



**Texas Commission on Environmental Quality  
Form OP-UA12  
Fugitive Emission Unit Attributes**

**General:**

This form is used to provide a description and data pertaining to all fugitive emission units with potentially applicable requirements associated with a particular regulated entity number and application. Each table number, along with the possibility of a corresponding letter (i.e., Table 1a, Table 1b), corresponds to a certain state or federal rule. If the rule on the table is not potentially applicable to a fugitive emission unit, then it should be left blank and need not be submitted with the application. If the codes entered by the applicant show negative applicability to the rule or sections of that rule represented on the table, then the applicant does not have to complete the remainder of the table(s) that correspond to the rule. Further instruction as to which questions should be answered and which questions should not be answered are located in the “Specific” section of the instruction text. The following is included in this form:

<b>Table 1a - 1j:</b>	<b>Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart KKK: Standards of Performance for Equipment Leaks of VOC from Onshore Natural Gas Processing Plants</b>
<b>Table 2a - 2k:</b>	<b>Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115), Subchapter D: Fugitive Emission Control in Petroleum Refining, Natural Gas/Gasoline Processing, and Petrochemical Processes in Ozone Nonattainment Areas</b>
<b>Table 3a - 3j:</b>	<b>Title 40 Code of Federal Regulations Part 61 (40 CFR Part 61), Subpart V: National Emission Standard for Equipment Leaks (Fugitive Emission Sources)</b>
<b>Table 4a - 4l:</b>	<b>Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart VV: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry</b>
<b>Table 5a - 5h:</b>	<b>Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart DDD: Standards of Performance for Volatile Organic Compound (VOC) Emissions from the Polymer Manufacturing Industry</b>
<b>Table 6:</b>	<b>Title 40 Code of Federal Regulations Part 61 (40 CFR Part 61), Subpart J: National Emission Standard for Equipment Leaks (Fugitive Emission Sources) of Benzene</b>
<b>Table 7a - 7f:</b>	<b>Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115), Subchapter D: Fugitive Emission Control in Petroleum Refineries in Gregg, Nueces, and Victoria Counties</b>
<b>Tables 8a - 8k:</b>	<b>Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart GGG: Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries</b>
<b>Tables 9a - 9g:</b>	<b>Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart H: National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks</b>
<b>Table 10:</b>	<b>Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart I: National Emission Standards for Organic Hazardous Air Pollutants for Certain Processes Subject to the Negotiated Regulation for Equipment Leaks</b>
<b>Tables 11a - 11c:</b>	<b>Title 40 Code of Federal Regulations Part 61 (40 CFR Part 61), Subpart F: National Emission Standard for Vinyl Chloride</b>
<b>Tables 12a - 12f:</b>	<b>Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart CC: National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries</b>

<b>Tables 13a - 13m:</b>	<b>Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart HH: National Emission Standards for Hazardous Air Pollutants from Oil and Natural Gas Production Facilities</b>
<b>Tables 14a - 14m:</b>	<b>Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart U: National Emission Standards for Hazardous Air Pollutant Emissions: Group I Polymers and Resins</b>
<b>Table 15a - 15n:</b>	<b>Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart JJJ: National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins</b>
<b>Tables 16a - 16g:</b>	<b>Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115), Subchapter H: Fugitive Emissions (HRVOC)</b>
<b>Table 17a - 17l:</b>	<b>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</b>

The application area name from Form OP-1 entitled, "Site Information Summary" must appear in the header of each page for the purpose of identification for the initial submittal. The date of the initial form submittal must also be included and should be consistent throughout the application (*MM/DD/YYYY*). Leave the permit number blank for the initial form submittal. If this form is included as part of the permit revision process, enter the permit number assigned by the TCEQ, the area name (from Form OP-1), and the date of the revision submittal.

Unit attribute questions that do not require a response from all applicants are preceded by qualification criteria in the instructions. If the unit does not meet the qualification criteria, a response to the question is not required. Anytime a response is not required based on the qualification criteria, leave the space on the form blank.

Notwithstanding any qualification criteria in the form instructions or information provided in other TCEQ guidance, the applicant may leave an attribute question blank (or indicate "N/A" for "Not Applicable") if the attribute is not needed for the applicable requirement determinations of a regulation for a unit.

In some situations, the applicant has the option of selecting alternate requirements, limitations, and/or practices for a unit. Note that these alternate requirements, limitations, and/or practices must have the required approval from the TCEQ Executive Director and/or the U.S. Environmental Protection Agency Administrator before the federal operating permit application is submitted.

The Texas Commission on Environmental Quality (TCEQ) requires that a Core Data Form be submitted on all incoming registrations unless all of the following are met: the Regulated Entity and Customer Reference Numbers have been issued by the TCEQ and no core data information has changed. The Central Registry, a common record area of the TCEQ, maintains information about TCEQ customers and regulated activities, such as company names, addresses, and telephone numbers. This information is commonly referred to as "core data." The Central Registry provides the regulated community with a central access point within the agency to check core data and make changes when necessary. When core data about a facility is moved to the Central Registry, two new identification numbers are assigned: the Customer Reference (CN) number and the Regulated Entity (RN) number. The Core Data Form is required if facility records are not yet part of the Central Registry or if core data for a facility has changed. If this is the initial registration, permit, or license for a facility site, then the Core Data Form must be completed and submitted with application or registration forms. If amending, modifying, or otherwise updating an existing record for a facility site, the Core Data Form is not required, unless any core data information has changed. To review additional information regarding the Central Registry, go to the TCEQ Web site at [www.tceq.texas.gov/nav/permits](http://www.tceq.texas.gov/nav/permits).

**Specific:**

**Tables 1a - 1j:** Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart KKK: Standards of Performance for Equipment Leaks of VOC from Onshore Natural Gas Processing Plants

- ★ Complete Table 1 only for facilities and equipment located at an onshore natural gas processing plant as defined in 40 CFR § 60.631.

*Note: For more information regarding the definition of “onshore,” refer to the TCEQ Rule Interpretation #60LLL.02 regarding the conditions under which gas sweetening units located in marshes or bays are considered to be part of the territorial seas for purposes of determining applicability of 40 CFR Part 60, Subpart LLL.*

- ★ Complete Table 3 for sources subject to 40 CFR Part 61, Subpart V. Do not complete Table 1.

**Unit ID No.:**

Enter the identification number (ID No.) for the fugitive unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

**SOP/GOP Index No.:**

Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). General operating permit (GOP) applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). For additional information relating to SOP and GOP index numbers please go to the TCEQ Web site at [www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/additional\\_fop\\_guidance.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf).

*Note to GOP Applicants: Use the component types table below and the applicable GOP table to determine the GOP Index Numbers that apply to the fugitive components subject to 40 CFR Part 60, Subpart KKK. Enter the “Unit ID No.” and the applicable GOP Index Numbers on Table 1a. If the component type and/or applicable GOP index number are not included in the component types table below, answer the questions below and enter the “Unit ID No.” and the applicable GOP Index Numbers on Table 1.*

*Note to SOP Applicants: Some fugitive units may have all equipment identified in 40 CFR Part 60, Subpart KKK. Applicants may choose to identify the SOP index number as “60KKK-ALL” in lieu of the corresponding unit attributes information. Use of this index number will imply that all requirements, other than closed vent system and control device requirements, in the regulation apply to the fugitive unit. If closed vent systems and control devices are also used to comply, this information, with identification numbers, must be submitted on the appropriate table of the form. Please note that this index number cannot be used if an alternative has been approved or for GOP applications.*

**Facility Type:**

Select one of the following codes for the type of facility. Enter the code on the form.

Code	Description
GROUP	The group of all equipment within a process unit at an onshore natural gas processing plant
OTHER	The facility is not an affected facility as defined in 40 CFR § 60.630(a)(2) or (a)(3)

- ▼ Continue Only if “Facility Type” is “GROUP.”

**Construction/Modification Date:**

Select one of the following codes that describes the date of commencement of the most recent construction, reconstruction, or modification. Enter the code on the form.

Code	Description
84-	On or before January 20, 1984
84-11	After January 20, 1984 and on or before August 23, 2011
11+	After August 23, 2011

- ▼ Continue Only if “Construction/Modification Date” Is “84-11.”

**Facility Covered by 40 CFR Part 60, Subparts VV Or GGG:**

Enter "YES" if the facility is already covered by 40 CFR Part 60, Subparts VV or GGG. Otherwise, enter "NO."

▼ **Continue Only if "Facility Covered by 40 CFR Part 60, Subparts VV or GGG" is "NO."**

**Title 40 CFR Part 60, Subpart KKK Fugitive Unit Components:**

The columns on Tables 1a through 1i correspond to the types of fugitive unit components addressed in 40 CFR Part 60 Subpart KKK. In the row for each fugitive unit identification number, enter "YES" in a column if the described component(s) are included in the fugitive unit. If no such components are present in the fugitive unit, enter "NO" in the column. Indicate components subject to 40 CFR Part 60, Subpart KKK only. This information will ensure that only the appropriate requirements for each fugitive unit are reflected in the permit. The following table lists the component types.

**Title 40 CFR Part 60, Subpart KKK Fugitive Unit Component Types**

Component Type	Type of Service or Control Device	GOP Index Number
Compressors	Any (Not Reciprocating in Wet Gas Service) ( <i>Table 1a</i> )	511-10-007
	Reciprocating in Wet Gas Service ( <i>Table 1a</i> )	511-10-006
Any Component	Vacuum Service ( <i>Table 1b</i> )	511-10-002
	Non-VOC or Non-wet Gas Service ( <i>Table 1b</i> )	511-10-003
Pumps	Light Liquid Service ( <i>Table 1b</i> )	511-10-004
	Heavy Liquid Service ( <i>Table 1c</i> )	511-10-005
Pressure Relief Devices	Gas/Vapor Service ( <i>Table 1c</i> )	511-10-008
	Light Liquid Service ( <i>Table 1d</i> )	511-10-009
	Heavy Liquid Service ( <i>Table 1d</i> )	511-10-009
Open-ended Valves or Lines	Any ( <i>Table 1e</i> )	511-10-011
Flanges and Other Connectors	Any ( <i>Table 1e</i> )	511-10-014
Valves	Gas/Vapor Service ( <i>Table 1f</i> )	511-10-012
	Light Liquid Service ( <i>Table 1f</i> )	511-10-012
	Heavy Liquid Service ( <i>Table 1g</i> )	511-10-013
Closed Vent Systems (CVS) and Control Devices	Flare ( <i>Table 1g</i> )	511-10-015
	Vapor Recovery System ( <i>Table 1h</i> )	511-10-016
	Enclosed Combustion Device ( <i>Table 1h</i> )	511-10-017
	Closed Vent System ( <i>Table 1i</i> )	511-10-018

★ **Complete the Following Items, Where Appropriate.**

**AMEL:**

An alternate means of emission limitation (AMEL), approved by the EPA Administrator under 40 CFR § 60.634, may be used for certain fugitive unit components to achieve a reduction in VOC emissions at least equivalent to the reduction in VOC emissions achieved under any design, equipment, work practice, or operational standard.

*If any of the types of fugitive unit components indicated in the preceding columns are complying with an AMEL, enter "YES." Otherwise, enter "NO." The GOP applicants must leave this column blank.*

**AMEL ID No.:**

If an AMEL has been approved, enter the corresponding AMEL unique identifier (maximum 10 characters) for each fugitive unit. If the unique identifier is unavailable, then enter the date of the AMEL approval letter in the table column. The unique identifier and/or the date of the approval letter is contained in the Compliance File under the appropriate account number. Otherwise, leave this column blank.

**2% Valves Leaking:**

Enter "YES" if the owner or operator is electing to comply with an allowable percentage of valves leaking equal to or less than 2.0 percent. Otherwise, enter "NO." GOP applicants must leave this column blank.

*Note: Enter "YES" for "Complying with 40 CFR § 60.482" unless all of those specified fugitive unit components are operating under an AMEL or if "2% Valves Leaking" is "YES."*

**Complying with 40 CFR § 60.482:**

Some fugitive unit components have the option to comply with 40 CFR § 60.482 (This applies only to those fugitive unit components with the "Complying with 40 CFR § 60.482" column preceding it). Enter "YES" if any of those particular fugitive unit components are complying with the requirements in 40 CFR §§ 60.482-2 - 4, 40 CFR §§ 60.482-6 - 8, and 40 CFR § 60.482-10. Otherwise, enter "NO." The GOP applicants must leave this column blank.

**Control Device ID No.:**

If applicable, enter the identification number (ID No.) for the control device to which emissions are routed (maximum 10 characters). This number should be consistent with the control device identification number on Form OP-SUM (Individual Unit Summary). Use multiple lines, if more than one control device is used. If there is no control device, then leave this column blank.

**Title 40 CFR Part 60, Subpart KKK Fugitive Unit Description:**

Provide a brief description of the area containing the fugitive equipment or the grouping of equipment (maximum 250 characters). Example descriptions include: "transfer and loading fugitives," "storage area fugitives," "manufacturing fugitives," "pipeline fugitives," etc. Use multiple lines, if necessary.

---

**Tables 2a - 2k:**            **Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115), Subchapter D: Fugitive Emission Control in Petroleum Refining, Natural Gas/Gasoline Processing, and Petrochemical Processes in Ozone Nonattainment Areas**

- ★ **Complete Table 2 only for sites located in the Beaumont/Port Arthur, Dallas/Fort Worth, El Paso, or Houston/Galveston areas.**

**Unit ID No.:**

Enter the identification number (ID No.) for the fugitive unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

**SOP/GOP Index No.:**

Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). General operating permit (GOP) applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). For additional information relating to SOP and GOP index numbers please go to the TCEQ Web site at [www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/additional\\_fop\\_guidance.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf).

*Note to GOP Applicants: Use the component types table below and the applicable GOP table to determine the GOP Index Numbers that apply to the fugitive components subject to 30 TAC Chapter 115, Subchapter D. Enter the "Unit ID No." and the applicable GOP Index Numbers on Table 2a. If the component type and/or applicable GOP index number are not included in the component types table below, answer the questions below and enter the "Unit ID No." and the applicable GOP Index Numbers on Table 2.*

*Note to SOP Applicants: Some fugitive units may have all equipment identified in 30 TAC § 115.352. Applicants may choose to identify the SOP index number as "R5352-ALL" in lieu of the corresponding unit attributes information. Use of this index number will imply that all requirements, other than closed vent system and control device requirements, in the regulation apply to the fugitive unit. If closed vent systems and control devices are also used to comply, this information, with identification numbers, must be submitted on the appropriate table of the form. Please note that this index number cannot be used if an alternative has been approved or for GOP applications.*

**Title 30 TAC § 115.352 Applicable:**

Enter "YES" if the site contains a petroleum refinery, a synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, or a natural gas/gasoline processing operation as defined in 30 TAC § 115.10. Otherwise, enter "NO."

- ▼ **Continue Only if "Title 30 TAC § 115.352 Applicable" is "YES."**

**Less Than 250 Components at Site:**

Enter "YES" if the fugitive unit is located at a site with less than 250 fugitive components. Otherwise, enter "NO."

- ▼ **Continue Only if "Less than 250 Components at Site" is "NO."**

**Weight Percent VOC:**

Select one of the following VOC weight percents of the process fluid which is in contact with the fugitive unit components. Enter the code on the form.

For petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing processes:

Code	Description
10-	All components only contact a process fluid that contains less than 10% VOC by weight
10B	Components in the fugitive unit contact process fluids that contain less than 10% VOC by weight and process fluids that contains VOC at 10%, or greater, by weight
10+	All components contact a process fluid that contains greater than or equal to 10% VOC by weight

For natural gas/gasoline processing operations:

Code	Description
1.0-	All components only contact a process fluid that contains less than 1.0% VOC by weight.
1.0B	Components in the fugitive unit contact process fluids that contain less than 1.0% VOC by weight and process fluids that contains VOC at 1.0%, or greater, by weight

1.0+ All components contact a process fluid that contains greater than or equal to 1.0% VOC by weight

▼ **Continue Only If “Weight Percent VOC” is “10B” or “10+” for Petroleum Refinery or Synthetic Organic Chemical, Polymer, Resin, or Methyl-tert-butyl Ether Manufacturing Processes, or “1.0B” or “1.0+” for Natural Gas/Gasoline Processing Operations.**

**Reciprocating Compressors or Positive Displacement Pumps:**

Enter “YES” if the site has reciprocating compressors or positive displacement pumps used in natural gas/gasoline processing operations. Otherwise, enter “NO.”

**Rupture Disks:**

Enter “YES” if the site has pressure relief valves equipped with rupture disks. Otherwise, enter “NO.”

**Instrumentation Systems:**

Enter “YES” if the site has instrumentation systems, as defined in 40 CFR § 63.161 (January 17, 1997), that meet 40 CFR § 63.169 (June 20, 1996). Otherwise, enter “NO.”

**Sampling Connection Systems:**

Enter “YES” if the site has sampling connection systems, as defined in 40 CFR § 63.161 (January 17, 1997), that meet 40 CFR § 63.169 (June 20, 1996). Otherwise, enter “NO.”

**TVP 0.002 PSIA or Less:**

Enter “YES” if the site has components or systems that contact a process fluid containing VOC having a true vapor pressure less than or equal to 0.002 psia at 68 degrees Fahrenheit. Otherwise, enter “NO.”

**Title 30 TAC Chapter 115 Fugitive Unit Components:**

The columns on Tables 2c through 2j correspond to the types of fugitive unit components addressed in 30 TAC § 115.352. In the row for each fugitive unit identification number, enter a “YES” in a column if the described component(s) are included in the fugitive unit. If no such components are present in the fugitive unit, enter a “NO” in the column. Indicate components subject to 30 TAC § 115.352 only. This information will ensure that only the appropriate requirements for each fugitive unit are reflected in the permit. The following table lists the component types.

## Title 30 TAC Chapter 115 Fugitive Unit Components

Component Type	Type of Service	GOP Index Number
Process Drains (Table 2c)	VOC Service	511-11-009
Pressure Relief Valves (Table 2d)	VOC Service	511-11-008
Open-ended Valves (Tables 2e)	VOC Service	511-11-010
Valves (other than pressure relief and open-ended) (Table 2f)	VOC Service	511-11-011
Flanges or Other Connectors (Table 2g)	VOC Service	511-11-012
Agitators (Table 2h)	VOC Service	511-11-016
Compressor Seals (Table 2i)	VOC Service	511-11-013
Pump Seals (Table 2j)	VOC Service	511-11-014

★ **Complete the Following Items, Where Appropriate.**

**Alternate Control Requirement:**

The TCEQ Executive Director may have approved an alternate method for demonstrating and documenting continuous compliance with an alternate control requirement (ACR) or exemption criteria for certain fugitive unit components.

*If any of the type of fugitive unit components indicated in the preceding columns are complying with an ACR, enter "YES." Otherwise, enter "NO," (GOP applicants must enter "NO.")*

**ACR ID No.:**

If an ACR has been approved, then enter the corresponding ACR unique identifier for each fugitive unit (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the ACR approval letter in the table column. The unique identifier and/or the date of the approval letter is contained in the Compliance File under the appropriate account number. Otherwise, leave this column blank.

**Complying with 30 TAC § 115.352(1):**

Enter "YES" if any of the indicated fugitive components are complying with the requirements in 30 TAC § 115.352(1). Otherwise, enter "NO."

**TVP of Process Fluid VOC ≤ 0.044 PSIA AT 68° F:**

Enter "YES" if any of the indicated fugitive components contact a process fluid containing VOC having a true vapor pressures (TVP) less than or equal to 0.044 psia at 68 degrees Fahrenheit. Otherwise, enter "NO."

**TVP of Process Fluid VOC > 0.044 PSIA AT 68° F:**

Enter "YES" if there are any of the indicated fugitive components contacting a process fluid containing VOC having a TVP greater than 0.044 psia at 68 degrees Fahrenheit. Otherwise, enter "NO."

**50% by Volume:**

Enter “YES” if any of the compressors in hydrogen service and the hydrogen content can be reasonably expected to always exceed 50 percent by volume. Otherwise, enter “NO.”

**Shaft Seal System:**

Enter “YES” if any of the compressors are equipped with a shaft sealing system that prevents or detects emission of VOC from the seal. Otherwise, enter “NO.”

*Note: The application should reflect that the unit is complying with 30 TAC § 115.352(1), as appropriate, unless all of those specified fugitive unit components are operating under an ACR.*

**Title 30 TAC Chapter 115 Fugitive Unit Description:**

Provide a brief description of the fugitive unit equipment (maximum 250 characters). If the “Title 30 TAC § 115.352 Fugitive Unit Description” is the same as the “Title 40 CFR Part 60, Subpart KKK Fugitive Unit Description,” enter “SAME” in this space. Example descriptions include: “transfer and loading fugitives,” “storage area fugitives,” “manufacturing fugitives,” “pipeline fugitives,” etc. Use multiple lines, if necessary.

**Tables 3a - 3j: Title 40 Code of Federal Regulations Part 61 (40 CFR Part 61), Subpart V: National Emission Standard for Equipment Leaks (Fugitive Emission Sources)**

**Unit ID No.:**

Enter the identification number (ID No.) for the fugitive unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

**SOP Index No.:**

Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ Web site at [www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/additional\\_fop\\_guidance.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf).

*Note to SOP Applicants: Some fugitive units may have all equipment identified in 40 CFR Part 61, Subpart V. Applicants may choose to identify the SOP index number as “61V-ALL” in lieu of the corresponding unit attributes information. Use of this index number will imply that all requirements, other than closed vent system and control device requirements, in the regulation apply to the fugitive unit. If closed vent systems and control devices are also used to comply, this information, with identification numbers, must be submitted on the appropriate table of the form. Please note that this index number cannot be used if an alternative has been approved.*

**Title 40 CFR Part 61, Subpart V Fugitive Unit Components:**

The columns on Tables 3a through 3j correspond to the types of fugitive unit components addressed in 40 CFR Part 61, Subpart V. In the row for each unit identification number, enter “YES” in a column if the described component(s) are included in the fugitive unit. If no such components are present in the fugitive unit, enter a “NO” in the column. Indicate components subject to 40 CFR Part 61, Subpart V only. This information will ensure that only the appropriate requirements for each fugitive unit are reflected in the permit. The following table lists the component types.

**Title 40 CFR Part 61, Subpart V Fugitive Unit Components**

Component Type	Type of Service or Control Device
Any Component	Vacuum Service ( <i>Table 3a</i> )
	VHAP Service * ( <i>Table 3a</i> )
Pumps ( <i>Table 3a</i> )	VHAP Service
Compressors ( <i>Table 3b</i> )	VHAP Service
Pressure Relief Devices	VHAP Gas/Vapor Service ( <i>Table 3c</i> )
	VHAP Liquid Service ( <i>Table 3c</i> )
Sampling Connection Systems ( <i>Table 3d</i> )	VHAP Service
Open-ended Valves or Lines ( <i>Table 3d</i> )	VHAP Service
Valves ( <i>Table 3e</i> )	VHAP Service
Flanges and Other Connectors ( <i>Table 3e</i> )	VHAP Service
Product Accumulator Vessels ( <i>Table 3f</i> )	VHAP Service
Closed-vent Systems and Control Devices	Vapor Recovery System ( <i>Table 3g</i> )
	Enclosed Combustion Device ( <i>Table 3h</i> )
	Flare ( <i>Table 3i</i> )

\*Volatile hazardous air pollutant (VHAP) service will indicate a piece of equipment listed in 40 CFR § 61.240(a) designed to operate in VHAP service.

★ **Complete the Following Items, Where Appropriate.**

**AMEL:**

An alternate method of emission limitation (AMEL), approved by the EPA Administrator under 40 CFR § 61.244, may be used for certain fugitive unit components.

If any of the type of fugitive unit components indicated in the preceding columns are complying with an AMEL, enter “YES.” Otherwise, enter “NO.”

**AMEL ID No.:**

If an AMEL has been approved, enter the corresponding AMEL unique identifier for each fugitive unit (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the AMEL approval letter in the table column. The unique identifier and/or the date of the approval letter is contained in the Compliance File under the appropriate account number. Otherwise, leave this column blank.

**Complying with 40 CFR § 61.242:**

Some fugitive unit components have the option to comply with 40 CFR §61.242 (This applies to only those fugitive unit components with the “Complying with 40 CFR § 61.242” column preceding it). Enter “YES” if any of those particular fugitive unit components are complying with the requirements in 40 CFR §§ 61.242-2 - 9, 40 CFR § 61.242-11(b) - (d), or 40 CFR § 61.242-11(f)(1), as appropriate. Otherwise, enter “NO.”

*Note: Enter “YES” for “Complying with 40 CFR § 61.242” unless all of those specified fugitive unit components are operating under an AMEL.*

**Control Device ID No.:**

If applicable, enter the identification number (ID No.) for the control device to which emissions are routed (maximum 10 characters). This number should be consistent with the control device identification number on Form OP-SUM (Individual Unit Summary). Use multiple lines if more than one control device is used. If there is no control device, then leave this column blank.

**Title 40 CFR Part 61, Subpart V Fugitive Unit Description:**

Provide a brief description of the fugitive unit equipment (maximum 250 characters). If the “Title 40 CFR Part 61, Subpart V Fugitive Unit Description” is the same as the “Title 30 TAC Chapter 115 Fugitive Unit Description,” enter “SAME” in this space. Example descriptions include “transfer and loading fugitives,” “storage area fugitives,” “manufacturing fugitives,” “pipeline fugitives,” etc. Use multiple lines, if necessary.

**Tables 4a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart VV: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry**

★ **Complete Table 3 for sources subject to 40 CFR Part 61, Subpart V. Do not complete Table 4.**

**Unit ID No.:**

Enter the identification number (ID No.) for the fugitive unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

**SOP Index No.:**

Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ Web site at [www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/additional\\_fop\\_guidance.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf).

*Note to SOP Applicants: Some fugitive units may have all equipment identified in 40 CFR Part 60, Subpart VV. Applicants may choose to identify the SOP index number as “60VV-ALL” in lieu of the corresponding unit attribute information. Use of this index number will imply that all requirements, other than closed vent system and control device requirements, in the regulation apply to the fugitive unit. If closed vent systems and control devices are also used to comply, this information, with identification numbers, must be submitted on the appropriate table of the form. Please note that this index number cannot be used if an alternative has been approved.*

**Produces Chemicals:**

Enter “YES” if the facility produces as an intermediate or final product one or more of the chemicals listed in 40 CFR § 60.489. Otherwise, enter “NO.”

▼ **Continue only if “Produces Chemicals” is “YES.”**

**Affected Facility**

Enter "YES" if the facility is an affected facility as defined in 40 CFR § 60.480(a)(2). Otherwise, enter "NO."

▼ **Continue only if "Affected Facility" is "YES."**

**Construction/Modification Date:**

Select one of the following codes that describes the date of commencement of the most recent construction, reconstruction, or modification. Enter the code on the form.

Code	Description
81-	On or before January 5, 1981
81-06	After January 5, 1981 and before November 7, 2006
06+	After November 7, 2006

▼ **Continue only if "Construction/Modification Date" is "81-06."**

**Compliance Option:**

Select one of the following codes that describes which provisions the owner or operator is choosing to comply with. Enter the code on the form.

Code	Description
65F	Choosing to comply with the provisions of 40 CFR Part 65, Subpart F
60VV	Choosing to comply with the provisions of 40 CFR Part 60, Subpart VV
60VVA	Choosing to comply with the provisions of 40 CFR Part 60, Subpart VVa

▼ **Continue only if "Compliance Option" is "60VV."**

**Design Capacity:**

Select one of the following ranges to describe the design capacity. Enter the code on the form.

Code	Description
1000-	Site with a design capacity is less than 1,000 Mg/yr
1000+	Site with a design capacity is greater than or equal to 1,000 Mg/yr

▼ **Continue only if "Design Capacity" is "1000+."**

**Produces Heavy Liquid Chemicals:**

Enter "YES" if the facility produces heavy liquid chemicals only from heavy liquid feed or raw materials. Otherwise, enter "NO."

▼ **Continue only if "Produces Heavy Liquid Chemicals" is "NO."**

**Beverage Alcohol Production:**

Enter "YES" if the facility produces beverage alcohol. Otherwise, enter "NO."

▼ **Continue only if "Beverage Alcohol Production" is "NO."**

**Tables 4b-4l:** Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart VV: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry

**Unit ID No.:**

Enter the identification number (ID No.) for the fugitive unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

**SOP Index No.:**

Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ Web site at [www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/additional\\_fop\\_guidance.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf).

**Equipment in VOC Service:**

Enter “YES” if the facility contains equipment designed to operate in VOC service. Otherwise, enter “NO.”

▼ **Continue only if “Equipment in VOC Service” is “YES.”**

**Vacuum Service:**

Enter “YES” if the facility contains equipment in vacuum service. Otherwise, enter “NO.”

**VOC Service:**

Enter “YES” if the owner or operators designated the equipment as being in VOC service less than 300 hours per year. Otherwise, enter “NO.”

**Title 40 CFR Part 60, Subpart VV Fugitive Unit Components:**

The columns on Tables 4c through 4k correspond to the types of fugitive unit components addressed in 40 CFR Part 60, Subpart VV. In the row for each fugitive unit Identification number, enter a “YES” in a column if the described component(s) are included in the fugitive unit. If no such components are present in the fugitive unit, enter a “NO” in the column. Indicate components subject to 40 CFR Part 60, Subpart VV only. This information will ensure that only the appropriate requirements for each fugitive unit are reflected in the permit. The following table lists the component types.

**Title 40 CFR Part 60, Subpart VV Fugitive Unit Component Types**

Component Type	Type of Service or Control Device
Vacuum Service	Equipment in Vacuum Service ( <i>Table 4b</i> )
VOC Service < 300 hours per year	Equipment in VOC Service Less Than 300 Hours Per Year ( <i>Table 4b</i> )
Pumps	Light Liquid Service ( <i>Table 4b</i> )
	Heavy Liquid Service ( <i>Table 4f</i> )
Compressors	Any ( <i>Table 4c</i> )
Pressure Relief Devices	Gas/Vapor Service ( <i>Table 4c</i> )
	Light Liquid ( <i>Table 4g</i> )
	Heavy Liquid Service ( <i>Table 4g</i> )
Sampling Connection Systems	Any ( <i>Table 4d</i> )
Open-ended Valves or Lines	Any ( <i>Table 4d</i> )
Valves	Gas/Vapor or Light Liquid Service ( <i>Table 4e</i> )
	Heavy Liquid Service ( <i>Table 4f</i> )
Flanges and Other Connectors	Any ( <i>Table 4h</i> )
Closed-vent Systems and Control Devices	Vapor Recovery System ( <i>Table 4h</i> )
	Enclosed Combustion Device ( <i>Table 4i</i> )
	Flare ( <i>Table 4j</i> )
	Closed Vent (or Vapor Collection) Systems ( <i>Table 4k</i> )

★ **Complete the Following Items, Where Appropriate.**

TCEQ-10045 (APDG 5075v19, Revised 02/16) OP-UA12

This form is for use by facilities subject to air quality permit requirements and may be revised periodically. (Title V Release 07/15)

**Equivalent Emission Limitation:**

An equivalent emission limitation (EEL), approved by the EPA Administrator under 40 CFR § 60.634, may be used for certain fugitive unit components to achieve a reduction in VOC emissions at least equivalent to the reduction in VOC emissions achieved by controls required in 40 CFR Part 60, Subpart VV.

*If any of the type of fugitive unit components indicated in the preceding columns are complying with an EEL, enter "YES." Otherwise, enter "NO."*

**EEL ID No.:**

If an EEL has been approved, enter the corresponding EEL unique identifier for each fugitive unit (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the EEL approval letter in the table column. The unique identifier and/or the date of the approval letter is contained in the Compliance File under the appropriate account number. Otherwise, leave this column blank.

**Complying with 40 CFR § 60.482:**

Some fugitive unit components have the option to comply with 40 CFR § 60.482 (This applies to only those fugitive unit components with the "Complying with 40 CFR § 60.482" column preceding it). Enter "YES" if any of those particular fugitive unit components are complying with the requirements in 40 CFR §§ 60.482-2 - 8, or 40 CFR § 60.482-10, as appropriate. Otherwise, enter "NO."

*Note: Enter "YES" for "Complying with 40 CFR § 60.482" unless all of those specified fugitive unit components are operating under an EEL.*

**2.0%:**

Enter "YES" if the owner or operator is electing to comply with an allowable percentage of valves leaking equal to or less than 2.0%. Otherwise, enter "NO."

*Note: Enter "YES" for "Complying with 40 CFR § 60.482" unless all of those specified fugitive unit components are operating under an EEL or "2.0%" is "YES."*

**Complying with § 60.482-4(a) - (b):**

Enter "YES" if the fugitive unit includes pressure relief devices in gas/vapor service that are complying with 40 CFR § 60.482-4(a) and (b). Otherwise, enter "NO."

**Control Device ID No.:**

If applicable, enter the identification number (ID No.) for the control device to which emissions are routed (maximum 10 characters). This number should be consistent with the control device identification number on Form OP-SUM entitled, "Individual Unit Summary." Use multiple lines, if more than one control device is used. If there is no control device, then leave this column blank.

**Title 40 CFR Part 60, Subpart VV Fugitive Unit Description:**

Provide a brief description of the area containing the fugitive equipment or the grouping of equipment (maximum 250 characters). If the "Title 40 CFR Part 60, Subpart VV Fugitive Unit Description" is the same as the "Title 30 TAC Chapter 115 Fugitive Unit Description," enter "SAME" in this space. Example descriptions include: "transfer and loading fugitives," "storage area fugitives," "manufacturing fugitives," "pipeline fugitives," etc. Use multiple lines, if necessary.

**Tables 5a - 5h:** Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart DDD: Standards of Performance for Volatile Organic Compound (VOC) Emissions from the Polymer Manufacturing Industry

- ★ Complete Table 5a - 5h only for facilities involved in the manufacture of Polypropylene, Polyethylene, Polystyrene, or Poly (ethyleneterephthalate).

**Unit ID No.:**

Enter the identification number (ID No.) for the fugitive unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

**SOP Index No.:**

Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ Web site at [www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/additional\\_fop\\_guidance.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf).

*Note to SOP Applicants: Some fugitive units may have all equipment identified in 40 CFR Part 60, Subpart DDD. Applicants may choose to identify the SOP index number as "60DDD-ALL" in lieu of the corresponding unit attributes information. Use of this index number will imply that all requirements, other than closed vent system and control device requirements, in the regulation apply to the fugitive unit. If closed vent systems and control devices are also used to comply, this information, with identification numbers, must be submitted on the appropriate table of the form. Please note that this index number cannot be used if an alternative has been approved.*

**Manufactured Product:**

Select one of the following options to describe the product manufactured by the affected facility. Enter the code on the form.

Code	Description
PROPYL	Polypropylene or polyethylene
STYRENE	Polystyrene
PET	Poly (ethyleneterephthalate)

- ▼ Continue Only if "Manufactured Product" is "PROPYL" or "STYRENE."

**Continuous Process:**

Enter "YES" if the affected facility process is continuous. Otherwise, enter "NO."

- ▼ Continue only if "Continuous Process" is "YES."

**Construction/Modification Date:**

Select one of the following options that describes the date of commencement of the most recent construction, reconstruction, or modification. Enter the code on the form.

Code	Description
87-	On or before September 30, 1987
87-89	After September 30, 1987 and on or before January 10, 1989
89+	After January 10, 1989

- ▼ Continue only if "Construction/Modification Date" is "87-89" OR "89+."

**VOC Service:**

Select one of the following options that describe the equipment that comes into contact with a fluid containing <10% by weight VOC. Enter the code on the form.

Code	Description
ALL	All of the equipment comes into contact with a fluid containing <10% by weight VOC
SOME	Some of the equipment comes into contact with a fluid containing <10% by weight VOC
NONE	None of the equipment comes into contact with a fluid containing <10% by weight VOC

▼ Continue only if “VOC Service” is “ALL” OR “SOME.”

**Design Capacity:**

Select one of the following affected facility design capacities. Enter the code on the form.

Code	Description
1000-	Facility has a design capacity to produce less than 1,000 Mg/yr
1000+	Facility has a design capacity to produce greater than or equal to 1,000 Mg/yr

▼ Continue only if “Design Capacity” Is “1000+”

**Equipment in Vacuum Service:**

Enter “YES” if the fugitive unit contains equipment in vacuum service. Otherwise, enter “NO.”

**Title 40 CFR Part 60, Subpart DDD Fugitive Unit Components:**

The columns on Tables 5b through 5e correspond to the types of fugitive unit components addressed in 40 CFR Part 60, Subpart DDD. In the row for each fugitive unit identification number, enter “YES” in a column if the described component(s) are included in the fugitive unit. If no such components are present in the fugitive unit, enter “NO” in the column. Indicate components subject to 40 CFR Part 60, Subpart DDD only. This information will ensure that only the appropriate requirements for each fugitive unit are reflected in the permit. The following table lists the component types.

**Title 40 CFR Part 60, Subpart DDD Fugitive Unit Component Types**

<b>Component Type</b>	<b>Type of Service or Control Device</b>
Pumps	Light Liquid Service ( <i>Table 5b</i> )
	Heavy Liquid Service ( <i>Table 5b</i> )
Flanges and Other Connectors ( <i>Table 5c</i> )	Any
Compressors ( <i>Table 5c</i> )	Any
Pressure Relief Devices	Gas/Vapor Service ( <i>Table 5d</i> )
	Light Liquid or Heavy Liquid Service ( <i>Table 5d</i> )
Sampling Connection Systems ( <i>Table 5d</i> )	Any
Valves	Gas/Vapor or Light Liquid Service ( <i>Table 5e</i> )
	Heavy Liquid Service ( <i>Table 5e</i> )
Open-ended Valves or Lines ( <i>Table 5f</i> )	Any
Closed-vent (or Vapor Collection) Systems ( <i>Table 5f</i> )	Any
Control Devices	Vapor Recovery System ( <i>Table 5g</i> )
	Enclosed Combustion Device ( <i>Table 5g</i> )
	Flare ( <i>Table 5h</i> )

**Complete the Following Items, Where Appropriate.****Equivalent Emission Limitation:**

An equivalent emission limitation (EEL), approved by the EPA Administrator under 40 CFR § 60.634, may be used for certain fugitive unit components to achieve a reduction in VOC emissions at least equivalent to the reduction in VOC emissions achieved by controls required in 40 CFR Part 60, Subpart DDD. If any of the type of fugitive unit components indicated in the preceding columns are complying with an EEL, enter “YES.” Otherwise, enter “NO.”

**EEL ID No.:**

If an EEL has been approved, enter the corresponding EEL unique identifier for each fugitive unit (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the EEL approval letter in the table column. The unique identifier and/or the date of the approval letter is contained in the Compliance File under the appropriate account number. Otherwise, leave this column blank.

**Complying with § 60.482:**

Some fugitive unit components have the option to comply with 40 CFR § 60.482 (This applies only to fugitive unit components that have the “Complying with 40 CFR § 60.482” column). Enter “YES” if any of those particular fugitive unit components are complying with the requirements in 40 CFR § 60.482-2 through 40 CFR § 60.482-8, or 40 CFR § 60.482-10, as appropriate. Otherwise, enter “NO.”

*Note: Enter “YES” for “Complying with § 60.482” unless all of the specified fugitive unit components are operating under an EEL.*

**Control Device ID No.:**

If applicable, enter the identification number (ID No.) for the control device to which emissions are routed (maximum 10 characters). This number should be consistent with the control device identification number on Form OP-SUM (Individual Unit Summary). Use multiple lines, if more than one control device is used. If there is no control device, then leave this column blank.

**Title 40 CFR Part 60, Subpart DDD Fugitive Unit Description:**

Provide a brief description of the area containing the fugitive equipment or the grouping of equipment (maximum 250 characters). If the “Title 40 CFR Part 60, Subpart DDD Fugitive Unit Description” is the same as the “Title 30 TAC Chapter 115 Fugitive Unit Description,” enter “SAME” in this space. Example descriptions include: “transfer and loading fugitives,” “storage area fugitives,” “manufacturing fugitives,” “pipeline fugitives,” etc. Use multiple lines, if necessary.

**Table 6: Title 40 Code of Federal Regulations Part 61 (40 CFR Part 61), Subpart J: National Emission Standard for Equipment Leaks (Fugitive Emission Sources) of Benzene**

**Unit ID No.:**

Enter the identification number (ID No.) for the fugitive unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

**SOP Index No.:**

Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ Web site at [www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/additional\\_fop\\_guidance.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf).

*Note to SOP Applicants: Some fugitive units may have all equipment identified in 40 CFR Part 61, Subpart J. Applicants may choose to identify the SOP index number as “61J-ALL” in lieu of the corresponding unit attributes information. Use of this index number will imply that all requirements, other than closed vent system and control device requirements, in the regulation apply to the fugitive unit. If closed vent systems and control devices are also used to comply, this information, with identification numbers, must be submitted on the appropriate table of the form. Please note that this index number cannot be used if an alternative has been approved.*

**Design Capacity:**

Select one of the following ranges to describe the design capacity. Enter the code on the form.

Code	Description
1000-	Site is designed to produce or use equal to or less than 1,000 Mg/yr (1,102 tons/yr) of benzene
1000+	Site is designed to produce or use greater than 1,000 Mg/yr (1,102 tons/yr) of benzene

▼ **Continue only if “Design Capacity” is “1000+.”**

**Any Component In Benzene Service:**

Enter “YES” if the facility contains any component in benzene service. Otherwise, enter “NO.”

**AMEL:**

Enter “YES” if the EPA Administrator has approved an alternative means of emission limitation (AMEL) that achieves a reduction in emission of benzene at least equivalent to the reduction in emissions achieved by controls required in 40 CFR Part 61, Subpart J. Otherwise, enter “NO.”

**AMEL ID No.:**

If an AMEL has been approved, enter the corresponding AMEL unique identifier for each unit (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the AMEL approval letter in the table column. The unique identifier and/or the date of the approval letter is contained in the Compliance File under the appropriate account number. Otherwise, leave this column blank.

*Note: If an AMEL is not used, Table 3 of this form must be completed.*

**Tables 7a - 7f: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115), Subchapter D: Fugitive Emission Control in Petroleum Refineries in Gregg, Nueces, and Victoria Counties**

**Unit ID No.:**

Enter the identification number (ID No.) for the fugitive unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

**SOP Index No.:**

Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ Web site at [www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/additional\\_fop\\_guidance.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf).

*Note to SOP Applicants: Some fugitive units may have all equipment identified in 30 TAC § 115.322. Applicants may choose to identify the SOP index number as “R5322-ALL” in lieu of the corresponding unit attribute information. Use of this index number will imply that all requirements, other than closed vent system and control device requirements, in the regulation apply to the fugitive unit. If closed vent systems and control devices are also used to comply, this information, with identification numbers, must be submitted on the appropriate table of the form. Please note that this index number cannot be used if an alternative has been approved.*

**VOC Weight Percent:**

Select one of the following VOC weight percents for the process fluid which the components of the fugitive unit contact. Enter the code on the form.

Code	Description
10-	Components only contact a process fluid that contains less than 10% VOC by weight
10+	Some components contact a process fluid that contains greater than or equal to 10% VOC by weight

▼ Continue only if “VOC Weight Percent” is “10+.”

**2 Inch Valves:**

Enter “YES” if any valves have a nominal size of 2 inches or less. Otherwise, enter “NO.”

**Title 30 TAC § 115.322 Fugitive Unit Description:**

Provide a brief description of the fugitive unit equipment (maximum 250 characters). If the “Title 30 TAC § 115.322 Fugitive Unit Description” is the same as the “Title 30 TAC Chapter 115 Fugitive Unit Description” or the “40 CFR Part 61, Subpart V Fugitive Unit Description,” then enter “SAME” in this space. Example descriptions include: “transfer and loading fugitives,” “storage area fugitives,” “manufacturing fugitives,” “pipeline fugitives,” etc. Use multiple lines, if necessary.

**Title 30 TAC § 115.322 Fugitive Unit Components:**

The columns on Tables 7b through 7f correspond to the types of fugitive unit components addressed in 30 TAC § 115.322. For each row containing the fugitive unit identification number, enter “YES” in the column if the described component(s) are included in the fugitive unit. If no such components are present in the fugitive unit, enter a “NO” in the column. Indicate components subject to 30 TAC § 115.322 only. This information will ensure that only the appropriate requirements for each fugitive unit are reflected in the permit. The following table lists the component types.

**Title 30 TAC § 115.322 Fugitive Unit Component Types**

Component Type	Type of Service
Pump Seals ( <i>Table 7b</i> )	VOC Service
Valves (Other Than Elevated or Pressure Relief Valves) ( <i>Table 7c</i> )	Gaseous VOC Service
	Liquid VOC Service
Process Drains ( <i>Table 7d</i> )	VOC Service
Compressor Seals ( <i>Table 7d</i> )	VOC Service
Elevated Valves ( <i>Table 7e</i> )	Gaseous VOC Service
	Liquid VOC Service
Pressure Relief Valves ( <i>Table 7e</i> )	Gaseous VOC Service
Connectors ( <i>Table 7f</i> )	VOC Service

★ Also complete the following items, where appropriate.

**Applicable Control Requirements:**

The TCEQ Executive Director may have approved an alternate method for demonstrating and documenting continuous compliance with applicable control requirements (ACR) or exemption criteria for certain fugitive unit components.

*If any of the type of fugitive unit components indicated in the preceding columns are complying with an ACR, enter “YES.” Otherwise, enter “NO.”*

**ACR ID No.:**

If an ACR has been approved, enter the corresponding ACR unique identifier for each fugitive unit (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the ACR approval letter in the table column. The unique identifier and/or the date of the approval letter is contained in the Compliance File under the appropriate account number. Otherwise, leave this column blank.

**Complying with 30 TAC § 115.327(3) or (5) and 30 TAC § 115.322(1):**

Enter “YES” if any of the indicated fugitive components are complying with the requirements in 30 TAC § 115.327(3) or (5), and the requirements in 30 TAC § 115.322(1). Otherwise, enter “NO.”

**Remaining Components Complying with § 115.322(1):**

Enter “YES” if any of the remaining indicated fugitive components are complying with the requirements in 30 TAC § 115.322(1). Otherwise, enter “NO.”

**Meets 30 TAC § 115.327(3),(5), OR (6) And 30 TAC § 115.322(1):**

Enter “YES” if any of the indicated fugitive components meet the requirements in 30 TAC § 115.327(3), (5), or (6), and are complying with the requirements in 30 TAC § 115.322(1). Otherwise, enter “NO.”

**Components Complying With 30 TAC § 115.358:**

Enter “YES” in any components are complying with the requirements in 30 TAC § 115.358. Otherwise, enter “NO.”

**Table 8a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart GGG: Standards of Performance for Equipment Leaks of Volatile Organic Compounds (VOCs) in Petroleum Refineries**

**Unit ID No.:**

Enter the identification number (ID No.) for the fugitive unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

**SOP Index No.:**

Site operating permit (SOP) applicants should indicate the SOP Index Number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ Web site at [www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/additional\\_fop\\_guidance.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf).

*Note to SOP Applicants: Some fugitive units may have all equipment identified in 40 CFR Part 60, Subpart GGG. Applicants may choose to identify the SOP index number as “60GGG-ALL” in lieu of the corresponding unit attributes information. Use of this index number will imply that all requirements, other than closed vent system and control device requirements, in the regulation apply to the fugitive unit. If closed vent systems and control devices are also used to comply, this information, with identification numbers, must be submitted on the appropriate table of the form and the additional requirements included on the OP-REQ3 form. Please note that this index number cannot be used if an alternative has been approved.*

**Construction/Modification Date:**

(40 CFR Part 60, Subpart GGG) Select one of the following options that describes the date of commencement of the most recent construction or modification. Enter the code on the form.

Code	Description
83-	On/or before January 4, 1983
83+	After January 4, 1983

▼ Continue only if “Construction/Modification Date” is “83+.”

**Affected Facility Covered by 40 CFR 60 Subparts VV or KKK:**

Enter “YES” if the affected facility is subject to Title 40 CFR Part 60, Subparts VV or KKK. Otherwise, enter “NO.”

▼ Continue only if “Affected Facility Covered by 40 CFR 60 Subparts VV or KKK” is “NO.”

**Tables 8b - 8j: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart GGG: Fugitive Unit Components**

**Unit ID No.:**

Enter the identification number (ID No.) for the fugitive unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

**SOP Index No.:**

Site operating permit (SOP) applicants should indicate the SOP Index Number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP and GOP index numbers please go to the TCEQ Web site at [www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/additional\\_fop\\_guidance.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf).

**Title 40 CFR Part 60, Subpart GGG Fugitive Unit Components:**

The columns on Tables 8b through 8j correspond to the types of fugitive unit components addressed in 40 CFR Part 60, Subpart GGG. In the row for each fugitive unit identification number, enter a “YES” in the forms table column if the described component(s) are included in the fugitive unit. If no such component is included in the fugitive unit, enter “NO” in the table column. Indicate components subject to 40 CFR Part 60, Subpart GGG only. This information will ensure that only the appropriate requirements for each fugitive unit are reflected in the permit. The following table lists the component types.

**Title 40 CFR Part 60, Subpart GGG Fugitive Unit Component Types**

<b>Component Type</b>	<b>Type of Service or Control Device</b>
Vacuum	Facility has equipment in vacuum service.(Table 8b)
Pumps	Light Liquid Service (Table 8b)
	Heavy Liquid Service (Table 8b)
Compressors	Any (Table 8c)
	Hydrogen Service (Table 8c)
	Reciprocating compressors that became an affected facility under 40 CFR § 60.14 or 40 CFR § 60.15 (Table 8c)
Pressure Relief Devices	Gas/Vapor Service (Table 8c)
	Light Liquid Service (Table 8c)
Sampling Connection Systems	Any (Table 8d)
Open-ended Valves or Lines	Any (Table 8d)
Valves	Gas/Vapor or Light Liquid Service (Table 8e)
	Heavy Liquid Service (Table 8e)
Flanges and Other Connectors	Any (Table 8f)
Closed-Vent Systems	Vapor Recovery System (Table 8g)
	Enclosed Combustion Device (Table 8h)
	Flare (Table 8i)
	Closed Vent (Or Vapor Collection) System (Table 8j)

★ Also, complete the following items, where appropriate.

**Equivalent Emission Limitation:**

An equivalent emission limitation (EEL) approved by the EPA Administrator under 40 CFR § 60.592(c) may be used for certain fugitive unit components to achieve a reduction in VOC emissions at least equivalent to the reduction in VOC emissions achieved by controls required in 40 CFR Part 60, Subpart GGG.

*If any of the type of fugitive unit components indicated in the preceding columns are complying with an EEL, enter "YES." Otherwise, enter "NO."*

**EEL ID No.:**

If an EEL has been approved, enter the corresponding EEL unique identifier for each fugitive unit. If the unique identifier is unavailable, then enter the date of the EEL approval letter in the table column. The unique identifier and/or the date of the approval letter is contained in the Compliance File under the appropriate account number. Otherwise, leave this column blank.

**Complying with 40 CFR § 60.482:**

Some fugitive unit components have the option to comply with 40 CFR § 60.482 (This applies to only those fugitive unit components with the "Complying with 40 CFR § 60.482" column proceeding it.). Enter "YES" if any of those particular fugitive unit components are complying with the requirements in 40 CFR § 60.482-2 - 8, or 40 CFR § 60.482-10, as appropriate. Otherwise, enter "NO."

**Control Device ID No.:**

If applicable, enter the identification number (ID No.) for the control device to which emissions are routed (maximum 10 characters). This number should be consistent with the control device identification number on Form OP-SUM entitled, "Individual Unit Summary." Use multiple lines, if more than one control device is used. If there is no control device, then leave this column blank.

**Table 8k: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart GGG: Fugitive Unit Description**

**Unit ID No.:**

Enter the identification number (ID No.) for the fugitive unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

**SOP Index No.:**

Site operating permit (SOP) applicants should indicate the SOP Index Number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ Web site at [www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/additional\\_fop\\_guidance.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf).

**Title 40 CFR Part 60, Subpart GGG Fugitive Unit Description:**

Provide a brief description of the area containing the fugitive equipment or the grouping of equipment (maximum 250 characters). If the "Title 40 CFR Part 60, Subpart GGG Fugitive Unit Description" is the same as the "Title 30 TAC Chapter 115 Fugitive Unit Description," enter "SAME" in this space. Example descriptions include: "transfer and loading fugitives," "storage area fugitives," "manufacturing fugitives," "pipeline fugitives," etc. Use multiple lines, if necessary.

---



---

**Tables 9a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart H: National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks**

★ **Complete only for sources subject to a 40 CFR Part 63 subpart which references 40 CFR Part 63, Subpart H.**

**Unit ID No.:**

Enter the identification number (ID No.) for the fugitive unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

**SOP Index No.:**

Site operating permit (SOP) applicants should indicate the SOP Index Number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ Web site at [www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/additional\\_fop\\_guidance.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf).

*Note to SOP Applicants: Some fugitive units may have all equipment identified in 40 CFR Part 63, Subpart H. Applicants may choose to identify the SOP index number as "63H-ALL" in lieu of the corresponding unit attribute information. Use of this index number will imply that all requirements, other than closed vent system and control device requirements, in the regulation apply to the fugitive unit. If closed vent systems and control devices are also used to comply, this information, with identification numbers, must be submitted on the appropriate table of the form. Fugitive units containing surge control vessels not routed to a process or not complying with the requirements of 40 CFR § 63.119(b) or (c) must indicate closed vent system and control device requirements. Please note that this index number cannot be used if an alternative has been approved.*

**Equipment Type:**

Enter "YES" if the fugitive unit contains equipment listed in 40 CFR § 63.160(a) which is operated in organic hazardous air pollutant service. Otherwise, enter "NO."

▼ **Continue only if "Equipment Type" is "YES."**

**Non-Research And Development/Batch Processes:**

Enter "YES" if the fugitive unit contains processes other than research and development facilities and bench-scale batch processes. Otherwise, enter "NO."

▼ **Continue only if "Non-Research and Development/Batch Processes" is "YES."**

**Vacuum Service:**

Enter "YES" if all of the equipment in the fugitive unit is in vacuum service. Otherwise, enter "NO."

★ **Continue only if "Vacuum Service" is "NO."**

**Less Than 300 Operating Hours:**

Enter "YES" if the fugitive unit contains any equipment in organic hazardous air pollutant (HAP) service that is intended to operate less than 300 hours per calendar year. Otherwise, enter "NO."

★ **Complete "Heavy Liquid Service" Only If "Less Than 300 Operating Hours" is "YES."**

**Heavy Liquid Service:**

Enter "YES" if any of the equipment in organic HAP service that is intended to operate less than 300 hours per calendar year is in heavy liquid service. Otherwise, enter "NO."

**AMEL:**

Enter "YES" if the fugitive unit is complying with an alternative means of emission limitation (AMEL). Otherwise, enter "NO."

★ **Go to Table 9c if "Alternative Means of Emission Limitation" is "NO."**

---



---

**Tables 9b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart H: National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks**

**Unit ID No.:**

Enter the identification number (ID No.) for the fugitive unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

**SOP Index No.:**

Site operating permit (SOP) applicants should indicate the SOP Index Number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ Web site at [www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/additional\\_fop\\_guidance.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf).

**Enclosed-Vented Process Unit AMEL:**

Enter "YES" if the fugitive unit contains an enclosed-vented process unit complying with the alternate method of emission limitation (AMEL) in 40 CFR § 63.179. Otherwise, enter "NO."

★ **Complete "Heavy Liquid Service" Only If "Enclosed-Vented Process Unit AMEL" is "YES."**

**Heavy Liquid Service:**

Enter "YES" if any enclosed-vented process unit complying with the AMEL in 40 CFR § 163.179 contains equipment in heavy liquid service. Otherwise, enter "NO."

**Batch Process AMEL:**

Enter "YES" if the fugitive unit contains a batch process complying with the AMEL in 40 CFR § 63.178. Otherwise, enter "NO."

★ **Complete "Pressure Test" and "Heavy Liquid Service" Only If "Batch Process AMEL" is "YES."**

**Pressure Test:**

Enter "YES" if the batch product process equipment train is pressure tested to demonstrate compliance with 40 CFR Part 63, Subpart H. Otherwise, enter "NO."

**Heavy Liquid Service:**

Enter "YES" if any batch process complying with the AMEL in 40 CFR § 163.178 contains equipment in heavy liquid service. Otherwise, enter "NO."

**General AMEL:**

Enter "YES" if the fugitive unit is complying with the AMEL in 40 CFR § 63.177. Otherwise, enter "NO."

**AMEL ID No.:**

If an AMEL has been approved, enter the corresponding AMEL unique identifier for each fugitive unit (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the AMEL approval letter in the table column. The unique identifier and/or the date of the approval letter is contained in the Compliance File under the appropriate account number. Otherwise, leave this column blank.

★ **Complete "Heavy Liquid Service" Only If "General AMEL" is "YES."**

**Heavy Liquid Service:**

Enter "YES" if any fugitive unit complying with the AMEL in 40 CFR § 163.177 contains equipment in heavy liquid service. Otherwise, enter "NO."

**Units without an AMEL:**

Enter "YES" if the fugitive unit contains any equipment or process units not complying with an alternative means of emission limitation in 40 CFR § 63.177, 40 CFR § 63.178, 40 CFR § 63.179. Otherwise, enter "NO."

▼ **Continue only if "Units without an AMEL" is "YES."**

---

---

**Tables 9c - 9f: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart H: National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks**

**Unit ID No.:**

Enter the identification number (ID No.) for the fugitive unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

**SOP Index No.:**

Site operating permit (SOP) applicants should indicate the SOP Index Number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ Web site at [www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/additional\\_fop\\_guidance.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf).

**Title 40 CFR Part 63, Subpart H Fugitive Unit Components:**

The columns on Tables 9c through 9f correspond to the types of fugitive unit components addressed in 40 CFR Part 63, Subpart H. In the row for each fugitive unit identification number, enter “YES” in the table column if the described component(s) are included in the fugitive unit. If no such components are present in the fugitive unit, enter “NO” in the table column. Indicate only those components which are subject to 40 CFR Part 63, Subpart H. This information will ensure that only the appropriate requirements for each fugitive unit are reflected in the permit. The following table lists the component types.

**Title 40 CFR Part 63, Subpart H Fugitive Unit Component Types**

<b>Component Type</b>	<b>Type of Service or Control Device</b>
Pumps	Light Liquid Service ( <i>Table 9c</i> )
	Heavy Liquid Service ( <i>Table 9c</i> )
Compressors	Any ( <i>Table 9c</i> )
Pressure Relief Devices	Gas/Vapor Service ( <i>Table 9c</i> )
	Liquid Service ( <i>Table 9c</i> )
	Heavy Liquid Service ( <i>Table 9c</i> )
Sampling Connection Systems	Any ( <i>Table 9c</i> )
	Heavy Liquid Service ( <i>Table 9c</i> )
Open-ended Valves or Lines	Any ( <i>Table 9d</i> )
	Heavy Liquid Service ( <i>Table 9d</i> )
Valves	Gas/Vapor or Light Liquid Service ( <i>Table 9d</i> )
	Heavy Liquid Service ( <i>Table 9d</i> )
Connectors	Gas/Vapor or Light Liquid Service ( <i>Table 9d</i> )
	Heavy Liquid Service ( <i>Table 9d</i> )
Agitators	Gas/Vapor or Light Liquid Service ( <i>Table 9e</i> )
	Heavy Liquid Service ( <i>Table 9e</i> )
Instrumentation Systems	Any ( <i>Table 9e</i> )
	Heavy Liquid Service ( <i>Table 9e</i> )
Surge Control Vessels or Bottom Receivers	Any ( <i>Table 9e</i> )
	Heavy Liquid Service ( <i>Table 9e</i> )
Closed Vent Systems	Any ( <i>Table 9f</i> )
	Recovery or Recapture Devices ( <i>Table 9f</i> )
	Enclosed Combustion Devices ( <i>Table 9f</i> )
	Flares ( <i>Table 9f</i> )

★ **Complete the Following Items Only Where Appropriate.**

**Quality Improvement Program:**

Some fugitive unit components have the option to comply with a quality improvement program (QIP) (this applies to only those fugitive unit components with the “QIP” column). Enter “YES” in the table column if any of those particular fugitive unit components are complying with the requirements in 40 CFR § 63.175 or 40 CFR § 63.176, as appropriate. Otherwise, enter “NO.”

**Control Device ID No.:**

If applicable, enter the identification number (ID No.) for the control device to which emissions are routed (maximum 10 characters). This number should be consistent with the control device identification number on Form OP-SUM (Individual Unit Summary). Use multiple lines if more than one control device is used. If there is no control device, then leave this column blank.

**Tables 9g: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart H: National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks**

**Unit ID No.:**

Enter the identification number (ID No.) for the fugitive unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

**SOP Index No.:**

Site operating permit (SOP) applicants should indicate the SOP Index Number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ Web site at [www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/additional\\_fop\\_guidance.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf).

**By-Pass Lines:**

Enter “YES” if the fugitive unit contains any closed-vent systems containing by-pass lines that could divert a vent stream away from the control device and to the atmosphere. Otherwise, enter “NO.”

**Unsafe to Inspect:**

Enter “YES” if the fugitive unit contains any closed-vent system with parts designated as unsafe to inspect. Otherwise, enter “NO.”

**Difficult to Inspect:**

Enter “YES” if the fugitive unit contains any closed-vent system with parts designated as difficult to inspect. Otherwise, enter “NO.”

**Employee Number:**

Enter “YES” if the corporation employs fewer than 100 persons, including employees providing professional and technical contract services. Otherwise, enter “NO.”

**Title 40 CFR Part 63, Subpart H Fugitive Unit Description:**

Provide a brief description (maximum 250 characters) of the area containing the fugitive equipment or the grouping of equipment. If the “Title 40 CFR Part 63, Subpart H Fugitive Unit Description” is the same as the “Title 30 TAC Chapter 115 Fugitive Unit Description,” enter “SAME” in this space. Example descriptions include: “transfer and loading fugitives,” “storage area fugitives,” “manufacturing fugitives,” “pipeline fugitives,” etc. Use multiple lines, if necessary.

---



---

**Table 10: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart I: National Emission Standards for Organic Hazardous Air Pollutants for Certain Processes Subject to the Negotiated Regulation for Equipment Leaks**

★ **Complete only for plant sites that are major sources as defined in Section 112(a) of the Federal Clean Air Act.**

**Unit ID No.:**

Enter the identification number (ID No.) for the fugitive unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

**SOP Index No.:**

Site operating permit (SOP) applicants should indicate the SOP Index Number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP and GOP index numbers please go to the TCEQ Web site at [www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/additional\\_fop\\_guidance.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf).

*Note to SOP Applicants: Some fugitive units may have all equipment identified in 40 CFR Part 63, Subpart I. Applicants may choose to identify the SOP index number as "63I-ALL" in lieu of the corresponding unit attributes information. Use of this index number will imply that all requirements, other than closed vent system and control device requirements, in the regulation apply to the fugitive unit. If closed vent systems and control devices are also used to comply, this information, with identification numbers, must be submitted on the appropriate table of the form. Please note that this index number cannot be used if an alternative has been approved.*

**Process Type:**

Enter "YES" if the fugitive unit contains one of the processes listed in 40 CFR § 63.190(b)(1) - (6). Otherwise, enter "NO."

▼ **Continue only if "Process Type" is "YES."**

**Designated HAPs:**

Enter "YES" if the fugitive unit has the designated organic hazardous air pollutants (HAPs). Otherwise, enter "NO."

▼ **Continue only if "Designated HAPs" is "YES."**

**AMEL:**

An alternate means of emission limitation (AMEL) approved by the EPA Administrator under 40 CFR §63.192(h), may be used to achieve a reduction in organic HAP emissions at least equivalent to the reduction in organic HAP emissions from that source achieved under any design, equipment, work practice, or operational standard in Title 40 CFR Part 63, Subpart H. If the fugitive unit is complying with an AMEL, enter "YES." Otherwise, enter "NO."

**AMEL ID No.:**

If an AMEL has been approved, enter the corresponding AMEL unique identifier (maximum 10 characters) for each fugitive unit. If the unique identifier is unavailable, then enter the date of the AMEL approval letter in the table column. The unique identifier and/or the date of the approval letter is contained in the Compliance File under the appropriate account number. Otherwise, leave this column blank.

---



---

**Tables 11a - 11c: Title 40 Code of Federal Regulations Part 61 (40 CFR Part 61), Subpart F: National Emission Standard for Vinyl Chloride**
**Unit ID No.:**

Enter the identification number (ID No.) for the fugitive unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

**SOP Index No.:**

Site operating permit (SOP) applicants should indicate the SOP Index Number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ Web site at [www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/additional\\_fop\\_guidance.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf).

*Note to SOP Applicants: Some fugitive units may have all equipment identified in 40 CFR Part 61, Subpart F. Applicants may choose to identify the SOP index number as "61F-ALL" in lieu of the corresponding unit attribute information. Use of this index number will imply that all requirements, other than closed vent system and control device requirements, in the regulation apply to the fugitive unit. If closed vent systems and control devices are also used to comply, this information, with identification numbers, must be submitted on the appropriate table of the form. Please note that this index number cannot be used if an alternative has been approved.*

**Title 40 CFR Part 61, Subpart F Fugitive Unit Components:**

The columns on Tables 11a through 11c correspond to the types of fugitive unit components addressed in 40 CFR Part 61, Subpart F. In the row for each fugitive unit identification number, enter "YES" in the table column if the described component(s) are included in the fugitive unit. If no such components are present in the fugitive unit, enter "NO" in the table column. Indicate components subject to 40 CFR Part 61, Subpart F only. This information will ensure that only the appropriate requirements for each fugitive unit are reflected in the permit. The following table lists the component types.

**Title 40 CFR Part 61, Subpart F Fugitive Unit Component Types**

Component Type	Type of Service or Control Device
Relief Valves	Any (Table 11a)
Loading and Unloading	Fugitive emissions from loading or unloading lines (Table 11a)
Slip Gauges	Slip gauges from loading or unloading operations (Table 11a)
In process Wastewater Streams	Any (Table 11a)
Pumps	Rotating Pumps (Table 11a)
	Reciprocating Pumps (Table 11a)
Compressors	Rotating Compressors (Table 11a)
	Reciprocating Compressors (Table 11a)
Agitator	Any (Table 11b)
Sampling Equipment	Any (Table 11b)
Valve	Not Relief Valves or Valves on Open-ended Lines (Table 11b)
Open-Ended Valves or Lines	Any (Table 11b)
Control Device	Flare (Table 11b)
	Enclosed Combustion Device (Table 11c)
	Vapor Recovery System (Table 11c)

★ **Complete the Following Items Only Where Appropriate**

**Approved Leak Detection Plan:**

Enter “YES” if the process unit is using a vinyl chloride monitoring system for leak detection operating under a program approved by the EPA Administrator. Otherwise, enter “NO.”

**Multiple Process Service Line:**

Enter “YES” if there are open-ended valves or lines located on a multiple process service line that operate in vinyl chloride service less than 10% of the time and are addressed in the monitoring plan under 40 CFR § 61.65(b)(8)(i). Otherwise, enter “NO.”

**Control Device ID No.:**

If applicable, enter the identification number (ID No.) for the control device to which emissions are routed (maximum 10 characters). This number should be consistent with the control device identification number listed on Form OP SUM entitled, “Individual Unit Summary.” If there is no control device, then leave this column blank.

**Title 40 CFR Part 61, Subpart F Fugitive Unit Description:**

Provide a brief description of the area containing the fugitive equipment or the grouping of equipment (maximum 250 characters). If the “Title 40 CFR Part 61, Subpart F Fugitive Unit Description” is the same as the “Title 30 TAC Chapter 115 Fugitive Unit Description,” enter “SAME” in the table column. Example descriptions include: “transfer and loading fugitives,” “storage area fugitives,” “manufacturing fugitives,” “pipeline fugitives,” etc. Use multiple lines, if necessary.

**Table 12a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart CC: National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries**

★ **Complete only for plant sites that are a major source and that contain or contact one or more of the hazardous air pollutants (HAPs) listed in Table 1 of Title 40 CFR Part 63, Subpart CC.**

**Unit ID No.:**

Enter the identification number (ID No.) for the fugitive unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

**SOP Index No.:**

Site operating permit (SOP) applicants should indicate the SOP Index Number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ Web site at [www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/additional\\_fop\\_guidance.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf).

*Note to SOP Applicants: Some fugitive units may have all equipment identified in 40 CFR Part 63, Subpart CC. Applicants may choose to identify the SOP index number as “63CCH-ALL”, if the unit is a new unit, or an existing unit complying using the 40 CFR Part 63, Subpart H option, or “63CCVV-ALL”, if the unit is an existing unit and complying using the 40 CFR Part 60, Subpart VV option, in lieu of the corresponding unit attribute information. Use of this index number will imply that all requirements, other than closed vent system and control device requirements, in the regulation apply to the fugitive unit. If closed vent systems and control devices are also used to comply, this information must be submitted, with control device identification numbers, on the appropriate table of the form. Please note that this index number cannot be used if an alternative has been approved.*

**Existing Source:**

Enter “YES” if the source is an existing source. Otherwise, enter “NO.”

★ **Complete “Complying With 40 CFR Part 60, Subpart VV” Only if “Existing Source” is “YES.”**

**Complying With 40 CFR Part 60, Subpart VV:**

Enter “YES” if complying with the provisions of 40 CFR Part 60, Subpart VV. Otherwise, enter “NO.”

★ **Go to Table 12g if “Complying with 40 CFR Part 60, Subpart VV” is “YES.”**

**AMEL:**

Enter “YES” if the fugitive unit is complying with an alternative means of emission limitation (AMEL). Otherwise, enter “NO.”

★ **Go to Table 12c if “Alternative Means of Emission Limitation” is “NO.”**

**Table 12b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart CC: National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries**

**Unit ID No.:**

Enter the identification number (ID No.) for the fugitive unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

**SOP Index No.:**

Site operating permit (SOP) applicants should indicate the SOP Index Number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ Web site at [www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/additional\\_fop\\_guidance.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf).

**Enclosed-Vented Process Unit AMEL:**

Enter “YES” if the fugitive unit contains an enclosed-vented process unit complying with the alternative means of emission limitation (AMEL) in 40 CFR § 63.179. Otherwise, enter “NO.”

**General AMEL:**

Enter “YES” if the fugitive unit is complying with the AMEL in 40 CFR § 63.177. Otherwise, enter “NO.”

**AMEL ID No.:**

If an AMEL has been approved, enter the corresponding AMEL unique identifier for each fugitive unit. If the unique identifier is unavailable, then enter the date of the AMEL approval letter in the table column. The unique identifier and/or the date of the approval letter is contained in the Compliance File under the appropriate account number. Otherwise, leave this column blank.

**Units without an AMEL:**

Enter “YES” if the fugitive unit contains any equipment or process units not complying with an AMEL limitation in 40 CFR § 63.177 or 40 CFR § 63.179. Otherwise, enter “NO.”

▼ **Continue only if “Units without an AMEL” is “YES.”**

**Table 12c - 12f: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart CC: National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries**

**Unit ID No.:**

Enter the identification number (ID No.) for the fugitive unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

**SOP Index No.:**

Site operating permit (SOP) applicants should indicate the SOP Index Number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ Web site at [www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/additional\\_fop\\_guidance.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf).

**Title 40 CFR PART 63, SUBPART CC Fugitive Unit Components Complying With MACT H:**

The columns on Tables 12c through 12f correspond to the types of fugitive unit components addressed in 40 CFR Part 63, Subpart CC that are complying with 40 CFR Part 63, Subpart H. In the row for each fugitive unit identification number, enter “YES” in a column if the described component(s) are included in the fugitive unit. If no such components are present in the fugitive unit, enter “NO” in the table column. Indicate components subject to 40 CFR Part 63, Subpart CC only. This information will ensure that only the appropriate requirements for each fugitive unit are reflected in the permit. The following table lists the component types.

**Title 40 CFR Part 63, Subpart CC Fugitive Unit Components Complying With MACT H**

<b>Component Type</b>	<b>Type of Service or Control Device</b>
Pumps	Light Liquid Service ( <i>Table 12c</i> )
Non-Reciprocating Pumps	Heavy Liquid Service ( <i>Table 12c</i> )
Compressors	Hydrogen Service ( <i>Table 12c</i> )
	Not in Hydrogen Service ( <i>Table 12c</i> )
Pressure Relief Devices	Gas/Vapor Service ( <i>Table 12c</i> )
	Liquid Service ( <i>Table 12c</i> )
Sampling Connection Systems	Any ( <i>Table 12c</i> )
	Heavy Liquid Service ( <i>Table 12c</i> )
Open-ended Valves or Lines	Any ( <i>Table 12d</i> )
	Heavy Liquid Service ( <i>Table 12d</i> )
Valves	Gas/Vapor or Light Liquid Service ( <i>Table 12d</i> )
	Heavy Liquid Service ( <i>Table 12d</i> )
Connectors	Gas/Vapor or Light Liquid Service ( <i>Table 12d</i> )
	Heavy Liquid Service ( <i>Table 12d</i> )
Instrumentation Systems	Any ( <i>Table 12e</i> )
Closed Vent Systems	Any ( <i>Table 12e</i> )
	Recovery or Recapture Devices ( <i>Table 12e</i> )
	Enclosed Combustion Devices ( <i>Table 12f</i> )
	Flares ( <i>Table 12f</i> )

★ **Complete the Following Items Where Appropriate.****Monitoring Connectors:**

Enter “YES” if monitoring connectors according to the provisions of 40 CFR § 63.649. Otherwise, enter “NO.”

**Leakless Phase III Valves:**

Enter "YES" if any valves have been designated as being leakless in phase III of the valve standard. Otherwise, enter "NO."

**Monitoring Valves:**

Enter "YES" if monitoring valves in accordance with 40 CFR § 63.648(c)(2)(ii). Otherwise, enter "NO."

**Subpart H Program:**

Enter "YES" if implementing the Subpart H program (a program to comply with the provisions in 40 CFR § 63.174). Otherwise, enter "NO."

**Random 200:**

Enter "YES" if implementing the random 200 connector alternative. Otherwise, enter "NO."

**Control Device ID No.:**

If applicable, enter the identification number (ID No.) for the control device to which emissions are routed (maximum 10 characters). This number should be consistent with the control device identification number on Form OP-SUM (Individual Unit Summary). Use multiple lines if more than one control device is used. If there is no control device, then leave this column blank.

**Bypass Lines:**

Enter "YES" if the fugitive unit contains any closed-vent systems containing bypass lines that could divert a vent stream away from the control device and to the atmosphere. Otherwise, enter "NO."

**Unsafe to Inspect:**

Enter "YES" if the fugitive unit contains any closed-vent system with parts designated as unsafe to inspect. Otherwise, enter "NO."

**Difficult to Inspect:**

Enter "YES" if the fugitive unit contains any closed-vent system with parts designated as difficult to inspect. Otherwise, enter "NO."

**Table 12g - 12p: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart CC: National Emission Standards for Hazardous Air Pollutants From Petroleum Refineries**

- ★ Complete Tables 12g - 12p only for equipment in organic HAP service, complying with 40 CFR Part 60, Subpart VV.

**Unit ID No.:**

Enter the identification number (ID No.) for the fugitive unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

**SOP Index No.:**

Site operating permit (SOP) applicants should indicate the SOP Index Number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ Web site at [www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/additional\\_fop\\_guidance.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf).

**Title 40 CFR Part 63, Subpart CC Fugitive Unit Components Complying With NSPS VV:**

The columns on Tables 12g through 12p correspond to the types of fugitive unit components addressed in 40 CFR Part 63, Subpart CC that are complying with 40 CFR Part 60, Subpart VV. In the row for each fugitive unit identification number, enter “YES” in a column if the described component(s) are included in the fugitive unit. If no such components are present in the fugitive unit, enter “NO” in the table column. Indicate components subject to 40 CFR Part 63, Subpart CC only. This information will ensure that only the appropriate requirements for each fugitive unit are reflected in the permit. The following table lists the component types.

**Title 40 CFR Part 63, Subpart CC Fugitive Unit Components Complying With NSPS VV**

Component Type	Type of Service or Control Device
Vacuum Service ( <i>Table 12g</i> )	Facility Has Equipment in Vacuum Service
Pumps	Light Liquid Service ( <i>Table 12g</i> )
	Heavy Liquid Service ( <i>Table 12g</i> )
Compressors	Hydrogen Service( <i>Table 12h</i> )
	Not in Hydrogen Service ( <i>Table 12h</i> )
Pressure Relief Devices	Gas/Vapor Service ( <i>Table 12i</i> )
Pressure Relief Devices	Light Liquid or Heavy Liquid Service ( <i>Table 12i</i> )
	Heavy Liquid Service ( <i>Table 12j</i> )
Sampling Connection Systems ( <i>Table 12j</i> )	Any
Open-ended Valves or Lines ( <i>Table 12k</i> )	Any
Valves	Gas/Vapor or Light Liquid Service ( <i>Table 12k</i> )
	Heavy Liquid Service ( <i>Table 12l</i> )
Flanges and Other Connectors ( <i>Table 12l</i> )	Any
Closed-vent Systems and Control Devices	Vapor Recovery System ( <i>Table 12m</i> )
	Enclosed Combustion Device ( <i>Table 12n</i> )
	Flare ( <i>Table 12o</i> )
	Closed Vent (or Vapor Collection) Systems ( <i>Table 12p</i> )

★ **Complete the Following Items, Where Appropriate.**

**Equivalent Emission Limitation:**

An equivalent emission limitation (EEL), approved by the EPA Administrator under 40 CFR § 60.484, may be used for certain fugitive unit components to achieve a reduction in VOC emissions at least equivalent to the reduction in VOC emissions achieved by controls required in 40 CFR Part 60, Subpart VV.

*If any of the type of fugitive unit components indicated in the preceding columns are complying with an EEL, enter “YES.” Otherwise, enter “NO.”*

**EEL ID No.:**

If an EEL has been approved, enter the corresponding EEL unique identifier for each fugitive unit (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the EEL approval letter in the table column. The unique identifier and/or the date of the approval letter is contained in the Compliance File under the appropriate account number. Otherwise, leave this column blank.

**Complying with 40 CFR § 60.482:**

Some fugitive unit components have the option to comply with 40 CFR § 60.482 (This applies to only those fugitive unit components with the “Complying with 40 CFR § 60.482” column preceding it). Enter “YES” if any of those particular fugitive unit components are complying with the requirements in 40 CFR §§ 60.482-2 - 8, or 40 CFR § 60.482-10, as appropriate. Otherwise, enter “NO.”

*Note: Enter “YES” for “Complying with 40 CFR § 60.482” unless all of those specified fugitive unit components are operating under an EEL.*

**Complying With § 60.482-4(a)-(b):**

Enter “YES” if the fugitive unit includes pressure relief devices complying with 40 CFR § 60.482-4(a) and (b). Otherwise, enter “NO.”

**Control Device ID No.:**

If applicable, enter the identification number (ID No.) for the control device to which emissions are routed (maximum 10 characters). This number should be consistent with the control device identification number on Form OP-SUM (Individual Unit Summary). Use multiple lines, if more than one control device is used. If there is no control device, then leave this column blank.

**Table 12q: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart CC: National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries**

**Unit ID No.:**

Enter the identification number (ID No.) for the fugitive unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

**SOP Index No.:**

Site operating permit (SOP) applicants should indicate the SOP Index Number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ Web site at [www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/additional\\_fop\\_guidance.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf).

**Title 40 CFR Part 63, Subpart CC Fugitive Unit Description:**

Provide a brief description of the area containing the fugitive equipment or the grouping of equipment (maximum 250 characters). If the “Title 40 CFR Part 63, Subpart CC Fugitive Unit Description” is the same as the “Title 30 TAC Chapter 115 Fugitive Unit Description,” enter “SAME” in this space. Example descriptions include: “transfer and loading fugitives,” “storage area fugitives,” “manufacturing fugitives,” “pipeline fugitives,” etc. Use multiple lines, if necessary.

---



---

**Tables 13a - 13m: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart HH: National Emission Standards for Hazardous Air Pollutants from Oil and Natural Gas Production Facilities**

- ★ **Complete Tables 13a - 13m for the following types of equipment, located at natural gas processing plants meeting the 40 CFR §63.761 definition of a major source of HAPs that meet the criteria specified in 40 CFR § 63.760(a)(1) and either 40 CFR § 63.760(a)(2) or (a)(3), but not meeting an exemption specified in 40 CFR § 63.760(e):**
- **ancillary equipment**
  - **compressors**

**Unit ID No.:**

Enter the identification number (ID No.) for the fugitive unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

**SOP/GOP Index No.:**

Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). General operating permit (GOP) applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). For additional information relating to SOP and GOP index numbers please go to the TCEQ Web site at [www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/additional\\_fop\\_guidance.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf).

*Note to GOP Applicants: Use the component types table below and the applicable GOP table to determine the GOP Index Numbers that apply to the fugitive components subject to 40 CFR Part 63, Subpart HH. Enter the "Unit ID No." and the applicable GOP Index Numbers on Table 13a. If the component type and/or applicable GOP index number are not included in the component types table below, answer the questions below and enter the "Unit ID No." and the applicable GOP Index Numbers on Table 13.*

*Note to SOP Applicants: Some fugitive units may have all equipment identified in 40 CFR Part 63, Subpart HH. Applicants may choose to identify the SOP index number as "63HH-ALL" in lieu of the corresponding unit attributes information. Use of this index number will imply that all requirements, other than closed vent system and control device requirements, in the regulation apply to the fugitive unit. If closed vent systems and control devices are also used to comply, this information must be submitted, with control device identification numbers, on the appropriate table of the form. Please note that this index number cannot be used if an alternative has been approved, if the fugitive unit is located at a non-fractionating plant with a capacity of less than 283,000 standard cubic meters per day or at a non-fractionating plant with pressure relief valves monitored only by non-facility personnel.*

**AMEL (Alternate Means of Emission Limitation):**

Enter "YES" if the EPA Administrator has approved an AMEL in accordance with 40 CFR § 63.777. Otherwise, enter "NO."

**AMEL ID No.:**

If an AMEL has been approved, then enter the corresponding AMEL unique identifier for each unit. If the unique identifier is unavailable then enter the date of the AMEL approval. The unique identifier and/or the date of the approval letter is contained in the compliance file under the appropriate account number. Otherwise, leave this column blank.

- ▼ **Continue only if "Alternate Means of Emission Limitation" is "NO."**

**Subject to Another Regulation:**

Select one of the following options for the regulation that the fugitive unit is subject to and controlled under. Enter the code on the form.

Code	Description
NSPS-OOOO	Subject to and controlled under the provisions of 40 CFR part 60, Subpart OOOO
NESHAP-V	Subject to and controlled under the provisions of 40 CFR part 61, Subpart V
MACT-H	Subject to and controlled under the provisions of 40 CFR part 63, Subpart H
NONE	Not subject to and controlled under any of the above regulations

▼ **Continue only if “Subject to Another Regulation” is “NONE.”**

**VHAP Weight Percent:**

Select one of the following options that describes the volatile hazardous air pollutant (VHAP) weight percent of the fluid (liquid or gas) which the ancillary equipment or compressors contain. Enter the code on the form.

Code	Description
10-	Ancillary equipment or compressors contact fluid that is less than 10 % VHAP
10+	Ancillary equipment or compressors contact fluid that is more than or equal to 10 % VHAP

**Less Than 300 Operating Hours:**

Enter “YES” if any of the ancillary equipment or compressors operates in VHAP service less than 300 hours per calendar year. Otherwise, enter “NO.”

**Vacuum Service:**

Enter “YES” if the fugitive unit contains equipment in vacuum service. Otherwise, enter “NO.”

**Sampling Connection Systems:**

Enter “YES” if the ancillary equipment includes sampling connection systems. Otherwise enter “NO.”

**Title 40 CFR Part 63, Subpart HH Fugitive Unit Components:**

The columns on Tables 13b through 13m correspond to the types of fugitive unit components addressed in 40 CFR Part 63, Subpart HH. In the row for each unit identification number, enter “YES” in a column if the described component(s) are included in the fugitive unit. If no such components are present in the fugitive unit, enter a “NO” in the column. Indicate components subject to 40 CFR Part 63, Subpart HH only. This information will ensure that only the appropriate requirements for each fugitive unit are reflected in the permit. The following table lists the component types.

**Title 40 CFR Part 63, Subpart HH Fugitive Unit Component Types**

Component Type	Type of Service or Control Device	GOP Index Number
Any Component	Vacuum Service( <i>Table 13a</i> )	511-03-004
		512-03-004
		513-03-004
		514-03-004
Sampling Connection Systems	Any( <i>Table 13a</i> )	511-03-005
		512-03-005
		513-03-005
		514-03-005
Pumps	Located at a nonfractionating plant with a design capacity < 283,000 scm/day( <i>Table 13b</i> )	511-03-006
		512-03-006
	Located at a nonfractionating plant with a design capacity > 283,000 scm/day	513-03-006
		514-03-006
Compressors	Reciprocating compressor in wet gas service( <i>Table 13c</i> )	511-03-007
		512-03-007
	Other VHAP service ( <i>Table 13c</i> )	513-03-007
		514-03-007
Compressors	Reciprocating compressor in wet gas service( <i>Table 13c</i> )	511-03-008
		512-03-008
	Other VHAP service ( <i>Table 13c</i> )	513-03-008
		514-03-008
Compressors	Other VHAP service ( <i>Table 13c</i> )	511-03-009
		512-03-009
	Other VHAP service ( <i>Table 13c</i> )	513-03-009
		514-03-009
Pressure Relief Devices	In gas/vapor service, located at a nonfractionating plant monitored only by non-facility personnel( <i>Table 13d</i> )	511-03-010
		512-03-010
	In gas/vapor service, located at a nonfractionating plant with a design capacity < 283,000 scm/day( <i>Table 13d</i> )	513-03-010
		514-03-010
Pressure Relief Devices	In gas/vapor service, located at a nonfractionating plant with a design capacity < 283,000 scm/day( <i>Table 13d</i> )	511-03-011
		512-03-011
	In gas/vapor service, located at a nonfractionating plant with a design capacity < 283,000 scm/day( <i>Table 13d</i> )	513-03-011
		514-03-011

Component Type	Type of Service or Control Device	GOP Index Number
Pressure Relief Devices	In gas/vapor service, located at a nonfractionating plant with a design capacity > 283,000 scm/day or at a fractionation plant ( <i>Table 13d</i> )	511-03-012 512-03-012 513-03-012 514-03-012
	In liquid service ( <i>Table 13e</i> )	511-03-016 512-03-016 513-03-016 514-03-016
Open-ended Valves or Lines	VHAP Service( <i>Table 13f</i> )	511-03-013 512-03-013 513-03-013 514-03-013
Valves	In gas/vapor service, located at a nonfractionating plant with a design capacity < 283,000 scm/day( <i>Table 13g</i> )	511-03-014 512-03-014 513-03-014 514-03-014
	In gas/vapor service, located at a nonfractionating plant with a design capacity > 283,000 scm/day or at a fractionation plant	511-03-015 512-03-015 513-03-015 514-03-015
Flanges and Other Connectors	VHAP Service( <i>Table 13h</i> )	511-03-016 512-03-016 513-03-016 514-03-016
Product Accumulator Vessels	VHAP Service( <i>Table 13i</i> )	511-03-017 512-03-017 513-03-017 514-03-017
Closed-vent Systems and Control Devices	Vapor Recovery System ( <i>Table 13j</i> )	511-03-018 512-03-018 513-03-018 514-03-018
	Enclosed Combustion Device ( <i>Table 13k</i> )	511-03-019 512-03-019 513-03-019 514-03-019
	Flare ( <i>Table 13l</i> )	511-03-020 512-03-020 513-03-020 514-03-020
	Closed-Vent Systems ( <i>Table 13m</i> )	511-03-021 512-03-021 513-03-021 514-03-021

★ **Complete the Following Items, Where Appropriate.**

**Relief Device Monitoring:**

Enter "YES" if the pressure relief devices in gas/vapor service are located in a nonfractionating facility that is monitored only by non-facility personnel.

**Design Capacity Less Than 283,000:**

Enter "YES" if the pumps, valves in gas/vapor or light liquid service, or pressure relief devices in gas/vapor service, as applicable, are located at a nonfractionating plant with a design capacity less than 283,000 scm/day of field gas. Otherwise, enter "NO."

**Reciprocating Compressors in Wet Gas Service:**

Enter "YES" if all compressors in the fugitive unit are reciprocating compressors in wet gas service. Otherwise, enter "NO."

**AMEL:**

For the indicated fugitive unit component types, if any piece of equipment of that type is complying with an alternate means of emission limitation (AMEL), approved by the EPA Administrator under 40 CFR § 61.244, enter "YES". Otherwise, enter "NO."

**AMEL ID No.:**

If an AMEL has been approved, enter the corresponding AMEL unique identifier for each fugitive unit (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the AMEL approval letter in the table column. The unique identifier and/or the date of the approval letter is contained in the Compliance File under the appropriate account number. Otherwise, leave this column blank.

**Complying with 40 CFR § 61.242:**

For the indicated fugitive unit component types, if any piece of equipment of that type is complying with the requirements in 40 CFR §§ 61.242-2 through 242-4, 40 CFR §§ 61.242-6 through 242-9, 40 CFR § 61.242-11(b) - (d), or 40 CFR § 61.242-11(f)(1), as appropriate, enter "YES." Otherwise, enter "NO."

*Note: Enter "YES" for "Complying with 40 CFR § 61.242" unless:*

- *all equipment of the specified fugitive unit component type is operating under an AMEL, or*
- *"Design Capacity Less than 283,000," "Relief Device Monitoring," or "Reciprocating Compressors in Wet Gas Service" is "YES."*

**Control Device ID No.:**

If applicable, enter the identification number (ID No.) for the control device to which emissions are routed (maximum 10 characters). This number should be consistent with the control device identification number on Form OP-SUM (Individual Unit Summary). Use multiple lines if more than one control device is used. If there is no control device, then leave this column blank.

**Title 40 CFR Part 63, Subpart HH Fugitive Unit Description:**

Provide a brief description of the fugitive unit equipment (maximum 250 characters). If the "Title 40 CFR Part 63, Subpart HH Fugitive Unit Description" is the same as the "Title 30 TAC Chapter 115 Fugitive Unit Description," enter "SAME" in this space. Example descriptions include "transfer and loading fugitives", "storage area fugitives", "manufacturing fugitives", "pipeline fugitives," etc. Use multiple lines, if necessary.

---



---

**Tables 14a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart U: National Emission Standards for Hazardous Air Pollutant Emissions: Group I Polymers and Resins**

★ **Complete only for sources subject 40 CFR Part 63, Subpart U.**

**Unit ID No.:**

Enter the identification number (ID No.) for the fugitive unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

**SOP Index No.:**

Site operating permit (SOP) applicants should indicate the SOP Index Number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ Web site at [www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/additional\\_fop\\_guidance.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf).

*Note to SOP Applicants: Some fugitive units may have all equipment identified in 40 CFR Part 63, Subpart U. Applicants may choose to identify the SOP index number as "63U-ALL" in lieu of the corresponding unit attributes information. Use of this index number will imply that all requirements, other than closed vent system and control device requirements, in the regulation apply to the fugitive unit. If closed vent systems and control devices are also used to comply, this information, with identification numbers, must be submitted on the appropriate table of the form. Fugitive units containing surge control vessels not routed to a process or not complying with the requirements of 40 CFR § 63.119(b) or (c) must indicate closed vent system and control device requirements. Please note that this index number cannot be used if an alternative has been approved.*

**Equipment Type:**

Enter "YES" if the fugitive unit contains equipment as defined 40 CFR § 63.482 which is operated in hazardous air pollutant service. Otherwise, enter "NO."

▼ **Continue only If "Equipment Type" is "YES."**

**Vacuum Service:**

Enter "YES" if all of the equipment in the fugitive unit is in vacuum service. Otherwise, enter "NO."

▼ **Continue only if "Vacuum Service" is "NO."**

**Enclosed-Vented Process Unit AMEL:**

Enter "YES" if the fugitive unit contains an enclosed-vented process unit complying with the alternate method of emission limitation (AMEL) in 40 CFR § 63.179. Otherwise, enter "NO."

**Batch Process AMEL:**

Enter "YES" if the fugitive unit contains a batch process complying with the AMEL in 40 CFR § 63.178. Otherwise, enter "NO."

★ **Complete "Pressure Test" and "Heavy Liquid Service" Only If "Batch Process AMEL" is "YES."**

**Pressure Test:**

Enter "YES" if the batch product process equipment train is pressure tested to demonstrate compliance with 40 CFR Part 63, Subpart H. Otherwise, enter "NO."

**Heavy Liquid Service:**

Enter "YES" if any batch process complying with the AMEL in 40 CFR § 63.178 contains equipment in heavy liquid service. Otherwise, enter "NO."

- ▼ **Continue only if the fugitive unit contains equipment not complying with either of the AMELs in 40 CFR §§ 63.178 or 63.179.**

---

**Tables 14b - 14m: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart U: National Emission Standards for Hazardous Air Pollutant Emissions: Group I Polymers and Resins**

**Unit ID No.:**

Enter the identification number (ID No.) for the fugitive unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

**SOP Index No.:**

Site operating permit (SOP) applicants should indicate the SOP Index Number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ Web site at [www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/additional\\_fop\\_guidance.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf).

**Title 40 CFR Part 63, Subpart U Fugitive Unit Components:**

The columns on Tables 14b through 14m correspond to the types of fugitive unit components addressed in 40 CFR Part 63, Subpart U. In the row for each fugitive unit identification number, enter “YES” in the table column if the described component(s) are included in the fugitive unit. If no such components are present in the fugitive unit, enter “NO” in the table column. Indicate only those components which are subject to 40 CFR Part 63, Subpart U. This information will ensure that only the appropriate requirements for each fugitive unit are reflected in the permit. The following table lists the component types.

**Title 40 CFR Part 63, Subpart U Fugitive Unit Component Types**

<b>Component Type</b>	<b>Type of Service or Control Device</b>
Pumps	Light Liquid Service ( <i>Table 14b</i> )
	Heavy Liquid Service ( <i>Table 14e</i> )
Compressors	Any ( <i>Table 14b</i> )
Pressure Relief Devices	Gas/Vapor Service ( <i>Table 14c</i> )
	Liquid Service ( <i>Table 14g</i> )
Sampling Connection Systems	Any ( <i>Table 14c</i> )
Open-ended Valves or Lines	Any ( <i>Table 14d</i> )
Valves	Gas/Vapor or Light Liquid Service ( <i>Table 14d</i> )
	Heavy Liquid Service ( <i>Table 14e</i> )
Connectors	Gas/Vapor or Light Liquid Service ( <i>Table 14i</i> )
	Heavy Liquid Service ( <i>Table 14f</i> )
Agitators	Gas/Vapor or Light Liquid Service ( <i>Table 14i</i> )
	Heavy Liquid Service ( <i>Table 14f</i> )
Instrumentation Systems	Any ( <i>Table 14g</i> )
Surge Control Vessels or Bottom Receivers	Any ( <i>Table 14h</i> )
Closed Vent Systems	Any ( <i>Table 14j</i> )
	Recovery or Recapture Devices ( <i>Table 14k</i> )
	Enclosed Combustion Devices ( <i>Table 14l</i> )
	Flares ( <i>Table 14m</i> )

★ **Complete “AMEL” for each component type for which the fugitive unit has equipment.**

**AMEL:**

For the indicated fugitive unit component types, if any of the equipment of a type is complying with the AMEL in 40 CFR § 63.177, enter “YES.” Otherwise, enter “NO.”

**AMEL ID No.:**

If an AMEL has been approved, enter the corresponding AMEL unique identifier for each fugitive unit (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the AMEL approval letter in the table column. The unique identifier and/or the date of the approval letter is contained in the Compliance File under the appropriate account number. Otherwise, leave this column blank.

**Complying with 40 CFR § 63.163 through § 63.169 or § 63.172 through § 63.174:**

For the indicated fugitive unit component types, if any piece of equipment of that type is complying with the requirements in 40 CFR §§ 63.163 through 63.169 or 40 CFR §§ 63.172 through 63.174, as appropriate, enter "YES." Otherwise, enter "NO."

- ★ **Complete "§ 63.502(b)(1)-(7) Criteria" only if the fugitive unit has surge control vessels or bottoms receivers.**

**§ 63.502(b)(1)-(7) Criteria:**

Enter "YES" if the fugitive unit has surge control vessels or bottoms receivers that do not meet the exemption criteria of 40 CFR § 63.502(b)(1)-(7). Otherwise, enter "NO."

- ★ **Complete "Vapor Pressure Criteria" only if "§ 63.502(b)(1)-(7) Criteria" is "YES."**

**Vapor Pressure Criteria:**

Enter "YES" if the fugitive unit has surge control vessels or bottoms receivers that operate at vapor pressures equal to or greater than the vapor pressures in 40 CFR Part 63, Subpart H, Tables 2 and 3. Otherwise, enter "NO."

- ★ **Complete "Compliance with § 63.119(b) or (c)" only if "Vapor Pressure Criteria" is "YES."**

**Compliance With § 63.119(b) or (c):**

Enter "YES" if the fugitive unit has surge control vessels or bottoms receivers that do not comply with the requirements of 40 CFR § 63.119(b) or (c). Otherwise, enter "NO."

- ★ **Complete "Routed to Process" only if "Compliance with § 63.119(b) or (c)" is "YES."**

**Routed To Process:**

Enter "YES" if the fugitive unit has surge control vessels or bottoms receivers that are not routed back to a process. Otherwise, enter "NO."

**Heat Exchange Systems:**

Enter "YES" if the fugitive unit contains heat exchange systems subject to 40 CFR § 63.502. Otherwise, enter "NO."

- ★ **Complete "Subpart Compliance" only if "Heat Exchange Systems" is "YES."**

**Subpart Compliance:**

Enter "YES" if the heat exchange systems are subject to and complying with the requirements of 40 CFR Part 63, Subpart F or a subpart, other than 40 CFR Part 63, Subpart U, that requires compliance with 40 CFR § 63.104. Otherwise, enter "NO."

- ★ **Complete "Cooling Water Monitored" only if "Subpart Compliance" is "NO."**

**Cooling Water Monitored:**

Enter "YES" if cooling water is being monitored for the presence of HAPs. Otherwise, enter "NO."

- ★ **Complete "Control Device ID No." only if the fugitive unit is using control devices for control of emissions.**

**Control Device ID No.:**

If applicable, enter the identification number (ID No.) for the control device to which emissions are routed (maximum 10 characters). This number should be consistent with the control device identification number on Form OP-SUM (Individual Unit Summary). Use multiple lines if more than one control device is used. If there is no control device, then leave this column blank.

**Title 40 CFR Part 63, Subpart U Fugitive Unit Description:**

Provide a brief description (maximum 250 characters) of the area containing the fugitive equipment or the grouping of equipment. If the “Title 40 CFR Part 63, Subpart U Fugitive Unit Description” is the same as the “Title 30 TAC Chapter 115 Fugitive Unit Description,” enter “SAME” in this space. Example descriptions include: “transfer and loading fugitives,” “storage area fugitives,” “manufacturing fugitives,” “pipeline fugitives,” etc. Use multiple lines, if necessary.

**Table 15a:** **Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart JJJ: National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins**

★ **Complete Tables 15a through 15n only for fugitive units that contain a Thermoplastic Product Process Unit (TPPU) subject to 40 CFR Part 63, Subpart JJJ.**

**Unit ID No.:**

Enter the identification number (ID No.) for the fugitive unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

**SOP Index No.:**

Site operating permit (SOP) applicants should indicate the SOP Index Number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ Web site at [www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/additional\\_fop\\_guidance.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf).

*Note to SOP Applicants: Some fugitive units may have all equipment identified in 40 CFR Part 63, Subpart JJJ. Applicants may choose to identify the SOP index number as “63JJJ-ALL” in lieu of the corresponding unit attributes information. Use of this index number will imply that all requirements, other than closed vent system and control device requirements, in the regulation apply to the fugitive unit. If closed vent systems and control devices are also used to comply, this information must be submitted, with control device identification numbers, on the appropriate table of the form. Please note that this index number cannot be used if an alternative has been approved.*

**Equipment Type:**

Enter “YES” if the fugitive unit contains equipment as defined 40 CFR § 63.1312 which is operated in hazardous air pollutant service. Otherwise, enter “NO.”

▼ **Continue only if “Equipment Type” is “YES.”**

**Product Produced:**

Enter “YES” if the product produced by the TPPU is Polyethylene Terephthalate (PET). Otherwise, enter “NO.”

★ **Complete “Process Type” only if “Product Produced” is “YES.” If “Product Produced” is “NO,” go to Table 15b.**

**Process Type:**

Enter “YES” if PET is produced using a continuous terephthalic acid (TPA) high viscosity multiple end finisher process. Otherwise, enter “NO.”

▼ **Do Not Continue if “Product Produced” is “YES” and “Process Type” is “NO.”**

★ **Complete “Vacuum Service” only if “Product Produced” is “YES” and “Process Type” is “YES.”**

**Vacuum Service:**

Enter “YES” if all of the equipment in the fugitive unit is in either vacuum service or heavy liquid service. Otherwise, enter “NO.”

▼ **Continue only if “Vacuum Service” is “NO.”**

---

---

**Table 15b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart JJJ: National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins**

**Unit ID No.:**

Enter the identification number (ID No.) for the fugitive unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

**SOP Index No.:**

Site operating permit (SOP) applicants should indicate the SOP Index Number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ Web site at [www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/additional\\_fop\\_guidance.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf).

**Enclosed-Vented Process Unit AMEL:**

Enter “YES” if the fugitive unit contains an enclosed-vented process unit complying with the alternate method of emission limitation (AMEL) in 40 CFR § 63.179. Otherwise, enter “NO.”

**Batch Process AMEL:**

Enter “YES” if the fugitive unit contains a batch process complying with the AMEL in 40 CFR § 63.178. Otherwise, enter “NO.”

★ **Complete “Pressure Test” and “Heavy Liquid Service” Only If “Batch Process AMEL” is “YES.”**

**Pressure Test:**

Enter “YES” if the batch product process equipment train is pressure tested to demonstrate compliance with 40 CFR Part 63, Subpart H. Otherwise, enter “NO.”

**Heavy Liquid Service:**

Enter “YES” if any batch process complying with the AMEL in 40 CFR § 63.178 contains equipment in heavy liquid service. Otherwise, enter “NO.”

▼ **Continue Only if the fugitive unit contains equipment not complying with either of the AMELs in 40 CFR §§ 63.178 or 63.179.**

---

---

**Tables 15c - 15n: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart JJJ: National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins**

**Unit ID No.:**

Enter the identification number (ID No.) for the fugitive unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

**SOP Index No.:**

Site operating permit (SOP) applicants should indicate the SOP Index Number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ Web site at [www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/additional\\_fop\\_guidance.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf).

**Title 40 CFR Part 63, Subpart JJJ Fugitive Unit Components:**

The columns on Tables 15c through 15n correspond to the types of fugitive unit components addressed in 40 CFR Part 63, Subpart JJJ. In the row for each fugitive unit identification number, enter “YES” in the table column if the described component(s) are included in the fugitive unit. If no such components are present in the fugitive unit, enter “NO” in the table column. Indicate only those components which are subject to 40 CFR Part 63, Subpart JJJ. This information will ensure that only the appropriate requirements for each fugitive unit are reflected in the permit. The following table lists the component types.

**Title 40 CFR Part 63, Subpart JJJ Fugitive Unit Component Types**

<b>Component Type</b>	<b>Type of Service or Control Device</b>
Pumps	Light Liquid Service ( <i>Table 15c</i> )
	Heavy Liquid Service ( <i>Table 15f</i> )
Compressors	Any ( <i>Table 15c</i> )
Pressure Relief Devices	Gas/Vapor Service ( <i>Table 15d</i> )
	Liquid Service ( <i>Table 15h</i> )
Sampling Connection Systems	Any ( <i>Table 15d</i> )
Open-ended Valves or Lines	Any ( <i>Table 15e</i> )
Valves	Gas/Vapor or Light Liquid Service ( <i>Table 15e</i> )
	Heavy Liquid Service ( <i>Table 15f</i> )
Connectors	Gas/Vapor or Light Liquid Service ( <i>Table 15j</i> )
	Heavy Liquid Service ( <i>Table 15g</i> )
Agitators	Gas/Vapor or Light Liquid Service ( <i>Table 15j</i> )
	Heavy Liquid Service ( <i>Table 15g</i> )
Instrumentation Systems	Any ( <i>Table 15h</i> )
Surge Control Vessels or Bottom Receivers	Any ( <i>Table 15i</i> )
Closed Vent Systems	Any ( <i>Table 15k</i> )
	Recovery or Recapture Devices ( <i>Table 15l</i> )
	Enclosed Combustion Devices ( <i>Table 15m</i> )
	Flares ( <i>Table 15n</i> )

★ **Complete “AMEL” for each component type for which the fugitive unit has equipment.**

**AMEL:**

For the indicated fugitive unit component types, if any of the equipment of a type is complying with the AMEL in 40 CFR § 63.177, enter “YES.” Otherwise, enter “NO.”

**AMEL ID No.:**

If an AMEL has been approved, enter the corresponding AMEL unique identifier for each fugitive unit (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the AMEL approval letter in the table column. The unique identifier and/or the date of the approval letter is contained in the Compliance File under the appropriate account number. Otherwise, leave this column blank.

**Complying with 40 CFR § 63.163 through § 63.169 or § 63.172 through § 63.174:**

For the indicated fugitive unit component types, if any piece of equipment of that type is complying with the requirements in 40 CFR §§ 63.163 through 63.169 or 40 CFR §§ 63.172 through 63.174, as appropriate, enter "YES." Otherwise, enter "NO."

- ★ Complete "Vapor Pressure Criteria" only if the fugitive unit has surge control vessels or bottoms receivers.

**Vapor Pressure Criteria:**

Enter "YES" if the fugitive unit has surge control vessels or bottoms receivers that operate at vapor pressures equal to or greater than the vapor pressures in 40 CFR Part 63, Subpart H, Tables 2 and 3. Otherwise, enter "NO."

- ★ Complete "Compliance with § 63.119(b) or (c)" only if "Vapor Pressure Criteria" is "YES."

**Compliance With § 63.119(b) or (c):**

Enter "YES" if the fugitive unit has surge control vessels or bottoms receivers that do not comply with the requirements of 40 CFR § 63.119(b) or (c). Otherwise, enter "NO."

- ★ Complete "Routed to Process" only if "Compliance with § 63.119(b) or (c)" is "YES."

**Routed to Process:**

Enter "YES" if the fugitive unit has surge control vessels or bottoms receivers that are not routed back to a process. Otherwise, enter "NO."

**Title 40 CFR Part 63, Subpart JJJ Fugitive Unit Description:**

Provide a brief description (maximum 250 characters) of the area containing the fugitive equipment or the grouping of equipment. If the "Title 40 CFR Part 63, Subpart JJJ Fugitive Unit Description" is the same as the "Title 30 TAC Chapter 115 Fugitive Unit Description," enter "SAME" in this space. Example descriptions include: "transfer and loading fugitives," "storage area fugitives," "manufacturing fugitives," "pipeline fugitives," etc. Use multiple lines, if necessary.

**Tables 16a - 16g: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115), Subchapter H: Fugitive Emissions (HRVOC)**

- ★ Complete Table 16 only for sites located in the Houston/Galveston/Brazoria area.

**Unit ID No.:**

Enter the identification number (ID No.) for the fugitive unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

**SOP/GOP Index No.:**

Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). General operating permit (GOP) applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). For additional information relating to SOP and GOP index numbers please go to the TCEQ Web site at [www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/additional\\_fop\\_guidance.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf).

*Note to GOP Applicants: Use the component types table below and the applicable GOP table to determine the GOP Index Numbers that apply to the fugitive components subject to 30 TAC Chapter 115, Subchapter H. Enter the "Unit ID No." and the applicable GOP Index Numbers on Table 16a. If the component type and/or applicable GOP index number are not included in the component types table below, answer the questions below and enter the "Unit ID No." and the applicable GOP Index Numbers on Table 16.*

*Note to SOP Applicants: Some fugitive units may have all equipment identified in 30 TAC § 115.780 Applicants may choose to identify the SOP index number as “R5780-ALL” in lieu of the corresponding unit attribute information. Use of this index number will imply that all requirements, other than closed vent system and control device requirements, in the regulation apply to the fugitive unit. If closed vent systems and control devices are also used to comply, this information, with identification numbers, must be submitted on the appropriate table of the form. Please note that this index number cannot be used if an alternative has been approved of for GOPs.*

**Title 30 TAC § 115.780 Applicable:**

Enter “YES” if the site contains a process unit or process within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl tert-butyl ether manufacturing process; or natural gas/gasoline processing operation, in which a highly-reactive volatile organic compound (HRVOC) is a raw material, intermediate, final product, or in a waste stream. Otherwise, enter “NO.”

▼ **Continue only if “Title 30 TAC § 115.780 Applicable” is “YES.”**

**Less Than 250 Components At Site:**

Enter “YES” if the fugitive unit is located at a site with less than 250 fugitive components in VOC service. Otherwise, enter “NO.”

▼ **Continue only if “Less Than 250 Components at Site” is “NO.”**

**Weight Percent HRVOC:**

Select one of the following HRVOC weight percents of the process fluid which is in contact with the fugitive unit components. Enter the code on the form.

Code	Description
5.0-	All components only contact a process fluid that contains less than 5.0% HRVOC by weight on an annual average basis
5.0+	All components only contact a process fluid that contains greater than or equal to 5.0% HRVOC by weight on an annual average basis
BOTH	Components in the fugitive unit contact process fluids that contain less than 5.0% HRVOC by weight and process fluids that contains HRVOC at 5.0%, or greater, by weight

▼ **Continue only If “Weight Percent HRVOC” Is “5.0+” or “BOTH.”**

**Shaft Seal System:**

Enter “YES” if any of the pumps, compressors, or agitators are equipped with a shaft sealing system that prevents or detects emission of VOC from the seal. Otherwise, enter “NO.”

**Title 30 TAC Chapter 115 Fugitive Unit Components:**

The columns on Tables 16a through 16c correspond to the types of fugitive unit components addressed in 30 TAC Chapter 115, Subchapter H, Division 3: Fugitive Emissions (HRVOC). In the row for each fugitive unit identification number, enter a “YES” in a column if the described component(s) are included in the fugitive unit. If no such components are present in the fugitive unit, enter a “NO” in the column. This information will ensure that only the appropriate requirements for each fugitive unit are reflected in the permit. The following table lists the component types.

**Title 30 TAC Chapter 115 Fugitive Unit Component Types**

Component Type	Type of Service or Control Device	GOP Index Number
Process Drains	HRVOC Service ( <i>Table 16b</i> )	511-42-003
Pressure Relief Valves	Gaseous Service ( <i>Table 16b</i> )	511-42-004
Open-ended Valves or Lines	HRVOC Service ( <i>Table 16c</i> )	511-42-005
Bypass Line Valves	HRVOC Service ( <i>Table 16c</i> )	511-42-006
Valves (other than pressure relief, open-ended, and bypass line)	HRVOC Service ( <i>Table 16d</i> )	511-42-007
Flanges or Other Connectors	HRVOC Service ( <i>Table 16d</i> )	511-42-008
Compressors	Seals without shaft sealing system ( <i>Table 16e</i> )	511-42-009
	With shaft sealing system ( <i>Table 16a</i> )	511-42-021
Pumps	Seals without shaft sealing system ( <i>Table 16e</i> )	511-42-010
	With shaft sealing system ( <i>Table 16a</i> )	511-42-020
Agitators	Without shaft sealing system ( <i>Table 16f</i> )	511-42-011
	With shaft sealing system ( <i>Table 16a</i> )	511-42-022
Heat Exchanger Heads, Sight Glasses, Meters, Gauges, Sampling Connections, Bolted Manways, Hatches, Sump Covers, Junction Box Vents, or Covers and Seals on VOC Water Separators	HRVOC Service ( <i>Table 16f</i> )	511-42-012

★ **Complete the Following Items, Where Appropriate.****Alternate Control Requirement:**

The TCEQ Executive Director may have approved an alternate method for demonstrating and documenting continuous compliance with an alternate control requirement (ACR) or exemption criteria for certain fugitive unit components.

*If any of the type of fugitive unit components indicated in the preceding columns are complying with an ACR, enter “YES.” Otherwise, enter “NO,” (GOP applicants must enter “NO.”)*

**ACR ID No.:**

If an ACR has been approved, then enter the corresponding ACR unique identifier for each fugitive unit (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the ACR approval letter in the table column. The unique identifier and/or the date of the approval letter is contained in the Compliance File under the appropriate account number. Otherwise, leave this column blank.

**Complying with 30 TAC § 115.781(b)(9):**

Enter “YES” if any of the indicated fugitive components are complying with the requirements of 30 TAC § 115.781(b)(9). Otherwise, enter “NO.”

**Alternative Work Practice in 30 TAC § 115.358:**

Enter “YES” if any components are complying with the alternative work practice requirements in 30 TAC § 115.358. Otherwise, enter “NO.”

**Title 30 TAC Chapter 115 Fugitive Unit Description:**

Provide a brief description of the fugitive unit equipment (maximum 250 characters). If the “Title 30 TAC § 115.780 Fugitive Unit Description” is the same as the “Title 40 CFR Part 60, Subpart KKK Fugitive Unit Description,” enter “SAME” in this space. Example descriptions include: “transfer and loading fugitives,” “storage area fugitives,” “manufacturing fugitives,” “pipeline fugitives,” etc. Use multiple lines, if necessary.

**Tables 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**

**Unit ID No.:**

Enter the identification number (ID No.) for the fugitive unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

**SOP Index No.:**

Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ Web site at [www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/additional\\_fop\\_guidance.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf).

*Note to SOP Applicants: Some fugitive units may have all equipment identified in 40 CFR Part 60, Subpart VVa. Applicants may choose to identify the SOP index number as “60VVA-ALL” in lieu of the corresponding unit attribute information. Use of this index number will imply that all requirements, other than closed vent system and control device requirements, in the regulation apply to the fugitive unit. If closed vent systems and control devices are also used to comply, this information, with identification numbers, must be submitted on the appropriate table of the form. Please note that this index number cannot be used if an alternative has been approved.*

**Produces Chemicals:**

Enter “YES” if the facility produces, as an intermediate or final product, one or more of the chemicals listed in 40 CFR § 60.489a. Otherwise, enter “NO.”

▼ Continue Only If “Produces Chemicals” is “YES.”

**Affected Facility:**

Enter “YES” if the facility is an affected facility as defined in 40 CFR § 60.480a(a)(2). Otherwise, enter “NO.”

▼ Continue only if “Affected Facility” is “YES.”

**Construction/Modification Date:**

Select one of the following codes that describes the date of commencement of the most recent construction, reconstruction, or modification. Enter the code on the form.

Code	Description
06-	On or before November 7, 2006
06+	After November 7, 2006

▼ Continue only if “Construction/Modification Date” is “06+.”

**Compliance Option:**

Select one of the following codes that describes which provisions the owner or operator is choosing to comply with. Enter the code on the form.

Code	Description
65F	Choosing to comply with the provisions of 40 CFR Part 65, Subpart F
63H	Choosing to comply with the provisions of 40 CFR Part 63, Subpart H
60VVA	Choosing to comply with the provisions of 40 CFR Part 60, Subpart VVa

▼ **Continue only if “Compliance Option” is “60VVA”**

**Design Capacity:**

Select one of the following ranges to describe the design capacity. Enter the code on the form.

Code	Description
1000-	Site with a design capacity is less than 1,000 Mg/yr
1000+	Site with a design capacity is greater than or equal to 1,000 Mg/yr

▼ **Continue only if “Design Capacity” is “1000+.”**

**Facility Type:**

Select one of the following codes that describe which facility type describes the fugitive operations. Enter the code on the form.

Code	Description
HLC	The facility produces heavy-liquid chemicals only from heavy liquid feed or raw materials
BAP	The facility produces beverage alcohol
EVOCS	The facility contains NO equipment designed to operate in VOC service
VS	The facility contains equipment in vacuum service
VOCS	The owner or operators designated the equipment as being in VOC service less than 300 hours per year
OTHER	Other facility type

▼ **Continue only if “Facility Type” is “OTHER”**

---

**Tables 17b-17l: 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**

**Unit ID No.:**

Enter the identification number (ID No.) for the fugitive unit (maximum 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

**SOP Index No.:**

Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers please go to the TCEQ Web site at [www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/additional\\_fop\\_guidance.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf).

**Title 40 CFR Part 60, Subpart VVa Fugitive Unit Components:**

The columns on Tables 17b through 17k correspond to the types of fugitive unit components addressed in 40 CFR Part 60, Subpart VVa. In the row for each fugitive unit Identification number, enter a “YES” in a column if the described component(s) are included in the fugitive unit. If no such components are present in the fugitive unit, enter a “NO” in the column. Indicate components subject to 40 CFR Part 60, Subpart VVa only. This information will ensure that only the appropriate requirements for each fugitive unit are reflected in the permit. The following table lists the component types.

**Title 40 CFR Part 60, Subpart VVa Fugitive Unit Component Types**

Component Type	Type of Service or Control Device
Pumps	Light Liquid Service ( <i>Table 17b</i> )
	Heavy Liquid Service ( <i>Table 17f</i> )
Compressors	Any ( <i>Table 17c</i> )
Pressure Relief Devices	Gas/Vapor Service ( <i>Table 17c</i> )
	Light Liquid ( <i>Table 17g</i> )
	Heavy Liquid Service ( <i>Table 17g</i> )
Sampling Connection Systems	Any ( <i>Table 17d</i> )
Open-ended Valves or Lines	Any ( <i>Table 17d</i> )
Valves	Gas/Vapor or Light Liquid Service ( <i>Table 17e</i> )
	Heavy Liquid Service ( <i>Table 17f</i> )
Connectors	Heavy Liquid ( <i>Table 17g</i> )
	Gas/Vapor or Light Liquid Service ( <i>Table 17k</i> )
Closed-vent Systems and Control Devices	Vapor Recovery System ( <i>Table 17h</i> )
	Enclosed Combustion Device ( <i>Table 17i</i> )
	Flare ( <i>Table 17j</i> )
	Closed Vent (or Vapor Collection) Systems ( <i>Table 17k</i> )

★ **Complete the Following Items, Where Appropriate.****Equivalent Emission Limitation:**

An equivalent emission limitation (EEL), approved by the EPA Administrator under 40 CFR § 60.480a(e), may be used for certain fugitive unit components to achieve a reduction in VOC emissions at least equivalent to the reduction in VOC emissions achieved by controls required in 40 CFR Part 60, Subpart VVa.

*If any of the type of fugitive unit components indicated in the preceding columns are complying with an EEL, enter “YES.” Otherwise, enter “NO.”*

**EEL ID No.:**

If an EEL has been approved, enter the corresponding EEL unique identifier for each fugitive unit (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the EEL approval letter in the table column. The unique identifier and/or the date of the approval letter is contained in the Compliance File under the appropriate account number. Otherwise, leave this column blank.

**2.0%:**

Enter “YES” if the owner or operator is electing to comply with an allowable percentage of valves leaking equal to or less than 2.0%. Otherwise, enter “NO.”

*Note: Enter “YES” for “Complying with 40 CFR § 60.482a” unless all of those specified fugitive unit components are operating under an EEL.*

**Complying With 60.482a:**

Some fugitive unit components have the option to comply with 40 CFR§ 60.482a (This applies to only those fugitive unit components with the “Complying with 40 CFR § 60.482a” column preceding it). Enter “YES” if any of those particular fugitive unit components are complying with the requirements in 40 CFR §§ 60.482-2a – 3a, 40 CFR §§ 60.482-5a – 8a or 40 CFR § 60.482-10a, as appropriate. Otherwise, enter “NO.”

**Title 40 CFR Part 60, Subpart VVa Fugitive Unit Description:**

Provide a brief description of the area containing the fugitive equipment or the grouping of equipment (maximum 250 characters). If the “Title 40 CFR Part 60, Subpart VVa Fugitive Unit Description” is the same as the “Title 30 TAC Chapter 115 Fugitive Unit Description,” enter “SAME” in this space. Example descriptions include: “transfer and loading fugitives,” “storage area fugitives,” “manufacturing fugitives,” “pipeline fugitives,” etc. Use multiple lines, if necessary.







**Fugitive Emission Unit Attributes**

**Form OP-UA12 (Page 4)**

**Federal Operating Permit Program**

**Table 1d: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)**

**Subpart KKK: Standards of Performance for Equipment Leaks of VOC from Onshore Natural Gas Processing Plants**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP Index No.	Title 40 CFR Part 60, Subpart KKK Fugitive Unit Components (continued)							
		Pressure Relief Devices (continued)							
		Light Liquid Service	AMEL	AMEL ID No.	Complying With § 60.482-8	Heavy Liquid Service	AMEL	AMEL ID No.	Complying With § 60.482-8





**Fugitive Emission Unit Attributes  
 Form OP-UA12 (Page 7)  
 Federal Operating Permit Program  
 Table 1g: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)  
 Subpart KKK: Standards of Performance for Equipment Leaks of VOC from Onshore Natural Gas Processing Plants**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP Index No.	Title 40 CFR Part 60, Subpart KKK Fugitive Unit Components (continued)								
		Valves (continued)				Closed Vent Systems and Control Devices				
		Heavy Liquid Service	AMEL	AMEL ID No.	Complying With § 60.482-8	Control Devices Used to Comply With AMEL	AMEL ID No.	Flare	Control Device ID No.	Complying With §60.482-10









**Fugitive Emission Unit Attributes**

**Form OP-UA12 (Page 12)**

**Federal Operating Permit Program**

**Table 2b: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)**

**Subchapter D: Fugitive Emission Control in Petroleum Refining, Natural Gas/Gasoline Processing,  
and Petrochemical Processes in Ozone Nonattainment Areas**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

<b>Unit ID No.</b>	<b>SOP/GOP Index No.</b>	<b>Rupture Disks</b>	<b>Instrumentation Systems</b>	<b>Sampling Connection Systems</b>	<b>TVP ≤ 0.002 psia</b>



**Fugitive Emission Unit Attributes**

**Form OP-UA12 (Page 14)**

**Federal Operating Permit Program**

**Table 2d: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)  
Subchapter D: Fugitive Emission Control in Petroleum Refining, Natural Gas/Gasoline Processing,  
and Petrochemical Processes in Ozone Nonattainment Areas**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP Index No.	Title 30 TAC Chapter 115 Fugitive Unit Components (continued)					
		Pressure Relief Valves	ACR	ACR ID No.	Complying with §115.352(1)	TVP of Process Fluid VOC ≤ 0.044 psia at 68° F	TVP of Process Fluid VOC > 0.044 psia at 68° F







**Fugitive Emission Unit Attributes**

**Form OP-UA12 (Page 18)**

**Federal Operating Permit Program**

**Table 2h: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)  
Subchapter D: Fugitive Emission Control in Petroleum Refining, Natural Gas/Gasoline Processing,  
and Petrochemical Processes in Ozone Nonattainment Areas**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP Index No.	Title 30 TAC Chapter 115 Fugitive Unit Components <i>(continued)</i>					
		Agitators	ACR	ACR ID No.	Complying with § 115.352(1)	TVP of Process Fluid VOC < 0.044 psia at 68°F	TVP of Process Fluid VOC > 0.044 psia at 68°F











**Fugitive Emission Unit Attributes**  
**Form OP-UA12 (Page 24)**  
**Federal Operating Permit Program**  
**Table 3c: Title 40 Code of Federal Regulations Part 61 (40 CFR Part 61)**  
**Subpart V: National Emission Standard for Equipment Leaks (Fugitive Emission Sources)**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP Index No.	Title 40 CFR Part 61, Subpart V Fugitive Unit Components (continued)							
		Pressure Relief Devices							
		Gas/Vapor Service	AMEL	AMEL ID No.	Complying With § 61.242-4	Liquid Service	AMEL	AMEL ID No.	Complying With § 61.242-8



**Fugitive Emission Unit Attributes**  
**Form OP-UA12 (Page 26)**  
**Federal Operating Permit Program**  
**Table 3e: Title 40 Code of Federal Regulations Part 61 (40 CFR Part 61)**  
**Subpart V: National Emission Standard for Equipment Leaks (Fugitive Emission Sources)**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP Index No.	Title 40 CFR Part 61, Subpart V Fugitive Unit Components (continued)							
		Valves	AMEL	AMEL ID No.	Complying With § 61.242-7	Flanges and Other Connectors	AMEL	AMEL ID No.	Complying With § 61.242-8













**Fugitive Emission Unit Attributes**

**Form OP-UA12 (Page 33)**

**Federal Operating Permit Program**

**Table 4b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)**

**Subpart VV: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP Index NO.	Title 40 CFR Part 60, Subpart VV Fugitive Unit Components						
		Any Component			Pumps			
		Equipment in VOC Service	Vacuum Service	VOC Service	Light Liquid Service	EEL	EEL ID No.	Complying With § 60.482-2



**Fugitive Emission Unit Attributes**

**Form OP-UA12 (Page 35)**

**Federal Operating Permit Program**

**Table 4d: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)**

**Subpart VV: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP Index No.	Title 40 CFR Part 60, Subpart VV Fugitive Unit Components (continued)							
		Sampling Connection System				Valves			
		Sampling Connection	EEL	EEL ID No.	Complying with 60.482-5	Open-Ended	EEL	EEL ID No.	Complying with 60.482-6



**Fugitive Emission Unit Attributes**

**Form OP-UA12 (Page 37)**

**Federal Operating Permit Program**

**Table 4f: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)**

**Subpart VV: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP Index No.	Title 40 CFR Part 60, Subpart VV Fugitive Unit Components (continued)							
		Pumps				Valves			
		Heavy Liquid Service	EEL	EEL ID No.	Complying with 60.482-8	Heavy Liquid Service	EEL	EEL ID No.	Complying with 60.482-8

**Fugitive Emission Unit Attributes**

**Form OP-UA12 (Page 38)**

**Federal Operating Permit Program**

**Table 4g: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)**

**Subpart VV: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP Index No.	Title 40 CFR Part 60, Subpart VV Fugitive Unit Components (continued)							
		Pressure Relief Devices				Connectors			
		Heavy or Light Liquid Service	EEL	EEL ID No.	Complying with 60.482-8	Flanges and Other Connectors	EEL	EEL ID No.	Complying with 60.482-8











**Fugitive Emission Unit Attributes**

**Form OP-UA12 (Page 44)**

**Federal Operating Permit Program**

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

**Subpart DDD: Standards of Performance for Volatile Organic Compound (VOC) Emissions from the Polymer Manufacturing Industry**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

<b>Unit ID No.</b>	<b>SOP Index No.</b>	<b>Manufactured Product</b>	<b>Continuous Process</b>	<b>Construction/Modification Date</b>	<b>VOC Service</b>	<b>Design Capacity</b>	<b>Equipment in Vacuum Service</b>

**Fugitive Emission Unit Attributes**

**Form OP-UA12 (Page 45)**

**Federal Operating Permit Program**

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

**Subpart DDD: Standards of Performance for Volatile Organic Compound (VOC) Emissions from the Polymer Manufacturing Industry**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP Index No.	Title 40 CFR Part 60, Subpart DDD Fugitive Unit Components							
		Pumps							
		Light Liquid Service	EEL	EEL ID No.	Complying with § 60.482-2	Heavy Liquid Service	EEL	EEL ID No.	Complying with § 60.482-8



**Fugitive Emission Unit Attributes**

**Form OP-UA12 (Page 47)**

**Federal Operating Permit Program**

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

**Subpart DDD: Standards of Performance for Volatile Organic Compound (VOC) Emissions from the Polymer Manufacturing Industry**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP Index No.	Title 40 CFR Part 60, Subpart DDD Fugitive Unit Components								
		Pressure Relief Devices					Sampling Connection Systems	EEL	EEL ID No.	Complying with § 60.482-5
		Gas/Vapor Service	Light Liquid or Heavy Liquid Service	EEL	EEL ID No.	Complying with § 60.482-8				



**Fugitive Emission Unit Attributes**

**Form OP-UA12 (Page 49)**

**Federal Operating Permit Program**

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

**Subpart DDD: Standards of Performance for Volatile Organic Compound (VOC) Emissions from the Polymer Manufacturing Industry**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP Index No.	Title 40 CFR Part 60, Subpart DDD Fugitive Unit Components (continued)							
		Open-Ended Valves or Lines	EEL	EEL ID No.	Complying with § 60.482-6	Closed-Vent (Or Vapor Collection) Systems	EEL	EEL ID No.	Complying with § 60.482-10

**Fugitive Emission Unit Attributes**

**Form OP-UA12 (Page 50)**

**Federal Operating Permit Program**

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

**Subpart DDD: Standards of Performance for Volatile Organic Compound (VOC) Emissions from the Polymer Manufacturing Industry**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP Index No.	Title 40 CFR Part 60, Subpart DDD Fugitive Unit Components (continued)									
		Vapor Recovery System	EEL	EEL ID No.	Complying with § 60.482-10	Control Device ID No.	Enclosed Combustion Device	EEL	EEL ID No.	Complying with § 60.482-10	Control Device ID No.









**Fugitive Emission Unit Attributes**  
**Form OP-UA12 (Page 55)**  
**Federal Operating Permit Program**  
**Table 7c: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)**  
**Subchapter D: Fugitive Emission Control in Petroleum Refineries in Gregg, Nueces, and Victoria Counties**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP Index No.	Title 30 TAC § 115.322 Fugitive Unit Components (Continued)									
		Valves (Other Than Elevated or Pressure Relief Valves)									
		Gaseous VOC Service	ACR	ACR ID No.	Complying With § 115.327(5) and § 115.322(1)	Remaining Components Complying With § 115.322(1)	Liquid VOC Service	ACR	ACR ID No.	Complying With § 115.327(3) or (5) and § 115.322(1)	Remaining Components Complying With § 115.322(1)

**Fugitive Emission Unit Attributes**

**Form OP-UA12 (Page 56)**

**Federal Operating Permit Program**

**Table 7d: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)**

**Subchapter D: Fugitive Emission Control in Petroleum Refineries in Gregg, Nueces, and Victoria Counties**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP Index No.	Title 30 TAC § 115.322 Fugitive Unit Components (Continued)									
		Process Drains	ACR	ACR ID No.	Complying With § 115.327(3) and § 115.322(1)	Remaining Components Complying With § 115.322(1)	Compressor Seals	ACR	ACR ID No.	Complying with § 115.327(3) or (6) and § 115.322(1)	Remaining Components Complying With § 115.322(1)

**Fugitive Emission Unit Attributes**

**Form OP-UA12 (Page 57)**

**Federal Operating Permit Program**

**Table 7e: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)**

**Subchapter D: Fugitive Emission Control in Petroleum Refineries in Gregg, Nueces, and Victoria Counties**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP Index No.	Title 30 TAC § 115.322 Fugitive Unit Components (Continued)									
		Elevated Valves	ACR	ACR ID No.	Complying With § 115.327(3) or (5) and § 115.322(1)	Remaining Components Complying With § 115.322(1)	Pressure Relief Valve in Gaseous VOC Service	ACR	ACR ID No.	Complying With § 115.327(3) or (5) and § 115.322(1)	Remaining Components Complying With § 115.322(1)





**Fugitive Emission Unit Attributes  
 Form OP-UA12 (Page 60)  
 Federal Operating Permit Program  
 Table 8b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)  
 Subpart GGG: Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP Index No.	Title 40 CFR Part 60, Subpart GGG Fugitive Unit Components								
		Pumps								
		Vacuum Service	Light Liquid Service	EEL	EEL ID No.	Complying With § 60.482-2	Heavy Liquid Service	EEL	EEL ID No.	Complying With § 60.482-8





**Fugitive Emission Unit Attributes  
 Form OP-UA12 (Page 63)  
 Federal Operating Permit Program  
 Table 8e: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)  
 Subpart GGG: Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP Index No.	Title 40 CFR Part 60, Subpart GGG Fugitive Unit Components (continued)							
		Valves							
		Gas/Vapor or Light Liquid Service	EEL	EEL ID No.	Complying With § 60.482-7	Heavy Liquid Service	EEL	EEL ID No.	Complying With§ 60.482-8

















**Fugitive Emission Unit Attributes**  
**Form OP-UA12 (Page 72)**  
**Federal Operating Permit Program**  
**Table 9c: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**  
**Subpart H: National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP Index No.	Title 40 CFR Part 63, Subpart H Fugitive Unit Components								
		Pumps			Compressors	Pressure Relief Devices			Sampling Connection Systems	
		Light Liquid Service	Heavy Liquid Service	QIP	Any	Gas/Vapor Service	Liquid Service	Heavy Liquid Service	Any	Heavy Liquid Service

**Fugitive Emission Unit Attributes  
 Form OP-UA12 (Page 73)  
 Federal Operating Permit Program  
 Table 9d: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)  
 Subpart H: National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP Index No.	Title 40 CFR Part 63, Subpart H Fugitive Unit Components						
		Open-Ended Valves or Lines		Valves			Connectors	
		Any	Heavy Liquid Service	Gas/Vapor or Light Liquid Service	Heavy Liquid Service	QIP	Gas/Vapor or Light Liquid Service	Heavy Liquid Service









**Fugitive Emission Unit Attributes**  
**Form OP-UA12 (Page 78)**  
**Federal Operating Permit Program**  
**Table 11a: Title 40 Code of Federal Regulations Part 61 (40 CFR Part 61)**  
**Subpart F: National Emission Standard for Vinyl Chloride**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP Index No.	Title 40 CFR Part 61 Subpart F Fugitive Unit Components							
		Relief Valves	Loading and Unloading	Slip Gauges	In process Wastewater Streams	Pumps		Compressors	
						Rotating Pumps	Reciprocating Pumps	Rotating Compressors	Reciprocating Compressors

**Fugitive Emission Unit Attributes**  
**Form OP-UA12 (Page 79)**  
**Federal Operating Permit Program**  
**Table 11b: Title 40 Code of Federal Regulations Part 61 (40 CFR Part 61)**  
**Subpart F: National Emission Standard for Vinyl Chloride**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP Index No.	Title 40 CFR Part 61 Subpart F Fugitive Unit Components							
		Agitator	Sampling Equipment	Valves	Approved Leak Detection Plan	Open-ended Valves or Lines	Multiple Process Service Line	Flare	Control Device ID No.







**Fugitive Emission Unit Attributes**  
**Form OP-UA12 (Page 83)**  
**Federal Operating Permit Program**  
**Table 12c: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**  
**Subpart CC: National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP Index No.	Title 40 CFR Part 63, Subpart CC Fugitive Unit Components Complying with MACT H									
		Pumps		Non-Reciprocating Pumps		Compressors		Pressure Relief Devices		Sampling Connection Systems	
		Light Liquid Service	Heavy Liquid Service	Hydrogen Service	Not in Hydrogen Service	Gas/Vapor Service	Liquid Service	Any	Heavy Liquid Service		







**Fugitive Emission Unit Attributes**  
**Form OP-UA12 (Page 87)**  
**Federal Operating Permit Program**  
**Table 12g: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**  
**Subpart CC: National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP Index No.	Title 40 CFR Part 63, Subpart CC Fugitive Unit Components Complying with NSPS VV								
		Any	Pumps							
		Vacuum Service	Light Liquid Service	EEL	EEL ID No.	Complying With § 60.482-2	Heavy Liquid Service	EEL	EEL ID No.	Complying With § 60.482-8





**Fugitive Emission Unit Attributes**  
**Form OP-UA12 (Page 90)**  
**Federal Operating Permit Program**  
**Table 12j: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**  
**Subpart CC: National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP Index No.	Title 40 CFR Part 63, Subpart CC Fugitive Unit Components Complying with NSPS VV							
		Pressure Relief Devices (continued)				Sampling Connection Systems	EEL	EEL ID No.	Complying With § 60.482-5
		Heavy Liquid Service	EEL	EEL ID No.	Complying With § 60.482-8				

























































**Fugitive Emission Unit Attributes  
 Form OP-UA12 (Page 119)  
 Federal Operating Permit Program  
 Table 14i: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)  
 Subpart U: National Emission Standard for Hazardous Air Pollutant Emissions: Group I Polymers and Resins**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP Index No.	Agitators in Gas/Vapor or Light Liquid Service	AMEL	AMEL ID No.	Complying with § 63.173	Connectors in Gas/Vapor or Light Liquid Service	AMEL	AMEL ID No.	Complying with § 63.174











**Fugitive Emission Unit Attributes**  
**Form OP-UA12 (Page 125)**  
**Federal Operating Permit Program**  
**Table 15b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**  
**Subpart JJJ: National Emission Standard for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No	SOP Index No.	Enclosed Vented Process Unit AMEL	Batch Process AMEL	Pressure Test	Heavy Liquid Service

**Fugitive Emission Unit Attributes**  
**Form OP-UA12 (Page 126)**  
**Federal Operating Permit Program**  
**Table 15c: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**  
**Subpart JJJ: National Emission Standard for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP Index No.	40 CFR Part 63, Subpart JJJ Fugitive Unit Components							
		Pumps in Light Liquid Service	AMEL	AMEL ID No.	Complying with § 63.163	Compressors	AMEL	AMEL ID No.	Complying with § 63.164

**Fugitive Emission Unit Attributes**  
**Form OP-UA12 (Page 127)**  
**Federal Operating Permit Program**  
**Table 15d: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**  
**Subpart JJJ: National Emission Standard for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP Index No.	40 CFR Part 63, Subpart JJJ Fugitive Unit Components (continued)							
		Pressure Relief Devices in Gas/Vapor Service	AMEL	AMEL ID No.	Complying with § 63.165	Sampling Connection Systems	AMEL	AMEL ID No.	Complying with § 63.166

**Fugitive Emission Unit Attributes**  
**Form OP-UA12 (Page 128)**  
**Federal Operating Permit Program**  
**Table 15e: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**  
**Subpart JJJ: National Emission Standard for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP Index No.	40 CFR Part 63, Subpart JJJ Fugitive Unit Components (continued)							
		Open-ended Valves or Lines	AMEL	AMEL ID No.	Complying with § 63.167	Valves in Gas/Vapor or Light Liquid Service	AMEL	AMEL ID No.	Complying with § 63.168







**Fugitive Emission Unit Attributes**  
**Form OP-UA12 (Page 132)**  
**Federal Operating Permit Program**  
**Table 15i: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**  
**Subpart JJJ: National Emission Standard for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP Index No.	40 CFR Part 63, Subpart JJJ Fugitive Unit Components (continued)			
		Surge Control Vessels or Bottoms Receivers	Vapor Pressure Criteria	Compliance with § 63.119(b) or (c)	Routed to Process

**Fugitive Emission Unit Attributes**  
**Form OP-UA12 (Page 133)**  
**Federal Operating Permit Program**  
**Table 15j: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**  
**Subpart JJJ: National Emission Standard for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP Index No.	40 CFR Part 63, Subpart JJJ Fugitive Unit Components (continued)							
		Agitators in Gas/Vapor or Light Liquid Service	AMEL	AMEL ID No.	Complying with § 63.173	Connectors in Gas/Vapor or Light Liquid Service	AMEL	AMEL ID No.	Complying with § 63.174











**Fugitive Emission Unit Attributes**  
**Form OP-UA12 (Page 139)**  
**Federal Operating Permit Program**  
**Table 16b: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)**  
**Subchapter H: Fugitive Emissions (HRVOC)**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP/GOP Index No.	Title 30 TAC Chapter 115 Fugitive Unit Components (continued)							
		Process Drains	ACR	ACR ID No.	Complying with § 115.781(b)(9)	Pressure Relief Valves	ACR	ACR ID No.	Complying with § 115.781(b)(9)



**Fugitive Emission Unit Attributes**  
**Form OP-UA12 (Page 141)**  
**Federal Operating Permit Program**  
**Table 16d: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)**  
**Subchapter H: Fugitive Emissions (HRVOC)**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP/GOP Index No.	Title 30 TAC Chapter 115 Fugitive Unit Components (continued)							
		Valves (other than pressure relief, open-ended, and bypass line)	ACR	ACR ID No.	Complying with § 115.781(b)(9)	Flanges or Other Connectors	ACR	ACR ID No.	Complying with § 115.781(b)(9)

**Fugitive Emission Unit Attributes**  
**Form OP-UA12 (Page 142)**  
**Federal Operating Permit Program**  
**Table 16e: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)**  
**Subchapter H: Fugitive Emissions (HRVOC)**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP/GOP Index No.	Title 30 TAC Chapter 115 Fugitive Unit Components (continued)							
		Compressor Seals	ACR	ACR ID No.	Complying with § 115.781(b)(9)	Pump Seals	ACR	ACR ID No.	Complying with § 115.781(b)(9)

**Fugitive Emission Unit Attributes**  
**Form OP-UA12 (Page 143)**  
**Federal Operating Permit Program**  
**Table 16f: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)**  
**Subchapter H: Fugitive Emissions (HRVOC)**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP/GOP Index No.	Title 30 TAC Chapter 115 Fugitive Unit Components (continued)							
		Agitators	ACR	ACR ID No.	Complying with § 115.781(b)(9)	Heat Exchanger Heads, Sight Glasses, Meters, Gauges, Sampling Connections, Bolted Manways, Hatches, Sump Covers, Junction Box Vents, or Covers and Seals on VOC Water Separators	ACR	ACR ID No.	Complying with § 115.781(b)(9)















**Fugitive Emission Unit Attributes**

**Form OP-UA12 (Page 151)**

**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**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP Index No.	Title 40 CFR Part 60, Subpart VVa Fugitive Unit Components (continued)							
		Pressure Relief Devices				Connectors			
		Heavy or Light Liquid Service	EEL	EEL ID No.	Complying with 60.482-8a	Heavy Liquid Service	EEL	EEL ID No.	Complying with 60.482-8a









