposed project. Specifically, a new Cooling Tower, a new Ground Flare, and a Thermal Oxidizer will be constructed. Existing utilities from the neighboring Refinery including firewater, industrial water, domestic water, boiler feedwater, plant air, hydrogen, electricity, and steam may be utilized. Wastewater generated at the new ethane cracking plant will be sent offsite to a neighboring facility for treatment.

Figure 2-1. Simplified Process Flow Diagram

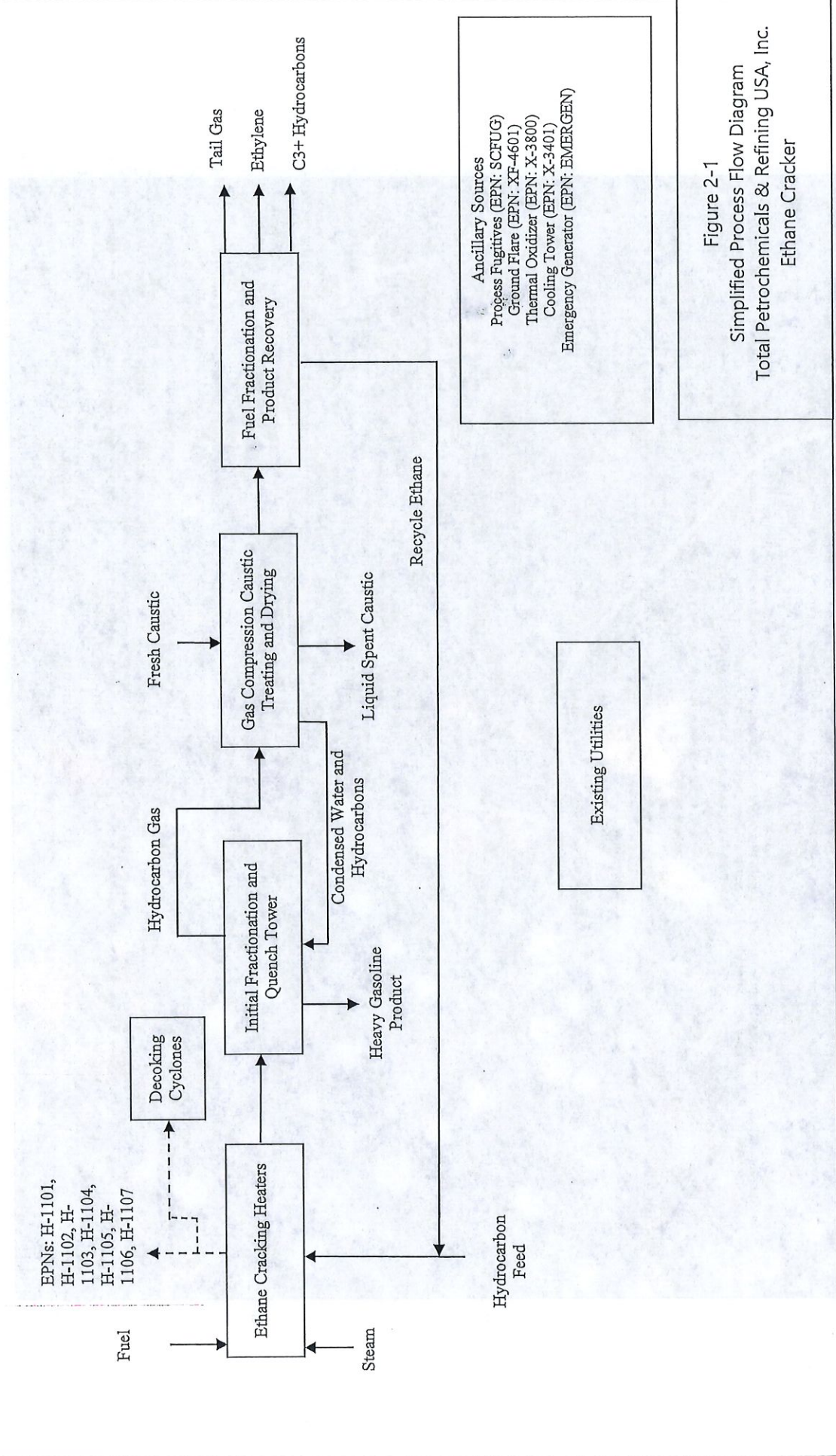


Figure 2-1
Simplified Process Flow Diagram
Total Petrochemicals & Refining USA, Inc.
Ethane Cracker

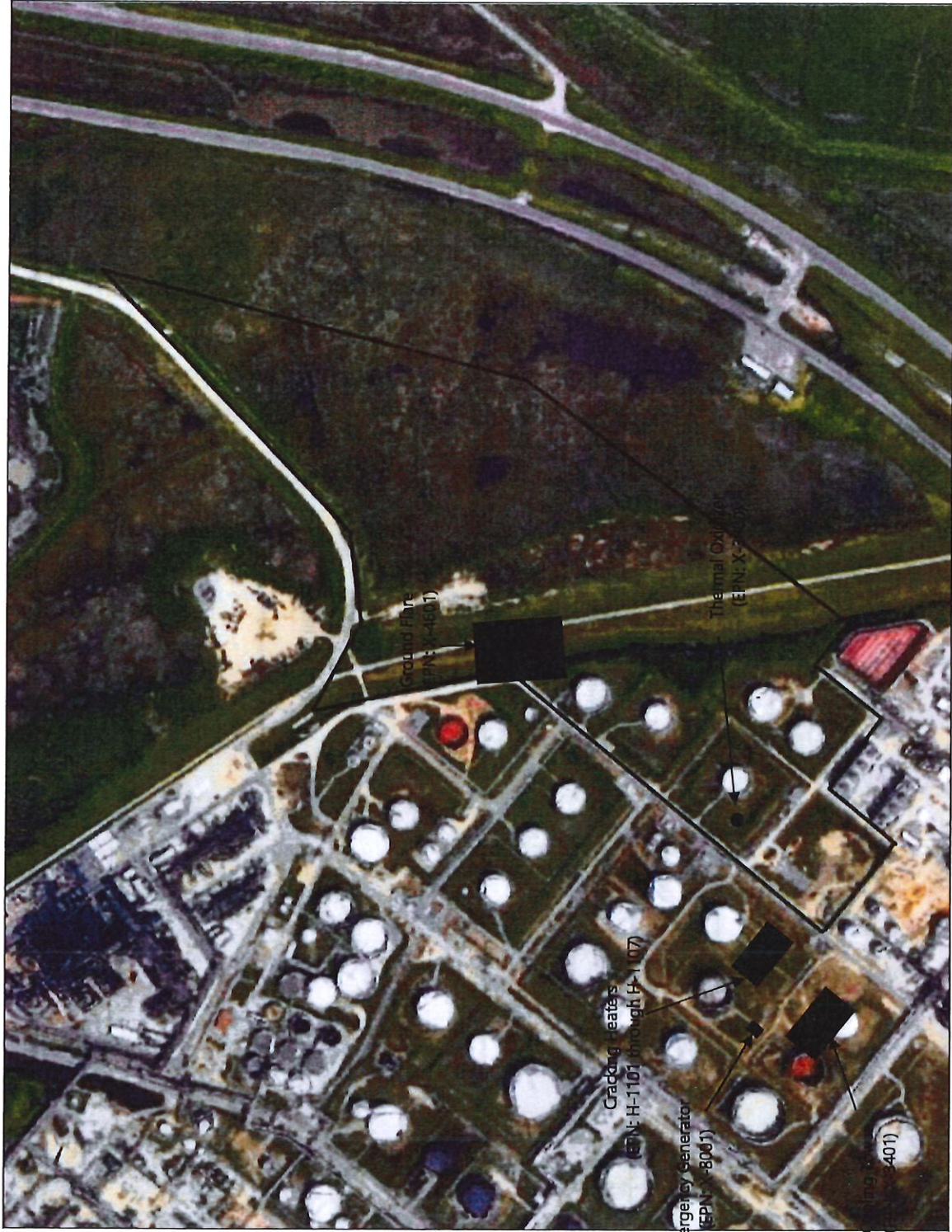


Figure 2-2 Plot Plan

SECTION 3

GENERAL ADMINISTRATIVE FORMS

This section contains the following forms:

- OP-1, Site Information Summary
- OP-SUM, Individual Unit Summary
- Major NSR Summary Tables

**Texas Commission on Environmental Quality
Federal Operating Permit Program
Site Information Summary
Form OP-1 (Page 1)**

Please print or type all information. Direct any questions regarding this application form to the Air Permits Division at (512) 239-1250. Address written inquiries to the Texas Commission on Environmental Quality, Office of Air, Air Permits Division (MC 163), P.O. Box 13087, Austin, Texas 78711-3087.

I. Company Identifying Information								
A. Company Name: Bayport Polymers, LLC								
B. Customer Reference Number (CN): CN605458397								
C. Submittal Date (mm/dd/yyyy): 07/16/2019								
II. Site Information								
A. Site Name: Ethane Cracker								
B. Regulated Entity Reference Number (RN): RN109845768								
C. Primary Account Number for Site: To be assigned								
D. Indicate affected state(s) required to review permit application: <i>(Check the appropriate box[es].)</i>								
AR <input type="checkbox"/> CO <input type="checkbox"/> KS <input type="checkbox"/> LA <input type="checkbox"/> NM <input type="checkbox"/> OK <input type="checkbox"/> N/A <input type="checkbox"/>								
E. Indicate all pollutants for which the site is a major source based on the site's potential to emit:								
Pollutant	VOC	NO_x	SO₂	PM₁₀	CO	Pb	HAPS	Other <input type="checkbox"/>
Major at the Site (YES/NO):	YES	YES	YES	YES	YES	NO	YES	
F. Is the site a non-major source subject to the Federal Operating Permit Program?							<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
G. Is the site within a local program area jurisdiction?							<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
H. Will emissions averaging be used to comply with any Subpart of 40 CFR Part 63?							<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
I. Indicate the 40 CFR Part 63 Subpart(s) that will use emissions averaging:								
III. Permit Type								
A. Type of Permit Requested: <i>(Select only one response)</i>								
Site Operating Permit (SOP) <input checked="" type="checkbox"/> Temporary Operating Permit (TOP) <input type="checkbox"/> General Operating Permit (GOP) <input type="checkbox"/>								
IV. Initial Application Information <i>(Complete for Initial Issuance Applications only.)</i>								
A. Is this submittal an abbreviated or a full application?							<input type="checkbox"/> Abbreviated <input checked="" type="checkbox"/> Full	
B. If this is a full application, is the submittal a follow-up to an abbreviated application?							<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
C. If this is an abbreviated application, is this an early submittal for a combined SOP and Acid Rain permit?							<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
D. Has a copy of this application been submitted (or is being submitted) to EPA? (Refer to the form instructions for additional information.)							<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	

Texas Commission on Environmental Quality
 Federal Operating Permit Program
 Site Information Summary
 Form OP-1 (Page 2)

V. Confidential Information		
A. Is confidential information submitted in conjunction with this application?		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
VI. Responsible Official (RO)		
A. RO Name: (<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/> Ms. <input type="checkbox"/> Dr.) Ryan Riffer		
B. RO Title: Operations Manager		
C. Employer Name: Total Petrochemicals & Refining USA, Inc.		
D. Mailing Address: P.O. Box 849		
City: Port Arthur	State: Texas	ZIP Code: 77641
Territory:	Country:	Foreign Postal Code:
E. Internal Mail Code: N/A		
F. Telephone No.: 409-985-0154		
G. Fax No.:		
H. Email: ryan.riffer@total.com		
VII. Technical Contact Identifying Information (Complete if different from RO.)		
A. Technical Contact Name: (<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/> Ms. <input type="checkbox"/> Dr.) Donald S. Clauson		
B. Technical Contact Title: Environmental Coordinator		
C. Employer Name: Total Petrochemicals & Refinery USA, Inc.		
D. Mailing Address: P.O. Box 888		
City: Deer Park,	State: Texas	ZIP Code: 77536
Territory:	Country:	Foreign Postal Code:
E. Internal Mail Code:		
F. Telephone No.: (281) 476-3811		
G. Fax No.:		
H. Email: Don.Clauson@total.com		

**Texas Commission on Environmental Quality
Federal Operating Permit Program
Site Information Summary
Form OP-1 (Page 3)**

VIII. Reference Only Requirements <i>(For reference only.)</i>		
A. State Senator: Senator Brandon Creighton(District 4)		
B. State Representative: Representative Joe D. Deshotel (District 22)		
C. Has the applicant paid emissions fees for the most recent agency fiscal year (Sept. 1 - August 31)?		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
D. Is the site subject to bilingual notice requirements pursuant to 30 TAC § 122.322?		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
E. Indicate the alternate language(s) in which public notice is required:	Spanish	
IX. Off-Site Permit Request <i>(Optional for applicants requesting to hold the FOP and records at an off-site location.)</i>		
A. Office/Facility Name:		
B. Physical Address:		
City:	State:	ZIP Code:
Territory:	Country:	Foreign Postal Code:
C. Physical Location: Intersection of Hwy 366 and 32ndStreet		
D. Contact Name: (<input type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/> Ms. <input type="checkbox"/> Dr.)		
E. Telephone No.:		
X. Application Area Information		
A. Area Name: Ethane Cracker		
B. Physical Address: 7600 32ndStreet		
City: Port Arthur	State: Texas	ZIP Code: 77642-7091
C. Physical Location: Intersection of Hwy 366 and 32ndStreet		
D. Nearest City: Port Arthur		
E. State: TX		
F. ZIP Code: 77462		
G. Latitude (nearest second): 29°57'47"		
H. Longitude (nearest second): 93°53'25"		
I. Are there any emission units that were not in compliance with the applicable requirements identified in the application at the time of application submittal?		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
J. Indicate the estimated number of emission units in the application area:		
K. Are there any emission units in the application area subject to the Acid Rain Program?		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

**Texas Commission on Environmental Quality
Federal Operating Permit Program
Site Information Summary
Form OP-1 (Page 4)**

XI. Public Notice <i>(Complete this section for SOP Applications and Acid Rain Permit Applications only.)</i>		
A. Name of public place to view application and draft permit: Port Arthur Public Library		
B. Physical Address: 4615 9th Avenue		
City: Port Arthur	ZIP Code: 77643	
C. Contact Person (Someone who will answer questions from the public, during the public notice period):		
(<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/> Ms. <input type="checkbox"/> Dr.): Donald S. Clauson		
D. Contact Mailing Address: P.O. Box 888		
City: Deer Park	State: TX	ZIP Code: 77536
Territory:	Country:	Foreign Postal Code:
E. Internal Mail Code:		
F. Telephone No.: (281) 476-3811		
XII. Delinquent Fees and Penalties		
<p>Notice: This form will not be processed until all delinquent fees and/or penalties owed to the TCEQ or the Office of Attorney General on behalf of the TCEQ are paid in accordance with the "Delinquent Fee and Penalty Protocol."</p> <p>Complete Sections XIII and XIV for Acid Rain Permit and CSAPR applications only. Please include a copy of the Certificate of Representation submitted to EPA.</p>		
XIII. Designated Representative (DR) Identifying Information		
A. DR Name: (<input type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/> Ms. <input type="checkbox"/> Dr.)		
B. DR Title:		
C. Employer Name:		
D. Mailing Address:		
City: Port Arthur	State:	ZIP Code:
Territory:	Country:	Foreign Postal Code:
E. Internal Mail Code:		
F. Telephone No.:		
G. Fax No.:		
H. Email:		

Texas Commission on Environmental Quality
 Federal Operating Permit Program
 Site Information Summary
 Form OP-1 (Page 5)

XIV. Alternate Designated Representative (ADR) Identifying Information		
A. ADR Name: (<input type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/> Ms. <input type="checkbox"/> Dr.)		
B. ADR Title:		
C. Employer Name:		
D. Mailing Address:		
City:	State:	ZIP Code:
Territory:	Country:	Foreign Postal Code:
E. Internal Mail Code:		
F. Telephone No.:		
G. Fax No.:		
H. Email:		



Texas Commission on Environmental Quality
 Federal Operating Permit Program
 Individual Unit Summary
 Form OP-SUM
 Table 1

Date:	7/16/2019	Account No.: TBD	RN:	RN109845768	Permit No.:	TBD
Area Name:	Ethane Cracker					

Unit/Process ID No.	Applicable Form	Unit Name/Description	CAM	Preconstruction Authorizations 30 TAC Chapter 116/30 TAC Chapter 106	Preconstruction Authorizations Title I	Group ID No.
H-1101	OP-UA1 OP-UA5 OP-UA15	Cracking Heater H-1101		122353	PSDTX1426 GHGSDTX114	GRP-FURNCAP
H-1102	OP-UA1 OP-UA5 OP-UA15	Cracking Heater H-1102		122353	PSDTX1426 GHGSDTX114	GRP-FURNCAP
H-1103	OP-UA1 OP-UA5 OP-UA15	Cracking Heater H-1103		122353	PSDTX1426 GHGSDTX114	GRP-FURNCAP
H-1104	OP-UA1 OP-UA5 OP-UA15	Cracking Heater H-1104		122353	PSDTX1426 GHGSDTX114	GRP-FURNCAP



Texas Commission on Environmental Quality
 Federal Operating Permit Program
 Individual Unit Summary
 Form OP-SUM
 Table 1

Date:	7/16/2019	Account No.:	TBD
Area Name:	Ethane Cracker		
	RN:	RN109845768	Permit No.: TBD

Unit/Process ID No.	Applicable Form	Unit Name/Description	CAM	Preconstruction Authorizations 30 TAC Chapter 116/30 TAC Chapter 106	Preconstruction Authorizations Title I	Group ID No.
H-1105	OP-UA1 OP-UA5 OP-UA15	Cracking Heater H-1105		122353	PSDTX1426 GHGPSDTX114	GRP-FURNCAP
H-1106	OP-UA1 OP-UA5 OP-UA15	Cracking Heater H-1106		122353	PSDTX1426 GHGPSDTX114	GRP-FURNCAP
H-1107	OP-UA1 OP-UA5 OP-UA15	Cracking Heater H-1107		122353	PSDTX1426 GHGPSDTX114	GRP-FURNCAP
XF-4601	OP-UA7	Ground Flare		122353	PSDTX1426 GHGPSDTX114	

TCEQ 10007 (APDG 5837v7, Revised 02/18) OP-SUM
 This form is for use by facilities subject to air quality permit requirements and may be revised periodically. (Title V Release 02/18)



Texas Commission on Environmental Quality
 Federal Operating Permit Program
 Individual Unit Summary
 Form OP-SUM
 Table 1

Date: 7/16/2019	Account No.: TBD	RN: RN109845768	Permit No.: TBD
Area Name: Ethane Cracker			

Unit/Process ID No.	Applicable Form	Unit Name/Description	CAM	Preconstruction Authorizations 30 TAC Chapter 116/30 TAC Chapter 106	Preconstruction Authorizations Title I	Group ID No.
X-3800	OP-REQ2	Thermal Oxidizer		122353	PSDTX1426 GHGPSDTX114	
XF4601VENT	OP-UA1 OP-UA15	Ground Flare Process Vents		122353		
X3800VENT	OP-UA1 OP-UA15	Thermal Oxidizer Process Vents		122353		
X-3401	OP-REQ2	Cooling Tower		122353	PSDTX1426 GHGPSDTX114	



Texas Commission on Environmental Quality
 Federal Operating Permit Program
 Individual Unit Summary
 Form OP-SUM
 Table 1

Date:	7/16/2019	Account No.:	TBD
Area Name:	Ethane Cracker		
	RN:	RN109845768	Permit No.: TBD

Unit/Process ID No.	Applicable Form	Unit Name/Description	CAM	Preconstruction Authorizations 30 TAC Chapter 116/30 TAC Chapter 106	Preconstruction Authorizations Title I	Group ID No.
SCFUG	OP-UA1 OP-UA12	Equipment Leak Fugitives		122353	PSDTX1426 GHGPSDTX114	
EMERGEN	OP-UA2	Emergency Generator		122353	PSDTX1426 GHGPSDTX114	
GENERATOR	OP-UA2	Emergency Generator		106.511/09/04/2000		
UNLOAD	OP-UA4	Site Unloading Operations		122353 106.472/09/04/2000 106.473/09/04/2000		

TCEQ 10007 (APDG 5837v7, Revised 02/18) OP-SUM
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Texas Commission on Environmental Quality
 Federal Operating Permit Program
 Individual Unit Summary
 Form OP-SUM
 Table 1

Date:	7/16/2019	Account No.: TBD	RN: RN109845768	Permit No.: TBD
Area Name:	Ethane Cracker			

Unit/Process ID No.	Applicable Form	Unit Name/Description	CAM	Preconstruction Authorizations 30 TAC Chapter 116/30 TAC Chapter 106	Preconstruction Authorizations Title I	Group ID No.
LOAD	OP-UA4	Site Loading Operations		122353 106.472/09/04/2000 106.473/09/04/2000		
PROPROCESS	OP-UA1	Process Unit		122353		
V-5652	OP-UA3	Oily Sludge Storage Tank		122353		
V-5651	OP-UA3	Wet Slop Oil/Froth Holding Vessel		122353		



Texas Commission on Environmental Quality
 Federal Operating Permit Program
 Individual Unit Summary
 Form OP-SUM
 Table 1

Date:	7/16/2019	Account No.:	TBD
Area Name:	Ethane Cracker		
	RN:	RN109845768	Permit No.:
			TBD

Unit/Process ID No.	Applicable Form	Unit Name/Description	CAM	Preconstruction Authorizations 30 TAC Chapter 116/30 TAC Chapter 106	Preconstruction Authorizations Title I	Group ID No.
T-5655	OP-UA3	Process Waste Equalization Tank		122353		
T-5660	OP-UA3	Benzene Waste Water Tank		122353		
T-1202	OP-UA3	Cracker Bottom Product Tank		122353		
V-1291	OP-UA3	DMDS Storage Drum		122353		



Texas Commission on Environmental Quality
 Federal Operating Permit Program
 Individual Unit Summary
 Form OP-SUM
 Table 1

Date:	7/16/2019	Account No.: TBD	RN:	RN109845768	Permit No.: TBD
Area Name:	Ethane Cracker				

Unit/Process ID No.	Applicable Form	Unit Name/Description	CAM	Preconstruction Authorizations 30 TAC Chapter 116/30 TAC Chapter 106	Preconstruction Authorizations Title I	Group ID No.
T-1221A	OP-UA3	Spent Caustic Storage Tank		122353		
T-1221B	OP-UA3	Spent Caustic Storage Tank		122353		
V-1290	OP-UA3	Methanol Storage Drum		122353		
T-1210	OP-UA3	Wash Oil Storage Tank		122353		



Texas Commission on Environmental Quality
 Federal Operating Permit Program
 Individual Unit Summary
 Form OP-SUM
 Table 1

Date:	7/16/2019	Account No.:	TBD
Area Name:	Ethane Cracker		
	RN:	RN109845768	Permit No.:
			TBD

Unit/Process ID No.	Applicable Form	Unit Name/Description	CAM	Preconstruction Authorizations 30 TAC Chapter 116/30 TAC Chapter 106	Preconstruction Authorizations Title I	Group ID No.
T-5672	OP-UA3	Induced Gas Flotation Tank		122353		
Z-5671	OP-UA14	CPI Separator		122353		
XT-5672	OP-UA14	IGF Separator		122353		
SMALLTK	OP-UA3	Inhibitor Tank		106.472/09/04/2000 106.473/09/04/2000		

TCEQ 10007 (APDG 5837v7, Revised 02/18) OP-SUM
 This form is for use by facilities subject to air quality permit requirements and may be revised periodically. (Title V Release 02/18)



Texas Commission on Environmental Quality

Major NSR Summary Table

Permit Number: 122353 and PSDTX1426		Issuance Date: 04/09/19						
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements Spec. Cond.	Recordkeeping Requirements Spec. Cond.	Reporting Requirements Spec. Cond.	
			lb/hr	TPY(4)				
FURNCAP (6)	Pyrolysis Furnace Block Emission Cap (H-1101 through H-1107)	NOx	28.17	123.38	5, 8, 9, 11, 12, 29	5, 8, 9, 11, 12, 29, 31	5, 9, 11, 12, 29	
		NOx (MSS) (8)	76.96					
		CO	95.47	461.71				
		VOC	5.11	24.68				
		SO2	1.96	7.00				
		SO2 (MSS) (8)	1.96					
		PM	6.44	30.84				
		PM10	6.44	30.84				
		PM2.5	6.44	30.84				
		H2SO4	0.11	0.54				
		NH3	11.61	56.14				
H-1101, H-1102, H-1103, H-1104, H-1105, H-1106, and H-1107 (7)	Pyrolysis Furnaces (H-1101 through H-1107)	NOx	6.04	--	5, 8, 9, 11, 12, 29	5, 8, 9, 11, 12, 29, 31	5, 8, 9, 11, 12, 29	
		CO	15.06	--				
		VOC	0.80	--				
		SO2	0.23	--				
		PM	1.01	--				
		PM10	1.01	--				
		PM2.5	1.01	--				
		H2SO4	0.02	--				
		NH3	1.83	--				
HDECOKE1	Decoke Cyclone 1	CO	280.00	76.23	13	13, 31		
		PM	1.91	0.98				
		PM10	1.91	0.98				
		PM2.5	1.91	0.98				
HDECOKE2	Decoke Cyclone 2	CO	280.00	76.23	13	13, 31		
		PM	1.91	0.98				
		PM10	1.91	0.98				
		PM2.5	1.91	0.98				
XF-4601	Multi-Point Ground Flare - Normal	NOx	8.29	35.86	3, 5, 14, 32	3, 5, 14, 31	3, 5, 14	
		CO	33.03	142.82				
		VOC	13.86	59.93				
	SO2	0.34	1.48					
	Multi-Point Ground Flare - MSS	NOx	919.05	58.41				
		CO	3,660.23	232.64				
VOC		2,077.69	98.16					
		SO2	0.02	0.10				



Texas Commission on Environmental Quality

Major NSR Summary Table

Permit Number: 122353 and PSDTX1426			Issuance Date: 04/09/19				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY(4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
X-3800	Thermal Oxidizer	NOx	0.69	3.03	5, 15, 29	5, 15, 31	5, 15, 29
		CO	0.44	1.91			
		VOC	0.69	0.13			
		SO2	0.02	0.11			
		PM	0.04	0.17			
		PM2.5	0.04	0.17			
X-3401	Cooling Tower	VOC	6.30	27.59	5, 17	5, 17, 31	5, 17
		PM	0.92	4.03			
		PM2.5	0.71	3.11			
SCFUG (5)	Equipment Leak Fugitives	VOC	3.92	17.17	3, 5, 18, 19	3, 5, 18, 19, 31	3, 5, 18
		NH3	0.18	0.80			
EMERGEN	Emergency Generator	NOx	1.46	0.07	5, 20	5, 20, 31	5
		CO	7.61	0.38			
		VOC	0.55	0.03			
		SO2	0.02	0.01			
		PM	0.07	0.01			
		PM2.5	0.07	0.01			
SCMSS	Planned MSS Activities	NOx	0.01	0.01	21, 22, 25, 26, 27, 28	21, 22, 25, 26, 27, 28, 31	
		CO	0.01	0.01			
		VOC	42.18	4.78			
		PM	0.09	0.04			
		PM10	0.03	0.01			

- Emission point identification - either specific equipment designation or emission point number from plot plan.
- Specific point source name. For fugitive sources, use area name or fugitive source name.
- VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 NOx - total oxides of nitrogen
 SO2 - sulfur dioxide
 PM - total particulate matter, suspended in the atmosphere, including PM10 and PM2.5, as represented
 PM10 - total particulate matter equal to or less than 10 microns in diameter, including PM2.5, as represented
 PM2.5 - particulate matter equal to or less than 2.5 microns in diameter
 CO - carbon monoxide
 NH3 - ammonia
 H2SO4 - sulfuric acid
- Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- The EPN FURNCAP is a short-term and annual cap of emissions from all furnaces, EPNs H-1101, H-1102, H-1103, H-1104, H-1105, H-1106 and H-1107.
- These are the short-term emission rates of each furnace, EPNs H-1101, H-1102, H-1103, H-1104, H-1105, H-1106 and H-1107.
- These emission rates apply across all furnaces in the cap when any one furnace is in one of the planned maintenance, startup and shutdown scenarios defined in the Special Conditions.



Texas Commission on Environmental Quality

GHG Permit Summary Table

Permit Number: GHGPSDTX114		Issuance Date: 02/20/19				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			TPY ⁴	Spec. Cond.	Spec. Cond.	Spec. Cond.
FURNCAP (7)	Pyrolysis Furnace Block (H-1101 through H-1107)	CO ₂ (5)	1,346,793	3	3, 21, 22, 23	3, 4
		CH ₄ (5)	21.0			
		N ₂ O (5)	2.7			
		CO ₂ e	1,348,172			
SCFUG	Process Fugitive Emissions (6)	CO ₂ (5)	3.5	14	14, 21, 22, 23	
		CH ₄ (5)	60			
		CO ₂ e	1503			
XF-4601	Multi-Point Ground Flare	CO ₂ (5)	34,244	8, 9, 11	8, 9, 11, 21, 22, 23	
		CH ₄ (5)	66.0			
		N ₂ O (5)	0.43			
		CO ₂ e	36,022			
X-3800	Thermal Oxidizer	CO ₂ (5)	10,169	10, 11	10, 11, 21, 22, 23	
		CH ₄ (5)	0.06			
		N ₂ O (5)	0.03			
		CO ₂ e	10180			
X-3401	Cooling Tower	CH ₄ (5)	1.7	13	13, 21, 22, 23	
		CO ₂ e	42			



Texas Commission on Environmental Quality

GHG Permit Summary Table

Permit Number: GHGPSDTX114		Issuance Date: 02/20/19				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			TPY ⁴	Spec. Cond.	Spec. Cond.	Spec. Cond.
EMERGEN	Emergency Generator	CO ₂ (5)	75.42	12	12, 21, 22, 23	12
		CH ₄ (5)	<0.01			
		N ₂ O (5)	<0.01			
		CO ₂ e	75.68			
HDECOKE1	Decoke Cyclone 1	CO ₂ (5)	240.69	7	7, 21, 22, 23	
		CO ₂ e	240.69			
HDECOKE2	Decoke Cyclone 2	CO ₂ (5)	240.69	7	7, 21, 22, 23	
		CO ₂ e	240.69			

1. Emission point identification - either specific equipment designation or emission point number from plot plan.
2. Specific point source name. For fugitive sources, use area name or fugitive source name.
3. CO₂ - carbon dioxide
 N₂O - nitrous oxide
 CH₄ - methane
 CO₂e - carbon dioxide equivalents based on the following Global Warming Potentials (1/2015):
 CO₂ (1), N₂O (298), CH₄ (25)
4. Compliance with annual emission limits (tons per year) is based on a 12-month rolling period. These rates include emissions from maintenance, startup, and shutdown.
5. Emission rate is given for informational purposes only and does not constitute enforceable limit.
6. Emission rate is an estimate and is enforceable through compliance with the special conditions.
7. The EPN FURNCAP is a cap of annual emissions from Furnaces H-1101, H-1102, H-1103, H-1104, H-1105, H-1106 and H-1107.

SECTION 4 UNIT ATTRIBUTE FORMS

This section contains the following forms:

- OP-UA1, Miscellaneous Unit Attributes
- OP-UA2, Stationary Reciprocating Internal Combustion Engine Unit Attributes
- OP-UA3, Storage Tank/Vessel Unit Attributes
- OP-UA4, Loading/Unloading Operations Unit Attributes
- OP-UA5, Process Heater/Furnace Unit Attributes
- OP-UA7, Flare Unit Attributes
- OP-UA12, Fugitive Emission Unit Attributes
- OP-UA14, Water Separator Unit Attributes
- OP-UA15, Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent
Unit Attributes



Miscellaneous Unit Attributes
Form OP-UA1 (Page 1)
Federal Operating Permit Program

Date:	07/16/2019	Account No.:	TBD
Area Name:	Ethane Cracker		
		Permit No.:	TBD

Unit ID No.	SOP/GOP Index No.	Unit Type	Date Constructed/Placed in Service	Functionally Identical Replacement	Maximum Rated Capacity	Technical Information and Unit Description
PROPROCESS	63YY	EU				New ethylene production units defined in §63.1103(e)(1)(i) are subject to the compliance schedule and dates contained in §63.1102(a)(1).
XF4601VENT	63YY	EU				Applicable to MACT YY § 63.1103(e)(3)(d) and the requirements of Subpart SS contained in §63.982(b) and (c)(2).



Miscellaneous Unit Attributes
 Form OP-UA1 (Page 1)
 Federal Operating Permit Program

Date:	07/16/2019	Account No.:	TBD	Permit No.:	TBD
Area Name:	Ethane Cracker				

Unit ID No.	SOP/GOP Index No.	Unit Type	Date Constructed/Placed in Service	Functionally Identical Replacement	Maximum Rated Capacity	Technical Information and Unit Description
X3800VENT	63YY	EU				Applicable to MACT YY § 63.1103(e)(3)(d) and the requirements of Subpart SS contained in §63.982(b) and (c)(2).
T5672	63YY	EU				Applicable to MACT YY § 63.1103(e)(3) storing total organic HAP with a vapor pressure \geq 3.4 kilopascals but $<$ 76.6 kilopascals; and the capacity of the vessel is \geq 4 cubic meters but \leq 95 cubic meters.
SCFUG	63YY	EU				Equipment (as defined in §63.1101) that contains or contacts organic HAP is subject to the provisions of §63.1103(e)(3)(f) referenced in §63.1107 and §63.1019.



Texas Commission on Environmental Quality
 Stationary Reciprocating Internal Combustion Engine Attributes
 Form OP-UA2 (Page 1)
 Federal Operating Permit Program

Table 1a: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
 Subchapter B: Combustion Control at Major Industrial, Commercial and Institutional Sources in Ozone Nonattainment Areas

Date:	7/16/2019	Permit No.:	TBD	Regulated Entity No.:	RN109845768
Area Name:	Ethane Cracker				

Unit ID No.	SOP/GOP Index No.	Horsepower Rating	RACT Date Place in Service	Functionally Identical Replacement	Type of Service	Fuel Fired	Engine Type	ESAD Date Place in Service	Diesel HP Rating
EMERGEN	R7300-1	300+		FCD+					
GENERATOR	R7300-1	300+		FCD+					



Texas Commission on Environmental Quality
 Stationary Reciprocating Internal Combustion Engine Attributes
 Form OP-UA2 (Page 4)
 Federal Operating Permit Program

Table 2a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
 Subpart ZZZZ: National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Date:	7/16/2019	Permit No.:	TBD
Area Name:	Ethane Cracker	Regulated Entity No.:	RN102457520
		Customer Reference No.:	CN605458397

Unit ID No.	SOP/GOP Index No.	HAP Source	Brake HP	Construction/ Reconstruction Date	Nonindustrial Emergency Engine	Service Type	Stationary RICE Type
EMERGEN	63ZZZZ-1	MAJOR	500+	06+		EMER-A	
GENERATOR	63ZZZZ-1	MAJOR	500+	06+		EMER-A	



Texas Commission on Environmental Quality
 Stationary Reciprocating Internal Combustion Engine Attributes
 Form OP-UA2 (Page 10)

Federal Operating Permit Program

Table 5a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)

Subpart III: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

Date:	7/16/2019	Permit No.:	TBD	Regulated Entity No.:	RN109845768
Area Name:	Ethane Cracker			Customer No.:	CN605458397

Unit Id No.	SOP/GOP Index No.	Applicability Date	Exemptions	Service	Commencing	Manufacture Date
EMERGEN	60III-1	2005+	NONE	EMERG	CON	0406+
GENERATOR	60III-1	2005+	NONE	EMERG	CON	0406+



Texas Commission on Environmental Quality
 Stationary Reciprocating Internal Combustion Engine Attributes
 Form OP-UA2 (Page 11)
 Federal Operating Permit Program
 Table 5b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
 Subpart III: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

Date:	7/16/2019	Permit No.:	TBD	Regulated Entity No.:	RN109845768
Area Name:	Ethane Cracker	Customer No.:			CN605458397

Unit Id No.	SOP/GOP Index No.	Diesel	AES No.	Displacement	Generator Set	Model Year	Install Date
EMERGEN	60III-1	DIESEL		10-		2017+	
GENERATOR	60III-1	DIESEL		10-		2017+	



Texas Commission on Environmental Quality
 Stationary Reciprocating Internal Combustion Engine Attributes
 Form OP-UA2 (Page 12)

Federal Operating Permit Program

Table 5c: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)

Subpart III: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

Date:	7/16/2019	Permit No.:	TBD	Regulated Entity No.:	RN109845768
Area Name:	Ethane Cracker			Customer No.:	CN605458397

Unit ID No.	SOP/GOP Index No.	Kilowatts	Filter	Standards	Compliance Option	PM Compliance	Options
EMERGEN	60III-1	E130-368		YES	MANU NO		
GENERATOR	60III-1	E130-368		YES	MANU NO		



Storage Tank/Vessel Attributes
 Form OP-UA3 (Page 5)
 Federal Operating Permit Program

Table 4b: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)
 Subchapter B: Storage of Volatile Organic Compounds (VOCs)

Date:	07/16/2019	Permit No.:	TBD	Regulated Entity No.:	RN109845768
Area Name:	Ethane Cracker			Customer Reference No.:	CN605458397

Unit ID No.	SOP/GOP Index No.	Construction Date	Tank Description	True Vapor Pressure	Primary Seal	Secondary Seal	Control Device Type	Control Device ID No.
SMALLTK	R5112-1							
T-5655	R5112-2			1-				
T-5660	R5112-3			1-				
T-1202	R5112-2			1-				
T-1221A	R5112-2			1-				
T-1221B	R5112-2			1-				
V-1290	R5112-4			1-				
T-1210	R5112-4			1-				
T-5672	R5112-5			1.5+A			VDU	X-3800
V-5652	R5112-4			1-				
V-5651	R5112-4			1-				



Loading/Unloading Operations Attributes
Form OP-UA4 (Page 1)
Federal Operating Permit Program

Table 1a: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)
Subchapter C: Loading and Unloading of Volatile Organic Compounds

Date: 07/16/2019		Permit No.: TBD		Regulated Entity No.: RN109845768					
Area Name: Ethane Cracker		Customer Reference No.: CN605458397							
Unit ID No.	SOP/GOP Index No.	Chapter 115 Facility Type	Alternate Control Requirement (ACR)	ACR ID No.	Product Transferred	Transfer Type	True Vapor Pressure	Daily Throughput	Control Options
UNLOAD	R5211-1	OTHER	NONE		VOC1	UNLOAD	0.5-		
LOAD	R5211-2	OTHER	NONE		VOC1	LOAD	0.5+	20K-	
LOAD	R5211-3	OTHER	NONE		VOC1	LOAD	0.5+	NCE2	CON
LOAD	R5211-4	OTHER	NONE		VOC1	LOAD	0.5+	NCE2	CON



Loading/Unloading Operations Attributes
Form OP-UA4 (Page 2)
Federal Operating Permit Program

Table 1b: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)
Subchapter C: Loading and Unloading of Volatile Organic Compounds

Date:	07/16/2019	Permit No.:	TBD	Regulated Entity No.:	RNI109845768
Area Name:	Ethane Cracker			Customer Reference No.:	CN605458397

Unit ID No.	SOP Index No.	Chapter 115 Control Device Type	Chapter 115 Control Device ID No.	Vapor-Tight	Vapor Space Holding Tank	Marine Terminal Exemptions	VOC Flash Point	Uncontrolled VOC Emissions
UNLOAD	R5211-1							
LOAD	R5211-2							
LOAD	R5211-3	CRBADs	CCLOAD					
LOAD	R5211-4	OTHER	X-3800					



Flare Attributes
Form OP-UA7 (Page 1)
Federal Operating Permit Program

**Table 1: Title 30 Texas Administrative Code Chapter 111 (30 TAC Chapter 111)
Control of Air Pollution from Visible Emissions and Particulate Matter**

Date:	07/16/2019	Permit No.:	TBD	Regulated Entity No.:	RN109845768
Area Name:	Ethane Cracker				

Unit ID No.	SOP/GOP Index No.	Acid Gases Only	Emergency/Upset Conditions Only	Alternate Opacity Limitation (AOL)	AOL ID No.	Construction Date
XF-4601	R1111-1	No	No			



Flare Attributes
Form OP-UA7 (Page 3)
Federal Operating Permit Program

Table 3: Title 40 Code of Federal Regulations Part 60 and 61 (40 CFR Part 60 and 40 CFR Part 61)
Subpart A: General Provisions of Standards of Performance for New Stationary Sources and National Emission Standards for Hazardous

Date:	07/16/2019	Permit No.:	TBD	Regulated Entity No.:	RN109845768	
Area Name:	Ethane Cracker					
Unit ID No.	SOP/GOP Index No.	Subject To 40 CFR § 60.18	Adhering To Heat Content Specifications	Flare Assist Type	Flare Exit Velocity	Heating Value of Gas
XF-4601	60A-01	Yes	Yes	None	60-	
XF-4601	60A-02	Yes	Yes	None	60-400	1000-
XF-4601	60A-03	Yes	Yes	None	60-400	1000+



Flare Attributes
Form OP-UA7 (Page 4)
Federal Operating Permit Program

Table 4: Title 40 Code of Federal Regulations Part 63
Subpart A: General Provisions of National Emission Standards for Hazardous Air Pollutants for Source Categories

Date: 07/16/2019		Permit No.: TBD		Regulated Entity No.: RN109845768		
Area Name: Ethane Cracker						
Unit ID No.	SOP/GOP Index No.	Required Under 40 CFR Part 63	Heat Content Specification	Flare Assist Type	Flare Exit Velocity	Heating Value of Gas
XF-4601	63A-01	Yes	Yes	None	60-	
XF-4601	63A-02	Yes	Yes	None	60-400	1000-
XF-4601	63A-03	Yes	Yes	None	60-400	1000+



Fugitive Emission Unit Attributes
Form OP-UA12 (Page 145)
Federal Operating Permit Program

Table 17a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart VVa: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry
for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006

Date: 07/16/2019		Permit No.: TBD		Regulated Entity No.: RN102457520			
Area Name: Ethane Cracker				Customer Reference No.: CN605458397			
Unit ID No.	SOP Index No.	Produces Chemicals	Affected Facility	Construction / Modification Date	Compliance Option	Design Capacity	Facility Type
0	60VVa-ALL						



Fugitive Emission Unit Attributes
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Table 17b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
 Subpart VVa: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry
 for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006

Date:	07/16/2019	Permit No.:	TBD	Regulated Entity No.:	RN102457520
Area Name:	Ethane Cracker			Customer Reference No.:	CN605458397
Title 40 CFR Part 60, Subpart VVa Fugitive Unit Components					
Pumps					
Unit ID No.	SOP Index No.	Light Liquid Service	EEL	EEL ID No.	Complying with § 60.482-2a
0	60VYa-ALL				



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Table 17c: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart VVa: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry
for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006

Date:	07/16/2019	Permit No.:	TBD	Regulated Entity No.:	RN102457520
Area Name:	Ethane Cracker	Customer Reference No.:	CN605458397		
Title 40 CFR Part 60, Subpart VVa Fugitive Unit Components (continued)					
Unit ID No.	SOP Index No.	Compressors			Pressure relief devices
		Compressor	EEL	EEL ID No.	
0	60VVa-ALL				Gas/Vapor Service



Fugitive Emission Unit Attributes
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Table 17d: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
 Subpart VVa: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry
 for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006

Date:	07/16/2019	Permit No.: TBD	Regulated Entity No.: RN102457520						
Area Name:	Ethane Cracker	Customer Reference No.:	CN605458397						
Title 40 CFR Part 60, Subpart VVa Fugitive Unit Components (continued)									
Unit ID No.	SOP Index No.	Sampling Connection Systems			Valves				
		Sampling Connection	EEL	EEL ID No.	Complying with 60.482-5a	Open-Ended	EEL	EEL ID No.	Complying with 60.482-6a
0	60VVa-ALL								



Fugitive Emission Unit Attributes
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Table 17e: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
 Subpart VVa: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry
 for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006

Date:	07/16/2019	Permit No.:	TBD	Regulated Entity No.:	RN102457520	
Area Name:	Ethane Cracker			Customer Reference No.:	CN605458397	
Title 40 CFR Part 60, Subpart VVa Fugitive Unit Components (continued)						
Valves (continued)						
Unit ID No.	SOP Index No.	Gas/Vapor or Light Liquid Service	2.0%	EEL	EEL ID No.	Complying with 60.482-7a
0	60VVa-ALL					



Fugitive Emission Unit Attributes
 Form OP-UA12 (Page 37)
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Table 17f: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
 Subpart VVa: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry
 for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006

Date: 07/16/2019		Permit No.: TBD		Regulated Entity No.: RN102457520					
Area Name: Ethane Cracker				Customer Reference No.: CN605458397					
Title 40 CFR Part 60, Subpart VVa Fugitive Unit Components (continued)									
Unit ID No.	SOP Index No.	Pumps			Valves				
		Heavy Liquid Service	EEL	EEL ID No.	Complying with 60.482-8a	Heavy Liquid Service	EEL	EEL ID No.	Complying with 60.482-8a
0	60VVa-ALL								



Fugitive Emission Unit Attributes
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Federal Operating Permit Program

Table 17g: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart VVa: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry
for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006

Date:	07/16/2019	Permit No.:	TBD		Regulated Entity No.:	RN102457520										
Area Name:	Ethane Cracker	Customer Reference No.:	CN605458397													
Title 40 CFR Part 60, Subpart VVa Fugitive Unit Components (continued)																
Unit ID No.	SOP Index No.	Pressure Relief Devices			Connectors											
		Heavy or Light Liquid Service	EEL	EEL ID No.	Complying with 60.482-8a	Flanges and Other Connectors	EEL	EEL ID No.	Complying with 60.482-8a							
0	60VVa-ALL															



Fugitive Emission Unit Attributes
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Table 17h: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
 Subpart VVa: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry
 for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006

Date: 07/16/2019		Permit No.: TBD		Regulated Entity No.: RN102457520		
Area Name: Ethane Cracker				Customer Reference No.: CN605458397		
Title 40 CFR Part 60, Subpart VVa Fugitive Unit Components (continued)						
Closed Vent Systems and Control Devices						
Unit ID No.	SOP Index No.	Vapor Recovery System	EEL	EEL ID No.	Complying with 60.482-10a	Control Device ID.
0	60VVa-ALL					



Fugitive Emission Unit Attributes
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Table 17i: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
 Subpart VVa: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry
 for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006

Date:	07/16/2019	Permit No.:	TBD	Regulated Entity No.:	RN102457520	
Area Name:	Ethane Cracker			Customer Reference No.:	CN605458397	
Title 40 CFR Part 60, Subpart VVa Fugitive Unit Components (continued)						
Closed Vent Systems and Control Devices (continued)						
Unit ID No.	SOP Index No.	Enclosed Combustion Device	EEL	EEL ID No.	Complying with 60.482-10a	Control Device ID.
0	60VVa-ALL					



Fugitive Emission Unit Attributes
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Table 17j: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
 Subpart VVa: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry
 for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006

Date:	07/16/2019	Permit No.:	TBD	Regulated Entity No.:	RN102457520	
Area Name:	Ethane Cracker			Customer Reference No.:	CN605458397	
Title 40 CFR Part 60, Subpart VVa Fugitive Unit Components (continued)						
Closed Vent Systems and Control Devices						
Unit ID No.	SOP Index No.	Flare	EEL	EEL ID No.	Complying with 60.482-10a	Control Device ID.
0	60VVa-ALL					



Fugitive Emission Unit Attributes
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Table 17k: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
 Subpart VVa: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry
 for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006

Date:	07/16/2019	Permit No.:	TBD	Regulated Entity No.:	RN102457520	
Area Name:	Ethane Cracker	Customer Reference No.:	CN605458397			
Title 40 CFR Part 60, Subpart VVa Fugitive Unit Components (continued)						
Closed Vent Systems and Control Devices						
Unit ID No.	SOP Index No.	CVS (or Vapor Collection System)	EEL	EEL ID No.	Complying with 60.482-10a	Connectors Gas/Vapor or Light Liquid Service
0	60VVa-ALL					



Fugitive Emission Unit Attributes
 Form OP-UA12 (Page 156)
 Federal Operating Permit Program

Table 17i: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
 Subpart VVa: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry
 for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006

Date:	07/16/2019	Permit No.:	TBD	Regulated Entity No.:	RN102457520
Area Name:	Ethane Cracker	Customer Reference No.:	CN605458397		
Unit ID No.	SOP Index No.	Title 40 CFR Part 60, Subpart VVa Fugitive Unit Components (continued)			
0	60VV2-ALL	Title 40 CFR Part 60, Subpart VVa Fugitive Unit Description			



Water Separator Attributes
Form OP-UA14 (Page 1)
Federal Operating Permit Program

Table 1: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)
Water Separation

Date: 07/16/2019		Permit No. TBD		Regulated Entity No.: RN109845768			
Area Name: Port Arthur Ethane Side Cracker		Customer Reference No.: CN605458397					
Unit ID No.	SOP/GOP Index No.	Alternative Control Requirement (ACR)	ACR ID No.	Exemption	Emission Control Option	Control Device	Control Device ID No.
Z-5671	R5131-1	NO		NONE	VAP	OTHER	X-3800
XT-5672	R5131-1	NO		NONE	VAP	OTHER	X-3800



Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes
 Form OP-UA15 (Page 1)
 Federal Operating Permit Program

Table 1a: Title 30 Texas Administrative Code Chapter 111 (30 TAC Chapter 111)
 Subchapter A: Visible Emissions

Date:	07/16/2019	Permit No.:	TBD	Regulated Entity No.:	RN109845768
Area Name:	Ethane Cracker			Customer Reference No.:	CN605458397

Emission Point ID No.	SOP/GOP Index No.	Alternate Opacity Limitation	AOL ID No.	Vent Source	Opacity Monitoring System	Construction Date	Effluent Flow Rate
GRP-FURNCAP	R1111-2	No		OTHER	NONE	72+	100+



Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes
Form OP-UA15 (Page 3)
Federal Operating Permit Program

Table 2a: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)
Subchapter B: Vent Gas Control

Date: 07/16/2019		Permit No.: TBD		Regulated Entity No.: RN109845768				
Area Name: Ethane Cracker				Customer Reference No.: CN605458397				
Emission Point ID No.	SOP/GOP Index No.	Chapter 115 Division	Combustion Exhaust	Vent Type	Total Uncontrolled VOC Weight	Combined 24-Hour VOC Weight	VOC Concentration	VOC Concentration or Emission Rate at Maximum Operating Conditions
XF4601VENT	R5121-1	NO	NO	REGVAPPL				
X3800VENT	R5121-2	NO	NO	REGVAPPL				



Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes
 Form OP-UA15 (Page 4)
 Federal Operating Permit Program

Table 2b: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)
 Subchapter B: Vent Gas Control

Date: 07/16/2019		Permit No.: TBD		Regulated Entity No.: RN109845768	
Area Name: Ethane Cracker				Customer Reference No.: CN605458397	
Emission Point ID No.	SOP Index No.	Alternate Control Requirement	ACR ID No.	Control Device Type	Control Device ID No.
XF4601VENT	R5121-1	ALTED	AMOC 113	FLARE	XF-4601
X3800VENT	R5121-2	NONE		OTHER	X-3800

SECTION 5

APPLICABILITY IDENTIFICATION FORMS

This section contains the following forms:

- OP-REQ1, Application Area-wide Applicability Determinations and General Information
- OP-REQ2, Negative Applicable Requirement Determinations
- OP-REQ3, Applicable Requirements Summary
- OP-MON, Monitoring Requirements Form (Periodic Monitoring and Compliance Assurance Monitoring)

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	07/16/2019
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RN No.:	RN109845768

For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 1

I. Title 30 TAC Chapter 111 - Control of Air Pollution from Visible Emissions and Particulate Matter

A. Visible Emissions

◆	1.	The application area includes stationary vents constructed on or before January 31, 1972.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	2.	The application area includes stationary vents constructed after January 31, 1972. <i>If the responses to Questions I.A.1 and I.A.2 are both "NO," go to Question I.A.6. If the response to Question I.A.1 is "NO" and the response to Question I.A.2 is "YES," go to Question I.A.4.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
◆	3.	The application area is opting to comply with the requirements for stationary vents constructed after January 31, 1972 for vents in the application area constructed on or before January 31, 1972.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	4.	All stationary vents are addressed on a unit specific basis.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	5.	Test Method 9 (40 CFR Part 60, Appendix A, Method 9 - Visual Determination of the Opacity of Emissions from Stationary Sources) is used to determine opacity of emissions in the application area.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
◆	6.	The application area includes structures subject to 30 TAC § 111.111(a)(7)(A).	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	7.	The application area includes sources, other than those specified in 30 TAC § 111.111(a)(1), (4), or (7), subject to 30 TAC § 111.111(a)(8)(A).	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	8.	Emissions from units in the application area include contributions from uncombined water.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
◆	9.	The application area is located in the City of El Paso, including Fort Bliss Military Reservation, and includes solid fuel heating devices subject to 30 TAC § 111.111(c).	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A

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Date:	07/16/2019
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For SOP applications, answer ALL questions unless otherwise directed.

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Form OP-REQ1: Page 2	
I. Title 30 TAC Chapter 111 - Control of Air Pollution from Visible Emissions and Particulate Matter (continued)	
B. Materials Handling, Construction, Roads, Streets, Alleys, and Parking Lots	
1. Items a - d determines applicability of any of these requirements based on geographical location.	
◆ a.	The application area is located within the City of El Paso. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆ b.	The application area is located within the Fort Bliss Military Reservation, except areas specified in 30 TAC § 111.141. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆ c.	The application area is located in the portion of Harris County inside the loop formed by Beltway 8. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆ d.	The application area is located in the area of Nueces County outlined in Group II state implementation plan (SIP) for inhalable particulate matter adopted by the TCEQ on May 13, 1988. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<i>If there is any "YES" response to Questions I.B.1.a - d, answers Questions I.B.2.a - d. If all responses to Questions I.B.1.a-d are "NO," go to Section I.C.</i>	
2. Items a - d determine the specific applicability of these requirements.	
◆ a.	The application area is subject to 30 TAC § 111.143. <input type="checkbox"/> YES <input type="checkbox"/> NO
◆ b.	The application area is subject to 30 TAC § 111.145. <input type="checkbox"/> YES <input type="checkbox"/> NO
◆ c.	The application area is subject to 30 TAC § 111.147. <input type="checkbox"/> YES <input type="checkbox"/> NO
◆ d.	The application area is subject to 30 TAC § 111.149. <input type="checkbox"/> YES <input type="checkbox"/> NO
C. Emissions Limits on Nonagricultural Processes	
◆ 1.	The application area includes nonagricultural processes subject to 30 TAC § 111.151. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
2.	The application area includes vents from a nonagricultural process that are subject additional monitoring requirements. <i>If the response to Question I.C.2 is "NO," go to Question I.C.4.</i> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
3.	All vents from nonagricultural processes in the application area are subject to additional monitoring requirements. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

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For SOP applications, answer ALL questions unless otherwise directed.

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Form OP-REQ1: Page 3

I. Title 30 TAC Chapter 111 - Control of Air Pollution from Visible Emissions and Particulate Matter (continued)

C. Emissions Limits on Nonagricultural Processes (continued)

- | | | |
|----|---|---|
| 4. | The application area includes oil or gas fuel-fired steam generators subject to 30 TAC §§ 111.153(a) and 111.153(c). | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 5. | The application area includes oil or gas fuel-fired steam generators that are subject to additional monitoring requirements.
<i>If the response to Question I.C.5 is "NO," go to Question I.C.7.</i> | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 6. | All oil or gas fuel-fired steam generators in the application area are subject to additional monitoring requirements. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 7. | The application area includes solid fossil fuel-fired steam generators subject to 30 TAC §§ 111.153(a) and 111.153(b). | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 8. | The application area includes solid fossil fuel-fired steam generators that are subject to additional monitoring requirements.
<i>If the response to Question I.C.8 is "NO," go to Section I.D.</i> | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 9. | All solid fossil fuel-fired steam generators in the application area are subject to additional monitoring requirements. | <input type="checkbox"/> YES <input type="checkbox"/> NO |

D. Emissions Limits on Agricultural Processes

- | | | |
|----|---|---|
| 1. | The application area includes agricultural processes subject to 30 TAC § 111.171. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
|----|---|---|

E. Outdoor Burning

- | | | |
|---|--|---|
| ◆ | 1. Outdoor burning is conducted in the application area.
<i>If the response to Question I.E.1 is "NO," go to Section II.</i> | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| ◆ | 2. Fire training is conducted in the application area and subject to the exception provided in 30 TAC § 111.205. | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| ◆ | 3. Fires for recreation, ceremony, cooking, and warmth are used in the application area and subject to the exception provided in 30 TAC § 111.207. | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| ◆ | 4. Disposal fires are used in the application area and subject to the exception provided in 30 TAC § 111.209. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |

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For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 4	
I. Title 30 TAC Chapter 111 - Control of Air Pollution from Visible Emissions and Particulate Matter (continued)	
E. Outdoor Burning (continued)	
◆	5. Prescribed burning is used in the application area and subject to the exception provided in 30 TAC § 111.211. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	6. Hydrocarbon burning is used in the application area and subject to the exception provided in 30 TAC § 111.213. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	7. The application area has received the TCEQ Executive Director approval of otherwise prohibited outdoor burning according to 30 TAC § 111.215. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
II. Title 30 TAC Chapter 112 - Control of Air Pollution from Sulfur Compounds	
A. Temporary Fuel Shortage Plan Requirements	
	1. The application area includes units that are potentially subject to the temporary fuel shortage plan requirements of 30 TAC §§ 112.15 - 112.18. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds	
A. Applicability	
◆	1. The application area is located in the Houston/Galveston/Brazoria area, Beaumont/Port Arthur area, Dallas/Fort Worth area, El Paso area, or a covered attainment county as defined by 30 TAC § 115.10. <i>See instructions for inclusive counties. If the response to Question III.A.1 is "NO," go to Section IV.</i> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
B. Storage of Volatile Organic Compounds	
◆	1. The application area includes storage tanks, reservoirs, or other containers capable of maintaining working pressure sufficient at all times to prevent any VOC vapor or gas loss to the atmosphere. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

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- ◆ For SOP applications, answer ALL questions unless otherwise directed.
- ◆ For GOP applications, answer ONLY these questions unless otherwise directed.

Form OP-REQ1: Page 5	
III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)	
C. Industrial Wastewater	
1. The application area includes affected VOC wastewater streams of an affected source category, as defined in 30 TAC § 115.140. <i>If the response to Question III.C.1 is "NO" or "N/A," go to Section III.D.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
2. The application area is located at a petroleum refinery in the Beaumont/Port Arthur or Houston/Galveston/Brazoria area. <i>If the response to Question III.C.2 is "YES" and the refinery is in the Beaumont/Port Arthur area, go to Section III.D.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
3. The application area is complying with the provisions of 40 CFR Part 63, Subpart G, as an alternative to complying with this division (relating to Industrial Wastewater). <i>If the response to Question III.C.3 is "YES," go to Section III.D.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
4. The application area is located at a plant with an annual VOC loading in wastewater, as determined in accordance with 30 TAC § 115.148, less than or equal to 10 Mg (11.03 tons). <i>If the response to Question III.C.4 is "YES," go to Section III.D.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
5. The application area includes wastewater drains, junction boxes, lift stations, or weirs that are subject to the control requirements of 30 TAC § 115.142(1).	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
6. The application area includes wastewater drains, junction boxes, lift stations, or weirs that handle streams chosen for exemption under 30 TAC § 115.147(2).	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
7. The application area includes wastewater drains, junction boxes, lift stations, or weirs that have an executive director approved exemption under 30 TAC § 115.147(4).	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
D. Loading and Unloading of VOCs	
◆ 1. The application area includes VOC loading operations.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆ 2. The application area includes VOC transport vessel unloading operations. <i>For GOP applications, if the responses to Questions III.D.1 - D.2 are "NO," go to Section III.E.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

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For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 6	
III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)	
D. Loading and Unloading of VOCs (continued)	
◆ 3. Transfer operations at motor vehicle fuel dispensing facilities are the only VOC transfer operations conducted in the application area.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
E. Filling of Gasoline Storage Vessels (Stage I) for Motor Vehicle Fuel Dispensing Facilities	
◆ 1. The application area includes one or more motor vehicle fuel dispensing facilities and gasoline is transferred from a tank-truck tank into a stationary storage container. <i>If the response to Question III.E.1 is "NO," go to Section III.F.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆ 2. Transfers to stationary storage containers used exclusively for the fueling of agricultural implements are the only transfer operations conducted at facilities in the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 3. All transfers at facilities in the application area are made into stationary storage containers with internal floating roofs, external floating roofs, or their equivalent. <i>If the response to Question III.E.2 and/or E.3 is "YES," go to Section III.F.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 4. The application area is located in a covered attainment county as defined in 30 TAC § 115.10. <i>If the response to Question III.E.4 is "NO," go to Question III.E.9.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 5. Stationary gasoline storage containers with a nominal capacity less than or equal to 1,000 gallons are located at the facility.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 6. Stationary gasoline storage containers with a nominal capacity greater than 1,000 gallons are located at the facility.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 7. At facilities located in covered attainment counties other than Bastrop, Bexar, Caldwell, Comal, Guadalupe, Hays, Travis, Williamson, or Wilson County, transfers are made to stationary storage tanks greater than 1000 gallons located at a facility which has dispensed less than 100,000 gallons of gasoline in a calendar month after October 31, 2014. <i>If the response to Question III.E.7 is "YES," go to Section III.F.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 7		
III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)		
E. Filling of Gasoline Storage Vessels (Stage I) for Motor Vehicle Fuel Dispensing Facilities (continued)		
◆	8. At facilities located in Bastrop, Bexar, Caldwell, Comal, Guadalupe, Hays, Travis, Williamson, or Wilson County, transfers are made to stationary storage tanks greater than 1000 gallons located at a facility which has dispensed no more than 25,000 gallons of gasoline in a calendar month after December 31, 2004. <i>If the response to Question III.E.8 is "YES," go to Section III.F.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	9. Transfers are made to stationary storage tanks located at a motor vehicle fuel dispensing facility which has dispensed no more than 10,000 gallons of gasoline in any calendar month after January 1, 1991 and for which construction began prior to November 15, 1992.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	10. Transfers are made to stationary storage tanks located at a motor vehicle fuel dispensing facility which has dispensed more than 10,000 gallons of gasoline in any calendar month after January 1, 1991 and for which construction began prior to November 15, 1992.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	11. Transfers are made to stationary storage tanks located at a motor vehicle fuel dispensing facility which commenced construction on or after November 15, 1992.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	12. At facilities located in Ellis, Johnson, Kaufman, Parker, or Rockwall County, transfers are made to stationary storage tanks located at a facility which has dispensed at least 10,000 gallons of gasoline but less than 125,000 gallons of gasoline in a calendar month after April 30, 2005.	<input type="checkbox"/> YES <input type="checkbox"/> NO
F. Control of VOC Leaks from Transport Vessels (Complete this section for GOP applications for GOPs 511, 512, 513 and 514 only)		
◆	1. Tank-truck tanks are filled with, or emptied of, gasoline at a facility that is subject to 30 TAC § 115.214(a)(1)(C) or 115.224(2) within the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A

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III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)	
F. Control of VOC Leaks from Transport Vessels (Complete this section for GOP applications for GOPs 511, 512, 513 and 514 only) (continued)	
◆ 2. Tank-truck tanks are filled with non-gasoline VOCs having a TVP greater than or equal to 0.5 psia under actual storage conditions at a facility subject to 30 TAC § 115.214(a)(1)(C) within the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
◆ 3. Tank-truck tanks are filled with, or emptied of, gasoline at a facility that is subject to 30 TAC § 115.214(b)(1)(C) or 115.224(2) within the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
G. Control of Vehicle Refueling Emissions (Stage II) at Motor Vehicle Fuel Dispensing Facilities	
◆ 1. The application area includes one or more motor vehicle fuel dispensing facilities and gasoline is transferred from a stationary storage container into motor vehicle fuel tanks. <i>If the response to Question III.G.1 is "NO" or "N/A," go to Section III.H.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
◆ 2. The application area includes facilities that began construction on or after November 15, 1992 and prior to May 16, 2012.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 3. The application area includes facilities that began construction prior to November 15, 1992. <i>If the responses to Questions III.G.2 and Question III.G.3 are both "NO," go to Section III.H.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 4. The application area includes only facilities that have a monthly throughput of less than 10,000 gallons of gasoline.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 5. The decommissioning of all Stage II vapor recovery control equipment located in the application area has been completed and the decommissioning notice submitted.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)

H. Control Of Reid Vapor Pressure (RVP) of Gasoline

◆	1. The application area includes stationary tanks, reservoirs, or other containers holding gasoline that may ultimately be used in a motor vehicle in El Paso County. <i>If the response to Question III.H.1 is "NO" or "N/A," go to Section III.I.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
◆	2. The application area includes stationary tanks, reservoirs, or other containers holding gasoline that will be used exclusively for the fueling of agricultural implements.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	3. The application area includes a motor vehicle fuel dispensing facility.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	4. The application area includes stationary tanks, reservoirs, or other containers holding gasoline and having a nominal capacity of 500 gallons or less.	<input type="checkbox"/> YES <input type="checkbox"/> NO

I. Process Unit Turnaround and Vacuum-Producing Systems in Petroleum Refineries

1. The application area is located at a petroleum refinery.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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J. Surface Coating Processes (Complete this section for GOP applications only.)

◆	1. Surface coating operations (other than those performed on equipment located on-site and in-place) that meet the exemption specified in 30 TAC § 115.427(a)(3)(A) or 115.427(b)(1) are performed in the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
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III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)	
K. Cutback Asphalt	
1. Conventional cutback asphalt containing VOC solvents for the paving of roadways, driveways, or parking lots, is used or specified for use in the application area by a state, municipal, or county agency. <i>If the response to Question III.K.1 is "N/A," go to Section III.L.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
2. The use, application, sale, or offering for sale of conventional cutback asphalt containing VOC solvents for the paving of roadways, driveways, or parking lots occurs in the application area.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
3. Asphalt emulsion is used or produced within the application area.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
4. The application area is using an alternate control requirement as specified in 30 TAC § 115.513. <i>If the response to Question III.K.4 is "NO," go to Section III.L.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
5. The application area uses, applies, sells, or offers for sale asphalt concrete, made with cutback asphalt, that meets the exemption specified in 30 TAC § 115.517(1).	<input type="checkbox"/> YES <input type="checkbox"/> NO
6. The application area uses, applies, sells, or offers for sale cutback asphalt that is used solely as a penetrating prime coat.	<input type="checkbox"/> YES <input type="checkbox"/> NO
7. The applicant using cutback asphalt is a state, municipal, or county agency.	<input type="checkbox"/> YES <input type="checkbox"/> NO
L. Degassing of Storage Tanks, Transport Vessels and Marine Vessels	
◆ 1. The application area includes degassing operations for stationary, marine, and/or transport vessels. <i>If the response to Question III.L.1 is "NO" or "N/A," go to Section III.M.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
◆ 2. Degassing of only ocean-going, self-propelled VOC marine vessels is performed in the application area. <i>If the response to Question III.L.2 is "YES," go to Section III.M.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A

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III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)

L. Degassing of Storage Tanks, Transport Vessels and Marine Vessels (continued)

◆	3.	Degassing of stationary VOC storage vessels with a nominal storage capacity of 1,000,000 gallons or more and a vapor space partial pressure greater than or equal to 0.5 psia of VOC is performed in the application area.	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
◆	4.	Degassing of stationary VOC storage vessels with a nominal storage capacity of 250,000 gallons or more, or a nominal storage capacity of 75,000 gallons and storing materials with a true vapor pressure greater than 2.6 psia, and a vapor space partial pressure greater than or equal to 0.5 psia of VOC is performed in the application area.	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
◆	5.	Degassing of VOC transport vessels with a nominal storage capacity of 8,000 gallons or more and a vapor space partial pressure greater than or equal to 0.5 psia of VOC is performed in the application area.	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
◆	6.	Degassing of VOC marine vessels with a nominal storage capacity of 10,000 barrels (420,000 gallons) or more and a vapor space partial pressure greater than or equal to 0.5 psia of VOC is performed in the application area.	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
◆	7.	Degassing of VOC marine vessels with a nominal storage capacity of 10,000 barrels (420,000 gallons) and a vapor space partial pressure \geq 0.5 psia that have sustained damage as specified in 30 TAC § 115.547(5) is performed in the application area.	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A

M. Petroleum Dry Cleaning Systems

	1.	The application area contains one or more petroleum dry cleaning facilities that use petroleum based solvents.	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> N/A
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III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)	
N. Vent Gas Control (Highly-reactive volatile organic compounds (HRVOC))	
1. The application area includes one or more vent gas streams containing HRVOC.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
2. The application area includes one or more flares that emit or have the potential to emit HRVOC. <i>If the responses to Questions III.N.1 and III.N.2 are both "NO" or "N/A," go to Section III.O. If the response to Question III.N.1 is "YES," continue with Question III.N.3.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
3. All vent streams in the application area that are routed to a flare contain less than 5.0% HRVOC by weight at all times.	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. All vent streams in the application area that are not routed to a flare contain less than 100 ppmv HRVOC at all times. <i>If the responses to Questions III.N.3 and III.N.4 are both "NO," go to Section III.O.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
5. The application area contains pressure relief valves that are not controlled by a flare.	<input type="checkbox"/> YES <input type="checkbox"/> NO
6. The application area has at least one vent stream which has no potential to emit HRVOC.	<input type="checkbox"/> YES <input type="checkbox"/> NO
7. The application area has vent streams from a source described in 30 TAC § 115.727(c)(3)(A) - (H).	<input type="checkbox"/> YES <input type="checkbox"/> NO
O. Cooling Tower Heat Exchange Systems (HRVOC)	
1. The application area includes one or more cooling tower heat exchange systems that emit or have the potential to emit HRVOC.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A

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IV. Title 30 TAC Chapter 117 - Control of Air Pollution from Nitrogen Compounds

A. Applicability

◆	<p>1. The application area is located in the Houston/Galveston/Brazoria, Beaumont/Port Arthur, or Dallas/Fort Worth Eight-Hour area. <i>For SOP applications, if the response to Question IV.A.1 is "YES," complete Sections IV.B - IV.F and IV.H.</i> <i>For GOP applications for GOPs 511, 512, 513, or 514, if the response to Question IV.A.1 is "YES," go to Section IV.F.</i> <i>For GOP applications for GOP 517, if the response to Question IV.A.1 is "YES," complete Sections IV.C and IV.F.</i> <i>For GOP applications, if the response to Question IV.A.1 is "NO," go to Section VI.</i></p>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
	<p>2. The application area is located in Bexar, Comal, Ellis, Hays, or McLennan County and includes a cement kiln. <i>If the response to Question IV.A.2 is "YES," go to Question IV.H.1.</i></p>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	<p>3. The application area includes a utility electric generator in an east or central Texas county. <i>See instructions for a list of counties included.</i> <i>If the response to Question IV.A.3 is "YES," go to Question IV.G.1.</i> <i>If the responses to Questions IV.A.1 - 3 are all "NO," go to Question IV.H.1.</i></p>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
B. Utility Electric Generation in Ozone Nonattainment Areas		
	<p>1. The application area includes units specified in 30 TAC §§ 117.1000, 117.1200, or 117.1300. <i>If the response to Question IV.B.1 is "NO," go to Question IV.C.1.</i></p>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	<p>2. The application area is complying with a System Cap in 30 TAC §§ 117.1020 or 117.1220.</p>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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IV. Title 30 TAC Chapter 117 - Control of Air Pollution from Nitrogen Compounds (continued)	
C. Commercial, Institutional, and Industrial Sources in Ozone Nonattainment Areas	
◆ 1. The application area is located at a site subject to 30 TAC Chapter 117, Subchapter B and includes units specified in 30 TAC §§ 117.100, 117.300, or 117.400. <i>For SOP applications, if the response to Question IV.C.1 is "NO," go to Question IV.D.1. For GOP applications for GOP 517, if the response to Question IV.C.1 is "NO," go to Section IV.F.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
◆ 2. The application area is located at a site that was a major source of NO _x before November 15, 1992.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
◆ 3. The application area includes an electric generating facility required to comply with the System Cap in 30 TAC § 117.320.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
D. Adipic Acid Manufacturing	
1. The application area is located at, or part of, an adipic acid production unit.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
E. Nitric Acid Manufacturing - Ozone Nonattainment Areas	
1. The application area is located at, or part of, a nitric acid production unit.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
F. Combustion Control at Minor Sources in Ozone Nonattainment Areas - Boilers, Process Heaters, Stationary Engines and Gas Turbines	
◆ 1. The application area is located at a site that is a minor source of NO _x in the Houston/Galveston/Brazoria or Dallas/Fort Worth Eight-Hour areas (except for Wise County). <i>For SOP applications, if the response to Question IV.F.1 is "NO," go to Question IV.G.1. For GOP applications, if the response to Question IV.F.1 is "NO," go to Section VI.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆ 2. The application area is located in the Houston/Galveston/Brazoria area and has units that qualify for an exemption under 30 TAC § 117.2003(a).	<input type="checkbox"/> YES <input type="checkbox"/> NO

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IV. Title 30 TAC Chapter 117 - Control of Air Pollution from Nitrogen Compounds (continued)

F. Combustion Control at Minor Sources in Ozone Nonattainment Areas - Boilers, Process Heaters, Stationary Engines and Gas Turbines (continued)

◆	3. The application area is located in the Houston/Galveston/Brazoria area and has units that qualify for an exemption under 30 TAC § 117.2003(b).	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	4. The application area is located in the Dallas/Fort Worth Eight-Hour area (except for Wise County) and has units that qualify for an exemption under 30 TAC § 117.2103.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	5. The application area has units subject to the emission specifications under 30 TAC §§ 117.2010 or 30 TAC § 117.2110.	<input type="checkbox"/> YES <input type="checkbox"/> NO

G. Utility Electric Generation in East and Central Texas

	1. The application area includes utility electric power boilers and/or stationary gas turbines (including duct burners used in turbine exhaust ducts) that were placed into service before December 31, 1995. <i>If the response to Question IV.G.1 is "NO," go to Question IV.H.1.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	2. The application area is complying with the System Cap in 30 TAC § 117.3020.	<input type="checkbox"/> YES <input type="checkbox"/> NO

H. Multi-Region Combustion Control - Water Heaters, Small Boilers, and Process Heaters

	1. The application area includes a manufacturer, distributor, retailer or installer of natural gas fired water heaters, boilers or process heaters with a maximum rated capacity of 2.0 MMBtu/hr or less. <i>If the response to question IV.H.1 is "NO," go to Section V.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	2. All water heaters, boilers or process heaters manufactured, distributed, retailed or installed qualify for an exemption under 30 TAC § 117.3203.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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V. Title 40 Code of Federal Regulations Part 59 (40 CFR Part 59) - National Volatile Organic Compound Emission Standards for Consumer and Commercial Products	
A. Subpart B - National Volatile Organic Compound Emission Standards for Automobile Refinish Coatings	
1. The application area manufactures automobile refinishing coatings or coating components and sells or distributes these coatings or coating components in the United States.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area imports automobile refinishing coatings or coating components, manufactured on or after January 11, 1999, and sells or distributes these coatings or coating components in the United States. <i>If the responses to Questions V.A.1 and V.A.2 are both "NO," go to Section V.B.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
3. All automobile refinishing coatings or coating components manufactured or imported by the application area meet one or more of the exemptions specified in 40 CFR § 59.100(c)(1) - (6).	<input type="checkbox"/> YES <input type="checkbox"/> NO
B. Subpart C - National Volatile Organic Compound Emission Standards for Consumer Products	
1. The application area manufactures consumer products for sale or distribution in the United States.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area imports consumer products manufactured on or after December 10, 1998 and sells or distributes these consumer products in the United States.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
3. The application area is a distributor of consumer products whose name appears on the label of one or more of the products. <i>If the responses to Questions V.B.1 - V.B.3 are all "NO," go to Section V.C.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
4. All consumer products manufactured, imported, or distributed by the application area meet one or more of the exemptions specified in 40 CFR § 59.201(c)(1) - (7).	<input type="checkbox"/> YES <input type="checkbox"/> NO

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V. Title 40 Code of Federal Regulations Part 59 (40 CFR Part 59) - National Volatile Organic Compound Emission Standards for Consumer and Commercial Products (continued)

C. Subpart D - National Volatile Organic Compound Emission Standards for Architectural Coatings

- | | | |
|----|--|---|
| 1. | The application area manufactures or imports architectural coatings for sale or distribution in the United States. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 2. | The application area manufactures or imports architectural coatings that are registered under the Federal Insecticide, Fungicide, and Rodenticide Act.
<i>If the responses to Questions V.C.1-2 are both "NO," go to Section V.D.</i> | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 3. | All architectural coatings manufactured or imported by the application area meet one or more of the exemptions specified in 40 CFR §59.400(c)(1)-(5). | <input type="checkbox"/> YES <input type="checkbox"/> NO |

D. Subpart E - National Volatile Organic Compound Emission Standards for Aerosol Coatings

- | | | |
|----|--|---|
| 1. | The application area manufactures or imports aerosol coating products for sale or distribution in the United States. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 2. | The application area is a distributor of aerosol coatings for resale or distribution in the United States. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |

E. Subpart F - Control of Evaporative Emissions From New and In-Use Portable Fuel Containers

- | | | |
|----|---|---|
| 1. | The application area manufactures or imports portable fuel containers for sale or distribution in the United States.
<i>If the response to Question V.E.1 is "NO," go to Section VI.</i> | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 2. | All portable fuel containers manufactured or imported by the application area meet one or more of the exemptions specified in 40 CFR § 59.605(a) - (c). | <input type="checkbox"/> YES <input type="checkbox"/> NO |

VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards

A. Applicability

- | | | |
|---|---|---|
| ◆ | 1. The application area includes a unit(s) that is subject to one or more 40 CFR Part 60 subparts.
<i>If the response to Question VI.A.1 is "NO," go to Section VII.</i> | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
|---|---|---|

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VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)	
B. Subpart Y - Standards of Performance for Coal Preparation and Processing Plants	
1. The application area is located at a coal preparation and processing plant. <i>If the response to Question VI.B.1 is "NO," go to Section VI.C.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The coal preparation and processing plant has a design capacity greater than 200 tons per day (tpd). <i>If the response to Question VI.B.2 is "NO," go to Section VI.C.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. The plant has an option to enforceably limit its operating level to less than 200 tpd and is choosing this option. <i>If the response to Question VI.B.3 is "YES," go to Section VI.C.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. The plant contains an open storage pile, as defined in § 60.251, as an affected facility. <i>If the response to Question VI.B.4 is "NO," go to Section VI.C.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
5. The open storage pile was constructed, reconstructed or modified after May 27, 2009.	<input type="checkbox"/> YES <input type="checkbox"/> NO
C. Subpart GG - Standards of Performance for Stationary Gas Turbines (GOP applicants only)	
◆ 1. The application area includes one or more stationary gas turbines that have a heat input at peak load greater than or equal to 10 MMBtu/hr (10.7GJ/hr), based on the lower heating value of the fuel fired. <i>If the response to Question VI.C.1 is "NO" or "N/A," go to Section VI.D.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
◆ 2. One or more of the affected facilities were constructed, modified, or reconstructed after October 3, 1977 and prior to February 19, 2005. <i>If the response to Question VI.C.2 is "NO," go to Section VI.D.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 3. One or more stationary gas turbines in the application area are using a previously approved alternative fuel monitoring schedule as specified in 40 CFR § 60.334(h)(4).	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 4. The exemption specified in 40 CFR § 60.332(e) is being utilized for one or more stationary gas turbines in the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)

C. Subpart GG - Standards of Performance for Stationary Gas Turbines (GOP applicants only) (continued)

◆ 5. One or more stationary gas turbines subject to 40 CFR Part 60, Subpart GG in the application area is injected with water or steam for the control of nitrogen oxides. YES NO

D. Subpart XX - Standards of Performance for Bulk Gasoline Terminals

1. The application area includes bulk gasoline terminal loading racks.
If the response to Question VI.D.1 is "NO," go to Section VI.E. YES NO
 N/A

2. One or more of the loading racks were constructed or modified after December 17, 1980. YES NO

E. Subpart LLL - Standards of Performance for Onshore Natural Gas Processing: Sulfur Dioxide (SO₂) Emissions

◆ 1. The application area includes affected facilities identified in 40 CFR § 60.640(a) that process natural gas (onshore).
For SOP applications, if the response to Question VI.E.1 is "NO," go to Section VI.F. For GOP applications, if the response to Question VI.E.1 is "NO" or "N/A," go to Section VI.H. YES NO

◆ 2. The affected facilities commenced construction or modification after January 20, 1984 and on or before August 23, 2011.
For SOP applications, if the response to Question VI.E.2 is "NO," go to Section VI.F. For GOP applications, if the response to Question VI.E.2 is "NO," go to Section VI.H. YES NO

◆ 3. The application area includes a gas sweetening unit with a design capacity greater than or equal to 2 long tons per day (LTPD) of hydrogen sulfide but operates at less than 2 LTPD.
For SOP applications, if the response to Question VI.E.3 is "NO," go to Section VI.F. For GOP applications, if the response to Question VI.E.3 is "NO," go to Section VI.H. YES NO

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VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)	
E. Subpart LLL - Standards of Performance for Onshore Natural Gas Processing: Sulfur Dioxide (SO₂) Emissions (continued)	
◆ 4. Federally enforceable operating limits have been established in the preconstruction authorization limiting the gas sweetening unit to less than 2 LTPD. <i>For SOP applications, if the response to Question VI.E.4. is "NO," go to Section VI.F. For GOP applications, if the response to Question VI.E.4. is "NO," go to Section VI.H.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 5. Please provide the Unit ID(s) for the gas sweetening unit(s) that have established federally enforceable operating limits in the space provided below.	
F. Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants	
1. The application area includes affected facilities identified in 40 CFR § 60.670(a)(1) that are located at a fixed or portable nonmetallic mineral processing plant. <i>If the response to Question VI.F.1 is "NO," go to Section VI.G.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. Affected facilities identified in 40 CFR § 60.670(a)(1) and located in the application area are subject to 40 CFR Part 60, Subpart OOO.	<input type="checkbox"/> YES <input type="checkbox"/> NO
G. Subpart QQQ - Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems	
1. The application area is located at a petroleum refinery and includes one or more of the affected facilities identified in 40 CFR § 60.690(a)(2) - (4) for which construction, modification, or reconstruction was commenced after May 4, 1987. <i>If the response to Question VI.G.1 is "NO," go to Section VI.H.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area includes storm water sewer systems.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)

G. Subpart QQQ - Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems (continued)

3.	The application area includes ancillary equipment which is physically separate from the wastewater system and does not come in contact with or store oily wastewater.	<input type="checkbox"/> YES <input type="checkbox"/> NO
4.	The application area includes non-contact cooling water systems.	<input type="checkbox"/> YES <input type="checkbox"/> NO
5.	The application area includes individual drain systems. <i>If the response to Question VI.G.5 is "NO," go to Section VI.H.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
6.	The application area includes one or more individual drain systems that meet the exemption specified in 40 CFR § 60.692-2(d).	<input type="checkbox"/> YES <input type="checkbox"/> NO
7.	The application area includes completely closed drain systems.	<input type="checkbox"/> YES <input type="checkbox"/> NO

H. Subpart AAAA - Standards of Performance for Small Municipal Waste Incineration Units for Which Construction Commenced After August 30, 1999 or for Which Modification or Reconstruction Commenced on or After June 6, 2004

◆	1. The application area includes at least one small municipal waste incineration unit, other than an air curtain incinerator. <i>If the response to Question VI.H.1. is "N/A," go to Section VI.I. If the response to Question VI.H.1 is "NO," go to Question VI.H.4.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
◆	2. The application area includes at least one small municipal waste incineration unit, other than an air curtain incinerator, constructed after August 30, 1999 or modified or reconstructed on or after June 6, 2006.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	3. The application area includes at least one small municipal waste incineration unit, other than an air curtain incinerator, constructed before August 30, 1999 and not modified or reconstructed on or after June 6, 2006.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	4. The application area includes at least one air curtain incinerator. <i>If the response to Question VI.H.4 is "NO," go to Section VI.I.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

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VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)	
H. Subpart AAAA - Standards of Performance for Small Municipal Waste Incineration Units for Which Construction Commenced After August 30, 1999 or for Which Modification or Reconstruction Commenced on or After June 6, 2004 (continued)	
◆ 5. The application area includes at least one air curtain incinerator constructed after August 30, 1999 or modified or reconstructed on or after June 6, 2006. <i>If the response to Question VI.H.5 is "NO," go to Question VI.H.7.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 6. All air curtain incinerators constructed after August 30, 1999 or modified or reconstructed on or after June 6, 2006 combust only yard waste.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 7. The application area includes at least one air curtain incinerator constructed before August 30, 1999 and not modified or reconstructed on or after June 6, 2006.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 8. All air curtain incinerators constructed before August 30, 1999 and not modified or reconstructed on or after June 6, 2006 combust only yard waste.	<input type="checkbox"/> YES <input type="checkbox"/> NO
I. Subpart CCCC - Standards of Performance for Commercial and Industrial Solid Waste Incineration Units for Which Construction Commenced After November 30, 1999 or for Which Modification or Reconstruction Commenced on or After June 1, 2001	
◆ 1. The application area includes at least one commercial or industrial solid waste incineration unit, other than an air curtain incinerator. <i>If the response to Question VI.I.1 is "N/A," go to Section VI.J. If the response to Question VI.I.1 is "NO," go to Question VI.I.4.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
◆ 2. The application area includes at least one commercial or industrial solid waste incineration unit, other than an air curtain incinerator, constructed after November 30, 1999 or modified or reconstructed on or after June 1, 2001.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)

I. Subpart CCCC - Standards of Performance for Commercial and Industrial Solid Waste Incineration Units for Which Construction Commenced After November 30, 1999 or for Which Modification or Reconstruction Commenced on or After June 1, 2001 (continued)

◆	3. The application area includes at least one commercial or industrial solid waste incineration unit, other than an air curtain incinerator, constructed before November 30, 1999 and not modified or reconstructed on or after June 1, 2001.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	4. The application area includes at least one air curtain incinerator. <i>If the response to Question VI.I.4 is "NO," go to Section VI.J.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	5. The application area includes at least one air curtain incinerator, constructed after November 30, 1999 or modified or reconstructed on or after June 1, 2001. <i>If the response to Question VI.I.5 is "NO," go to VI.I.7.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	6. All air curtain incinerators constructed after November 30, 1999 or modified or reconstructed on or after June 1, 2001 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	7. The application area includes at least one air curtain incinerator, constructed before November 30, 1999 and not modified or reconstructed on or after June 1, 2001.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	8. All air curtain incinerators constructed before November 30, 1999 and not modified or reconstructed on or after June 1, 2001 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)	
J. Subpart EEEE - Standards of Performance for Other Solid Waste Incineration Units for Which Construction Commenced After December 9, 2004 or for Which Modification or Reconstruction Commenced on or After June 16, 2006	
◆ 1. The application area includes at least one very small municipal waste incineration unit or institutional incineration unit, other than an air curtain incinerator. <i>If the response to Question VI.J.1 is "N/A," go to Section VI.K. If the response to Question VI.J.1 is "NO," go to Question VI.J.4.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
◆ 2. The application area includes at least one very small municipal waste incineration unit, other than an air curtain incinerator, constructed after December 9, 2004 or modified or reconstructed on or after June 16, 2006.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 3. The application area includes at least one very small municipal waste incineration unit, other than an air curtain incinerator, constructed before December 9, 2004 and not modified or reconstructed on or after June 16, 2006.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 4. The application area includes at least one air curtain incinerator. <i>If the response to Question VI.J.4 is "NO," go to Section VI.K.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆ 5. The application area includes at least one air curtain incinerator constructed after December 9, 2004 or modified or reconstructed on or after June 16, 2006. <i>If the response to Question VI.J.5 is "NO," go to Question VI.J.7.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 6. All air curtain incinerators constructed after December 9, 2004 or modified or reconstructed on or after June 16, 2006 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 7. The application area includes at least one air curtain incinerator constructed before December 9, 2004 and not modified or reconstructed on or after June 16, 2006.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (NSPS) (continued)

J. Subpart EEEE - Standards of Performance for Other Solid Waste Incineration Units for Which Construction Commenced After December 9, 2004 or for Which Modification or Reconstruction Commenced on or After June 16, 2006 (continued)

- | | | |
|---|---|--|
| ◆ | 8. All air curtain incinerators constructed before December 9, 2004 and not modified or reconstructed on or after June 16, 2006 combust only wood waste, clean lumber, or yard waste or a mixture of these materials. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| ◆ | 9. The air curtain incinerator is located at an institutional facility and is a distinct operating unit of the institutional facility that generated the waste. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| ◆ | 10. The air curtain incinerator burns less than 35 tons per day of wood waste, clean lumber, or yard waste or a mixture of these materials. | <input type="checkbox"/> YES <input type="checkbox"/> NO |

K. Subpart OOOO - Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution

- | | | |
|---|---|---|
| ◆ | 1. The application area includes one or more of the onshore affected facilities listed in 40 CFR § 60.5365(a)-(g) that are subject to 40 CFR Part 60, Subpart OOOO. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
|---|---|---|

VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants

A. Applicability

- | | | |
|---|--|---|
| ◆ | 1. The application area includes a unit(s) that is subject to one or more 40 CFR Part 61 subparts.
<i>If the response to Question VII.A.1 is "NO" or "N/A," go to Section VIII.</i> | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
<input type="checkbox"/> N/A |
|---|--|---|

B. Subpart F - National Emission Standard for Vinyl Chloride

- | | | |
|----|--|---|
| 1. | The application area is located at a plant which produces ethylene dichloride by reaction of oxygen and hydrogen chloride with ethylene, vinyl chloride by any process, and/or one or more polymers containing any fraction of polymerized vinyl chloride. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
|----|--|---|

C. Subpart J - National Emission Standard for Benzene Emissions for Equipment Leaks (Fugitive Emission Sources) of Benzene (Complete this section for GOP applications only)

- | | | |
|---|--|--|
| ◆ | 1. The application area includes equipment in benzene service. | <input type="checkbox"/> YES <input type="checkbox"/> NO
<input type="checkbox"/> N/A |
|---|--|--|

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VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)	
D. Subpart L - National Emission Standard for Benzene Emissions from Coke By-Product Recovery Plants	
1. The application area is located at a coke by-product recovery plant and includes one or more of the affected sources identified in 40 CFR § 61.130(a) - (b). <i>If the response to Question VII.D.1 is "NO," go to Section VII.E.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area includes equipment in benzene service as determined by 40 CFR § 61.137(b).	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. The application area has elected to comply with the provisions of 40 CFR § 61.243-1 and 40 CFR § 61.243-2.	<input type="checkbox"/> YES <input type="checkbox"/> NO
E. Subpart M - National Emission Standard for Asbestos	
<i>Applicability</i>	
1. The application area includes sources, operations, or activities specified in 40 CFR §§ 61.143, 61.144, 61.146, 61.147, 61.148, or 61.155. <i>If the response to Question VII.E.1 is "NO," go to Section VII.F.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<i>Roadway Construction</i>	
2. The application area includes roadways constructed or maintained with asbestos tailings or asbestos-containing waste material.	<input type="checkbox"/> YES <input type="checkbox"/> NO
<i>Manufacturing Commercial Asbestos</i>	
3. The application area includes a manufacturing operation using commercial asbestos. <i>If the response to Question VII.E.3 is "NO," go to Question VII.E.4.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
a. Visible emissions are discharged to outside air from the manufacturing operation	<input type="checkbox"/> YES <input type="checkbox"/> NO
b. An alternative emission control and waste treatment method is being used that has received prior U.S. Environmental Protection Agency (EPA) approval.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)

E. Subpart M - National Emission Standard for Asbestos (continued)

Manufacturing Commercial Asbestos (continued)

c. Asbestos-containing waste material is processed into non-friable forms.	<input type="checkbox"/> YES <input type="checkbox"/> NO
d. Asbestos-containing waste material is adequately wetted.	<input type="checkbox"/> YES <input type="checkbox"/> NO
e. Alternative filtering equipment is being used that has received EPA approval.	<input type="checkbox"/> YES <input type="checkbox"/> NO
f. A high efficiency particulate air (HEPA) filter is being used that is certified to be at least 99.97% efficient for 0.3 micron particles	<input type="checkbox"/> YES <input type="checkbox"/> NO
g. The EPA has authorized the use of wet collectors designed to operate with a unit contacting energy of at least 9.95 kilopascals.	<input type="checkbox"/> YES <input type="checkbox"/> NO

Asbestos Spray Application

4. The application area includes operations in which asbestos-containing materials are spray applied. <i>If the response to Question VII.E.4 is "NO," go to Question VII.E.5.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
a. Asbestos fibers are encapsulated with a bituminous or resinous binder during spraying and are not friable after drying. <i>If the response to Question VII.E.4.a is "YES," go to Question VII.E.5.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
b. Spray-on applications on buildings, structures, pipes, and conduits do not use material containing more than 1% asbestos.	<input type="checkbox"/> YES <input type="checkbox"/> NO
c. An alternative emission control and waste treatment method is being used that has received prior EPA approval.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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Form OP-REQ1: Page 28	
VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)	
E. Subpart M - National Emission Standard for Asbestos (continued)	
<i>Asbestos Spray Application (continued)</i>	
d. Asbestos-containing waste material is processed into non-friable forms.	<input type="checkbox"/> YES <input type="checkbox"/> NO
e. Asbestos-containing waste material is adequately wetted.	<input type="checkbox"/> YES <input type="checkbox"/> NO
f. Alternative filtering equipment is being used that has received EPA approval.	<input type="checkbox"/> YES <input type="checkbox"/> NO
g. A HEPA filter is being used that is certified to be at least 99.97% efficient for 0.3 micron particles.	<input type="checkbox"/> YES <input type="checkbox"/> NO
h. The EPA has authorized the use of wet collectors designed to operate with a unit contacting energy of at least 9.95 kilopascals.	<input type="checkbox"/> YES <input type="checkbox"/> NO
<i>Fabricating Commercial Asbestos</i>	
5. The application area includes a fabricating operation using commercial asbestos. <i>If the response to Question VII.E.5 is "NO," go to Question VII.E.6.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
a. Visible emissions are discharged to outside air from the manufacturing operation.	<input type="checkbox"/> YES <input type="checkbox"/> NO
b. An alternative emission control and waste treatment method is being used that has received prior EPA approval.	<input type="checkbox"/> YES <input type="checkbox"/> NO
c. Asbestos-containing waste material is processed into non-friable forms.	<input type="checkbox"/> YES <input type="checkbox"/> NO
d. Asbestos-containing waste material is adequately wetted.	<input type="checkbox"/> YES <input type="checkbox"/> NO
e. Alternative filtering equipment is being used that has received EPA approval.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)	
E. Subpart M - National Emission Standard for Asbestos (continued)	
<i>Fabricating Commercial Asbestos (continued)</i>	
f. A HEPA filter is being used that is certified to be at least 99.97% efficient for 0.3 micron particles.	<input type="checkbox"/> YES <input type="checkbox"/> NO
g. The EPA has authorized the use of wet collectors designed to operate with a unit contacting energy of at least 9.95 kilopascals.	<input type="checkbox"/> YES <input type="checkbox"/> NO
<i>Non-sprayed Asbestos Insulation</i>	
6. The application area includes insulating materials (other than spray applied insulating materials) that are either molded and friable or wet-applied and friable after drying.	<input type="checkbox"/> YES <input type="checkbox"/> NO
<i>Asbestos Conversion</i>	
7. The application area includes operations that convert regulated asbestos-containing material and asbestos-containing waste material into nonasbestos (asbestos-free) material.	<input type="checkbox"/> YES <input type="checkbox"/> NO
F. Subpart P - National Emission Standard for Inorganic Arsenic Emissions from Arsenic Trioxide and Metallic Arsenic Production Facilities	
1. The application area is located at a metallic arsenic production plant or at an arsenic trioxide plant that processes low-grade arsenic bearing materials by a roasting condensation process.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
G. Subpart BB - National Emission Standard for Benzene Emissions from Benzene Transfer Operations	
1. The application area is located at a benzene production facility and/or bulk terminal. <i>If the response to Question VII.G.1 is "NO," go to Section VII.H.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area includes benzene transfer operations at marine vessel loading racks.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)	
G. Subpart BB - National Emission Standard for Benzene Emissions from Benzene Transfer Operations (continued)	
3. The application area includes benzene transfer operations at railcar loading racks.	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. The application area includes benzene transfer operations at tank-truck loading racks.	<input type="checkbox"/> YES <input type="checkbox"/> NO
H. Subpart FF - National Emission Standard for Benzene Waste Operations	
<i>Applicability</i>	
1. The application area includes a chemical manufacturing plant, coke by-product recovery plant, or petroleum refinery facility as defined in § 61.341.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
2. The application area is located at a hazardous waste treatment, storage, and disposal (TSD) facility site as described in 40 CFR § 61.340(b). <i>If the responses to Questions VII.H.1 and VII.H.2 are both "NO," go to Section VIII.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
3. The application area is located at a site that has no benzene onsite in wastes, products, byproducts, or intermediates. <i>If the response to Question VII.H.3 is "YES," go to Section VIII.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
4. The application area is located at a site having a total annual benzene quantity from facility waste less than 1 megagram per year (Mg/yr). <i>If the response to Question VII.H.4 is "YES," go to Section VIII</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
5. The application area is located at a site having a total annual benzene quantity from facility waste greater than or equal to 1 Mg/yr but less than 10 Mg/yr. <i>If the response to Question VII.H.5 is "YES," go to Section VIII.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

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VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)

H. Subpart FF - National Emission Standard for Benzene Waste Operations (continued)

Applicability (continued)

- | | | |
|----|--|--|
| 6. | The flow-weighted annual average benzene concentration of each waste stream at the site is based on documentation. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 7. | The application area has waste streams with flow-weighted annual average water content of 10% or greater. | <input type="checkbox"/> YES <input type="checkbox"/> NO |

Waste Stream Exemptions

- | | | |
|-----|--|--|
| 8. | The application area has waste streams that meet the exemption specified in 40 CFR § 61.342(c)(2) (the flow-weighted annual average benzene concentration is less than 10 ppmw). | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 9. | The application area has waste streams that meet the exemption specified in 40 CFR § 61.342(c)(3) because process wastewater has a flow rate less than 0.02 liters per minute or an annual wastewater quantity less than 10 Mg/yr. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 10. | The application area has waste streams that meet the exemption specified in 40 CFR § 61.342(c)(3) because the total annual benzene quantity is less than or equal to 2 Mg/yr. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 11. | The application area transfers waste off-site for treatment by another facility. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 12. | The application area is complying with 40 CFR § 61.342(d). | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 13. | The application area is complying with 40 CFR § 61.342(e).
<i>If the response to Question VII.H.13 is "NO," go to Question VII.H.15.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 14. | The application area has facility waste with a flow weighted annual average water content of less than 10%. | <input type="checkbox"/> YES <input type="checkbox"/> NO |

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VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)	
H. Subpart FF - National Emission Standard for Benzene Waste Operations (continued)	
<i>Container Requirements</i>	
15. The application area has containers, as defined in 40 CFR § 61.341, that receive non-exempt benzene waste. <i>If the response to Question VII.H.15 is "NO," go to Question VII.H.18.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
16. The application area is an alternate means of compliance to meet the 40 CFR § 61.345 requirements for containers. <i>If the response to Question VII.H.16 is "YES," go to Question VII.H.18.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
17. Covers and closed-vent systems used for containers operate such that the container is maintained at a pressure less than atmospheric pressure.	<input type="checkbox"/> YES <input type="checkbox"/> NO
<i>Individual Drain Systems</i>	
18. The application area has individual drain systems, as defined in 40 CFR § 61.341, that receive or manage non-exempt benzene waste. <i>If the response to Question VII.H.18 is "NO," go to Question VII.H.25.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
19. The application area is using an alternate means of compliance to meet the 40 CFR § 61.346 requirements for individual drain systems. <i>If the response to Question VII.H.19 is "YES," go to Question VII.H.25.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
20. The application area has individual drain systems complying with 40 CFR § 61.346(a). <i>If the response to Question VII.H.20 is "NO," go to Question VII.H.22.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
21. Covers and closed-vent systems used for individual drain systems operate such that the individual drain system is maintained at a pressure less than atmospheric pressure.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)

H. Subpart FF - National Emission Standard for Benzene Waste Operations (continued)

Individual Drain Systems (continued)

22. The application area has individual drain systems complying with 40 CFR § 61.346(b). YES NO
If the response to Question VII.H.22 is "NO," go to Question VII.H.25.

23. Junction boxes in the individual drain systems are equipped with a system to prevent the flow of organic vapors from the junction box vent pipe to the atmosphere during normal operation. YES NO

24. Junction box vent pipes in the individual drain systems are connected to a closed-vent system and control device. YES NO

Remediation Activities

25. Remediation activities take place at the application area subject to 40 CFR Part 61, Subpart FF. YES NO

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories

A. Applicability

◆ 1. The application area includes a unit(s) that is subject to one or more 40 CFR Part 63 subparts other than subparts made applicable by reference under subparts in 40 CFR Part 60, 61 or 63. YES NO
See instructions for 40 CFR Part 63 subparts made applicable only by reference.

B. Subpart F - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry

1. The application area is located at a plant site that is a major source as defined in the Federal Clean Air Act § 112(a). YES NO
If the response to Question VIII.B.1 is "NO," go to Section VIII.D.

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
B. Subpart F - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry (continued)	
2. The application area is located at a site that includes at least one chemical manufacturing process unit, as defined in 40 CFR § 63.101, that manufactures as a primary product one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or (b)(1)(ii). <i>If the response to Question VIII.B.2 is "NO," go to Section VIII.D.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
3. The application area is located at a site that includes at least one chemical manufacturing process unit, as defined in 40 CFR § 63.101, that manufactures as a primary product one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or (b)(1)(ii) and uses as a reactant or manufactures as a product, or co-product, one or more of the organic hazardous air pollutants listed in table 2 of 40 CFR Part 63, Subpart F.	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. The application area includes a chemical manufacturing process unit, as defined in 40 CFR § 63.101, that manufactures as a primary product one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or (b)(1)(ii) and uses as a reactant or manufactures as a product, or co-product, one or more of the organic hazardous air pollutants listed in table 2 of 40 CFR Part 63, Subpart F.	<input type="checkbox"/> YES <input type="checkbox"/> NO
5. The application area includes a chemical manufacturing process unit, as defined in 40 CFR § 63.101, that manufactures as a primary product one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or (b)(1)(ii) and does <u>not</u> use as a reactant or manufacture as a product, or co-product, one or more of the organic hazardous air pollutants listed in table 2 of 40 CFR Part 63, Subpart F. <i>If the response to Questions VIII.B.3, B.4 and B.5 are all "NO," go to Section VIII.D.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater

Applicability

1. The application area is located at a site that is subject to 40 CFR 63, Subpart F and the application area includes process vents, storage vessels, transfer racks, or waste streams associated with a chemical manufacturing process subject to 40 CFR 63, Subpart F. YES NO

If the response to Question VIII.C.1 is "NO," go to Section VIII.D.

2. The application area includes fixed roofs, covers, and/or enclosures that are required to comply with 40 CFR § 63.148. YES NO

3. The application area includes vapor collection systems or closed-vent systems that are required to comply with 40 CFR § 63.148. YES NO

If the response to Question VIII.C.3 is "NO," go to Question VIII.C.8.

4. The application area includes vapor collection systems or closed-vent systems that are constructed of hard-piping. YES NO

5. The application area includes vapor collection systems or closed-vent systems that contain bypass lines that could divert a vent stream away from a control device and to the atmosphere. YES NO

If the response to Question VIII.C.5 is "NO," go to Question VIII.C.8.

Vapor Collection and Closed Vent Systems

6. Flow indicators are installed, calibrated, maintained, and operated at the entrances to bypass lines in the application area. YES NO

7. Bypass lines in the application area are secured in the closed position with a car-seal or a lock-and-key type configuration. YES NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (continued)	
<i>Transfer Racks</i>	
8. The application area includes Group 1 transfer racks that load organic HAPs.	<input type="checkbox"/> YES <input type="checkbox"/> NO
<i>Process Wastewater Streams</i>	
9. The application area includes process wastewater streams. <i>If the response to Question VIII.C.9 is "NO," go to Question VIII.C.31.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
10. The application area includes process wastewater streams that are also subject to the provisions of 40 CFR Part 61, Subpart FF. <i>If the response to Question VIII.C.10 is "NO," go to Question VIII.C.12.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
11. The application area includes process wastewater streams that are complying with 40 CFR §§ 63.110(e)(1)(i) and (e)(1)(ii).	<input type="checkbox"/> YES <input type="checkbox"/> NO
12. The application area includes process wastewater streams that are also subject to the provisions of 40 CFR Part 61, Subpart F. <i>If the response to Question VIII.C.12 is "NO," go to Question VIII.C.14.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
13. The application area includes process wastewater streams utilizing the compliance option specified in 40 CFR § 63.110(f)(4)(ii).	<input type="checkbox"/> YES <input type="checkbox"/> NO
14. The application area includes process wastewater streams that are also subject to the provisions of 40 CFR Parts 260 through 272. <i>If the response to Question VIII.C.14 is "NO," go to Question VIII.C.17.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
15. The application area includes process wastewater streams complying with 40 CFR § 63.110(e)(2)(i).	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (continued)

Process Wastewater Streams (continued)

16.	The application area includes process wastewater streams complying with 40 CFR § 63.110(e)(2)(ii).	<input type="checkbox"/> YES <input type="checkbox"/> NO
17.	The application area includes process wastewater streams, located at existing sources, that are designated as Group 1; are required to be treated as Group 1 under 40 CFR § 63.110; or are determined to be Group 1 for Table 9 compounds.	<input type="checkbox"/> YES <input type="checkbox"/> NO
18.	The application area includes process wastewater streams, located at existing sources that are Group 2.	<input type="checkbox"/> YES <input type="checkbox"/> NO
19.	The application area includes process wastewater streams, located at new sources, that are designated as Group 1; required to be treated as Group 1 under 40 CFR § 63.110; or are determined to be Group 1 for Table 8 or Table 9 compounds.	<input type="checkbox"/> YES <input type="checkbox"/> NO
20.	The application area includes process wastewater streams, located at new sources that are Group 2 for both Table 8 and Table 9 compounds.	<input type="checkbox"/> YES <input type="checkbox"/> NO
21.	All Group 1 wastewater streams at the site are demonstrated to have a total source mass flow rate of less than 1 MG/yr. <i>If the response to Question VIII.C.21 is "YES," go to Question VIII.C.31.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
22.	The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr. <i>If the response to Question VIII.C.22 is "NO," go to Question VIII.C.24.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
23.	The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (continued)	
<i>Process Wastewater Streams (continued)</i>	
24. Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.	<input type="checkbox"/> YES <input type="checkbox"/> NO
25. Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. <i>If the responses to Questions VIII.C.24 - VIII.C.25 are both "NO," go to Question VIII.C.27.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
26. The application area includes waste management units that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream prior to shipment or transport.	<input type="checkbox"/> YES <input type="checkbox"/> NO
27. The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.	<input type="checkbox"/> YES <input type="checkbox"/> NO
<i>Drains</i>	
28. The application area includes individual drain systems that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream. <i>If the response to Question VIII.C.28 is "NO," go to Question VIII.C.31.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (continued)

Drains (continued)

29.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.	<input type="checkbox"/> YES	<input type="checkbox"/> NO
30.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.	<input type="checkbox"/> YES	<input type="checkbox"/> NO
31.	The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of a chemical manufacturing process unit that meets the criteria of 40 CFR § 63.100(b). <i>If the response to Question VIII.C.31 is "NO," go to Question VIII.C.36.</i>	<input type="checkbox"/> YES	<input type="checkbox"/> NO
32.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes (that are part of a chemical manufacturing process unit) that meet the criteria listed in 40 CFR § 63.149(d). <i>If the response to Question VIII.C.32 is "NO," go to Question VIII.C.36.</i>	<input type="checkbox"/> YES	<input type="checkbox"/> NO
33.	The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that convey water with a total annual average concentration greater than or equal to 10,000 parts per million by weight of compounds listed in 40 CFR Part 63 Subpart G, Table 9, at any flow rate.	<input type="checkbox"/> YES	<input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
C. Subpart G-National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operation, and Wastewater (continued)	
Drains (continued)	
34. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 1,000 parts per million by weight of compounds listed in 40 CFR Part 63 Subpart G, Table 9, at an annual average flow rate greater than or equal to 10 liters per minute.	<input type="checkbox"/> YES <input type="checkbox"/> NO
35. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of a chemical manufacturing process unit that is subject to the new source requirements of 40 CFR § 63.100(l)(1) or (l)(2); and the equipment conveys water with a total annual average concentration greater than or equal to 10 parts per million by weight of compounds listed in 40 CFR Part 63 Subpart G, Table 8, at an average annual flow rate greater than or equal to 0.02 liter per minute.	<input type="checkbox"/> YES <input type="checkbox"/> NO
Gas Streams	
36. The application area includes gas streams meeting the characteristics of 40 CFR § 63.107(b) - (h) or the criteria of 40 CFR § 63.113(i) and are transferred to a control device not owned or operated by the applicant.	<input type="checkbox"/> YES <input type="checkbox"/> NO
37. The applicant is unable to comply with 40 CFR §§ 63.113 - 63.118 for one or more reasons described in 40 CFR § 63.100(q)(1), (3), or (5).	<input type="checkbox"/> YES <input type="checkbox"/> NO
D. Subpart N - National Emission Standards for Chromium Emissions From Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks	
1. The application area includes chromium electroplating or chromium anodizing tanks located at hard chromium electroplating, decorative chromium electroplating, and/or chromium anodizing operations.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

E. Subpart O - Ethylene Oxide Emissions Standards for Sterilization Facilities

- | | | |
|----|--|---|
| 1. | The application area includes sterilization facilities where ethylene oxide is used in the sterilization or fumigation of materials.
<i>If the response to Question VIII.E.1 is "NO," go to Section VIII.F.</i> | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 2. | Sterilization facilities located in the application area are subject to 40 CFR Part 63, Subpart O.
<i>If the response to Question VIII.E.2 is "NO," go to Section VIII.F.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 3. | The sterilization source has used less than 1 ton (907 kg) of ethylene oxide within all consecutive 12-month periods after December 6, 1996. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 4. | The sterilization source has used less than 10 tons (9070 kg) of ethylene oxide within all consecutive 12-month periods after December 6, 1996. | <input type="checkbox"/> YES <input type="checkbox"/> NO |

F. Subpart Q - National Emission Standards for Industrial Process Cooling Towers

- | | | |
|----|--|---|
| 1. | The application area includes industrial process cooling towers.
<i>If the response to Question VIII.F.1 is "NO," go to Section VIII.G.</i> | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| 2. | Chromium-based water treatment chemicals have been used on or after September 8, 1994. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |

G. Subpart R - National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations)

- | | | |
|----|--|---|
| 1. | The application area includes a bulk gasoline terminal. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 2. | The application area includes a pipeline breakout station.
<i>If the responses to Questions VIII.G.1 and VIII.G.2 are both "NO," go to Section VIII.H.</i> | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 3. | The bulk gasoline terminal or pipeline breakout station is located within a contiguous area and under common control with another bulk gasoline terminal or a pipeline breakout station.
<i>If the response to Question VIII.G.3 is "YES," go to Question VIII.G.9.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
G. Subpart R - National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations) (continued)	
4. The bulk gasoline terminal or pipeline breakout station is located within a contiguous area and under common control with sources, other than bulk gasoline terminals or pipeline breakout stations that emit or have the potential to emit HAPs. <i>If the response to Question VIII.G.4 is "YES," go to Question VIII.G.9.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
5. The value 0.04(OE) is less than 5% of the value of the bulk gasoline terminal emissions screening factor (ET) or the pipeline breakout station emissions screening factor (Ep). <i>If the response to Question VIII.G.5 is "NO," go to Question VIII.G.9.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
6. Emissions screening factor less than 0.5 (ET or EP < 0.5). <i>If the response to Question VIII.G.6 is "YES," go to Section VIII.H.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
7. Emissions screening factor greater than or equal to 0.5, but less than 1.0 (0.5 ≤ ET or EP < 1.0). <i>If the response to Question VIII.G.7 is "YES," go to Section VIII.H</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
8. Emissions screening factor greater than or equal to 1.0 (ET or EP ≥ 1.0). <i>If the response to Question VIII.G.8 is "YES," go to Question VIII.G.10.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
9. The site at which the application area is located is a major source of HAP. <i>If the response to Question VIII.G.9 is "NO," go to Section VIII.H</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
10. The application area is using an alternative leak monitoring program as described in 40 CFR § 63.424(f).	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

H. Subpart S - National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry

1.	The application area includes processes that produce pulp, paper, or paperboard and are located at a plant site that is a major source of HAPs as defined in 40 CFR § 63.2. <i>If the response to Question VIII.H.1 is "NO," go to Section VIII.I.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2.	The application area uses processes and materials specified in 40 CFR § 63.440(a)(1) - (3). <i>If the response to Question VIII.H.2 is "NO," go to Section VIII.I.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
3.	The application area includes one or more sources subject to 40 CFR Part 63, Subpart S that are existing sources. <i>If the response to Question VIII.H.3 is "NO," go to Section VIII.I.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
4.	The application area includes one or more kraft pulping systems that are existing sources.	<input type="checkbox"/> YES <input type="checkbox"/> NO
5.	The application area includes one or more dissolving-grade bleaching systems that are existing sources at a kraft or sulfite pulping mill.	<input type="checkbox"/> YES <input type="checkbox"/> NO
6.	The application area includes bleaching systems that are existing sources and are complying with the Voluntary Advanced Technology Incentives Program for Effluent Limitation Guidelines in 40 CFR § 430.24. <i>If the response to Question VIII.H.6 is "NO," go to Section VIII.I.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
7.	The application area includes bleaching systems that are complying with 40 CFR § 63.440(d)(3)(i).	<input type="checkbox"/> YES <input type="checkbox"/> NO
8.	The application area includes bleaching systems that are complying with 40 CFR § 63.440(d)(3)(ii).	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
I. Subpart T - National Emission Standards for Halogenated Solvent Cleaning	
1. The application area includes an individual batch vapor, in-line vapor, in-line cold, and/or batch cold solvent cleaning machine that uses a hazardous air pollutant (HAP) solvent, or any combination of halogenated HAP solvents, in a total concentration greater than 5% by weight, as a cleaning and/or drying agent.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area is located at a major source and includes solvent cleaning machines, qualifying as affected facilities, that use perchloroethylene, trichloroethylene or methylene chloride.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
3. The application area is located at an area source and includes solvent cleaning machines, other than cold batch cleaning machines, that use perchloroethylene, trichloroethylene or methylene chloride.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
J. Subpart U - National Emission Standards for Hazardous Air Pollutant Emissions: Group 1 Polymers and Resins	
1. The application area includes elastomer product process units and/or wastewater streams and wastewater operations that are associated with elastomer product process units. <i>If the response to Question VIII.J.1 is "NO," go to Section VIII.K.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. Elastomer product process units and/or wastewater streams and wastewater operations located in the application area are subject to 40 CFR Part 63, Subpart U. <i>If the response to Question VIII.J.2 is "NO," go to Section VIII.K.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. The application area includes process wastewater streams that are designated as Group 1 or are determined to be Group 1 for organic HAPs as defined in 40 CFR § 63.482.	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. The application area includes process wastewater streams that are Group 2 for organic HAPs as defined in 40 CFR § 63.482.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

J. Subpart U - National Emission Standards for Hazardous Air Pollutant Emissions: Group 1 Polymers and Resins (continued)

5.	All Group 1 wastewater streams at the site are demonstrated to have a total source mass flow rate of less than 1 MG/yr. <i>If the response to Question VIII.J.5 is "YES," go to Question VIII.J.15.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
6.	The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr. <i>If the response to Question VIII.J.6 is "NO," go to Question VIII.J.8.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
7.	The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.	<input type="checkbox"/> YES <input type="checkbox"/> NO
8.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.	<input type="checkbox"/> YES <input type="checkbox"/> NO
9.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. <i>If the responses to Questions VIII.J.8 - VIII.J.9 are both "NO," go to Question VIII.J.11.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
10.	The application area includes waste management units that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream prior to shipment or transport.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
J. Subpart U - National Emission Standards for Hazardous Air Pollutant Emissions: Group 1 Polymers and Resins (continued)	
<i>Containers</i>	
11. The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.	<input type="checkbox"/> YES <input type="checkbox"/> NO
<i>Drains</i>	
12. The application area includes individual drain systems that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream. <i>If the response to Question VIII.J.12 is "NO," go to Question VIII.J.15.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
13. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.	<input type="checkbox"/> YES <input type="checkbox"/> NO
14. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.	<input type="checkbox"/> YES <input type="checkbox"/> NO
15. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of an elastomer product process unit. <i>If the response to Question VIII.J.15 is "NO," go to Section VIII.K.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
16. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that meet the criteria listed in 40 CFR § 63.149(d) and § 63.501(a)(12). <i>If the response to Question VIII.J.16 is "NO," go to Section VIII.K.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

J. Subpart U - National Emission Standards for Hazardous Air Pollutant Emissions: Group 1 Polymers and Resins (continued)

Drains (continued)

17. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that convey water with a total annual average concentration greater than or equal to 10,000 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.482, at any flow rate. YES NO

18. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 1,000 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.482, at an annual average flow rate greater than or equal to 10 liters per minute. YES NO

19. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of an elastomer product process unit that is a new affected source or part of a new affected source and the equipment conveys water with a total annual average concentration greater than or equal to 10 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.482, at an average annual flow rate greater than or equal to 0.02 liter per minute. YES NO

K. Subpart W - National Emission Standards for Hazardous Air Pollutants for Epoxy Resins Production and Non-nylon Polyamides Production

1. The manufacture of basic liquid epoxy resins (BLR) and/or manufacture of wet strength resins (WSR) is conducted in the application area. YES NO
 N/A
If the response to Question VIII.K.1 is "NO" or "N/A," go to Section VIII.L.

2. The application area includes a BLR and/or WSR research and development facility. YES NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
L. Subpart X - National Emission Standards for Hazardous Air Pollutants from Secondary Lead Smelting	
1. The application area includes one or more of the affected sources in 40 CFR § 63.541(a) that are located at a secondary lead smelter. <i>If the response to Question VIII.L.1 is "NO" or "N/A," go to Section VIII.M.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
2. The application area is using and approved alternate to the requirements of § 63.545(c)(1)-(5) for control of fugitive dust emission sources.	<input type="checkbox"/> YES <input type="checkbox"/> NO
M. Subpart Y - National Emission Standards for Marine Tank Vessel Loading Operations	
1. The application area includes marine tank vessel loading operations that are specified in 40 CFR § 63.560 and located at an affected source as defined in 40 CFR § 63.561.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
N. Subpart CC - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries	
<i>Applicability</i>	
1. The application area includes petroleum refining process units and/or related emission points that are specified in 40 CFR § 63.640(c)(1) - (c)(7). <i>If the response to Question VIII.N.1 is "NO," go to Section VIII.O.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. All petroleum refining process units/and or related emission points within the application area are specified in 40 CFR § 63.640(g)(1) - (g)(7). <i>If the response to Question VIII.N.2 is "YES," go to Section VIII.O.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

N. Subpart CC - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (continued)

Applicability (continued)

3.	The application area is located at a plant site that is a major source as defined in the Federal Clean Air Act § 112(a). <i>If the response to Question VIII.N.3 is "NO," go to Section VIII.O.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
4.	The application area is located at a plant site which emits or has equipment containing/contacting one or more of the HAPs listed in table 1 of 40 CFR Part 63, Subpart CC. <i>If the response to Question VIII.N.4 is "NO," go to Section VIII.O.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
5.	The application area includes Group 1 wastewater streams that are not conveyed, stored, or treated in a wastewater stream management unit that also receives streams subject to the provisions of 40 CFR §§ 63.133 - 63.147 of Subpart G wastewater provisions section.	<input type="checkbox"/> YES <input type="checkbox"/> NO
6.	The application area includes Group 2 wastewater streams that are not conveyed, stored, or treated in a wastewater stream management unit that also receives streams subject to the provisions of 40 CFR §§ 63.133 - 63.147 of Subpart G wastewater provisions section.	<input type="checkbox"/> YES <input type="checkbox"/> NO
7.	The application area includes Group 1 or Group 2 wastewater streams that are conveyed, stored, or treated in a wastewater stream management unit that also receives streams subject to the provisions of 40 CFR §§ 63.133 - 63.147 of Subpart G wastewater provisions section. <i>If the response to Question VIII.N.7 is "NO," go to Section VIII.O.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
8.	The application area includes Group 1 or Group 2 wastewater streams that are complying with 40 CFR § 63.640(o)(2)(i).	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
N. Subpart CC - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (continued)	
<i>Applicability (continued)</i>	
9. The application area includes Group 1 or Group 2 wastewater streams that are complying with 40 CFR § 63.640(o)(2)(ii). <i>If the response to Question VIII.N.9 is "NO," go to Section VIII.O.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
10. The application area includes Group 2 wastewater streams or organic streams whose benzene emissions are subject to control through the use of one or more treatment processes or waste management units under the provisions of 40 CFR Part 61, Subpart FF on or after December 31, 1992.	<input type="checkbox"/> YES <input type="checkbox"/> NO
Containers, Drains, and other Appurtenances	
11. The application area includes containers that are subject to the requirements of 40 CFR § 63.135 as a result of complying with 40 CFR § 63.640(o)(2)(ii).	<input type="checkbox"/> YES <input type="checkbox"/> NO
12. The application area includes individual drain systems that are subject to the requirements of 40 CFR § 63.136 as a result of complying with 40 CFR § 63.640(o)(2)(ii).	<input type="checkbox"/> YES <input type="checkbox"/> NO
O. Subpart DD - National Emission Standards for Off-site Waste and Recovery Operations	
1. The application area is located at a plant site receiving material that meets the criteria for off-site material as specified in 40 CFR § 63.680(b)(1). <i>If the response to Question VIII.O.1 is "NO" or "N/A," go to Section VIII.P</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
2. Materials specified in 40 CFR § 63.680(b)(2) are received at the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. The application area has a waste management operation receiving off-site material and is regulated under 40 CFR Part 264 or Part 265.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

O. Subpart DD - National Emission Standards for Off-site Waste and Recovery Operations (continued)

4.	The application area has a waste management operation treating wastewater which is an off-site material and is exempted under 40 CFR §§ 264.1(g)(6) or 265.1(c)(10).	<input type="checkbox"/> YES <input type="checkbox"/> NO
5.	The application area has an operation subject to Clean Water Act, § 402 or § 307(b) but is not owned by a "state" or "municipality."	<input type="checkbox"/> YES <input type="checkbox"/> NO
6.	The predominant activity in the application area is the treatment of wastewater received from off-site.	<input type="checkbox"/> YES <input type="checkbox"/> NO
7.	The application area has a recovery operation that recycles or reprocesses hazardous waste which is an off-site material and is exempted under 40 CFR §§ 264.1(g)(2) or 265.1(c)(6).	<input type="checkbox"/> YES <input type="checkbox"/> NO
8.	The application area has a recovery operation that recycles or reprocesses used solvent which is an off-site material and is not part of a chemical, petroleum, or other manufacturing process that is required to use air emission controls by another subpart of 40 CFR Part 63 or Part 61.	<input type="checkbox"/> YES <input type="checkbox"/> NO
9.	The application area has a recovery operation that re-refines or reprocesses used oil which is an off-site material and is regulated under 40 CFR Part 279, Subpart F (Standards for Used Oil Processors and Refiners).	<input type="checkbox"/> YES <input type="checkbox"/> NO
10.	The application area is located at a site where the total annual quantity of HAPs in the off-site material is less than 1 megagram per year. <i>If the response to Question VIII.O.10 is "YES," go to Section VIII.P.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
O. Subpart DD - National Emission Standards for Off-site Waste and Recovery Operations (continued)	
11. The application area receives offsite materials with average VOHAP concentration less than 500 ppmw at the point of delivery that are not combined with materials having a VOHAP concentration of 500 ppmw or greater. <i>If the response to Question VIII.O.11 is "NO," go to Question VIII.O.14.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
12. VOHAP concentration is determined by direct measurement.	<input type="checkbox"/> YES <input type="checkbox"/> NO
13. VOHAP concentration is based on knowledge of the off-site material.	<input type="checkbox"/> YES <input type="checkbox"/> NO
14. The application area includes an equipment component that is a pump, compressor, and agitator, pressure relief device, sampling connection system, open-ended valve or line, valve, connector or instrumentation system. <i>If the response to Question VIII.O.14 is "NO," go to Question VIII.O.17.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
15. An equipment component in the application area contains or contacts off-site material with a HAP concentration greater than or equal to 10% by weight.	<input type="checkbox"/> YES <input type="checkbox"/> NO
16. An equipment component in the application area is intended to operate 300 hours or more during a 12-month period.	<input type="checkbox"/> YES <input type="checkbox"/> NO
17. The application area includes containers that manage non-exempt off-site material.	<input type="checkbox"/> YES <input type="checkbox"/> NO
18. The application area includes individual drain systems that manage non-exempt off-site materials.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

P. Subpart GG - National Emission Standards for Aerospace Manufacturing and Rework Facilities

- | | | |
|----|---|---|
| 1. | The application area includes facilities that manufacture or rework commercial, civil, or military aerospace vehicles or components.
<i>If the response to Question VIII.P.1 is "NO" or "N/A," go to Section VIII.Q.</i> | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<input type="checkbox"/> N/A |
| 2. | The application area includes one or more of the affected sources specified in 40 CFR § 63.741(c)(1) - (7). | <input type="checkbox"/> YES <input type="checkbox"/> NO |

Q. Subpart HH - National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities.

- | | | |
|------|--|---|
| ◆ 1. | The application area contains facilities that process, upgrade or store hydrocarbon liquids that are located at oil and natural gas production facilities prior to the point of custody transfer. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| ◆ 2. | The application area contains facilities that process, upgrade or store natural gas prior to the point at which natural gas enters the natural gas transmission and storage source category or is delivered to a final end user.
<i>For SOP applications, if the responses to Questions VIII.Q.1 and VIII.Q.2 are both "NO," go to Section VIII.R.</i>
<i>For GOP applications, if the responses to Questions VIII.Q.1 and VIII.Q.2 are both "NO," go to Section VIII.Z.</i> | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| ◆ 3. | The application area contains only facilities that exclusively process, store or transfer black oil as defined in § 63.761.
<i>For SOP applications, if the response to Question VIII.Q.3 is "YES," go to Section VIII.R.</i>
<i>For GOP applications, if the response to Question VIII.Q.3 is "YES," go to Section VIII.Z.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| ◆ 4. | The application area is located at a site that is a major source of HAP.
<i>If the response to Question VIII.Q.4 is "NO," go to Question VIII.Q.6.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
Q. Subpart - HH - National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities (continued)	
◆ 5. The application area contains only a facility, prior to the point of custody transfer, with facility-wide actual annual average natural gas throughput less than 18.4 thousand standard cubic meters (649,789.9 ft ³) per day and a facility-wide actual annual average hydrocarbon liquid throughput less the 39,700 liters (10,487.6 gallons) per day. <i>For SOP applications, if the response to Question VIII.Q.5 is "YES," go to Section VIII.R. For GOP applications, if the response to Question VIII.Q.5 is "YES," go to Section VIII.Z. For all applications, if the response to Question VIII.Q.5 is "NO," go to Question VIII.Q.9.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 6. The application area includes a triethylene glycol (TEG) dehydration unit. <i>For SOP applications, if the answer to Question VIII.Q.6 is "NO," go to Section VIII.R. For GOP applications, if the response to Question VIII.Q.6 is "NO," go to Section VIII.Z.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 7. The application area is located at a site that is within the boundaries of UA plus offset or a UC, as defined in 40 CFR § 63.761.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 8. The site has actual emissions of 5 tons per year or more of a single HAP, or 12.5 tons per year or more of a combination of HAP.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 9. Emissions for major source determination are being estimated based on the maximum natural gas or hydrocarbon liquid throughput as calculated in § 63.760(a)(1)(i)-(iii).	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

R. Subpart II - National Emission Standards for Shipbuilding and Ship Repair (Surface Coating)

- | | |
|--|---|
| 1. The application area includes shipbuilding or ship repair operations.
<i>If the response to Question VIII.R.1 is "NO," go to Section VIII.S.</i> | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 2. Shipbuilding or ship repair operations located in the application area are subject to 40 CFR Part 63, Subpart II. | <input type="checkbox"/> YES <input type="checkbox"/> NO |

S. Subpart JJ - National Emission Standards for Wood Furniture Manufacturing Operations

- | | |
|---|---|
| 1. The application area includes wood furniture manufacturing operations and/or wood furniture component manufacturing operations.
<i>If the response to Question VIII.S.1 is "NO" or "N/A," go to Section VIII.T.</i> | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<input type="checkbox"/> N/A |
| 2. The application area meets the definition of an "incidental wood manufacturer" as defined in 40 CFR § 63.801. | <input type="checkbox"/> YES <input type="checkbox"/> NO |

T. Subpart KK - National Emission Standards for the Printing and Publishing Industry

- | | |
|---|---|
| 1. The application area includes publication rotogravure, product and packaging rotogravure, or wide-web flexographic printing presses. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<input type="checkbox"/> N/A |
|---|---|

U. Subpart PP - National Emission Standards for Containers

- | | |
|--|---|
| 1. The application area includes containers for which another 40 CFR Part 60, 61, or 63 subpart references the use of 40 CFR Part 63, Subpart PP for the control of air emissions.
<i>If the response to Question VIII.U.1 is "NO," go to Section VIII.V.</i> | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 2. The application area includes containers using Container Level 1 controls. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 3. The application area includes containers using Container Level 2 controls. | <input type="checkbox"/> YES <input type="checkbox"/> NO |

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
U. Subpart PP - National Emission Standards for Containers (continued)	
4. The application area includes containers using Container Level 3 controls.	<input type="checkbox"/> YES <input type="checkbox"/> NO
V. Subpart RR - National Emission Standards for Individual Drain Systems	
1. The application area includes individual drain systems for which another 40 CFR Part 60, 61, or 63 subpart references the use of 40 CFR Part 63, Subpart RR for the control of air emissions.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards	
1. The application area includes an acetal resins production process unit; an acrylic and modacrylic fiber production process unit complying with 40 CFR § 63.1103(b)(3)(i); or an existing polycarbonate production process.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area includes process wastewater streams generated from an acetal resins production process unit; an acrylic and modacrylic fiber production process unit complying with 40 CFR § 63.1103(b)(3)(i); or an existing polycarbonate production process. <i>If the responses to Questions VIII.W.1 and VIII.W.2 are both "NO," go to Question VIII.W.20.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
3. The application area includes process wastewater streams that are designated as Group 1 or are determined to be Group 1 under the requirements of 40 CFR § 63.132(c).	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. The application area includes process wastewater streams that are determined to be Group 2 under the requirements of 40 CFR § 63.132(c).	<input type="checkbox"/> YES <input type="checkbox"/> NO
5. All Group 1 wastewater streams at the site are determined to have a total source mass flow rate of less than 1 MG/yr.	<input type="checkbox"/> YES <input type="checkbox"/> NO
6. The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr. <i>If the response to Question VIII.W.6 is "NO," go to Question VIII.W.8.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)

7.	The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.	<input type="checkbox"/> YES <input type="checkbox"/> NO
8.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.	<input type="checkbox"/> YES <input type="checkbox"/> NO
9.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. <i>If the responses to Questions VIII.W.8 and W.9 are both "NO," go to Question VIII.W.11.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
10.	The application area includes waste management units that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream prior to shipment or transport.	<input type="checkbox"/> YES <input type="checkbox"/> NO
11.	The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.	<input type="checkbox"/> YES <input type="checkbox"/> NO
12.	The application area includes individual drain systems that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream. <i>If the response to Question VIII.W.12 is "NO," go to Question VIII.W.15.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
13.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of covers and, if vented, closed vent systems and control devices.	<input type="checkbox"/> YES <input type="checkbox"/> NO
14.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)	
15. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of an acetal resins production process unit; an acrylic and modacrylic fiber production process unit complying with 40 CFR § 63.1103(b)(3)(i); or an existing polycarbonate production process unit. <i>If the response to Question VIII.W.15 is "NO," go to Question VIII.W.20.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
16. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that meet the criteria listed in 40 CFR § 63.1106(c)(1) - (3). <i>If the response to Question VIII.W.16 is "NO," go to Question VIII.W.20.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
17. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 10,000 parts per million by weight of compounds meeting the definition of organic HAP in Table 9 to 40 CFR Part 60, Subpart G, at any flow rate.	<input type="checkbox"/> YES <input type="checkbox"/> NO
18. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 1,000 parts per million by weight of compounds meeting the definition of organic HAP in Table 9 to 40 CFR Part 60, Subpart G, at an annual average flow rate greater than or equal to 10 liters per minute.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)

19.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of an acrylic resins or acrylic and modacrylic fiber production process unit that is part of a new affected source or is a new affected source and the equipment conveys water with a total annual average concentration greater than or equal to 10 ppmw of compounds meeting the definition of organic HAP in Table 9 to 40 CFR Part 60, Subpart G, at an average annual flow rate greater than or equal to 0.02 liter per minute.	<input type="checkbox"/> YES <input type="checkbox"/> NO
20.	The application area includes an ethylene production process unit.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
21.	The application area includes waste streams generated from an ethylene production process unit. <i>If the responses to Questions VIII.W.20 and VIII.W.21 are both "NO" or "N/A," go to Question VIII.W.54.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
22.	The waste stream(s) contains at least one of the chemicals listed in 40 CFR § 63.1103(e), Table 7(g)(1). <i>If the response to Question VIII.W.22 is "NO," go to Question VIII.W.54.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
23.	Waste stream(s) are transferred off-site for treatment. <i>If the response to Question VIII.W.23 is "NO," go to Question VIII.W.25.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
24.	The application area has waste management units that treat or manage waste stream(s) prior to transfer off-site for treatment. <i>If the response to Question VIII.W.24 is "NO," go to Question VIII.W.54.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)	
25. The total annual benzene quantity from waste at the site is less than 10 Mg/yr as determined according to 40 CFR § 61.342(a).	<input type="checkbox"/> YES <input type="checkbox"/> NO
26. The application area contains at least one waste stream that is a continuous butadiene waste stream as defined in 40 CFR § 63.1082(b). <i>If the response to Question VIII.W.26 is "NO," go to Question VIII.W.43.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
27. The waste stream(s) contains at least 10 ppmw 1, 3-butadiene at a flow rate of 0.02 liters per minute or is designated for control. <i>If the response to Question VIII.W.27 is "NO," go to Question VIII.W.43.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
28. The control requirements of 40 CFR Part 63, Subpart G for process wastewater as specified in 40 CFR § 63.1095(a)(2) are selected for control of the waste stream(s). <i>If the response to Question VIII.W.28 is "NO," go to Question VIII.W.33.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
29. The application area includes containers that receive, manage, or treat a continuous butadiene waste stream.	<input type="checkbox"/> YES <input type="checkbox"/> NO
30. The application area includes individual drain systems that receive, manage, or treat a continuous butadiene waste stream. <i>If the response to Question VIII.W.30 is "NO," go to Question VIII.W.43.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
31. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)

32.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs. <i>If the response to Question VIII.W.32 is required, go to Question VIII.W.43.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
33.	The application area has containers, as defined in 40 CFR § 61.341, that receive a continuous butadiene waste stream. <i>If the response to Question VIII.W.33 is "NO," go to Question VIII.W.36.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
34.	The application area is an alternate means of compliance to meet the 40 CFR § 61.345 requirements for containers. <i>If the response to Question VIII.W.34 is "YES," go to Question VIII.W.36.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
35.	Covers and closed-vent systems used for containers operate such that the container is maintained at a pressure less than atmospheric pressure.	<input type="checkbox"/> YES <input type="checkbox"/> NO
36.	The application area has individual drain systems, as defined in 40 CFR § 61.341, that receive or manage a continuous butadiene waste stream. <i>If the response to Question VIII.W.36 is "NO," go to Question VIII.W.43.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
37.	The application area is using an alternate means of compliance to meet the 40 CFR § 61.346 requirements for individual drain systems. <i>If the response to Question VIII.W.37 is "YES," go to Question VIII.W.43.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)	
38. The application area has individual drain systems complying with 40 CFR § 61.346(a). <i>If the response to Question VIII.W.38 is "NO," go to Question VIII.W.40.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
39. Covers and closed-vent systems used for individual drain systems operate such that the individual drain system is maintained at a pressure less than atmospheric pressure.	<input type="checkbox"/> YES <input type="checkbox"/> NO
40. The application area has individual drain systems complying with 40 CFR § 61.346(b). <i>If the response to Question VIII.W.40 is "NO," go to Question VIII.W.43.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
41. Junction boxes in the individual drain systems are equipped with a system to prevent the flow of organic vapors from the junction box vent pipe to the atmosphere during normal operation.	<input type="checkbox"/> YES <input type="checkbox"/> NO
42. Junction box vent pipes in the individual drain systems are connected to a closed-vent system and control device.	<input type="checkbox"/> YES <input type="checkbox"/> NO
43. The application area has at least one waste stream that contains benzene. <i>If the response to Question VIII.W.43 is "NO," go to Question VIII.W.54.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
44. The application area has containers, as defined in 40 CFR § 61.341, that receive a waste stream containing benzene. <i>If the response to Question VIII.W.44 is "NO," go to Question VIII.W.47.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
45. The application area is an alternate means of compliance to meet the 40 CFR § 61.345 requirements for containers. <i>If the response to Question VIII.W.45 is "YES," go to Question VIII.W.47.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)

46. Covers and closed-vent systems used for containers operate such that the container is maintained at a pressure less than atmospheric pressure.	<input type="checkbox"/> YES <input type="checkbox"/> NO
47. The application area has individual drain systems, as defined in 40 CFR § 61.341, that receive or manage a waste stream containing benzene. <i>If the response to Question VIII.W.47 is "NO," go to Question VIII.W.54.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
48. The application area is using an alternate means of compliance to meet the 40 CFR § 61.346 requirements for individual drain systems. <i>If the response to Question VIII.W.48 is "YES," go to Question VIII.W.54.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
49. The application area has individual drain systems complying with 40 CFR § 61.346(a). <i>If the response to Question VIII.W.49 is "NO," go to Question VIII.W.51.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
50. Covers and closed-vent systems used for individual drain systems operate such that the individual drain system is maintained at a pressure less than atmospheric pressure.	<input type="checkbox"/> YES <input type="checkbox"/> NO
51. The application area has individual drain systems complying with 40 CFR § 61.346(b). <i>If the response to Question VIII.W.51 is "NO," go to Question VIII.W.54.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
52. Junction boxes in the individual drain systems are equipped with a system to prevent the flow of organic vapors from the junction box vent pipe to the atmosphere during normal operation.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)	
53. Junction box vent pipes in the individual drain systems are connected to a closed-vent system and control device.	<input type="checkbox"/> YES <input type="checkbox"/> NO
54. The application area contains a cyanide chemicals manufacturing process. <i>If the response to Question VIII.W.54 is "NO," go to Section VIII.X.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
55. The cyanide chemicals manufacturing process generates maintenance wastewater containing hydrogen cyanide or acetonitrile.	<input type="checkbox"/> YES <input type="checkbox"/> NO
X. Subpart JJJ - National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins	
1. The application area includes thermoplastic product process units, and/or their associated affected sources specified in 40 CFR § 63.1310(a)(1) - (5), that are subject to 40 CFR Part 63, Subpart JJJ. <i>If the response to Question VIII.X.1 is "NO," go to Section VIII.Y.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area includes thermoplastic product process units and/or wastewater streams and wastewater operations that are associated with thermoplastic product process units. <i>If the response to Question VIII.X.2 is "NO," go to Section VIII.Y.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. All process wastewater streams generated or managed in the application area are from sources producing polystyrene. <i>If the response to Question VIII.X.3 is "YES," go to Section VIII.Y.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. All process wastewater streams generated or managed in the application area are from sources producing ASA/AMSAN. <i>If the response to Question VIII.X.4 is "YES," go to Section VIII.Y.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

X. Subpart JJJ - National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins (continued)

5.	The application area includes process wastewater streams that are designated as Group 1 or are determined to be Group 1 for organic HAPs as defined in 40 CFR § 63.1312.	<input type="checkbox"/> YES <input type="checkbox"/> NO
6.	The application area includes process wastewater streams, located at existing sources, that are Group 2 for organic HAPs as defined in 40 CFR § 63.1312.	<input type="checkbox"/> YES <input type="checkbox"/> NO
7.	The application area includes process wastewater streams, located at new sources, that are Group 2 for organic HAPs as defined in 40 CFR § 63.1312.	<input type="checkbox"/> YES <input type="checkbox"/> NO
8.	All Group 1 wastewater streams at the site are demonstrated to have a total source mass flow rate of less than 1 MG/yr. <i>If the response to Question VIII.X.8 is "YES," go to Question VIII.X.18.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
9.	The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr. <i>If the response to Question VIII.X.9 is "NO," go to Question VIII.X.11.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
10.	The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.	<input type="checkbox"/> YES <input type="checkbox"/> NO
11.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.	<input type="checkbox"/> YES <input type="checkbox"/> NO
12.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. <i>If the responses to Questions VIII.X.11 - VIII.X.12 are both "NO," go to Question VIII.X.14.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
X. Subpart JJJ - National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins (continued)	
13. The application area includes waste management units that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream prior to shipment or transport.	<input type="checkbox"/> YES <input type="checkbox"/> NO
<i>Containers</i>	
14. The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.	<input type="checkbox"/> YES <input type="checkbox"/> NO
<i>Drains</i>	
15. The application area includes individual drain systems that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream. <i>If the response to Question VIII.X.15 is "NO," go to Question VIII.X.18.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
16. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.	<input type="checkbox"/> YES <input type="checkbox"/> NO
17. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.	<input type="checkbox"/> YES <input type="checkbox"/> NO
18. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of an thermoplastic product process unit. <i>If the response to Question VIII.X.18 is "NO," go to Section VIII.Y.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

X. Subpart JJJ - National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins (continued)

Drains (continued)

19.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that meet the criteria listed in 40 CFR § 63.149(d) and § 63.1330(b)(12). <i>If the response to Question VIII.X.19 is "NO," go to Section VIII.Y.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
20.	The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that convey water with a total annual average concentration greater than or equal to 10,000 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.1312, at any flow rate.	<input type="checkbox"/> YES <input type="checkbox"/> NO
21.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 1,000 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.1312, at an annual average flow rate greater than or equal to 10 liters per minute.	<input type="checkbox"/> YES <input type="checkbox"/> NO
22.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of a thermoplastic product process unit that is a new affected source or part of a new affected source and the equipment conveys water with a total annual average concentration greater than or equal to 10 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.1312, at an average annual flow rate greater than or equal to 0.02 liter per minute	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
Y. Subpart UUU - National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic reforming Units, and Sulfur Recovery Units.	
1. The application area is subject to 40 CFR Part 63, Subpart UUU - National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic reforming Units, and Sulfur Recovery Units.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Z. Subpart AAAA - National Emission Standards for Hazardous Air Pollutants for Municipal Solid Waste (MSW) Landfills.	
◆ 1. The application area is subject to 40 CFR Part 63, Subpart AAAA - National Emission Standards for Hazardous Air Pollutants for Municipal Solid Waste Landfills.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
AA. Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON)	
1. The application area is located at a site that includes process units that manufacture as a primary product one or more of the chemicals listed in 40 CFR § 63.2435(b)(1).	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area is located at a plant site that is a major source as defined in FCAA § 112(a).	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
3. The application area is located at a site that includes miscellaneous chemical manufacturing process units (MCPU) that process, use or generate one or more of the organic hazardous air pollutants listed in § 112(b) of the Clean Air Act or hydrogen halide and halogen HAP. <i>If the response to Question VIII.AA.1, AA.2 or AA.3 is "NO," go to Section VIII.BB.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

AA. Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON) (continued)

4.	The application area includes process vents, storage vessels, transfer racks, or waste streams associated with a miscellaneous chemical manufacturing process subject to 40 CFR 63, Subpart FFFF. <i>If the response to Question VIII.AA.4 is "NO," go to Section VIII.BB.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
5.	The application area includes process wastewater streams. <i>If the response to Question VIII.AA.5 is "NO," go to Question VIII.AA.18.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
6.	The application area includes process wastewater streams that are designated as Group 1 or are determined to be Group 1 for compounds listed in Table 8 of 40 CFR Part 63, Subpart G or Table 8 and Table 9, as appropriate, of 40 CFR Part 63, Subpart FFFF.	<input type="checkbox"/> YES <input type="checkbox"/> NO
7.	The application area includes process wastewater streams that are Group 2 for compounds listed in Table 8 or Table 8 and Table 9, as appropriate, of 40 CFR Part 63, Subpart FFFF.	<input type="checkbox"/> YES <input type="checkbox"/> NO
8.	All Group 1 wastewater streams at the site are demonstrated to have a total source mass flow rate of less than 1 MG/yr. <i>If the response to Question VIII.AA.8 is "YES," go to Section VIII.BB.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
9.	The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr. <i>If the response to Question VIII.AA.9 is "NO," go to Question VIII.AA.11.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
10.	The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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AA. Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON) (continued)	
11. Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.	<input type="checkbox"/> YES <input type="checkbox"/> NO
12. Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. <i>If the responses to Questions VIII.AA.11 and VIII.AA.12 are both "NO," go to Question VIII.AA.18.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
13. Group 1 wastewater streams are transferred to an offsite treatment facility meeting the requirements of 40 CFR § 63.138(h). <i>If the response to Question VIII.AA.13 is "NO," go to Question VIII.AA.15.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
14. The option to document in the notification of compliance status report that the wastewater will be treated in a facility meeting the requirements of 40 CFR § 63.138(h) is elected.	<input type="checkbox"/> YES <input type="checkbox"/> NO
15. Group 1 wastewater streams or residuals with a total annual average concentration of compounds in Table 8 of 40 CFR Part 63, Subpart FFFF less than 50 ppmw are transferred offsite. <i>If the response to Question VIII.AA.15 is "NO," go to Question VIII.AA.17.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
16. The transferor is demonstrating that less than 5 percent of the HAP in Table 9 of 40 CFR Part 63, Subpart FFFF is emitted from waste management units up to the activated sludge unit.	<input type="checkbox"/> YES <input type="checkbox"/> NO
17. The application area includes waste management units that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream prior to shipment or transport.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

AA. Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON) (continued)

18.	The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.	<input type="checkbox"/> YES <input type="checkbox"/> NO
19.	The application area includes individual drain systems that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream. <i>If the response to Question VIII.AA.19 is "NO," go to Question VIII.AA.22.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
20.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.	<input type="checkbox"/> YES <input type="checkbox"/> NO
21.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.	<input type="checkbox"/> YES <input type="checkbox"/> NO
22.	The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of a chemical manufacturing process unit that meets the criteria of 40 CFR § 63.100(b). <i>If the response to Question VIII.AA.22 is "NO," go to Section VIII.BB.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
23.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes (that are part of a miscellaneous chemical manufacturing process unit) that meet the criteria listed in 40 CFR § 63.149(d). <i>If the response to Question VIII.AA.23 is "NO," go to Section VIII.BB.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
24.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration of compounds in table 8 of 40 CFR Part 63, Subpart FFFF is greater than or equal to 10,000 ppmw at any flow rate, and the total annual load of compounds in table 8 of 40 CFR Part 63, Subpart FFFF is greater than or equal to 200 lb/yr.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
AA. Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON) (continued)	
25. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that convey water with a total annual average concentration of compounds in table 8 of 40 CFR Part 63, Subpart FFFF is greater than or equal to 1,000 ppmw, and the annual average flow rate is greater than or equal to 1 liter per minute.	<input type="checkbox"/> YES <input type="checkbox"/> NO
26. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of a chemical manufacturing process unit that is subject to the new source requirements of 40 CFR § 63.2445(a); and the equipment conveys water with a combined total annual average concentration of compounds in tables 8 and 9 of 40 CFR Part 63, Subpart FFFF is greater than or equal to 30,000 ppmw, and the combined total annual load of compounds in tables 8 and 9 to this subpart is greater than or equal to 1 tpy.	<input type="checkbox"/> YES <input type="checkbox"/> NO
BB. Subpart GGGG - National Emission Standards for Hazardous Air Pollutants for: Solvent Extractions for Vegetable Oil Production.	
1. The application area includes a vegetable oil production process that: is by itself a major source of HAP emissions or, is collocated within a plant site with other sources that are individually or collectively a major source of HAP emissions.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
CC. Subpart GGGGG - National Emission Standards for Hazardous Air Pollutants: Site Remediation	
1. The application area includes a facility at which a site remediation is conducted. <i>If the answer to Question VIII.CC.1 is "NO," go to Section VIII.DD.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area is located at a site that is a major source of HAP. <i>If the answer to Question VIII.CC.2 is "NO," go to Section VIII.DD.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. All site remediation's qualify for one of the exemptions contained in 40 CFR § 63.7881(b)(1) through (6). <i>If the answer to Question VIII.CC.3 is "YES," go to Section VIII.DD.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

CC. Subpart GGGGG - National Emission Standards for Hazardous Air Pollutants: Site Remediation (continued)

4.	Prior to beginning site remediation activities it was determined that the total quantity of HAP listed in Table 1 of Subpart GGGGG that will be removed during all site remediations will be less than 1 Mg/yr. <i>If the answer to Question VIII.CC.4 is "YES," go to Section VIII.DD.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
5.	The site remediation will be completed within 30 consecutive calendar days.	<input type="checkbox"/> YES <input type="checkbox"/> NO
6.	No site remediation will exceed 30 consecutive calendar days. <i>If the answer to Question VIII.CC.6 is "YES," go to Section VIII.DD.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
7.	Site remediation materials subject to 40 CFR Part 63, Subpart GGGGG are transferred from the application area to an off-site facility.	<input type="checkbox"/> YES <input type="checkbox"/> NO
8.	All site remediation materials subject to 40 CFR Part 63, Subpart GGGGG are transferred from the application area to an off-site facility. <i>If the answer to Question VIII.CC.8 is "YES," go to Section VIII.DD.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
9.	The application area includes containers that manage site remediation materials subject to 40 CFR Part 63, Subpart GGGGG. <i>If the response to Question VIII.CC.9 is "NO," go to Question VIII.CC.14.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
10.	The application area includes containers using Container Level 1 controls as specified in 40 CFR § 63.922(b).	<input type="checkbox"/> YES <input type="checkbox"/> NO
11.	The application area includes containers with a capacity greater than 0.46 m ³ that meet the requirements of 40 CFR § 63.7900(b)(3)(i) and (ii).	<input type="checkbox"/> YES <input type="checkbox"/> NO
12.	The application area includes containers using Container Level 2 controls as specified in 40 CFR § 63.923(b).	<input type="checkbox"/> YES <input type="checkbox"/> NO
13.	The application area includes containers using Container Level 3 controls as specified in 40 CFR § 63.924(b).	<input type="checkbox"/> YES <input type="checkbox"/> NO
14.	The application area includes individual drain systems complying with the requirements of 40 CFR § 63.962.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
DD. Subpart BBBB - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants and Pipeline Facilities	
1. The application area is located at a site that is an area source of HAPs. <i>If the answer to Question DD.1 is "NO," go to Section VIII.FF.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area includes a pipeline breakout station, as defined in 40 CFR Part 63, Subpart BBBB, not subject to the control requirements of 40 CFR Part 63, Subpart R.	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. The application area includes a pipeline pumping station as defined in 40 CFR Part 63, Subpart BBBB.	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. The application area includes a bulk gasoline plant as defined in 40 CFR Part 63, Subpart BBBB. <i>If the answer to Question VIII.DD.4 is "NO," go to Question VIII.DD.6.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
5. The bulk gasoline plant was operating, prior to January 10, 2010, in compliance with an enforceable State, local or tribal rule or permit that requires submerged fill as specified in 40 CFR § 63.11086(a).	<input type="checkbox"/> YES <input type="checkbox"/> NO
6. The application area includes a bulk gasoline terminal, as defined in 40 CFR Part 63, Subpart BBBB, not subject to the control requirements of 40 CFR Part 63, Subpart R or Subpart CC. <i>If the answer to Question VIII.DD.6 is "NO," go to Section VIII.EE.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
7. The bulk gasoline terminal has throughput of less than 250,000 gallons per day. <i>If the answer to Question VIII.DD.7 is "YES," go to Section VIII.EE.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
8. The bulk gasoline terminal loads gasoline into gasoline cargo tanks other than railcar cargo tanks.	<input type="checkbox"/> YES <input type="checkbox"/> NO
9. The bulk gasoline terminal loads gasoline into railcar cargo tanks. <i>If the answer to Question VIII.DD.9 is "NO," go to Section VIII.EE.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
10. The bulk gasoline terminal loads gasoline into railcar cargo tanks which do not collect vapors from a vapor balance system.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

DD. Subpart BBBBBB - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants and Pipeline Facilities (continued)

- | | |
|---|--|
| 11. The bulk gasoline terminal loads gasoline into railcar cargo tanks which collect vapors from a vapor balance system and that system complies with a Federal, State, local, tribal rule or permit. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
|---|--|

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

EE. Subpart CCCCCC - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities

- | | |
|--|--|
| ◆ 1. The application area is located at a site that is an area source of hazardous air pollutants. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 2. The application area includes at least one gasoline dispensing facility as defined in 40 CFR § 63.11132.
<i>If the answer to Question VIII.EE.2 is "NO," go to Section VIII.FF.</i> | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 3. The application area includes at least one gasoline dispensing facility with a monthly throughput of less than 10,000 gallons. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 4. The application area includes at least one gasoline dispensing facility where gasoline is dispensed from a fixed gasoline storage tank into a portable gasoline tank for the on-site delivery and subsequent dispensing into other gasoline-fueled equipment. | <input type="checkbox"/> YES <input type="checkbox"/> NO |

FF. Recently Promulgated 40 CFR Part 63 Subparts

- | | |
|---|---|
| ◆ 1. The application area is subject to one or more promulgated 40 CFR Part 63 subparts not addressed on this form.
<i>If the response to Question VIII.EE.1 is "NO," go to Section IX. A list of promulgated 40 CFR Part 63 subparts not otherwise addressed on OP-REQ1 is included in the instructions</i> | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| ◆ 2. Provide the Subpart designation (i.e. Subpart EEE) in the space provided below. | |

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IX. Title 40 Code of Federal Regulations Part 68 (40 CFR Part 68) - Chemical Accident Prevention Provisions	
A. Applicability	
◆ 1. The application area contains processes subject to 40 CFR Part 68, Chemical Accident Prevention Provisions, and specified in 40 CFR § 68.10.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
X. Title 40 Code of Federal Regulations Part 82 (40 CFR Part 82) - Protection of Stratospheric Ozone	
A. Subpart A - Production and Consumption Controls	
◆ 1. The application area is located at a site that produces, transforms, destroys, imports, or exports a controlled substance or product.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
B. Subpart B - Servicing of Motor Vehicle Air Conditioners	
◆ 1. Servicing, maintenance, and/or repair of fleet vehicle air conditioning systems using ozone-depleting refrigerants is conducted in the application area.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
C. Subpart C - Ban on Nonessential Products Containing Class I Substances and Ban on Nonessential Products Containing or Manufactured with Class II Substances	
◆ 1. The application area sells or distributes one or more nonessential products (which release a Class I or Class II substance) that are subject to 40 CFR Part 82, Subpart C.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
D. Subpart D - Federal Procurement	
◆ 1. The application area is owned/operated by a department, agency, or instrumentality of the United States.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
E. Subpart E - The Labeling of Products Using Ozone Depleting Substances	
◆ 1. The application area includes containers in which a Class I or Class II substance is stored or transported prior to the sale of the Class I or Class II substance to the ultimate consumer.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
◆ 2. The application area is a manufacturer, importer, wholesaler, distributor, or retailer of products containing a Class I or Class II substance.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
◆ 3. The application area is a manufacturer, importer, wholesaler, distributor, or retailer of products manufactured with a process that uses a Class I or Class II substance.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A

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X. Title 40 Code of Federal Regulations Part 82 (40 CFR Part 82) - Protection of Stratospheric Ozone (continued)

F. Subpart F - Recycling and Emissions Reduction

- | | | |
|---|---|---|
| ◆ | 1. Servicing, maintenance, and/or repair on refrigeration and non-motor vehicle air condition appliances using ozone-depleting refrigerants or non-exempt substitutes is conducted in the application area. | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| ◆ | 2. Disposal of appliances (including motor vehicle air conditioners) or refrigerant or non-exempt substitute reclamation occurs in the application area. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<input type="checkbox"/> N/A |
| ◆ | 3. The application area manufactures appliances or refrigerant recycling and recovery equipment. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<input type="checkbox"/> N/A |

G. Subpart G - Significant New Alternatives Policy Program

- | | | |
|---|--|---|
| ◆ | 1. The application area manufactures, formulates, or creates chemicals, product substitutes, or alternative manufacturing processes that are intended for use as a replacement for a Class I or Class II compound.
<i>If the response to Question X.G.1 is "NO," go to Section X.H.</i> | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<input type="checkbox"/> N/A |
| ◆ | 2. All substitutes produced by the application area meet one or more of the exemptions in 40 CFR § 82.176(b)(1) - (7). | <input type="checkbox"/> YES <input type="checkbox"/> NO
<input type="checkbox"/> N/A |

H. Subpart H -Halon Emissions Reduction

- | | | |
|---|--|---|
| ◆ | 1. Testing, servicing, maintaining, repairing, or disposing of equipment containing halons is conducted in the application area. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<input type="checkbox"/> N/A |
| ◆ | 2. Disposal of halons or manufacturing of halon blends is conducted in the application area. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<input type="checkbox"/> N/A |

XI. Miscellaneous

A. Requirements Reference Tables (RRT) and Flowcharts

- | | | |
|----|---|---|
| 1. | The application area contains units that are potentially subject to a regulation for which the TCEQ has not developed an RRT and flowchart. | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
|----|---|---|

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XI. Miscellaneous (continued)	
B. Forms	
◆ 1. The application area contains units that are potentially subject to a regulation for which the TCEQ has not developed a unit attribute form. <i>If the response to Question XI.B.1 is "NO" or "N/A," go to Section XI.C.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
◆ 2. Provide the Part and Subpart designation for the federal rule(s) or the Chapter, Subchapter, and Division designation for the State regulation(s) in the space provided below. Subpart YY, Subpart SS, Subpart UU, Subpart XX	
C. Emission Limitation Certifications	
◆ 1. The application area includes units for which federally enforceable emission limitations have been established by certification.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
D. Alternative Means of Control, Alternative Emission Limitation or Standard, or Equivalent Requirements	
1. The application area is located at a site that is subject to a site specific requirement of the state implementation plan (SIP).	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area includes units located at the site that are subject to a site specific requirement of the SIP.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
3. The application area includes units which demonstrate compliance by using an alternative means of control, alternative emission limitation or standard or equivalent requirements approved by the EPA Administrator. <i>If the response to Question XI.D.3 is "YES," please include a copy of the approval document with the application.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
4. The application area includes units which demonstrate compliance by using an alternative means of control, alternative emission limitation or standard or equivalent requirements approved by the TCEQ Executive Director. <i>If the response to Question XI.D.4 is "YES," please include a copy of the approval document with the application.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

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XI. Miscellaneous (continued)

E. Title IV - Acid Rain Program

- | | | |
|----|--|---|
| 1. | The application area includes emission units subject to the Acid Rain Program (ARP), including the Opt-In Program. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 2. | The application area includes emission units qualifying for the new unit exemption under 40 CFR § 72.7. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 3. | The application area includes emission units qualifying for the retired unit exemption under 40 CFR § 72.8. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |

F. 40 CFR Part 97, Subpart EEEEE - Cross-State Air Pollution Rule (CSAPR) NO_x Ozone Season Group 2 Trading Program

- | | | |
|----|--|---|
| 1. | The application area includes emission units subject to the requirements of the CSAPR NO _x Ozone Season Group 2 Trading Program.
<i>If the response to Question XI.F.1 is "NO," go to Question XI.F.7.</i> | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 2. | The application area includes units that are complying with the CEMS requirements of 40 CFR Part 75, Subpart H for NO _x and heat input. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 3. | The application area includes gas or oil-fired units that are complying with the CEMS requirements of 40 CFR Part 75, Subpart H for NO _x , and the monitoring requirements of 40 CFR Part 75, Appendix D for heat input. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 4. | The application area includes gas or oil-fired peaking units that are complying with the monitoring requirements of 40 CFR Part 75, Appendix E for NO _x , and the monitoring requirements of 40 CFR Part 75, Appendix D for heat input. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 5. | The application area includes gas or oil-fired units that are complying with the Low Mass Emissions monitoring requirements of 40 CFR § 75.19 for NO _x and heat input. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 6. | The application area includes units that are complying with EPA-approved alternative monitoring system requirements of 40 CFR Part 75, Subpart E for NO _x and heat input. | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 7. | The application area includes emission units that qualify for the CSAPR NO _x Ozone Season Group 2 retired unit exemption. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |

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XI. Miscellaneous (continued)	
G. 40 CFR Part 97, Subpart FFFFF - Texas SO₂ Trading Program	
1. The application area includes emission units complying with the requirements of the Texas SO ₂ Trading Program. <i>If the response to Question XI.G.1 is "NO," go to Question XI.G.6.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area includes units that are complying with the CEMS requirements of 40 CFR Part 75, Subpart B for SO ₂ and 40 CFR Part 75, Subpart H for heat input.	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. The application area includes gas or oil-fired units that are complying with the monitoring requirements of 40 CFR Part 75, Appendix D for SO ₂ and heat input.	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. The application area includes gas or oil-fired units that are complying with the Low Mass Emissions monitoring requirements of 40 CFR § 75.19 for SO ₂ and heat input.	<input type="checkbox"/> YES <input type="checkbox"/> NO
5. The application area includes units that are complying with EPA-approved alternative monitoring system requirements of 40 CFR Part 75, Subpart E for SO ₂ and heat input.	<input type="checkbox"/> YES <input type="checkbox"/> NO
6. The application area includes emission units that qualify for the Texas SO ₂ Trading Program retired unit exemption.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
XI. Miscellaneous (continued)	
H. Permit Shield (SOP Applicants Only)	
1. A permit shield for negative applicability entries on Form OP-REQ2 (Negative Applicable Requirement Determinations) is being requested or already exists in the permit.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

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I. GOP Type (Complete this section for GOP applications only)

◆	1. The application area is applying for initial issuance, revision, or renewal of an oil and gas general operating permit under GOP No. 511 - Oil and Gas General Operating Permit for Brazoria, Chambers, Collin, Dallas, Denton, El Paso, Ellis, Fort Bend, Galveston, Hardin, Harris, Jefferson, Johnson, Kaufman, Liberty, Montgomery, Orange, Parker, Rockwall, Tarrant, Waller, and Wise Counties.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	2. The application area is applying for initial issuance, revision, or renewal of an oil and gas general operating permit under GOP No. 512 - Oil and Gas General Operating Permit for Gregg, Nueces, and Victoria Counties.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	3. The application area is applying for initial issuance, revision, or renewal of an oil and gas general operating permit under GOP No. 513 - Oil and Gas General Operating Permit for Aransas, Bexar, Calhoun, Matagorda, San Patricio, and Travis Counties.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	4. The application area is applying for initial issuance, revision, or renewal of an oil and gas general operating permit under GOP No. 514 - Oil and Gas General Operating Permit for All Texas Counties Except Aransas, Bexar, Brazoria, Calhoun, Chambers, Collin, Dallas, Denton, El Paso, Ellis, Fort Bend, Galveston, Gregg, Hardin, Harris, Jefferson, Johnson, Kaufman, Liberty, Matagorda, Montgomery, Nueces, Orange, Parker, Rockwall, San Patricio, Tarrant, Travis, Victoria, Waller, and Wise County.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	5. The application area is applying for initial issuance, revision, or renewal of a solid waste landfill general operating permit under GOP No. 517 - Municipal Solid Waste Landfill general operating permit.	<input type="checkbox"/> YES <input type="checkbox"/> NO

J. Title 30 TAC Chapter 101, Subchapter H

◆	1. The application area is located in a nonattainment area. <i>If the response to Question XI.J.1 is "NO," go to question XI.J.3.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	2. The applicant has or will generate emission reductions to be credited in the TCEQ Emissions Banking and Trading Program.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
◆	3. The applicant has or will generate discrete emission reductions to be credited in the TCEQ Emissions Banking and Trading Program.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A

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For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

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XI. Miscellaneous (continued)	
J. Title 30 TAC Chapter 101, Subchapter H (continued)	
◆ 4. The application area is located at a site in the Houston/Galveston/Brazoria nonattainment area where the facilities have a collective uncontrolled design capacity to emit 10 tpy or more of NO _x .	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆ 5. The application area includes an electric generating facility permitted under 30 TAC Chapter 116, Subchapter I.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆ 6. The application area is located at a site in the Houston/Galveston/Brazoria nonattainment area and the site has a potential to emit more than 10 tpy of highly-reactive volatile organic compounds (HRVOC) from facilities covered under 30 TAC Chapter 115, Subchapter H, Divisions 1 and 2.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆ 7. The application area is located at a site in the Houston/Galveston/Brazoria nonattainment area, the site has a potential to emit 10 tpy or less of HRVOC from covered facilities and the applicant is opting to comply with the requirements of 30 TAC Chapter 101, Subchapter H, Division 6, Highly Reactive VOC Emissions Cap and Trade Program.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
K. Periodic Monitoring	
◆ 1. The applicant or permit holder is submitting at least one periodic monitoring proposal described on Form OP-MON in this application.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
◆ 2. The permit currently contains at least one periodic monitoring requirement. <i>If the responses to Questions XI.K.1 and XI.K.2 are both "NO," go to Section XI.L.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆ 3. All periodic monitoring requirements are being removed from the permit with this application.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
L. Compliance Assurance Monitoring	
◆ 1. The application area includes at least one unit that does not meet the CAM exemptions in 40 CFR § 64.2(b) for all applicable requirements that it is subject to, and the unit has a pre-control device potential to emit greater than or equal to the amount in tons per year required in a site classified as a major source. <i>If the response to Question XI.L.1 is "NO," go to Section XI.M.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

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XI. Miscellaneous (continued)

L. Compliance Assurance Monitoring (continued)

◆	2.	The unit or units defined by XI.L.1 are using a control device to comply with an applicable requirement. <i>If the response to Question XI.L.2 is "NO," go to Section XI.M.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	3.	The permit holder has submitted a CAM proposal on Form OP-MON in a previous application.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	4.	The owner/operator or permit holder is submitting a CAM proposal on Form OP-MON according to the deadlines for submittals in 40 CFR § 64.5 in this application. <i>If the responses to Questions XI.L.3 and XI.L.4 are both "NO," go to Section XI.M.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
	5.	The owner/operator or permit holder is submitting a CAM implementation plan and schedule to be incorporated as enforceable conditions in the permit.	<input type="checkbox"/> YES <input type="checkbox"/> NO
	6.	Provide the unit identification numbers for the units for which the applicant is submitting a CAM implementation plan and schedule in the space below.	
◆	7.	At least one unit defined by XI.L.1 and XI.L.2 is using a CEMS, COMS or PEMS meeting the requirements of 40 CFR § 64.3(d)(2).	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	8.	All units defined by XI.L.1 and XI.L.2 are using a CEMS, COMS or PEMS meeting the requirements of 40 CFR § 64.3(d)(2). <i>If the response to Question XI.L.8 is "YES," go to Section XI.M.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	9.	The CAM proposal as described by question XI.L.3 or XI.L.4 addresses particulate matter or opacity.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	10.	The CAM proposal as described by question XI.L.3 or XI.L.4 addresses VOC.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	11.	The control device in the CAM proposal as described by question XI.L.3 or XI.L.4 has a bypass.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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XI. Miscellaneous (continued)	
M. Title 30 TAC Chapter 113, Subchapter D, Division 5 - Emission Guidelines and Compliance Times	
◆ 1. The application area includes at least one air curtain incinerator that commenced construction on or before December 9, 2004. <i>If the response to Question XI.M.1 is "NO," or "N/A," go to Section XII.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆ 2. All air curtain incinerators constructed on or before December 9, 2004 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.	<input type="checkbox"/> YES <input type="checkbox"/> NO
XII. New Source Review (NSR) Authorizations	
A. Waste Permits with Air Addendum	
◆ 1. The application area includes a Municipal Solid Waste Permit or an Industrial Hazardous Waste with an Air Addendum. <i>If the response to XII.A.1 is "YES," include the waste permit numbers and issuance date in Section XII.J.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
B. Air Quality Standard Permits	
◆ 1. The application area includes at least one Air Quality Standard Permit NSR authorization. <i>If the response to XII.B.1 is "NO," go to Section XII.C. If the response to XII.B.1 is "YES," be sure to include the standard permit's registration numbers in Section XII.H, and answer XII.B.2 - B.16 as appropriate.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆ 2. The application area includes at least one "State Pollution Control Project" Air Quality Standard Permit NSR authorization under 30 TAC § 116.617.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 3. The application area includes at least one non-rule Air Quality Standard Permit for Pollution Control Projects NSR authorization.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 4. The application area includes at least one "Installation and/or Modification of Oil and Gas Facilities" Air Quality Standard Permit NSR authorization under 30 TAC § 116.620.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 5. The application area includes at least one non-rule Air Quality Standard Permit for Oil and Gas Handling and Production Facilities NSR authorization.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 6. The application area includes at least one "Municipal Solid Waste Landfill" Air Quality Standard Permit NSR authorization under 30 TAC § 116.621.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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XII. New Source Review (NSR) Authorizations (continued)

B. Air Quality Standard Permits (continued)

◆	7.	The application area includes at least one "Municipal Solid Waste Landfill Facilities and Transfer Stations" Standard Permit authorization under 30 TAC Chapter 330, Subchapter U.	<input type="checkbox"/> YES <input type="checkbox"/> NO
	8.	The application area includes at least one "Concrete Batch Plant" Air Quality Standard Permit NSR authorization.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	9.	The application area includes at least one "Concrete Batch Plant with Enhanced Controls" Air Quality Standard Permit NSR authorization.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	10.	The application area includes at least one "Hot Mix Asphalt Plant" Air Quality Standard Permit NSR authorization.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	11.	The application area includes at least one "Rock Crusher" Air Quality Standard Permit NSR authorization.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	12.	The application area includes at least one "Electric Generating Unit" Air Quality Standard Permit NSR authorization. <i>If the response to XII.B.12 is "NO," go to Question XII.B.15.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	13.	For purposes of "Electric Generating Unit" Air Quality Standard Permit, the application area is located in the East Texas Region.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	14.	For purposes of "Electric Generating Unit" Air Quality Standard Permit, the application area is located in the West Texas Region.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	15.	The application area includes at least one "Boiler" Air Quality Standard Permit NSR authorization.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	16.	The application area includes at least one "Sawmill" Air Quality Standard Permit NSR authorization.	<input type="checkbox"/> YES <input type="checkbox"/> NO
C. Flexible Permits			
	1.	The application area includes at least one Flexible Permit NSR authorization.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
D. Multiple Plant Permits			
	1.	The application area includes at least one Multi-Plant Permit NSR authorization.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

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XII. NSR Authorizations (Attach additional sheets if necessary for sections E-J)			
◆ E. PSD Permits and PSD Major Pollutants			
PSD Permit No.: PSDTX1426	Issuance Date: 04/09/19	Pollutant(s): VOC, NO _x , CO, PM, PM ₁₀ , PM _{2.5}	
PSD Permit No.: GHGPSDTX114	Issuance Date: 02/20/19	Pollutant(s): GHG	
PSD Permit No.:	Issuance Date:	Pollutant(s):	
PSD Permit No.:	Issuance Date:	Pollutant(s):	
<i>If PSD Permits are held for the application area, please complete the Major NSR Summary Table located under the Technical Forms heading at: www.tceq.texas.gov/permitting/air/titlev/site/site_experts.html.</i>			
◆ F. Nonattainment (NA) Permits and NA Major Pollutants			
NA Permit No.:	Issuance Date:	Pollutant(s):	
NA Permit No.:	Issuance Date:	Pollutant(s):	
NA Permit No.:	Issuance Date:	Pollutant(s):	
NA Permit No.:	Issuance Date:	Pollutant(s):	
<i>If NA Permits are held for the application area, please complete the Major NSR Summary Table located under the Technical Forms heading at: www.tceq.texas.gov/permitting/air/titlev/site/site_experts.html.</i>			
◆ G. NSR Authorizations with FCAA § 112(g) Requirements			
NSR Permit No.: 122353	Issuance Date: 04/09/19	NSR Permit No.:	Issuance Date:
NSR Permit No.:	Issuance Date:	NSR Permit No.:	Issuance Date:
NSR Permit No.:	Issuance Date:	NSR Permit No.:	Issuance Date:
NSR Permit No.:	Issuance Date:	NSR Permit No.:	Issuance Date:
◆ H. Title 30 TAC Chapter 116 Permits, Special Permits, Standard Permits, Other Authorizations (Other Than Permits By Rule, PSD Permits, NA Permits) for the Application Area			
Authorization No.:	Issuance Date:	Authorization No.:	Issuance Date:
Authorization No.:	Issuance Date:	Authorization No.:	Issuance Date:
Authorization No.:	Issuance Date:	Authorization No.:	Issuance Date:
Authorization No.:	Issuance Date:	Authorization No.:	Issuance Date:

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XII. NSR Authorizations (Attach additional sheets if necessary for sections E-J)

◆ **I. Permits by Rule (30 TAC Chapter 106) for the Application Area**

A list of selected Permits by Rule (previously referred to as standard exemptions) that are required to be listed in the FOP application is available in the instructions.

PBR No.: 106.261	Version No./Date: 11/01/2003
PBR No.: 106.262	Version No./Date: 11/01/2003
PBR No.: 106.263	Version No./Date: 11/01/2001
PBR No.: 106.264	Version No./Date: 09/04/2000
PBR No.: 106.373	Version No./Date: 09/04/2000
PBR No.: 106.472	Version No./Date: 09/04/2000
PBR No.: 106.473	Version No./Date: 09/04/2000
PBR No.: 106.476	Version No./Date: 09/04/2000
PBR No.: 106.478	Version No./Date: 09/04/2000
PBR No.: 106.511	Version No./Date: 09/04/2000
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:

◆ **J. Municipal Solid Waste and Industrial Hazardous Waste Permits With an Air Addendum**

Permit No.:	Issuance Date:
Permit No.:	Issuance Date:
Permit No.:	Issuance Date:
Permit No.:	Issuance Date:



Texas Commission on Environmental Quality
Form OP-REQ2
Negative Applicable Requirement Determinations
Federal Operating Permit Program

Date:	07/16/2019	Regulated Entity No:	RN109845768	Permit No.:	TBD
Company Name:	Bayport Polymers, LLC	Area Name:	Ethane Cracker		

Unit AI	Revision No.	Unit/Group/Process		Potentially Applicable Regulatory Name	Negative Applicability Citation	Negative Applicability Reason
		ID No.	Applicable Form			
		X-3401	OP-REQ2	40 CFR 63 Subpart Q	63.400(a)	Cooling tower does not use any chromium based water treatment chemicals
		SCFUG	OP-UA12	NESHAPS J	63.11100(g)(4)	Equipment subject to NESHAPS J and MACT YY is required to comply only with MACT YY
		SCFUG	OP-UA12	NESHAPS V	63.11100(g)(4)	Equipment subject to NESHAPS V and MACT YY is required to comply only with MACT YY
		XF4601VENT	OP-UA15	40 CFR Part 60, Subpart NNN	63.11100(g)(2)(ii)	Process vents from distillation units subject to 40 CFR 60 Subpart NNN and 40 CFR 63 Subpart YY are required to comply only with the requirements of Subpart YY.
		XF4601VENT	OP-UA15	40 CFR Part 60, Subpart RRR	63.11100(g)(2)(ii)	Process vents from reactors subject to 40 CFR 60 Subpart RRR and 40 CFR 63 Subpart YY are required to comply only with the requirements of Subpart YY.
		X3800VENT	OP-UA15	40 CFR Part 60, Subpart NNN	63.11100(g)(2)(ii)	Process vents from distillation units subject to 40 CFR 60 Subpart NNN and 40 CFR 63 Subpart YY are required to comply only with the requirements of Subpart YY.



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Date:	07/16/2019	Regulated Entity No:	RN109845768	Permit No.:	TBD
Company Name:	Bayport Polymers, LLC	Area Name:	Ethane Cracker		

Unit AI	Revision No.	Unit/Group/Process		Potentially Applicable Regulatory Name	Negative Applicability Citation	Negative Applicability Reason
		ID No.	Applicable Form			
		X3800VENT	OP-UA15	40 CFR Part 60, Subpart RRR	63.1100(g)(2)(ii)	Process vents from reactors subject to 40 CFR 60 Subpart RRR and 40 CFR 63 Subpart YY are required to comply only with the requirements of Subpart YY.
		GRP-FURNCAP	OP-UA5	MACT DDDDD	§63.7491(f)	Ethylene cracking furnace covered by 40 CFR part 63, subpart YY is not subject to DDDDD.
		GRP-FURNCAP	OP-UA5	Chapter 117	§117.103(a)(1) §117.105(a)(3)	The heaters are new units placed into service after November 15, 1992 and is not considered a functionally identical replacement.
		X-3800	OP-REQ2	Chapter 117	§117.103(a)(1) §117.105(a)(3)	The vapor combustor is a new unit placed into service after November 15, 1992 and is not considered a functionally identical replacement.
		EMERGEN	OP-UA2	Chapter 117	§117.103(a)(1) §117.105(a)(3)	The diesel engine is a new unit placed into service after November 15, 1992 and is not considered a functionally identical replacement.
		GENERATOR	OP-UA2	Chapter 117	§117.103(a)(1) §117.105(a)(3)	The diesel engine is a new unit placed into service after November 15, 1992 and is not considered a functionally identical replacement.
		T-5655	OP-UA3	40 CFR 60, Subpart Kb	60.110b(b)	Storage vessel storing a volatile liquid with a true vapor pressure less than 3.5 kilopascals (kPa).
		T-1221A	O-UA3	40 CFR 60, Subpart Kb	60.110b(b)	Storage vessel storing a volatile liquid with a true vapor pressure less than 3.5 kilopascals (kPa).



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Date:	07/16/2019	Regulated Entity No:	RN109845768	Permit No.:	TBD
Company Name:	Bayport Polymers, LLC	Area Name:	Ethane Cracker		

Unit AI	Revision No.	Unit/Group/Process		Potentially Applicable Regulatory Name	Negative Applicability Citation	Negative Applicability Reason
		ID No.	Applicable Form			
		T-1221B	O-UA3	40 CFR 60, Subpart Kb	60.110b(b)	Storage vessel storing a volatile liquid with a true vapor pressure less than 3.5 kilopascals (kPa).
		T-5660	O-UA3	40 CFR 60, Subpart Kb	§60.110b(b)	Storage tank has a capacity less than 39,900 gallons and stores a volatile liquid with a true vapor pressure less than 3.5 kilopascals (kPa).
		V-1290	O-UA3	40 CFR 60, Subpart Kb	§60.110b(a)	Storage vessel has a capacity less than 19,800 gallons.
		T-1210	O-UA3	40 CFR 60, Subpart Kb	60.110b(b)	Storage vessel storing a volatile liquid with a true vapor pressure less than 3.5 kilopascals (kPa).
		T-5672	O-UA3	40 CFR 60, Subpart Kb	60.110b(b)	Storage vessel storing a volatile liquid with a true vapor pressure less than 3.5 kilopascals (kPa).
		V-5652	O-UA3	40 CFR 60, Subpart Kb	§60.110b(a)	Storage vessel has a capacity less than 19,800 gallons.
		V-5651	O-UA3	40 CFR 60, Subpart Kb	§60.110b(a)	Storage vessel has a capacity less than 19,800 gallons.



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 Federal Operating Permit Program

Date:	07/16/2019	Regulated Entity No:	RN109845768	Permit No.:	TBD
Company Name:	Bayport Polymers, LLC	Area Name:	Ethane Cracker		

Unit AI	Revision No.	Unit/Group/Process		Potentially Applicable Regulatory Name	Negative Applicable Citation	Negative Applicability Reason
		ID No.	Applicable Form			
		V-5652	OP-REQ2	40 CFR 63, Subpart YY	§63.1103(e)(3)	The maximum true vapor pressure of total organic HAP stored is less than 3.4 kilopascals (kPa).
		V-5651	OP-REQ2	40 CFR 63, Subpart YY	§63.1103(e)(3)	The maximum true vapor pressure of total organic HAP stored is less than 3.4 kilopascals (kPa).
		T-5655	OP-REQ2	40 CFR 63, Subpart YY	§63.1103(e)(3)	The maximum true vapor pressure of total organic HAP stored is less than 3.4 kilopascals (kPa).
		T-5660	OP-REQ2	40 CFR 63, Subpart YY	§63.1103(e)(3)	The maximum true vapor pressure of total organic HAP stored is less than 3.4 kilopascals (kPa).
		T-1202	OP-REQ2	40 CFR 63, Subpart YY	§63.1103(e)(3)	The maximum true vapor pressure of total organic HAP stored is less than 3.4 kilopascals (kPa).
		V-1291	OP-REQ2	40 CFR 63, Subpart YY	§63.1103(e)(2)	Storage vessel does not store an organic hap as listed in Table 1 to subpart XX.
		T-1221A	OP-REQ2	40 CFR 63, Subpart YY	§63.1103(e)(3)	The maximum true vapor pressure of total organic HAP stored is less than 3.4 kilopascals (kPa).



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Negative Applicable Requirement Determinations
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Date:	07/16/2019	Regulated Entity No:	RN109845768	Permit No.:	TBD
Company Name:	Bayport Polymers, LLC	Area Name:	Ethane Cracker		

Unit AI	Revision No.	Unit/Group/Process		Potentially Applicable Regulatory Name	Negative Applicability Citation	Negative Applicability Reason
		ID No.	Applicable Form			
		T-1221B	OP-REQ2	40 CFR 63, Subpart YY	§63.1103(e)(3)	The maximum true vapor pressure of total organic HAP stored is less than 3.4 kilopascals (kPa).
		V-1290	OP-REQ2	40 CFR 63, Subpart YY	§63.1103(e)(2)	Storage vessel does not store an organic hap as listed in Table 1 to subpart XX.
		T-1210	OP-REQ2	40 CFR 63, Subpart YY	§63.1103(e)(3)	The maximum true vapor pressure of total organic HAP stored is less than 3.4 kilopascals (kPa).



Applicable Requirements Summary
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Table 1a: Additions

Date:	7/16/2019	Regulated Entity No.:	RN109845768	Permit No.:	TBD
Company Name:	Bayport Polymers, LLC	Area Name:	Ethane Cracker		

Revision No.	Unit/Group/Process		Applicable Form	SOP/GOP Index No.	Pollutant	Applicable Regulatory Requirement	
	ID No.	Name				Name	Standard(s)
	X3800VENT		OP-UA15	RS121-2	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.121(a)(1) § 115.122(a)(1) § 115.122(e)(1)(B)
	XF4601VENT		OP-UA15	RS121-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.123(a)(1) § 115.910
	EMERGEN		OP-UA2	63ZZZZ-1	HAP	40 CFR Part 63, Subpart ZZZZ	§63.6590(b)(1), §63.6595(e), §63.6640(f)(1), §63.6640(f)(2), §63.6640(f)(2)(i), §63.6640(f)(3)
	EMERGEN		OP-UA2	60III-1	CO	40 CFR Part 60, Subpart III	§60.4205(b), §60.4202(a)(2), §60.4206, §60.4207(b), §60.4211(e), §60.4211(c), §60.4211(f), §60.4218, §89.112(e)
	EMERGEN		OP-UA2	60III-1	NMHC and NOx	40 CFR Part 60, Subpart III	§60.4205(b), §60.4202(a)(2), §60.4206, §60.4207(b), §60.4211(e), §60.4211(c), §60.4211(f), §60.4218, §89.112(e)



Applicable Requirements Summary
Form OP-REQ3 (Page 1)
Federal Operating Permit Program

Table 1a: Additions

Date:	7/16/2019	Regulated Entity No.:	RN109845768	Permit No.:	TBD
Company Name:	Bayport Polymers, LLC	Area Name:	Ethane Cracker		

Revision No.	Unit/Group/Process		Applicable Form	SOP/GOP Index No.	Pollutant	Applicable Regulatory Requirement	
	ID No.	Name				Name	Standard(s)
	EMERGEN	OP-UA2	60III-1	PM (Opacity)	40 CFR Part 60, Subpart III		§60.4205(b), §60.4202(a)(2), §60.4206, §60.4207(b), §60.4211(a), §60.4211(c), §60.4211(f), §60.4218, §89.112(a)(1), §89.112(a)(2), §89.112(a)(3)
	EMERGEN	OP-UA2	60III-1	PM	40 CFR Part 60, Subpart III		§60.4205(b), §60.4202(a)(2), §60.4206, §60.4207(b), §60.4211(a), §60.4211(c), §60.4211(f), §60.4218, §89.112(a)
	GENERATOR	OP-UA2	63ZZZZ-1	HAP	40 CFR Part 63, Subpart ZZZZ		§63.6590(b)(1), §63.6595(c), §63.6640(f)(1), §63.6640(f)(2), §63.6640(f)(3)
	GENERATOR	OP-UA2	60III-1	CO	40 CFR Part 60, Subpart III		§60.4205(b), §60.4202(a)(2), §60.4206, §60.4207(b), §60.4211(a), §60.4211(c), §60.4211(f), §60.4218, §89.112(a)
	GENERATOR	OP-UA2	60III-1	NMHC and NOx	40 CFR Part 60, Subpart III		§60.4205(b), §60.4202(a)(2), §60.4206, §60.4207(b), §60.4211(a), §60.4211(c), §60.4211(f), §60.4218, §89.112(a)



Applicable Requirements Summary
Form OP-REQ3 (Page 1)
Federal Operating Permit Program

Table 1a: Additions

Date:	7/16/2019	Regulated Entity No.:	RN109845768	Permit No.:	TBD
Company Name:	Bayport Polymers, LLC	Area Name:	Ethane Cracker		

Revision No.	Unit/Group/Process		Applicable Form	SOP/GOP Index No.	Pollutant	Name	Standard(s)
	ID No.						
	GENERATOR		OP-UJA2	60III-1	PM (Opacity)	40 CFR Part 60, Subpart III	§60.4205(b), §60.4202(a)(2), §60.4206, §60.4207(b), §60.4211(a), §60.4211(c), §60.4211(f), §60.4218, §89.113(a)(1), §89.113(a)(2), §89.113(a)(3)
	GENERATOR		OP-UJA2	60III-1	PM	40 CFR Part 60, Subpart III	§60.4205(b), §60.4202(a)(2), §60.4206, §60.4207(b), §60.4211(a), §60.4211(c), §60.4211(f), §60.4218, §89.112(a)
	UNLOAD		OP-UJA4	RS211-1	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§115.217(a)(1) §115.212(a)(2) §115.214(a)(1)(B) §115.214(a)(1)(D) §115.214(a)(1)(D)(i)
	LOAD		OP-UJA4	RS211-2	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§115.217(a)(2)(A) [G]§115.212(a)(7) §115.214(a)(1)(B) §115.214(a)(1)(D) §115.214(a)(1)(D)(i)
	LOAD		OP-UJA4	RS211-3	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§115.212(a)(1) §115.212(a)(3)(B) [G]§115.212(a)(3)(C), (a)(3)(E) §115.214(a)(1)(B), (a)(1)(C) §115.212(a)(3)(A) §115.212(a)(3)(A)(ii) §115.212(a)(1)(A)



Applicable Requirements Summary
Form OP-REQ3 (Page 1)
Federal Operating Permit Program

Table 1a: Additions

Date:	7/16/2019	Regulated Entity No.:	RN109845768	Permit No.:	TBD
Company Name:	Bayport Polymers, LLC	Area Name:	Ethane Cracker		

Revision No.	Unit/Group/Process		Applicable Form	SOP/GOP Index No.	Pollutant	Name	Standard(s)
	ID No.						
	LOAD	OP-UA4	OP-UA4	R5211-4	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§115.212(a)(1) §115.212(a)(3)(B) [G]§115.212(a)(3)(C), (a)(3)(E) §115.214(a)(1)(B), (a)(1)(C) §115.212(a)(3)(A) §115.212(a)(3)(A)(ii) §115.212(a)(1)(A)
	XF-4601	OP-UA7	OP-UA7	60A-1	OPACITY	40 CFR Part 60, Subpart A	§ 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(i) § 60.18(c)(4)(i) § 60.18(c)(6) § 60.18(e)
	XF-4601	OP-UA7	OP-UA7	60A-2	OPACITY	40 CFR Part 60, Subpart A	§ 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(i) § 60.18(c)(4)(iii) § 60.18(c)(6) § 60.18(e)
	XF-4601	OP-UA7	OP-UA7	60A-3	OPACITY	40 CFR Part 60, Subpart A	§ 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(4)(ii) § 60.18(c)(6) § 60.18(e)
	XF-4601	OP-UA7	OP-UA7	63A-1	OPACITY	40 CFR Part 63, Subpart A	§ 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(ii) § 63.11(b)(7)(i)



Applicable Requirements Summary
Form OP-REQ3 (Page 1)
Federal Operating Permit Program

Table 1a: Additions

Date:	7/16/2019	Regulated Entity No.:	RN109845768	Permit No.:	TBD
Company Name:	Bayport Polymers, LLC	Area Name:	Ethane Cracker		

Revision No.	Unit/Group/Process		Applicable Form	SOP/GOP Index No.	Pollutant	Name	Standard(s)
	ID No.						
	XF-4601	OP-UA7	OP-UA7	63A-02	OPACITY	40 CFR Part 63, Subpart A	§ 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(i) § 63.11(b)(7)(iii)
	XF-4601	OP-UA7	OP-UA7	63A-03	OPACITY	40 CFR Part 63, Subpart A	§ 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(i) § 63.11(b)(7)(iii)
	XF-4601	OP-UA7	OP-UA7	R1111-01	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(e)(4)(A)
	SMALLTK	OP-UA3	OP-UA3	R5121-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(e)(1)
	GRP-FURNCAP	OP-UA15	OP-UA15	RJ111-2	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(e)(1)(C) § 111.111(e)(1)(E)
	T-5655	OP-UA3	OP-UA3	R5112-2	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(e)(1)
	T-5660	OP-UA3	OP-UA3	R5112-3	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(e)(1)



Applicable Requirements Summary
Form OP-REQ3 (Page 1)
Federal Operating Permit Program

Table 1a: Additions

Date:	7/16/2019	Regulated Entity No.:	RNI09845768
Company Name:	Bayport Polymers, LLC	Area Name:	Ethane Cracker
		Permit No.:	TBD

Revision No.	Unit/Group/Process		Applicable Form	SOP/GOP Index No.	Pollutant	Applicable Regulatory Requirement	
	ID No.					Name	Standard(s)
	T-1202		OP-UA3	R5112-2	VOC	30 TAC Chapter 115, Storage of VOCs	§115.111(a)(1)
	T-1221A		OP-UA3	R5112-2	VOC	30 TAC Chapter 115, Storage of VOCs	§115.111(a)(1)
	T-1221B		OP-UA3	R5112-2	VOC	30 TAC Chapter 115, Storage of VOCs	§115.111(a)(1)
	V-1290		OP-UA3	R5112-4	VOC	30 TAC Chapter 115, Storage of VOCs	§115.111(a)(1)
	T-1210		OP-UA3	R5112-4	VOC	30 TAC Chapter 115, Storage of VOCs	§115.111(a)(1)
	T-5672		OP-UA3	R5112-5	VOC	30 TAC Chapter 115, Storage of VOCs	§115.112(a)(1), §115.112(a)(3)
	V-5652		OP-UA3	R5112-4	VOC	30 TAC Chapter 115, Storage of VOCs	§115.111(a)(1)
	V-5651		OP-UA3	R5112-4	VOC	30 TAC Chapter 115, Storage of VOCs	§115.111(a)(1)
	T-1202		OP-UA3	60Kb-1	VOC	40 CFR Part 60, Subpart Kb	§60.110b(a)



Applicable Requirements Summary
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 Federal Operating Permit Program

Table 1a: Additions

Date:	7/16/2019	Regulated Entity No.:	RNI09845768	Permit No.:	TBD
Company Name:	Bayport Polymers, LLC	Area Name:	Ethane Cracker		

Revision No.	Unit/Group/Process		Applicable Form	SOP/GOP Index No.	Pollutant	Name	Standard(s)
	ID No.						
	Z-5671		OP-UA14	RS131-1	VOC	30 TAC Chapter 115, Water Separation	§115.132(a)(3) §115.131(a)
	XT-5672		OP-UA14	RS131-1	VOC	30 TAC Chapter 115, Water Separation	§115.132(a)(3) §115.131(a)



Applicable Requirements Summary
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Federal Operating Permit Program

Table 1b: Additions

Date: 7/16/2019	Regulated Entity No.: RN109845768	Permit No.: TBD
Company Name: Bayport Polymers, LLC	Area Name: Ethane Cracker	

Revision No.	Unit/Group/Process		SOP/GOP Index No.	Pollutant	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
	ID No.						
	X3800VENT	R5121-2	VOC	[G]§ 115.125 § 115.126(1) § 115.126(1)(C) § 115.126(2)	§ 115.126 § 115.126(1) § 115.126(1)(C) § 115.126(2)	None	
	XE4601VENT	R5121-1	VOC	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2)	None	
	EMERGEN	63ZZZZ-1	HAP	None	None	§ 63.6645(c), § 63.6645(f)	
	EMERGEN	60III-1	CO	None	None	§ 60.4214(d)	
	EMERGEN	60III-1	NMHC and NOx	None	None	§ 60.4214(d)	



Applicable Requirements Summary
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Table 1b: Additions

Date:	7/16/2019	Regulated Entity No.:	RN109845768	Permit No.:	TBD
Company Name:	Bayport Polymers, LLC	Area Name:	Ethane Cracker		

Revision No.	Unit/Group/Process		SOP/GOP Index No.	Pollutant	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
	ID No.						
	EMERGEN		60III-1	PM (Opacity)	None	None	\$60.4214(d)
	EMERGEN		60III-1	PM	None	None	\$60.4214(d)
	GENERATOR		63ZZZZ-1	HAP	None	None	\$63.6645(c), \$63.6645(f)
	GENERATOR		60III-1	CO	None	None	\$60.4214(d)
	GENERATOR		60III-1	NMHC and NOx	None	None	\$60.4214(d)



Applicable Requirements Summary
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Federal Operating Permit Program

Table 1b: Additions

Date:	7/16/2019	Regulated Entity No.:	RN109845768	Permit No.:	TBD
Company Name:	Bayport Polymers, LLC	Area Name:	Ethane Cracker		

Revision No.	Unit/Group/Process		SOP/GOP Index No.	Pollutant	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
	ID No.						
	GENERATOR		60III-1	PM (Opacity)	None	None	\$60.4214(d)
	GENERATOR		60III-1	PM	None	None	\$60.4214(d)
	UNLOAD		R5211-1	VOC	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
	LOAD		R5211-2	VOC	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215, (4)	§ 115.216 § 115.216(2) § 115.216(3)(B), (3)(D)	
	LOAD		R5211-3	VOC	§ 115.212(a)(3)(B) § 115.214(a)(1)(A) § 115.214(a)(1)(A)(i)-(iii) § 115.215, (1), (G)(2), (4), (9), (10) § 115.216(1) § 115.216(1)(A), (1)(A)(iii)	§ 115.216, (2), (3)(A), (3)(A)(i) § 115.216(3)(A)(i), (3)(A)(iii) § 115.216(3)(B) § 115.216(1) § 115.216(1)(A), (1)(A)(iii)	



Applicable Requirements Summary
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Federal Operating Permit Program

Table 1b: Additions

Date:	7/16/2019	Regulated Entity No.:	RN109845768	Permit No.:	TBD
Company Name:	Bayport Polymers, LLC	Area Name:	Ethane Cracker		

Revision No.	Unit/Group/Process		SOP/GOP Index No.	Pollutant	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
	ID No.						
	LOAD		RS211-4	VOC	§ 115.212(a)(3)(B) § 115.214(a)(1)(A) § 115.214(a)(1)(A)(i)-(iii) § 115.215, (1), (C)(2), (4), (9), (10)	§ 115.216 (2), (3)(A), (3)(A)(i) § 115.216(3)(A)(ii), (3)(A)(iii) § 115.216(3)(B) § 115.216(1) § 115.216(1)(e)	
	XF-4601		60A-1	OPACITY	§ 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4)	None	None
	XF-4601		60A-2	OPACITY	§ 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4) § 60.18(f)(5)	None	None
	XF-4601		60A-3	OPACITY	§ 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4)	None	None
	XF-4601		63A-1	OPACITY	§ 63.11(b)(4) § 63.11(b)(5) § 63.11(b)(7)(c)	None	None



Applicable Requirements Summary
Form OP-REQ3 (Page 2)
Federal Operating Permit Program

Table 1b: Additions

Date:	7/16/2019	Regulated Entity No.:	RN109845768	Permit No.:	TBD
Company Name:	Bayport Polymers, LLC	Area Name:	Ethane Cracker		

Revision No.	Unit/Group/Process		SOP/GOP Index No.	Pollutant	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
	ID No.						
	XF-4601		63A-02	OPACITY	§ 63.11(b)(4) § 63.11(b)(5) § 63.11(b)(7)(i)	None	None
	XF-4601		63A-03	OPACITY	§ 63.11(b)(4) § 63.11(b)(5) § 63.11(b)(7)(i)	None	None
	XF-4601		R1111-01	OPACITY	§ 111.111(e)(4)(A)(i), § 111.111(e)(4)(A)(ii)	§ 111.111(e)(4)(A)(ii)	None
	SMALLTK		RS121-1	VOC	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
	GRP-FURNCAP		R1111-2	OPACITY	[G]§ 111.111(a)(1)(F)	None	None
	T-5655		RS112-2	VOC	[G]§ 115.117	§ 115.118(a)(1), (a)(5), (a)(7), § 115.118(a)(6)(A)	None
	T-5660		RS112-3	VOC	[G]§ 115.117	§ 115.118(a)(1), (a)(5), (a)(7), § 115.118(a)(6)(A)	None



Applicable Requirements Summary
Form OP-REQ3 (Page 2)
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Table 1b: Additions

Date:	7/16/2019	Regulated Entity No.:	RN109845768	Permit No.:	TBD
Company Name:	Bayport Polymers, LLC	Area Name:	Ethane Cracker		

Revision No.	Unit/Group/Process		SOP/GOP Index No.	Pollutant	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
	ID No.						
	T-1202		R5112-2	VOC	[G]§115.117	§115.118(a)(1), (a)(5), (a)(7), §115.118(a)(6)(A)	None
	T-1221A		R5112-2	VOC	[G]§115.117	§115.118(a)(1), (a)(5), (a)(7), §115.118(a)(6)(A)	None
	T-1221B		R5112-2	VOC	[G]§115.117	§115.118(a)(1), (a)(5), (a)(7), §115.118(a)(6)(A)	None
	V-1290		R5112-4	VOC	[G]§115.117	§115.118(a)(1), (a)(5), (a)(7)	None
	T-1210		R5112-4	VOC	[G]§115.117	§115.118(a)(1), (a)(5), (a)(7)	None
	T-5672		R5112-5	VOC	[G]§115.117, §115.115(a), (a)(6), §115.116(a)(1)	§115.118(a)(5), (a)(7), §115.118(a)(4), (a)(4)(F)	None
	V-5652		R5112-4	VOC	[G]§115.117	§115.118(a)(1), (a)(5), (a)(7)	None
	V-5651		R5112-4	VOC	[G]§115.117	§115.118(a)(1), (a)(5), (a)(7)	None
	T-1202		60Kb-1	VOC	§60.116b(a)-(b), §60.116b(c)-(d), §60.116b(e), (e)(1), [G](e)(3)	§60.116b(a)-(b), §60.116b(c)	§60.116b(d)



Applicable Requirements Summary
Form OP-REQ3 (Page 2)
Federal Operating Permit Program

Table 1b: Additions

Date:	7/16/2019	Regulated Entity No.:	RN109845768	Permit No.:	TBD
Company Name:	Bayport Polymers, LLC	Area Name:	Ethane Cracker		

Revision No.	Unit/Group/Process		SOP/GOP Index No.	Pollutant	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
	ID No.						
	Z-5671		R5131-1	VOC	[G]§115.135(a) §115.136(a)(3), (a)(4), §115.136(a)(2)	§115.136(a)(3), (a)(4), §115.136(a)(2)	None
	XI-5672		R5131-1	VOC	[G]§115.135(a) §115.136(a)(3), (a)(4), §115.136(a)(2)	§115.136(a)(3), (a)(4), §115.136(a)(2)	None

Monitoring Requirements
Federal Operating Permit Program

Table 1c: CAM/PM Case-By-Case Additions

II. IDENTIFYING INFORMATION			
A. Account No.:	TBD	B. RN No.:	RNI09845768
D. Permit No.:	TBD	C. CN No.:	CN605458397
G. Company Name:	Bayport Polymers, LLC		
		F. Area Name:	Ethane Cracker
III. UNIT/EMISSION POINT/PROCESS INFORMATION			
A. Revision No.:		B. Unit/EPN/Group/Process ID No.:	XF4601 VENT
		C. Applicable Form:	OP-UA15
III. APPLICABLE REGULATORY REQUIREMENT			
A. Name:	30 TAC Chapter 115, Vent Gas Controls		
C. Pollutant:	VOC	D. Main Standard:	115.123(a)(1)
E. Monitoring Type:	CAM		
G. Deviation Limit:	Absence of pilot flame. If all monitoring devices indicate absence of pilot flame, it should be confirmed visually. If pilot flame is absent, as indicated by both monitoring devices and visual indication, it should be considered a deviation.		
F. Unit Size:	LG		
IV. CONTROL DEVICE INFORMATION			
A. Device ID No.:	XF-4601		
B. Device Type:	FLARE		
V. CAM CASE-BY-CASE			
A. Indicator:	Pilot Flame	B. Minimum Frequency:	Hourly
D. QA/QC Procedures:	Monitor the presence of a flare pilot flame using a thermocouple or other equivalent device to detect the presence of a flame or using an alarm that uses a thermocouple or other equivalent device to detect the absence of a flame.		
E. Verification Procedures:	Each monitoring device shall be accurate to within manufacturer's recommendations. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications or other written procedures that provide an adequate assurance that the device is calibrated accurately.		
F. Representative Data:	Maintain records of events when pilot flame is absent and duration of events.		
VI. PERIODIC MONITORING CASE-BY-CASE			
A. Indicator:		B. Minimum Frequency:	
		C. Averaging Period:	N/A
D. Periodic Monitoring Text:			

Monitoring Requirements
Federal Operating Permit Program

Table 1c: CAM/PM Case-By-Case Additions

I. IDENTIFYING INFORMATION			
A. Account No.:	TBD	B. RN No.:	RN109845768
D. Permit No.:	TBD	C. CN No.:	CN605458397
G. Company Name:	Bayport Polymers, LLC	F. Area Name:	Ethane Cracker
II. UNIT/EMISSION POINT/GROUP/PROCESS INFORMATION			
A. Revision No.:		B. Unit/EPN/Group/Process ID No.:	
		C. Applicable Form:	OP-UA15
III. APPLICABLE REGULATORY REQUIREMENT			
A. Name:	30 TAC Chapter 115, Vent Gas Controls		
C. Pollutant:	VOC	D. Main Standard:	§ 115.121(a)(1), § 115.121(a)(2)
E. Monitoring Type:	CAM	F. Unit Size:	BOTH
G. Deviation Limit:	Combustion Temperature / Exhaust Gas Temperature less than temperature established during last performance test while waste gas is being fed to the unit excluding periods of startup and shutdown.		
IV. CONTROL DEVICE INFORMATION			
A. Device ID No.:	X3800VENT	B. Device Type:	DIRFLM
V. CAM CASE-BY-CASE			
A. Indicator:	Temperature	B. Minimum Frequency:	Hourly
D. QA/QC Procedures:	Each monitoring device shall be accurate to within manufacturer's recommendations. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications or other written procedures that provide an adequate assurance that the device is calibrated accurately.		
E. Verification Procedures:	The Combustion Temperature/Exhaust Temperature shall not be less than the temperature established during performance testing to demonstrate necessary destruction efficiency of VOCs except during startup and shutdown. Maintain records when condition is not met.		
F. Representative Data:	Maintain records of when temperature is not maintained and duration of events.		
VI. PERIODIC MONITORING CASE-BY-CASE			
A. Indicator:		B. Minimum Frequency:	
D. Periodic Monitoring Text:			

SECTION 6 COMPLIANCE CERTIFICATION FORMS

This section contains the following form:

- OP-ACPS, Application Compliance Plan and Schedule

	Compliance Plan -- Future Activity Commitment Statement
	<p>The following OP-ACPS commitments, including associated start and end dates, are listed in the Compliance Schedule section of the form (Part 2, below) and passed at minimum, on the compliance start date, in the associated application system. All associated units and associated activities are listed in the Compliance Schedule section of the form (Part 2, below) and passed at minimum, on the compliance start date, in the associated application system. All associated units and associated activities are listed in the Compliance Schedule section of the form (Part 2, below) and passed at minimum, on the compliance start date, in the associated application system.</p>
	<p>3. If the response to item 2.1 above is "Yes," include the following information in the associated application system:</p>
	<p>3.1. Are there any non-compliance activities that are listed in the Compliance Schedule section of the form (Part 2, below) and passed at minimum, on the compliance start date, in the associated application system?</p>
YES <input type="checkbox"/>	
NO <input type="checkbox"/>	

**Texas Commission on Environmental Quality
Form OP-ACPS
Application Compliance Plan and Schedule**

Date: 07/16/2019	Regulated Entity No.: RN109845768	Permit No.: TBD
Company Name: Bayport Polymers, LLC		Area Name: Ethane Cracker

- Part 1 of this form must be submitted with all initial FOP applications and renewal applications.
- The Responsible Official must use Form OP-CRO1 (Certification by Responsible Official) to certify information contained in this form in accordance with 30 TAC § 122.132(d)(8).

Part 1

A. Compliance Plan — Future Activity Committal Statement	
<p>The <i>Responsible Official</i> commits, utilizing reasonable effort, to the following: As the responsible official it is my intent that all emission units shall continue to be in compliance with all applicable requirements they are currently in compliance with, and all emission units shall be in compliance by the compliance dates with any applicable requirements that become effective during the permit term.</p>	
B. Compliance Certification - Statement for Units in Compliance* (Indicate response by entering an "X" in the appropriate column)	
1. With the exception of those emission units listed in the Compliance Schedule section of this form (Part 2, below), and based, at minimum, on the compliance method specified in the associated applicable requirements, are all emission units addressed in this application in compliance with all their respective applicable requirements as identified in this application?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
2. Are there any non-compliance situations addressed in the Compliance Schedule Section of this form (Part 2)?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
3. If the response to Item B.2, above, is "Yes," indicate the total number of Part 2 attachments included in this submittal. <i>(For reference only)</i>	
<p>* <i>For Site Operating Permits (SOPs), the complete application should be consulted for applicable requirements and their corresponding emission units when assessing compliance status. For General Operating Permits (GOPs), the application documentation, particularly Form OP-REQ1 should be consulted as well as the requirements contained in the appropriate General Permits portion of 30 TAC Chapter 122.</i></p> <p><i>Compliance should be assessed based, at a minimum, on the required monitoring, testing, record keeping, and/or reporting requirements, as appropriate, associated with the applicable requirement in question.</i></p>	

SECTION 7

ALTERNATE METHOD OF CONTROL

This section contains the following information:

- Alternate Method of Control (AMOC) No. 113

Jon Niemann, *Chairman*
Emily Lindley, *Commissioner*
Toby Baker, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

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June 21, 2019

RETURN RECEIPT REQUESTED ####

MRS DIANE CHAMBERLAIN
PRESIDENT MANAGING DIRECTOR
BAYPORT POLYMERS LLC
PO BOX 5010
LA PORTE TX 77572-5010

Re: Alternative Method of Control (AMOC) No. 113
Port Arthur Refinery Ethane Cracker
Multipoint Ground Flare
Regulated Entity Number: RN109845768
Customer Reference Number: CN605458397
Associated Permit Numbers: 122353, GHGPSDTX114, and PSDTX1426

Dear Mrs. Chamberlain:

This correspondence is in response to Bayport Polymers LLC's (Baystar's) December 3, 2018 request for a multipoint ground flare (MPGF) system at the Port Arthur Refinery site, Ethane Cracker project and use an AMOC to comply with applicable requirements of 30 Texas Administrative Code Chapter 115 (see Attachment A).

We understand the MPGF (EPN: XF-4601) is designed to provide safe control of gases vented from normal operations, planned maintenance, startup and shutdowns (MSS), and upsets. We also understand the high-pressure operations of the MPGF will not meet the tip velocity requirements of 40 CFR §60.18 at all times. Based on the review of the information submitted, performance testing demonstrates proper flare operation, cross-lighting, flame stability, smokeless operation, and greater than 98% destruction rate effectiveness (DRE) is expected for the high-pressure stages of the MPGF.

The Texas Commission on Environmental Quality (TCEQ) Executive Director has made a final decision to approve your AMOC request. The conditions upon which the MPGF is approved are attached to this correspondence. Please maintain these conditions along with all related records.

The TCEQ has been delegated authority to enforce the above cited standards and is authorized to approve this AMOC. You are reminded that approval of any AMOC shall not abrogate the Executive Director or Administrator's authority under the Act or in any way prohibit later canceling the AMOC. By copy of this letter we are informing the Environmental Protection Agency, Region 6, of this decision as required by TCEQ's delegation of authority.

This AMOC approval may supersede certain requirements or representations in Permit Nos. 122353, GHGPSDTX114, and PSDTX1426. To ensure effective and consistent enforceability, we request that Baystar incorporate this AMOC into the permits through submittal of alterations no later than 90 days after this approval.

June 21, 2019
Page 2
Mrs. Diane Chamberlain

Re: Permit Numbers: 122353, GHGPSDTX114, and PSDTX1426

If you need further information or have any questions, please contact Ms. Anne Inman, P.E. at (512) 239-1276 or write to the Texas Commission on Environmental Quality, Office of Air, Air Permits Division, MC-163, P.O. Box 13087, Austin, Texas 78711-3087.

Sincerely,



Michael Wilson, P.E., Director
Air Permits Division
Office of Air
Texas Commission on Environmental Quality

Enclosures

cc: Mr. Don Clauson, Environmental Coordinator, Bayport Polymers
Air Section Manager, Region 10 - Beaumont
Rebecca Partee, Manager, Chemical New Source Review Permits Section, Air Permits Division, OA: MC-163

Project Number: 294330

Re: Permit Numbers: 122353, GHGPSDTX114, and PSDTX1426

Attachment A: Potential State and Federal Applicability

30 Texas Administrative Code (TAC) Chapter 115

- Subchapter B: General Volatile Organic Compound Sources
 - Division 2: Vent Gas Control, 115.122
 - Division 3: Water Separation
 - Division 4: Industrial Wastewater
- Subchapter C: Volatile Organic Compound Transfer Operations
 - Division 1: Loading and Unloading Of Volatile Organic Compounds
- Subchapter D: Petroleum Refining, Natural Gas Processing, and Petrochemical Processes.
 - Division 1: Process Unit Turnaround and Vacuum-Producing Systems in Petroleum Refineries
 - Division 3: Fugitive Emission Control in Petroleum Refining, Natural Gas/Gasoline Processing, And Petrochemical Processes in Ozone Nonattainment Areas
- Subchapter F: Miscellaneous Industrial Sources
 - Division 3: Degassing of Storage Tanks, Transport Vessels And Marine Vessels

Standards of Performance for New Stationary Sources (NSPS), 40 Code of Federal Regulations (CFR) Part 60:

- Subpart A, General Provisions.
- Subpart Kb, Volatile Organic Liquid Storage Vessels.
- Subpart VVa, Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry (SOCMI).
- Subpart NNN, VOC Emissions from SOCMI Distillation Operations.
- Subpart RRR, VOC Emissions from SOCME Reactor Processes.

National Emission Standards for Hazardous Air Pollutants (NESHAPs) in 40 CFR Part 61:

- Subpart A, General Provisions.
- Subpart J, Equipment Leaks of Benzene.
- Subpart V, Equipment Leaks.
- Subpart FF, Benzene Waste Operations.

Maximum Achievable Emission Limits (MACT) for NESHAP Sources in 40 CFR Part 63:

- Subpart A, General Provisions.
- Subpart UU, Equipment Leaks – Control Level 2 Standards.
- Subpart XX, Ethylene Manufacturing Process Units: Heat Exchange Systems and Waste Operations.
- Subpart YY, General Maximum Achievable Control Technology (MACT) Standards.
- Subpart EEEE, Organic Liquids Distribution (Non-Gasoline).

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



**Alternative Method of Control (AMOC) Plan
Bayport Polymers, LLC (Baystar)
AMOC No.: AMOC-113
Port Arthur Refinery Ethane Cracker
Multi-Point Ground Flare (MPGF) System
Port Arthur, Jefferson County, Regulated Entity Number: RN109845768**

- A. This AMOC Plan Authorization shall apply at the Bayport Polymers, LLC (Baystar), Port Arthur Refinery located in Port Arthur, Jefferson County. This site is identified by Regulated Entity Number RN109845768. Under Title 30 Texas Administrative Code (TAC) Section 115.910 (§115.910) this plan authorizes a multi-point ground flare (MPGF) system identified as EPN XF-4601. The flare system will be used during emission events such as planned maintenance, start-ups, and shutdowns (MSS), and unplanned emergency and upset situations.
- B. A copy of the AMOC application and the AMOC Plan provisions must be kept on-site or at a centralized location and made available at the request of personnel from the TCEQ or any pollution control agency with jurisdiction. The AMOC application is defined by the application received 5/15/2018 and subsequent supporting documents dated through June 14, 2019.
- C. This authorization is granted under § 115.910 for emissions sources regulated by 30 TAC Chapter 115:

Subchapter B: General Volatile Organic Compound Sources

Division 2: Vent Gas Control

Division 3: Water Separation

Division 4: Industrial Wastewater

Subchapter C: Volatile Organic Compound Transfer Operations

Division 1: Loading and Unloading Of Volatile Organic Compounds

Subchapter D: Petroleum Refining, Natural Gas Processing, and Petrochemical Processes

Division 1: Process Unit Turnaround and Vacuum-Producing Systems in Petroleum Refineries

Division 3: Fugitive Emission Control in Petroleum Refining, Natural Gas/Gasoline Processing, And Petrochemical Processes in Ozone Nonattainment Areas

Subchapter F: Miscellaneous Industrial Sources

Division 3: Degassing of Storage Tanks, Transport Vessels And Marine Vessels

Subchapter H: Highly-Reactive Volatile Organic Compounds

Division 1: Vent Gas Control

Division 2: Cooling Tower Heat Exchange Systems

Division 3: Fugitive Emissions

This AMOC shall apply in lieu of the requirements §§ 115.122(a)(1)-(2), as applicable. Compliance with this AMOC is independent of Baystar's obligation to comply with all other applicable requirements of 30 TAC Chapter 115, TCEQ permits, and applicable state and federal law. The monitoring and testing requirements of 30 TAC Chapter 115 shall continue to apply.

Compliance with the requirements of this plan does not assure compliance with requirements of an applicable New Source Performance Standard, applicable National Emission Standard for Hazardous Air Pollutants, or an Alternative Means of Emission Limitation (AMEL) and does not constitute approval of alternative standards for these regulations.

If an AMEL is granted by the U.S. Environmental Protection Agency (EPA) or federal authorization is provided in regulations, the company shall incorporate AMEL conditions into this AMOC by revision within 90 days if any changes are needed for consistency.

- D. In accordance with § 115.913(c), all representations submitted for this plan, as well as the provisions listed here, become conditions upon which this AMOC Plan is issued. It is unlawful to vary from the emission limits, control requirements, monitoring, testing, reporting or recordkeeping requirements of this Plan.
- E. The flare system EPN XF-4601 is authorized under Permits No. 122353, PSDTX1426, GHGPSDTX114 and subject to this AMOC plan. The flare system uses Zeeco MJ-4 burners controlling MSS and upset activities. When the High Pressure (HP) Vent Header sends waste gas to the MPGF, the burners will exceed the tip velocity portions of §60.18, §63.11, and 30 TAC Chapter 115. In these instances, the Zeeco MJ-4 burners and stages will meet the requirements in paragraph F.

The MPGF system will be 11 stages of burners and a spare stage of burners for a total of 304 burners and 62 spare burners. Operations of the MPGF burners will achieve a reduction in emissions at least equivalent to the reduction in emissions being controlled by a steam-assisted, air-assisted, or non-assisted flare complying with the requirements of §§ 115.122(a)(1)-(2) or 40 CFR 60.18(b).

- F. When the burners exceed the tip velocity requirements of §60.18, §63.11, and 30 TAC Chapter 115, the burners must be operated such that the following are met:
 - 1. **Operating Requirements:** The net heating value of the flare vent gas combustion zone (*NHVcz*) is greater than or equal to 800 British thermal units per standard cubic foot (Btu/scf); or the combustion zone gas lower flammability limit (*LFLcz*) is less than or equal to 6.5 percent by volume.

The owner or operator must demonstrate compliance with the *NHVcz* or *LFLcz* metric by continuously complying with a 15-minute block average. The operator must calculate and monitor for the *NHVcz* or *LFLcz* according to the following:

a. **Calculation of *NHVcz***

- i. If any owner or operator elects to use a monitoring system capable of continuously measuring, calculating, and recording the individual component concentrations present in the flare gas, the net heating value shall be determined using the following equation:

$$NHV_{vg} = \sum_{i=1}^n x_i NHV_i$$

Where: *NHVvg* = Net heating value of flare vent gas, British thermal units per standard cubic foot (Btu/scf). *Flare vent gas* means all gas found just prior to the MPGFs. This gas includes all flare waste gas (*i.e.*, gas from facility operations that is directed to a flare for the purpose of disposing of the gas), flare sweep gas, flare purge gas and flare supplemental gas, but does not include pilot gas.

i = Individual component in flare vent gas.

n = Number of components in flare vent gas.

x_i = Concentration of component i in flare vent gas, volume percent (vol %).

NHV_i = Net heating value of component i determined as the heat of combustion where the net enthalpy per mole of offgas is based on combustion at 25 degrees Celsius ($^{\circ}\text{C}$) and 1 atmosphere (or constant pressure) with water in the gaseous state from values published in the literature, and then the values converted to a volumetric basis using 20 $^{\circ}\text{C}$ for "standard temperature." Table 1 summarizes component properties including net heating values.

- (ii) If the owner or operator uses a continuous net heating value monitor, the owner or operator may, at their discretion, install, operate, calibrate, and maintain a monitoring system capable of continuously measuring, calculating, and recording the hydrogen concentration in the flare vent gas. The owner or operator shall use the following equation to determine NHV_{vg} for each sample measured via the net heating value monitoring system.

$$NHV_{vg} = NHV_{measured} + 938 x_{H_2}$$

Where:

NHV_{vg} = Net heating value of flare vent gas, BTU/scf.

$NHV_{measured}$ = Net heating value of flare vent gas stream as measured by the continuous net heating value monitoring system, BTU/scf.

x_{H_2} = Concentration of hydrogen in flare vent gas at the time the sample was input into the net heating value monitoring system, volume fraction.

938 = Net correction for the measured heating value of hydrogen 1,212-274 BTU/scf.

- (iii) (A) For non-assisted flare burners, $NHV_{vg} = NHV_{cz}$.

- (B) For air-assisted burners, NHV_{cz} should be calculated using the following equation:

$$NHV_{cz} = (Q_{vg} * NHV_{vg} + Q_{ag} * NHV_{ag}) / (Q_{vg} + Q_{ag})$$

Where:

NHV_{cz} = Net heating value of combustion zone gas, BTU/scf.

NHV_{vg} = Net heating value of flare vent gas for the 15-minute block period as determined according to (1)(a)(i), BTU/scf.

Q_{vg} = Cumulative volumetric flow of flare vent gas during the 15-minute block period, scf.

Q_{ag} = Cumulative volumetric flow of assist gas during the 15-minute block period, standard cubic feet flow rate, scf.

NHV_{ag} = Net heating value of assist gas, BTU/scf; this is zero for air or for steam.

- (C) For steam-assisted burners, NHV_{cz} should be calculated using the following equation:

$$NHV_{cz} = (Q_{vg} * NHV_{vg}) / (Q_{vg} + Q_s)$$

Where:

NHVcz = Net heating value of combustion zone gas, BTU/scf.

NHVvg = Net heating value of flare vent gas for the 15-minute block period as determined according to (1)(a)(i), BTU/scf.

Qvg = Cumulative volumetric flow of flare vent gas during the 15-minute block period, scf.

Qs = Cumulative volumetric flow of total assist steam during the 15-minute block period, standard cubic feet flow rate, scf.

b. Calculation of LFLcz

- (i) The owner or operator shall determine LFLcz from compositional analysis data by using the following equation:

$$LFL_{vg} = \frac{1}{\sum_{i=1}^n \left[\frac{\chi_i}{LFL_i} \right]} * 100 \%$$

Where:

LFLvg = Lower flammability limit of flare vent gas, volume percent (vol %)

n = Number of components in the vent gas.

i = Individual component in the vent gas.

χ_i = Concentration of component i in the vent gas, vol %.

LFLi = Lower flammability limit of component i as determined using values published by the U.S. Bureau of Mines (Zabetakis, 1965), vol %. All inerts, including nitrogen, are assumed to have an infinite LFL (e.g., LFLN2 = ∞, so that $\chi_{N2} / LFL_{N2} = 0$). LFL values for common flare vent gas components are provided in Table 1.

- (ii) (A) For non-assisted flare burners, LFLvg = LFLcz.

(B) For steam assisted burners, LFLcz shall be calculated using the following:

$$LFL_{cz} = \frac{LFL_{vg} \times (Q_{vg} + Q_s)}{Q_{vg}}$$

Where:

LFLcz = Lower flammability limit of combustion zone gas (vol %).

LFLvg = Lower flammability limit of flare vent gas (vol %)

Qvg = Cumulative volumetric flow of flare gas vent in scf during the 15-minute block period.

Qs = Cumulative volumetric flow of total assist steam in scf during the 15-minute block period.

c. Calculation of Vtip is not applicable to this MPGF.

d. The operator shall install, operate, calibrate and maintain a monitoring system capable of continuously measuring flare vent gas volumetric flow rate (Qvg) the total assist steam volumetric

flow rate (Q_s), the volumetric flow rate of total assist air (Q_a), and the volumetric flow rate of total assist gas (Q_{ag}), as applicable.

- i. The flow rate monitoring system must be able to correct for the temperature and pressure of the system and output parameters in standard conditions (i.e., a temperature of 20 degrees C (68 ° F) and a pressure of 1 atmosphere).
- ii. Mass flow monitors may be used for determining volumetric flow rate of flare vent gas provided the molecular weight of the flare vent gas is determined using compositional analysis so that the mass flow rate can be converted to volumetric flow at standard conditions using the following equation:

$$Q_{vol} = \frac{Q_{mass} \times 385.3}{MW_t}$$

Where:

Q_{vol} = volumetric flow rate in scf per second (scf/s).

Q_{mass} = mass flow rate in pounds per second (lb/s)

385.3 = conversion factor scf per pound-mole

MW_t = molecular weight of the gas at the flow monitoring location, pounds per pound-mole

- e. The operator shall install, operate, calibrate and maintain a monitoring system capable of continuously measuring (i.e., at least once every 15-minutes) temperature consistent with the applicable requirements in 30 TAC Chapter 115 for purposes of correcting flow rate to standard conditions. The monitor must meet the accuracy and calibration specifications annually.

For each measurement produced by monitoring systems, the operator shall determine the 15-minute block average as the arithmetic average of all measurements made by the monitoring system within the 15-minute period.

- f. The operator must follow the calibration and maintenance procedures according to Table 2.

Monitor downtime associated with maintenance periods, instrument adjustments or checks to maintain precision and accuracy and zero and span adjustments may not exceed 5 percent of the time the flare is receiving regulated material. Calibration and maintenance procedures conducted when the flare is not receiving regulated material are excluded from the monitor downtime calculation.

2. Pilot Flame Requirements:

- a. The MPGF systems shall be operated with a flame present at all times when in use.
- b. Each stage of MPGF burners must have at least two pilots with at least one continuously lit pilot flame.
- c. Each pilot flame must be continuously monitored by a thermocouple or any other equivalent device (such as the video camera required for visible emission monitoring as outlined in 3 below), used to detect the presence of a flame.

- d. The time, date and duration of any complete loss of pilot flame on any stage of burners must be recorded.
- e. Each monitoring device must be maintained or replaced at a frequency in accordance with the manufacturer's specifications.
- f. Flares at refineries must meet the requirements in the Petroleum Refinery MACT (§63.670(b)) in addition to the requirements in this subsection, including:
 - i. Each 15-minute block during which there is at least one minute where no pilot flame is present when regulated material is routed to the flare is a deviation of the standard.
 - ii. Deviations in different 15-minute blocks from the same event are considered separate deviations.

3. Visible Emission Requirements:

- a. When the flare is receiving regulated material, the flare system shall be operated with no visible emissions except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.
- b. A video camera that is capable of continuously recording (*i.e.*, at least one frame every 15 seconds with time and date stamps) images of the flare flame and a reasonable distance above the flare flame at an angle suitable for visible emissions observations must be used to demonstrate compliance with this requirement.
- c. The owner or operator must provide real-time video surveillance camera output to the control room or other continuously manned location where the video camera images may be viewed at any time.

Video camera downtime associated with maintenance periods and camera adjustments may not exceed 5 percent of the time the flare is receiving regulated material. Maintenance and adjustment procedures conducted when the flare is not receiving regulated material are excluded from the video camera downtime calculation.
- d. Flares at refineries shall comply with the requirements of 40 CFR 63.670(h):
 - i. The owner or operator shall conduct an initial visible emissions demonstration using an observation period of 2 hours using Method 22 at 40 CFR part 60, appendix A-7. The initial visible emissions demonstration should be conducted the first time regulated materials are routed to the flare.
 - ii. Subsequent visible emissions observations must be conducted using either the methods in paragraph (h)(1) of this section or, alternatively, the methods in paragraph (h)(2) of this section. The owner or operator must record and report any instances where visible emissions are observed for more than 5 minutes during any 2 consecutive hours as specified in §63.655(g)(11)(ii).
 - iii. Requirements of (h)(1) - At least once per day for each day regulated material is routed to the flare, conduct visible emissions observations using an observation period of 5 minutes using Method 22 at 40 CFR part 60, appendix A-7. If at any time the owner or operator sees visible emissions while regulated material is routed to the flare, even if the minimum required daily visible emission monitoring has already been performed, the owner or operator shall immediately begin an observation period of 5 minutes using Method 22 at 40 CFR part 60,

appendix A-7. If visible emissions are observed for more than one continuous minute during any 5-minute observation period, the observation period using Method 22 at 40 CFR part 60, appendix A-7 must be extended to 2 hours or until 5-minutes of visible emissions are observed. Daily 5-minute Method 22 observations are not required to be conducted for days the flare does not receive any regulated material.

- iv. Requirements of (h)(2) - Use a video surveillance camera to continuously record (at least one frame every 15 seconds with time and date stamps) images of the flare flame and a reasonable distance above the flare flame at an angle suitable for visual emissions observations. The owner or operator must provide real-time video surveillance camera output to the control room or other continuously manned location where the camera images may be viewed at any time.

4. Pressure Monitor Requirements:

- a. The operator of the flare system shall install and operate pressure monitor(s) on the main flare header, and
- b. a valve position indicator monitoring systems for each staging valve to ensure that the flare system operates within the range of tested conditions or within the range of the manufacturer's specifications.
- c. The pressure monitor shall meet the requirements in Table 2.
- d. Monitor downtime associated with maintenance periods, instrument adjustments or checks to maintain precision and accuracy and zero and span adjustments may not exceed 5 percent of the time the flare is receiving regulated material. Calibration and maintenance procedures conducted when the flare is not receiving regulated material are excluded from the monitor downtime calculation.

5. Recordkeeping Requirements: All data must be recorded and maintained for a minimum of five years or for as long as applicable rule subpart(s) specify flare records should be kept, whichever is longer. Records must be maintained onsite and made available upon request by authorized representatives of the executive director, U.S. EPA, and any local air pollution control agency with jurisdiction.

6. Reporting Requirements

- a. The information specified in (b) and (c) below should be reported in the timeline specified by the applicable rules for which the flare system will control emissions.
- b. Owners or operators should include the final operating requirements for each flare in their initial Notification of Compliance (NOC) status report (including but not limited to the items listed in F.6.c.
- c. The owner or operator shall notify the Administrator of periods of excess emissions in their Periodic Reports.
- d. All MPGF shall include the following in their NOC, reports, and records:
 - i. Each 15-minute block during which there was at least one minute when regulated material was routed to the MPGFs and a complete loss of pilot flame on any stage or any individual burner(s) occurred.

- ii. Periods of visible emissions events (including time and date stamp) that exceed more than 5 minutes in any 2 hour consecutive period.
- iii. Each 15-minute block period for which an applicable combustion zone operating limit (*i.e.*, *NHVcz* or *LFLcz*) is not met for the flare system when regulated material is being combusted in the flare. Indicate the date and time for each period, the *NHVcz* and/or *LFLcz* operating parameter for the period, the type of monitoring system used to determine compliance with the operating parameters (*e.g.*, gas chromatograph or calorimeter), and the flare stages which were in use.
- iv. Periods when the pressure monitor(s) on the main flare header show the flare burners are operating outside the range of tested conditions or outside the range of the manufacturer's specifications. Indicate the date and time for each period, the pressure measurement, the stage(s) and number of flare burners affected and the range of tested conditions or manufacturer's specifications.
- v. Periods when the staging valve position indicator monitoring system indicates a stage of the flare system should not be in operation, but is; or when a stage of the MPGF should be in operation, but is not. Indicate the date and time for each period, whether the stage was supposed to be open but was closed or vice versa and the stage(s) and number of flare burners affected.
- vi. Flare systems at refineries shall meet the following additional requirements of §63.655(g)(11)(i)-(iii): Record the 15-minute block periods for which the applicable operating limits specified in F.(1) of this Plan are not met. Indicate the date and time for the period, the net heating value operating parameter(s) determined following the methods in §63.670(k) through (n) as applicable.
- vii. Flare systems at refineries shall include the following records for flaring events meeting the criteria of §63.670(o)(3): the start and stop time and date of the flaring event; the length of time for which emissions were visible from the flare during the event; the periods of time that the flare tip velocity exceeds the maximum flare tip velocity determined using the methods in §63.670(d)(2) and the maximum 15-minute block average flare tip velocity recorded during the event; and results of the root cause and corrective actions analysis completed during the reporting period, including the corrective actions implemented during the reporting period and, if applicable, the implementation schedule for planned corrective actions to be implemented subsequent to the reporting period.

Table 1 — Individual Component Properties

<u>Component</u>	<u>Molecular Formula</u>	<u>MW_i (lb/ lb mol)</u>	<u>NHV_i (Btu/scf)</u>	<u>LFL_i (volume %)</u>
Acetylene	C2H2	26.04	1,404	2.5
Benzene	C6H6	78.11	3,591	1.3
1,2- Butadiene	C4H6	54.09	2,794	2.0
1,3- Butadiene	C4H6	54.09	2,690	2.0
iso-Butane	C4H10	58.12	2,957	1.8
n-Butane	C4H10	58.12	2,968	1.8
cis-Butene	C4H8	56.11	2,830	1.6
iso-Butene	C4H8	56.11	2,928	1.8
trans-Butene	C4H8	56.11	2,826	1.7
Carbon Dioxide	CO2	44.01	0	∞
Carbon Monoxide	CO	28.01	316	12.5
Cyclopropane	C3H6	42.08	2,185	2.4
Ethane	C2H6	30.07	1,595	3.0
Ethylene	C2H4	28.05	1,477	2.7
Hydrogen	H2	2.02	1,212(*)	4.0
Hydrogen Sulfide	H2S	34.08	587	4.0
Methane	CH4	16.04	896	5.0
MethylAcetylene	C3H4	40.06	2,088	1.7
Nitrogen	N2	28.01	0	∞
Oxygen	O2	32.00	0	∞
Pentane+ (C5+)	C5H12	72.15	3,655	1.4
Propadiene	C3H4	40.06	2,066	2.16
Propane	C3H8	44.10	2,281	2.1
Propylene	C3H6	42.08	2,150	2.4
Water	H2O	18.02	0	∞

* The theoretical net heating value for hydrogen is 274 BTU/scf, but for the purposes of the flare requirement, a net heating value of 1,212 BTU/scf shall be used.

Table 2 — Accuracy and Calibration Requirements

<u>Parameter</u>	<u>Accuracy requirements</u>	<u>Calibration requirements</u>
Flare Vent Gas Flow Rate	±20 percent of flow rate at velocities ranging from 0.1 to 1 feet per second. ±5 percent of flow rate at velocities greater than 1 foot per second.	Performance evaluation biennially (every two years) and following any period of more than 24 hours throughout which the flow rate exceeded the maximum rated flow rate of the sensor, or the data recorder was off scale. Conduct monthly AVO fugitive emission monitoring on each connection point. Visual inspections and checks of system operation every 3 months, unless the system has a redundant flow sensor. Select a representative measurement location where swirling flow or abnormal velocity distributions due to upstream and downstream disturbances at the point of measurement are minimized.
Flow Rate for All Flows Other Than Flare Vent Gas	± 5% over normal range of flow measured or 0.5 gal/min whichever greater for liquid flow. ± 5% over normal range of flow measured 10 ft ³ /min, whichever greater for gas flow. ± 5% over normal range measured for mass flow	Conduct a flow sensor calibration check at least biennially (every 2 years); conduct a calibration check following any period of more than 24 hours throughout which the flow rate exceeded the manufacturer's specified maximum rated flow rate or install a new flow sensor. At least quarterly, inspect all components for leakage, unless the continuous parameter monitoring system (CPMS) has a redundant flow sensor. Record the results of each calibration check and inspection. Locate the flow sensor(s) and other necessary equipment (such as straightening vanes) in a position that provides representative flow; reduce swirling flow or abnormal velocity distributions due to upstream and downstream disturbances.
Pressure	±5 percent over the normal range measured or 0.12 kilopascals (0.5 inches of water column), whichever is greater.	Review pressure sensor readings at least once a week for straight-line (unchanging) pressure and perform corrective action to ensure proper pressure sensor operation if blockage is indicated. Performance evaluation annually and following any period of more than 24 hours throughout which the pressure exceeded the maximum rated pressure of the sensor, or the data recorder was off scale. Checks of all mechanical connections for leakage monthly. Visual inspection of all components for integrity, oxidation, and galvanic corrosion every 3 months, unless the system has a redundant pressure sensor. Select a representative measurement location that minimizes or eliminates pulsating pressure, vibration, and internal and external corrosion.
Net Heating Value by Calorimeter	±2 percent of span	Calibration requirements should follow manufacturer's recommendations at a minimum. Temperature control (heated and/or cooled as necessary) the sampling system to ensure proper year-round operation. Where feasible, select a sampling location at least two equivalent diameters downstream from and 0.5 equivalent diameters upstream from the nearest disturbance. Select the sampling location at least two equivalent duct diameters from the nearest control device, point of pollutant generation, air in leakages, or other point at which a change in the pollutant concentration or emission rate occurs.
Net Heating Value by Gas Chromatograph	As specified in Performance Specification 9 of 40 CFR part 60 Appendix B.	Follow the procedure in Performance Specification 9 of 40 CFR Part 60 Appendix B, except that a single daily mid-level calibration check can be used, a triplicate mid-level check weekly, and the multi-point calibration can be conducted quarterly (rather than monthly), and the sampling line temperature must be maintained at a minimum temperature of 60 °C (rather than 120 °C).
Hydrogen Analyzer	± 2% over concentration measured or 0.1 vol% whichever is greater	Specify calibration requirements in your site specific CPMS monitoring plan. Calibration requirements should follow manufacturer's recommendations at a minimum. Specify the sampling location at least 2 equivalent duct diameters from the nearest control device, point of pollutant generation, air in-leakages, or other point at which a change in the pollutant concentration occurs.
ADDITIONAL REQUIREMENTS FOR FLARES AT REFINERIES		
Temperature	±1 percent over the normal range of temperature measured, expressed in degrees Celsius (C), or 2.8 degrees C, whichever is greater	Locate the temperature sensor in a position that provides a representative temperature; shield the temperature sensor system from electromagnetic interference and chemical contaminants. Conduct calibration checks at least annually; conduct calibration checks following any period of more than 24 hours throughout which the temperature exceeded the manufacturer's specified maximum rated temperature or install a new temperature sensor. At least quarterly, inspect all components for integrity and all electrical connections for continuity, oxidation, and galvanic corrosion, unless the CPMS has a redundant temperature sensor. Record the results of each calibration check and inspection.
Pressure	Same as above	Same as above with the following additional requirements: Use an instrument recommended by the sensor's manufacturer for calibration checks. Alternative option for calibration check after period of exceeding specified maximum rated pressure, may install new pressure sensor.
Net Heating Value by Calorimeter	Same as above	Same as above with the following additional requirements: Specify calibration requirements in your site specific CPMS monitoring plan.