# Form OP-UA12 - Instructions

# Fugitive Emission Unit Attributes

# Texas Commission on Environmental Quality

**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:

[44TUTables 1a](#Table1a)U44T - [44T1j](#Table1j)44T: 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

[44TTables 2a](#Table2a)44T - [44T2k](#Table2k)44T: 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

[44TTables 3a](#Table3a)44T - [44T3j](#Table3j)44T: Title 40 Code of Federal Regulations Part 61 (40 CFR Part 61), Subpart V: National Emission Standard for Equipment Leaks (Fugitive Emission Sources)

[44TTables 4a](#Table4a)44T - [44T4l](#Table4l)44T: 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 for which Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before November 7, 2006

[44TTables 5a](#Table5a)44T - [44T5h](#Table5h)44T: 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

[44TTable 6](#Table6)44T: 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

[44TTables 7a](#Table7a)44T - [44T7f](#Table7f)44T: 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

[44TTables 8a](#Table8a)44T - [44T8k](#Table8k)44T: 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 for which Construction, Reconstruction, or Modification Commenced after January 4, 1983, and on or Before November 7, 2006

[44TTables 9a](#Table9a)44T - [44T9g](#Table9g)44T: 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

[44TTable 10](#Table10)44T: 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

[44TTables 11a](#Table11a)44T - [44T11c](#Table11c)44T: Title 40 Code of Federal Regulations Part 61 (40 CFR Part 61), Subpart F: National Emission Standard for Vinyl Chloride

[44TTables 12a](#Table12a)44T - [44T12q](#Table12q)44T: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart CC: National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries

[**Tables 13a**](#Table13a)**44T -** [**44T13m**](#Table13m)**44T: 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**

[44TTables 14a](#Table14a)44T - [44T14m](#Table14m)44T: 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

[44TTables 15a](#Table15a)44T - [44T15n](#Table15n)44T: 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

[44TTables 16a](#Table16a)44T - [44T16g](#Table16g)44T: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115), Subchapter H: Fugitive Emissions (HRVOC)

[44TTables 17a](#Table17a)44T - [44T17l](#Table17I)44T: 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

[44TTables 18a](#_Table_18a:_Title)44T – [44T18l:](#_Table_18k:_Title)44T Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart GGGa: Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries for which Construction, Reconstruction, or Modification Commenced after November 7, 2006

[Tables 19a](#Table19a) – [19p](#Table19p): Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart OOOOa: Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015

[Tables 20a](#Table20a) – [20o](#Table20o): Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart OOOO: Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution for which Construction, Modification or Reconstruction Commenced After August 23, 2011, and on or before September 18, 2015

[Tables 21a](#Table21a) – [21aa](#Table21aa): Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart GGGGG: National Emission Standards for Hazardous Air Pollutants: Site Remediation

[Table 22a](#Table22a) – [22o](#Table22o): Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115), Subchapter B, Division 7: Oil and Natural Gas Service in Ozone Nonattainment Areas

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 (17TMM/DD/YYYY17T). 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 website at 44T[www.tceq.texas.gov/permitting/central\_registry](https://www.tceq.texas.gov/permitting/central_registry).

**Specific:**

[Tables 1a](#TBL1a) - [1j](#TBL1j): 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

*Note to GOP Applicants: Use the component types of 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.17T 17TIf the component type and/or applicable GOP index number are not included in the component types of 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) (Table 1a) | 511-10-007 |
|  | Reciprocating in Wet Gas Service (Table 1a) | 511-10-006 |
| Any Component | Vacuum Service (Table 1b) | 511-10-002 |
|  | Non-VOC or Non-wet Gas Service (Table 1b) | 511-10-003 |
| Pumps | Light Liquid Service (Table 1b) | 511-10-004 |
|  | Heavy Liquid Service (Table 1c) | 511-10-005 |
| Pressure Relief Devices | Gas/Vapor Service (Table 1c) | 511-10-008 |
|  | Light Liquid Service (Table 1d) | 511-10-009 |
|  | Heavy Liquid Service (Table 1d) | 511-10-009 |
| Open-ended Valves or Lines | Any (Table 1e) | 511-10-011 |
| Flanges and Other Connectors | Any (Table 1e) | 511-10-014 |
| Valves | Gas/Vapor Service (Table 1f) | 511-10-012 |
|  | Light Liquid Service (Table 1f) | 511-10-012 |
|  | Heavy Liquid Service (Table 1g) | 511-10-013 |
| Closed Vent Systems (CVS) and Control Devices | Flare (Table 1g) | 511-10-015 |
|  | Vapor Recovery System (Table 1h) | 511-10-016 |
|  | Enclosed Combustion Device (Table 1h) | 511-10-017 |
|  | Closed Vent System (Table 1i) | 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.

17TIf 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.

17TNote: Enter “YES” for “Complying with 40 CFR § 60.482” unless all of those specified fugitive unit components are operating under an AMEL17T 17Tor 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 proceeding 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](#TBL2a) - [2k](#TBL2k): 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; and
  + Gasoline terminals in the Beaumont/Port Arthur, Dallas/Fort Worth, or El Paso areas or a covered attainment county opting to comply with this rule as provided in § 115.214(a)(2) or § 115.214(b)(2).
  + Marine terminals in the Houston/Galveston area opting to comply with this rule as provided in §115.214(a)(3)(F).

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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

*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.17T 17TIf 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:

Select one of the following options to describe the applicability of this rule. Enter the code on the form.

**Code Description**

PETCHEM The site contains a petroleum refinery, a synthetic organic chemical, polymer, resin, or methyl‑tert-butyl ether manufacturing process as defined in 30 TAC § 115.10

NG The site contains a natural gas/gasoline processing operation as defined in 30 TAC § 115.10.

GTERM The site contains a gasoline terminal in the Beaumont/Port Arthur, Dallas/Fort Worth, or El Paso areas or a covered attainment county that is opting to comply with §§ 115.352-115.357 as provided in § 115.214(a)(2) or § 115.214(b)(2)

MTERM The site contains a marine terminal in the Houston/Galveston area subject to § 115.214(a)(3)(F), requiring shore-based equipment to comply with §§ 115.352-115.357

NONE The site does not contain a petroleum refinery, a synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, a natural gas/gasoline processing operation, a marine terminal subject to § 115.214(a)(3)(F), or a gasoline terminal complying with § 115.214(a)(2) or § 115.214(b)(2)

Continue only if “Title 30 TAC § 115.352 Applicable” is “PETCHEM,” “NG,” “GTERM,” or “MTERM.”

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.”

★ Complete “Weight Percent VOC” only if “Title 30 TAC § 115.352 Applicable” is “PETCHEM” or “NG.”

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”, “10+”, “1.0B”, or “1.0+” or if “Title 30 TAC § 115.352 Applicable” is “GTERM” or “MTERM”.

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 § 115.352 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 § 115.352 Fugitive Unit Components

| **59TComponent Type** | **59TType of Service** | **59TGOP Index Number** |
| --- | --- | --- |
| Process Drains 17T(Table 2c) | VOC Service | 511-11-009 |
| Pressure Relief Valves17T(Table 2d) | VOC Service | 511-11-008 |
| Open-ended Valves17T (Tables 2e) | VOC Service | 511-11-010 |
| Valves (other than pressure relief and open-ended) 17T(Table 2f) | VOC Service | 511-11-011 |
| Flanges or Other Connectors 17T(Table 2g) | VOC Service | 511-11-012 |
| Agitators 17T(Table 2h) | VOC Service | 511-11-016 |
| Compressor Seals 17T(Table 2i) | VOC Service | 511-11-013 |
| Pump Seals 17T(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.

17TIf 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.”

Components Utilizing Alternative Work Practice in § 115.358:

Enter “YES” if any of the components are utilizing the alternative work practices in §115.358. Otherwise, enter “NO.”

17TNote: 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 § 115.352 Fugitive Unit Description:

Provide a brief description of the fugitive unit 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 3a](#TBL3a) - [3j](#TBL3j): 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

*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

| **59TComponent Type** | **Type of Service or Control Device** |
| --- | --- |
| Any Component | Vacuum Service 17T(Table 3a) |
|  | VHAP Service \*17T (Table 3a) |
| Pumps 17T(Table 3a) | VHAP Service |
| Compressors17T (Table 3b) | VHAP Service |
| Pressure Relief Devices | VHAP Gas/Vapor Service 17T(Table 3c) |
|  | VHAP Liquid Service 17T(Table 3c) |
| Sampling Connection Systems 17T(Table 3d) | VHAP Service |
| Open-ended Valves or Lines 17T(Table 3d) | VHAP Service |
| Valves17T (Table 3e) | VHAP Service |
| Flanges and Other Connectors 17T(Table 3e) | VHAP Service |
| Product Accumulator Vessels 17T(Table 3f) | VHAP Service |
| Closed-vent Systems and Control Devices | Vapor Recovery System 17T(Table 3g) |
|  | Enclosed Combustion Device 17T(Table 3h) |
|  | Flare 17T(Table 3i) |

*\*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 proceeding 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). Example descriptions include “transfer and loading fugitives,” “storage area fugitives,” “manufacturing fugitives,” “pipeline fugitives,” etc. Use multiple lines, if necessary.

[Table 4a](#TBL4a): 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 for which Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before November 7, 2006

* 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

*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](#TBL4b) - [4l](#TBL4l): 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 for which Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

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

* 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 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 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.”

*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). Example descriptions include: “transfer and loading fugitives,” “storage area fugitives,” “manufacturing fugitives,” “pipeline fugitives,” etc. Use multiple lines, if necessary.

[Tables 5a](#TBL5a) - [5h](#TBL5h): 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 are involved in the manufacture of Polypropylene, Polyethylene, Polystyrene, or Poly (ethylene terephthalate).

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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

17TNote 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 (ethylene terephthalate)

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 “SOME" or “NONE.”

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.”

VOC Service Less Than 300 Hours:

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 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

| **Component Type** | **Type of Service or Control Device** |
| --- | --- |
| Vacuum Service | Equipment in Vacuum Service (Table 5a) |
| VOC Service < 300 hours per year | Equipment in VOC Service Less Than 300 Hours Per Year (Table 5a) |
| Pumps | Light Liquid Service 17T(Table 5b) |
|  | Heavy Liquid Service 17T(Table 5b) |
| Flanges and Other Connectors 17T(Table 5c) | Any |
| Compressors17T (Table 5c) | Any |
| Pressure Relief Devices | Gas/Vapor Service17T (Table 5d) |
|  | Light Liquid or Heavy Liquid Service 17T(Table 5d) |
| Sampling Connection Systems 17T(Table 5d) | Any |
| Valves | Gas/Vapor or Light Liquid Service 17T(Table 5e) |
|  | Heavy Liquid Service17T (Table 5e) |
| Open-ended Valves or Lines 17T(Table 5f) | Any |
| Closed-vent (or Vapor Collection) Systems 17T(Table 5f) | Any |
| Control Devices | Vapor Recovery System 17T(Table 5g) |
|  | Enclosed Combustion Device 17T(Table 5g) |
|  | Flare 17T(Table 5h) |

* 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.

**2.0%:**

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

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.”

17T*Note: Enter “YES” for “Complying with § 60.482” unless all of the specified fugitive unit components are operating under an EEL 17Tor if “2.0%” 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 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). Example descriptions include: “transfer and loading fugitives,” “storage area fugitives,” “manufacturing fugitives,” “pipeline fugitives,” etc. Use multiple lines, if necessary.

[Table 6](#_Texas_Commission_on): 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

17TNote 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](#TBL7a) - [7f](#TBL7f): 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

*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). 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

| **59TComponent Type** | **59TType of Service** |
| --- | --- |
| Pump Seals 17T(Table 7b) | VOC Service |
| Valves (Other Than Elevated or Pressure Relief Valves) 17T(Table 7c) | Gaseous VOC Service |
|  | Liquid VOC Service |
| Process Drains17T (Table 7d) | VOC Service |
| Compressor Seals 17T(Table 7d) | VOC Service |
| Elevated Valves 17T(Table 7e) | Gaseous VOC Service |
|  | Liquid VOC Service |
| Pressure Relief Valves 17T(Table 7e) | Gaseous VOC Service |
| Connectors 17T(Table 7f) | 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.

17TIf 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](#TBL8a): 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 for which Construction, Reconstruction, or Modification Commenced after January 4, 1983, and on or Before 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

*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](#TBL8b) - [8k](#TBL8j): 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 index numbers, please see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

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

The columns on Tables 8b through 8k 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

| **Component Type** | **Type of Service or Control Device** |
| --- | --- |
| Vacuum | Facility has equipment in vacuum service.17T(Table 8b) |
| Pumps | Light Liquid Service 17T(Table 8b) |
|  | Heavy Liquid Service 17T(Table 8b) |
|  | Any 17T(Table 8c) |
| Compressors | Hydrogen Service 17T(Table 8c) |
|  | Reciprocating compressors that became an affected facility under 40 CFR § 60.14 or 40 CFR § 60.15 17T(Table 8c) |
|  | Gas/Vapor Service 17T(Table 8d) |
| Pressure Relief Devices | Light Liquid Service 17T(Table 8d) |
|  | Heavy Liquid Service 17T(Table 8d) |
| Sampling Connection Systems | Any 17T(Table 8e) |
| Open-ended Valves or Lines | Any17T (Table 8e) |
|  | Valves or Lines Containing Asphalt *(Table 8e)* |
| Valves | Gas/Vapor or Light Liquid Service17T (Table 8f) |
|  | Heavy Liquid Service17T (Table 8g) |
| Flanges and Other Connectors | Any 17T(Table 8g) |
|  | Vapor Recovery System17T (Table 8h) |
| Closed-Vent Systems | Enclosed Combustion Device17T (Table 8i) |
|  | Flare17T (Table 8j) |
|  | Closed Vent (or Vapor Collection) System 17T(Table 8k) |

* 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.

**Alternative Compliance With § 60.483-1:**

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% under § 60.483-1a as an alternative to § 60.482-7a. Otherwise, enter “NO.”

**Alternative Compliance With § 60.483-2:**

Enter “YES” if the owner or operator is electing to comply with the option to skip leak detection periods under § 60.483‑2a as an alternative to § 60.482-7a. Otherwise, enter “NO.”

**Leakless Phase III Valves:**

Enter “YES” if the owner or operator is electing to comply with Phase III provisions in § 63.168 (except the owner or operator may still comply with § 60.482-7a(f) for leakless valves) as an alternative to § 60.482-7a. Otherwise, enter “NO.”

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.”

*Note: Enter “YES” for “Complying with 40 CFR § 60.482” unless all of those specified fugitive unit components are operating under an EEL17T.*

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 GGG 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.

[Table 9a](#TBL9a): 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

*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.”

[Table 9b](#TBL9b): 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

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](#TBL9c) - [9f](#TBL9f): 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

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

| **59TComponent Type** | **59TType of Service or Control Device** |
| --- | --- |
| Pumps | Light Liquid Service 17T(Table 9c) |
|  | Heavy Liquid Service 17T(Table 9c) |
| Compressors | Any 17T(Table 9c) |
| Pressure Relief Devices | Gas/Vapor Service17T (Table 9c) |
|  | Liquid Service 17T(Table 9c) |
|  | Heavy Liquid Service17T (Table 9c) |
| Sampling Connection Systems | Any 17T(Table 9c) |
|  | Heavy Liquid Service 17T(Table 9c) |
| Open-ended Valves or Lines | Any 17T(Table 9d) |
|  | Heavy Liquid Service 17T(Table 9d) |
| Valves | Gas/Vapor or Light Liquid Service 17T(Table 9d) |
|  | Heavy Liquid Service 17T(Table 9d) |
| Connectors | Gas/Vapor or Light Liquid Service 17T(Table 9d) |
|  | Heavy Liquid Service 17T(Table 9d) |
| Agitators | Gas/Vapor or Light Liquid Service 17T(Table 9e) |
|  | Heavy Liquid Service 17T(Table 9e) |
| Instrumentation Systems | Any 17T(Table 9e) |
|  | Heavy Liquid Service 17T(Table 9e) |
| Surge Control Vessels or Bottom Receivers | Any 17T(Table 9e) |
|  | Heavy Liquid Service 17T(Table 9e) |
| Closed Vent Systems | Any 17T(Table 9f) |
|  | Recovery or Recapture Devices 17T(Table 9f) |
|  | Enclosed Combustion Devices17T (Table 9f) |
|  | Flares 17T(Table 9f) |

* 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.

[Table 9g](#TBL9g): 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

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. Example descriptions include: “transfer and loading fugitives,” “storage area fugitives,” “manufacturing fugitives,” “pipeline fugitives,” etc. Use multiple lines, if necessary.

[Table 10](#TBL10): 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 index numbers, please see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

*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](#TBL11a) - [11c](#TBL11c): 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

*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 17T(Table 11a) |
| Loading and Unloading | Fugitive emissions from loading or unloading lines 17T(Table 11a) |
| Slip Gauges | Slip gauges from loading or unloading operations 17T(Table 11a) |
| In process Wastewater Streams | Any17T (Table 11a) |
| Pumps | Rotating Pumps 17T(Table 11a) |
|  | Reciprocating Pumps 17T(Table 11a) |
| Compressors | Rotating Compressors 17T(Table 11a) |
|  | Reciprocating Compressors 17T(Table 11a) |
| Agitator | Any 17T(Table 11b) |
| Sampling Equipment | Any 17T(Table 11b) |
| Valve | Not Relief Valves or Valves on Open-ended Lines 17T(Table 11b) |
| Open-ended Valves or Lines | Any 17T(Table 11b) |
| Control Device | Flare 17T(Table 11b) |
|  | Enclosed Combustion Device17T(Table 11c) |
|  | Vapor Recovery System17T (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). Example descriptions include: “transfer and loading fugitives,” “storage area fugitives,” “manufacturing fugitives,” “pipeline fugitives,” etc. Use multiple lines, if necessary.

[Table 12a](#TBL12a): 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

*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 and certain pressure relief 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. If pressure relief devices in liquid service and complying with 40 CFR Part 63, Subpart H; pressure relief devices in light liquid service and complying with 40 CFR Part 60, Subpart VV; or pressure relief devices in gas/vapor service (complying with either rule) are present, this information must be submitted on the appropriate table(s) 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](#TBL12b): 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

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.”

* 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.”

General AMEL:

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

* Complete “Heavy Liquid Service” only if “General AMEL” is “YES.”

Heavy Liquid Service:

Enter “YES” if the fugitive unit complying with the AMEL in 40 CFR § 163.177 contains equipment in heavy liquid service. 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.”

[Tables 12c](#TBL12c) - [12f](#TBL12f): 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

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

The columns on Tables 12c through12f 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**

| **59TComponent Type** | **59TType of Service or Control Device** |
| --- | --- |
| Pumps | Light Liquid Service 17T(Table 12c) |
| Non-Reciprocating Pumps | Heavy Liquid Service 17T(Table 12c) |
| Compressors | Hydrogen Service 17T(Table 12c) |
|  | Not in Hydrogen Service 17T(Table 12c) |
| Pressure Relief Devices | Gas/Vapor Service 17T(Table 12c, with additional questions on Table 12p) |
|  | Liquid Service 17T(Table 12c, with additional questions on Table 12q) |
| Sampling Connection Systems | Any 17T(Table 12c) |
|  | Heavy Liquid Service 17T(Table 12c) |
| Open-ended Valves or Lines | Any17T (Table 12d) |
|  | Heavy Liquid Service 17T(Table 12d) |
| Valves | Gas/Vapor or Light Liquid Service17T (Table 12d) |
|  | Heavy Liquid Service 17T(Table 12d) |
| Connectors | Gas/Vapor or Light Liquid Service 17T(Table 12d) |
|  | Heavy Liquid Service17T (Table 12d) |
| Instrumentation Systems | Any 17T(Table 12e) |
| Closed Vent Systems | Any 17T(Table 12e) |
|  | Recovery or Recapture Devices 17T(Table 12e) |
|  | Enclosed Combustion Devices17T (Table 12f) |
|  | Flares 17T(Table 12f) |

* 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.”

* If “Pressure Relief Devices – Gas/Vapor Service” is “YES,” complete Table 12p in addition to Table 12c.
* If “Pressure Relief Devices – Liquid Service” is “YES,” complete Table 12q in addition to Table 12c.

[Tables 12g](#TBL12g) - [12o](#TBL12o): 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 – 12o 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

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

| **59TComponent Type** | **59TType of Service or Control Device** |
| --- | --- |
| Vacuum Service 17T(Table 12g) | Facility Has Equipment in Vacuum Service |
| Pumps | Light Liquid Service 17T(Table 12g) |
|  | Heavy Liquid Service 17T(Table 12g) |
| Compressors | Hydrogen Service17T(Table 12h) |
|  | Not in Hydrogen Service 17T(Table 12h) |
| Pressure Relief Devices | Gas/Vapor Service 17T(Table 12i, with additional questions on Table 12p) |
|  | Light Liquid Service 17T(Table 12i, with additional questions on Table 12q) |
|  | Heavy Liquid Service17T (Table 12j) |
| Sampling Connection Systems (Table 12j) | Any |
| Open-ended Valves or Lines (Table 12k) | Any |
| Valves | Gas/Vapor or Light Liquid Service17T (Table 12k) |
|  | Heavy Liquid Service 17T(Table 12l) |
| Flanges and Other Connectors (Table 12l) | Any |
| Closed-vent Systems and Control Devices | Vapor Recovery System17T (Table 12m) |
|  | Enclosed Combustion Device17T (Table 12n) |
|  | Flare 17T(Table 12o) |
|  | Closed Vent (or Vapor Collection) Systems17T (Table 12o) |

* 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 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.”

17TNote: 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.”

17T*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 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.

* If “Pressure Relief Devices – Gas/Vapor Service” is “YES,” complete Table 12p in addition to Table 12i.
* If “Pressure Relief Devices – Light Liquid Service” and “Complying With § 60.482-8” are both “YES,” complete Table 12q in addition to Table 12i.

[Table 12p](#TBL12p): 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 Table 12p only if “Pressure Relief Devices – Gas/Vapor Service” on Table 12c or Table 12i is “YES.”

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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

Routing to Control:

Enter “YES” if all leaks and releases from the pressure relief device are routed to control device, process, or fuel gas system as described in § 63.648(j)(4)(i). Otherwise, enter “NO.”

* **Complete “§63.648(j)(5) Exemptions” only if “Routing to Control” is “NO.”**

§63.648(j)(5) Exemptions:

Enter “YES” if the pressure relief device meets any conditions in § 63.648(j)(5)(ii)-(vi). Otherwise, enter “NO.”

* Go to Table 12q if “§63.648(j)(5) Exemptions” is “YES.”
* Complete “Pilot-Operated PRD” only if “Routing to Control” and “§63.648(j)(5) Exemptions” are “NO.”

**Pilot-Operated PRD:**

Enter “YES” if a pilot-operated pressure relief device is used and controlled as described in § 63.648(j)(4)(ii). Otherwise, enter “NO.”

* **Complete “Balanced Bellows PRD” only if “Pilot-Operated PRD” is “NO.”**

**Balanced Bellows PRD:**

Enter “YES” if a balanced bellows pressure relied on device is used and controlled as described in §63.648(j)(4)(iii). Otherwise, enter “NO.”

* Go to Table 12q if “Routing to Control”, “Pilot-Operated PRD,” and “Balanced Bellows PRD” are all “NO.”
* Complete “Control Device Type” only if “Routing to Control,” “Pilot-Operated PRD,” or “Balanced Bellows PRD” is “YES.”

**Control Device Type:**

Select one of the following options for the type of control device. Enter the code on the form

**Code Description**

PROCESS All releases and potential leaks from a pressure relief device are routed back into the process

FUEL All releases and potential leaks from a pressure relief device are routed to a fuel gas system

FLARE Flare

CATINC Catalytic incinerator

INCIN Incinerator other than a catalytic incinerator

BPH44- Boiler or process heater with a design heat input capacity of less than 44 MW where the vent stream is not introduced into the flame zone

BPH44+ Boiler or process heater with a design heat input capacity of greater than or equal to 44 MW or boiler or process heater in which all vent streams are introduced into the flame zone

OTHER Prior approval has been received to use a control device other than an incinerator, boiler, process heater, or flare

**Control Device ID No.:**

If applicable, enter the identification number 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 “Individual Unit Summary.” If there is no control device, then leave this column blank.

* **Go to Table 12q if “Control Device Type” is “PROCESS,” “FUEL,” or “OTHER.”**
* **Complete “Alternate Parameter Monitoring” only if “Control Device Type” is “CATINC,” “INCIN,” “BPH44-,” or “BPH44+.”**

**Alternate Parameter Monitoring:**

Enter “YES” if approval was obtained to monitor an alternate parameter to those specified in § 63.644(a). Otherwise, enter “NO.”

* **Complete “Continuous Operating Parameter Alternative” only if “Alternate Parameter Monitoring” is “NO” or if “Control Device Type” is “FLARE.”**

**Continuous Operating Parameter Alternative:**

Enter “YES” if an approved alternative to the continuous operating parameter provisions of § 63.655(i) is used. Otherwise, enter “NO.”

* **Go to Table 12q if “Continuous Operating Parameter Alternative” is “NO.”**
* **Complete “Alternate ID No.” only if “Alternate Parameter Monitoring” is “YES” or “Continuous Operating Parameter Alternative” is “YES.”**

**Alternate ID No.:**

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

* **Complete “Automated Data Recording” only if “Continuous Operating Parameter Alternative” is “YES.”**

**Automated Data Recording:**

Enter “YES” if prior approval was obtained to use an automated data compression recording system. Otherwise, enter “NO.”

[Table 12q](#TBL12q): 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 the final question on Table 12q, “Title 40 CFR Part 63, Subpart CC Fugitive Unit Description,” for all fugitive units.**
* **Complete the other questions on Table 12q only if “Pressure Relief Devices – Liquid Service” on Table 12c is “YES,” or if both “Pressure Relief Devices – Light Liquid Service” and “Complying with §60.482-8” on Table 12i are “YES.”**

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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

**§63.648(j)(5) Exemptions:**

Enter “YES” if the pressure relief device meets any conditions in § 63.648(j)(5)(ii)-(vi). Otherwise, enter “NO.”

* **Complete “Routing to Control” only if “§63.648(j)(5) Exemptions” is “NO.”**

**Routing to Control:**

Enter “YES” if all leaks and releases from the pressure relief device are routed to control device, process, or fuel gas system as described in § 63.648(j)(4)(i). Otherwise, enter “NO.”

* **Complete “Control Device Type” only if “Routing to Control” is “YES.”**

**Control Device Type:**

Select one of the following options for the type of control device. Enter the code on the form.

**Code Description**

PROCESS All releases and potential leaks from a pressure relief device are routed back into the process

FUEL All releases and potential leaks from a pressure relief device are routed to a fuel gas system

FLARE Flare

CATINC Catalytic incinerator

INCIN Incinerator other than a catalytic incinerator

BPH44- Boiler or process heater with a design heat input capacity of less than 44 MW where the vent stream is not introduced into the flame zone

BPH44+ Boiler or process heater with a design heat input capacity of greater than or equal to 44 MW or boiler or process heater in which all vent streams are introduced into the flame zone

OTHER Prior approval has been received to use a control device other than an incinerator, boiler, process heater, or flare

**Control Device ID No.:**

If applicable, enter the identification number 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 “Individual Unit Summary.” If there is no control device, then leave this column blank.

* **Complete “Alternate Parameter Monitoring” only if “Control Device Type” is “CATINC,” “INCIN,” “BPH44-,” or “BPH44+.”**

**Alternate Parameter Monitoring:**

Enter “YES” if approval was obtained to monitor an alternate parameter to those specified in § 63.644(a). Otherwise, enter “NO.”

* **Complete “Continuous Operating Parameter Alternative” only if “Alternate Parameter Monitoring” is “NO” or if “Control Device Type” is “FLARE.”**

**Continuous Operating Parameter Alternative:**

Enter “YES” if an approved alternative to the continuous operating parameter provisions of § 63.655(i) is used. Otherwise, enter “NO.”

* **Complete “Alternate ID No.” only if “Alternate Parameter Monitoring” is “YES” or “Continuous Operating Parameter Alternative” is “YES.”**

**Alternate ID No.:**

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

* **Complete “Automated Data Recording” only if “Continuous Operating Parameter Alternative” is “YES.”**

**Automated Data Recording:**

Enter “YES” if prior approval was obtained to use an automated data compression recording system. Otherwise, enter “NO.”

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). Example descriptions include: “transfer and loading fugitives,” “storage area fugitives,” “manufacturing fugitives,” “pipeline fugitives,” etc. Use multiple lines, if necessary.

[Tables 13a](#TBL13a) - [13m](#TBL13m): 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

17T*Note to GOP Applicants: Use the component types of 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.17T 17TIf the component type and/or applicable GOP index number are not included in the component types of 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 p*ressure 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

| **59TComponent Type** | **59TType of Service or Control Device** | **59TGOP Index Number** |
| --- | --- | --- |
| Any Component | Vacuum Service (Table 13a) | 511-03-004  512-03-004  513-03-004  514-03-004 |
| Sampling Connection Systems | Any (Table 13a) | 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 (Table 13b) | 511-03-006  512-03-006  513-03-006  514-03-006 |
|  | Located at a nonfractionating plant with a design capacity > 283,000 scm/day (Table 13b) | 511-03-007  512-03-007  513-03-007  514-03-007 |
| Compressors | Reciprocating compressor in wet gas service (Table 13c) | 511-03-008  512-03-008  513-03-008  514-03-008 |
|  | Other VHAP service (Table 13c) | 511-03-009  512-03-009  513-03-009  514-03-009 |
| Pressure Relief Devices | In gas/vapor service, located at a nonfractionating plant monitored only by non-facility personnel (Table 13d) | 511-03-010  512-03-010  513-03-010  514-03-010 |
|  | In gas/vapor service, located at a nonfractionating plant with a design capacity < 283,000 scm/day17T(Table 13d) | 511-03-011  512-03-011  513-03-011  514-03-011 |

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

| **59TComponent Type** | **59TType of Service or Control Device** | **59TGOP 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 (Table 13d) | 511-03-012  512-03-012  513-03-012  514-03-012 |
|  | In liquid service (Table 13e) | 511-03-016  512-03-016  513-03-016  514-03-016 |
| Open-ended Valves or Lines | VHAP Service (Table 13f) | 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 (Table 13g) | 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 (Table 13g) | 511-03-015  512-03-015  513-03-015  514-03-015 |
| Flanges and Other Connectors | VHAP Service (Table 13h) | 511-03-016  512-03-016  513-03-016  514-03-016 |
| Product Accumulator Vessels | VHAP Service (Table 13i) | 511-03-017  512-03-017  513-03-017  514-03-017 |

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

|  |  |  |
| --- | --- | --- |
| **59TComponent Type** | **59TType of Service or Control Device** | **59TGOP Index Number** |
| Closed-vent Systems and Control Devices | Vapor Recovery System (Table 13j) | 511-03-018  512-03-018  513-03-018  514-03-018 |
|  | Enclosed Combustion Device (Table 13k) | 511-03-019  512-03-019  513-03-019  514-03-019 |
|  | Flare (Table 13l) | 511-03-020  512-03-020  513-03-020  514-03-020 |
|  | Closed-Vent Systems (Table 13m) | 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.”

17TNote: Enter “YES” for “Complying with 40 CFR § 61.242” unless:

* 17T*all equipment of the specified fugitive unit component type is operating under an AMEL, or*
* 17T*“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). descriptions include “transfer and loading fugitives,” “storage area fugitives,” “manufacturing fugitives,” “pipeline fugitives,” etc. Use multiple lines, if necessary.

[Table 14a](#TBL14a): 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

*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](#TBL14b) - [14m](#TBL14m): 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

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

| **59TComponent Type** | **59TType of Service or Control Device** |
| --- | --- |
| Pumps | Light Liquid Service (Table 14b) |
|  | Heavy Liquid Service (Table 14e) |
| Compressors | Any (Table 14b) |
| Pressure Relief Devices | Gas/Vapor Service (Table 14c) |
|  | Liquid Service (Table 14g) |
| Sampling Connection Systems | Any (Table 14c) |
| Open-ended Valves or Lines | Any (Table 14d) |
| Valves | Gas/Vapor or Light Liquid Service 17T(Table 14d) |
|  | Heavy Liquid Service (Table 14e) |
| Connectors | Gas/Vapor or Light Liquid Service (Table 14i) |
|  | Heavy Liquid Service (Table 14f) |
| Agitators | Gas/Vapor or Light Liquid Service 17T(Table 14i) |
|  | Heavy Liquid Service (Table 14f) |
| Instrumentation Systems | Any (Table 14g) |
| Surge Control Vessels or Bottom Receivers | Any (Table 14h) |
| Closed Vent Systems | Any (Table 14j) |
|  | Recovery or Recapture Devices (Table 14k) |
|  | Enclosed Combustion Devices (Table 14l) |
|  | Flares (Table 14m) |

* 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. Example descriptions include: “transfer and loading fugitives,” “storage area fugitives,” “manufacturing fugitives,” “pipeline fugitives,” etc. Use multiple lines, if necessary.

[Table 15a](#TBL15a): 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

*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](#TBL15b): 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

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](#TBL15c) - [15n](#TBL15n): 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

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

| **59TComponent Type** | **59TType of Service or Control Device** |
| --- | --- |
| Pumps | Light Liquid Service (Table 15c) |
|  | Heavy Liquid Service (Table 15f) |
| Compressors | Any (Table 15c) |
| Pressure Relief Devices | Gas/Vapor Service (Table 15d) |
|  | Liquid Service (Table 15h) |
| Sampling Connection Systems | Any (Table 15d) |
| Open-ended Valves or Lines | Any (Table 15e) |
| Valves | Gas/Vapor or Light Liquid Service (Table 15e) |
|  | Heavy Liquid Service (Table 15f) |
| Connectors | Gas/Vapor or Light Liquid Service (Table 15j) |
|  | Heavy Liquid Service (Table 15g) |
| Agitators | Gas/Vapor or Light Liquid Service (Table 15j) |
|  | Heavy Liquid Service (Table 15g) |
| Instrumentation Systems | Any (Table 15h) |
| Surge Control Vessels or Bottom Receivers | Any (Table 15i) |
| Closed Vent Systems | Any (Table 15k) |
|  | Recovery or Recapture Devices (Table 15l) |
|  | Enclosed Combustion Devices (Table 15m) |
|  | Flares (Table 15n) |

* 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. Example descriptions include: “transfer and loading fugitives,” “storage area fugitives,” “manufacturing fugitives,” “pipeline fugitives,” etc. Use multiple lines, if necessary.

[Tables 16a](#TBL16a) - [16g](#TBL16g): 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

*Note to GOP Applicants: Use the component types of 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 of table below, answer the questions below and enter the “Unit ID No.” and the applicable GOP Index Numbers on Table 16.*

T

*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 percent’s 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 § 115.780 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 § 115.780 Fugitive Unit Component Types

| **Component Type** | **Type of Service or Control Device** | **GOP Index Number** |
| --- | --- | --- |
| Process Drains | HRVOC Service (Table 16b) | 511-42-003 |
| Pressure Relief Valves | Gaseous Service (Table 16b) | 511-42-004 |
| Open-ended Valves or Lines | HRVOC Service (Table 16c) | 511-42-005 |
| Bypass Line Valves | HRVOC Service (Table 16c) | 511-42-006 |
| Valves (other than pressure relief, open-ended, and bypass line) | HRVOC Service (Table 16d) | 511-42-007 |
| Flanges or Other Connectors | HRVOC Service (Table 16d) | 511-42-008 |
| Compressors | Seals without shaft sealing system (Table 16e) | 511-42-009 |
|  | With shaft sealing system (Table 16a) | 511-42-021 |
| Pumps | Seals without shaft sealing system (Table 16e) | 511-42-010 |
|  | With shaft sealing system (Table 16a) | 511-42-020 |
| Agitators | Without shaft sealing system (Table 16f) | 511-42-011 |
|  | With shaft sealing system (Table 16a) | 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 (Table 16f) | 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 § 115.780 Fugitive Unit Description:

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

[Table 17a](#TBL17a): 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

*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](#TBL17b) - [17l](#TBL17l): 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

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 Service17T (Table 17b) |
|  | Heavy Liquid Service17T (Table 17f) |
| Compressors | Any17T (Table 17c) |
| Pressure Relief Devices | Gas/Vapor Service17T (Table 17c) |
|  | Light Liquid17T (Table 17g) |
|  | Heavy Liquid Service 17T(Table 17g) |
| Sampling Connection Systems | Any 17T(Table 17d) |
| Open-ended Valves or Lines | Any 17T(Table 17d) |
| Valves | Gas/Vapor or Light Liquid Service17T (Table 17e) |
|  | Heavy Liquid Service17T (Table 17f) |
| Connectors | Heavy Liquid17T (Table 17g) |
|  | Gas/Vapor or Light Liquid Service 17T(Table 17k) |
| Closed-vent Systems and Control Devices | Vapor Recovery System17T (Table 17h) |
|  | Enclosed Combustion Device17T (Table 17i) |
|  | Flare17T (Table 17j) |
|  | Closed Vent (or Vapor Collection) Systems17T (Table 17k) |

* 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.”

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 proceeding 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.”

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

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). Example descriptions include: “transfer and loading fugitives,” “storage area fugitives,” “manufacturing fugitives,” “pipeline fugitives,” etc. Use multiple lines, if necessary.

[Table 18a](#TBL18a): Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart GGGa: Standards of Performance for Equipment Leaks of Volatile Organic Compounds (VOCs) in Petroleum Refineries 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

*Note to SOP Applicants: Some fugitive units may have all equipment identified in 40 CFR Part 60, Subpart GGGa. Applicants may choose to identify the SOP index number as “60GGGA-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 GGGa) 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**

06- On or before November 7, 2006

06+ After November 7, 2006

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

Affected Facility Covered by 40 CFR 60 Subparts VVa or KKK:

Enter one of the following codes for the regulation that the fugitive unit is subject to and controlled under.

**Code Description**

NSPS-VVA Subject to and controlled under the provisions of 40 CFR part 60, Subpart VVa

NSPS-KKK Subject to and controlled under the provisions of 40 CFR part 60, Subpart KKK

NONE Not subject to and controlled under any of the above regulations

Continue only if “Affected Facility Covered by 40 CFR 60 Subparts VVa or KKK” is “NONE.”

[Tables 18b](#TBL18b) – [18](#TBL18j)k: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart GGGa: 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 index numbers, please see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

Title 40 CFR Part 60, Subpart GGGa 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 GGGa. 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 GGGa 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 GGGa Fugitive Unit Component Types

| **Component Type** | **Type of Service or Control Device** |
| --- | --- |
| Vacuum | Facility has equipment in vacuum service 17T(Table 18b) |
| Pumps | Light Liquid Service 17T(Table 18b) |
|  | Heavy Liquid Service 17T(Table 18b) |
| Compressors | Any 17T(Table 18c) |
|  | Hydrogen Service 17T(Table 18c) |
|  | Reciprocating compressors that became an affected facility under 40 CFR § 60.14 or 40 CFR § 60.15 17T(Table 18c) |
| Pressure Relief Devices | Gas/Vapor Service 17T(Table 18f) |
|  | Light Liquid Service 17T(Table 18f) |
|  | Heavy Liquid Service 17T(Table 18g) |
| Sampling Connection Systems | Any 17T(Table 18d) |
| Open-ended Valves or Lines | Any17T (Table 18d) |

Title 40 CFR Part 60, Subpart GGGa Fugitive Unit Component Types *(continued)*

| **59TComponent Type** | **59TType of Service or Control Device** |
| --- | --- |
| Open-ended Valves or Lines | Valves or Lines Containing Asphalt *(Table 18d)* |
| Valves | Gas/Vapor or Light Liquid Service (*Table 18e*) |
|  | Heavy Liquid Service (*Table 18f*) |
| Connectors | Heavy Liquid Service 17T(Table 18g) |
|  | Gas Vapor or Light Liquid Service 17T(Table 18h) |
| Closed-Vent Systems | Vapor Recovery System17T (Table 18h) |
|  | Enclosed Combustion Device17T (Table 18i) |
|  | Flare17T (Table 18j) |
|  | Closed Vent (or Vapor Collection) System 17T(Table 18k) |

* Also, complete the following items, where appropriate.

Equivalent Emission Limitation:

An equivalent emission limitation (EEL) approved by the EPA Administrator under 40 CFR § 60.592a(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 GGGa.

*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.

**Alternative Compliance With § 60.483-1a:**

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% under § 60.483-1a as an alternative to § 60.482-7a. Otherwise enter “NO.”

**Alternative Compliance With § 60.483-2a:**

Enter “YES” if the owner or operator is electing to comply with the option to skip leak detection periods under § 60.483‑2a as an alternative to § 60.482-7a. Otherwise enter “NO.”

**Leakless Phase III Valves:**

Enter “YES” if the owner or operator is electing to comply with Phase III provisions in § 63.168 (except the owner or operator may still comply with § 60.482-7a(f) for leakless valves) as an alternative to § 60.482-7a. Otherwise enter “NO.”

Complying with 40 CFR § 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 proceeding it.). Enter “YES” if any of those particular fugitive unit components are complying with the requirements in 40 CFR § 60.482-2a – 8a, or 40 CFR § 60.482-10a, as appropriate. 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 17Tor if “Alternative Compliance With § 60.483-1a”, “Alternative Compliance*

*With § 60.483-2a”, or “Leakless Phase III Valves” 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 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 18l](#TBL18l): Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart GGGa: 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

Title 40 CFR Part 60, Subpart GGGa 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.

[Table 19a](#TBL19a): Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart OOOOa: Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015

* Complete Table 19a for Centrifugal Compressor affected facilities.
* Complete Table 19b for Reciprocating Compressor affected facilities.
* Complete Table 19c for Pneumatic Controller affected facilities.
* Complete Table 19d for Pneumatic Pump affected facilities.
* Complete Table 19e for the collection of fugitive components located at a well site or compressor station.
* Complete Tables 19e-p for the group of equipment within a process unit located at an onshore natural gas processing plant.

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 (maximum15 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

**Construction/Modification Date:**

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

**Code Description**

15- On or before September 18, 2015

15+ After September 18, 2015

* Continue only if “Construction/Modification Date ” is “15+.”

Centrifugal Compressor:

Select **one** of the following codes that describes the centrifugal compressor at the site. Enter the **code** on the form.

**Code Description**

CCWELL Centrifugal compressor located at a well site.

CCOMPDS Centrifugal compressor using dry seals.

CCOMPWS Centrifugal compressor using wet seals.

* Continue only if “Centrigual Compressor” is “CCOMPWS.”

**Control Option:**

Select **one** of the following codes that describe the control option for the centrifugal compressor. Enter the **code** on the form.

For Processes

Code Description

PRO Emissions from closed vent system routed to a process.

For Combustion Control Devices

Code Description

BPH44+ Boiler or process heater with a design heat input capacity of 44 MW or greater

BPHPF Boiler or process heater where the vent stream is introduced with the primary fuel or used as the primary fuel

BPH44- Boiler or process heater with a design heat input capacity of less than 44 MW

CVI Catalytic vapor incinerator

TVI Thermal vapor incinerator

FLARE Flare

For Vapor Recovery Devices

Code Description

REGEN Regenerable carbon adsorption system

NONREGEN Non-regenerable carbon adsorption system

COND Condenser

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. If there is no control device, then leave this column blank.

* Complete “Combustion Device Compliance Option” only if “Control Option” is “BPH44+”, “BPHPF”, BPH44-”, “CVI”, “TVI”, or “FLARE.”

Combustion Device Compliance Option:

Select **one** of the following options to describe the control option for combustion control devices. Enter the **code** on the form.

For flares

Code Description

MANU Combustion control device model tested by the manufacturer in accordance with §60.5413a(d)

NOMANU Combustion control device model not tested by the manufacturer in accordance with §60.5413a(d)

For boilers or process heater, catalytic vapor incinerators, or thermal incinerators

Code Description

MANU Combustion control device model tested by the manufacturer in accordance with §60.5413a(d)

95+ Reduce mass content of methane and VOC is the gases vented to the device by 95 percent by weight or greater.

275- Reduce concentration of TOC in the exhaust gases at the outlet to the device to a level equal to or less than 275 parts per million by volume as propane on a wet basis corrected to 3 percent oxygen

760 Operate at a minimum temperature of 760 degrees Celsius.

* Do not complete “Performance Test” if “Control Option” is “FLARE.”

Performance Test:

Select **one** of the following options to describe the control device performance test requirements. Enter the **code** on the form.

For control devices other than condensers and carbon adsorbers

Code Description

BPHHW Boiler or process heater burning hazardous waste.

HWI Hazardous waste incinerator

PTW Performance test waived in accordance with §60.8(b)

P95+ Combustion device complying with 95 percent reduction.

P275- Combustion device complying with TOC outlet concentration.

P760 Combustion device complying with minimum temperature of 760 degrees Celsius.

For condensers and carbon adsorbers

Code Description

DESIGN Design analysis used in lieu of performance test.

PT Performance test conducted.

PTW Performance test waived in accordance with §60.8(b)

Bypass Device:

Select the option that describes the bypass device on the closed vent system. Enter the **code** on the form.

Code Description

NONE The closed vent system does not have a bypass device that could be used to divert all or a portion of the gases, vapors, or fumes from entering the control device or to a process.

FLOW Flow indicator installed at the inlet of the bypass device.

SEC Bypass device valves are secured in the closed position with a car-seal or lock-and-key configuration.

[Table 19b](#TBL19b): Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart OOOOa: Standards of Performance for Crude Oil and Natural Gas Facilities

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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

**Construction/Modification Date:**

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

**Code Description**

15- On or before September 18, 2015

15+ After September 18, 2015

* Continue only if “Construction/Modification Date ” is “15+.”

Reciprocating Compressor:

Select **one** of the following codes that describes the reciprocating compressor at the site. Enter the **code** on the form.

**Code Description**

RCOMPW Reciprocating compressor located at a well site.

RC26K- Reciprocating compressor rod packing being replaced on or before 26,000 hours of operation.

RC36- Reciprocating compressor rod packing being replaced prior to 36 months from the date of the previous replacement or startup

RCCVS Reciprocating compressor where emissions are routed through a closed vent system to a process.

AMEL:

Enter “YES” if the reciprocating compressor is complying with the alternate method of emission limitation (AMEL) in 40 CFR § 60.5398a. Otherwise, enter “NO.”

* Continue only if “AMEL” is “NO” and “Reciprocating Compressor” is “RCCVS.”

Bypass Device:

Select the option that describes the bypass device on the closed vent system. Enter the **code** on the form.

Code Description

NONE The closed vent system does not have a bypass device that could be used to divert all or a portion of the gases, vapors, or fumes away from the process

FLOW Flow indicator installed at the inlet of the bypass device

SEC Bypass device valves are secured in the closed position with a car-seal or lock-and-key configuration.

[Table 19c](#TBL19c): Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart OOOOa: Standards of Performance for Crude Oil and Natural Gas Facilities

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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

**Construction/Modification Date:**

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

**Code** **Description**

15- On or before September 18, 2015

15+ After September 18, 2015

* Continue only if “Construction/Modification Date ” is “15+.”

Pneumatic Controller:

Select **one** of the following codes that describes the pneumatic controller at the site. Enter the **code** on the form.

**Code** **Description**

PCBRGS Pneumatic controller with bleed rate greater than the standard based on functional need

PCNGPP Pneumatic controller located at a natural gas processing plant with a bleed rate of zero

PCOTH Pneumatic controller not located at a natural gas processing plant with a bleed rate less than or equal to 6 standard cubic feet per hour

[Table 19d](#TBL19d): Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart OOOOa: Standards of Performance for Crude Oil and Natural Gas Facilities

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 (maximum15 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

**Construction/Modification Date:**

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

**Code** **Description**

15- On or before September 18, 2015

15+ After September 18, 2015

* Continue only if “Construction/Modification Date ” is “15+.”

Pneumatic Pump:

Select **one** of the following codes that describes the pneumatic controller at the site. Enter the **code** on the form.

**Code** **Description**

PPNGPP Pneumatic pump located at a natural gas processing plant

PPWS Pneumatic pump located at a well site

* Continue only if “Pneumatic Pump ” is “PPWS.”

**Control Option:**

Select **one** of the following options to describe the control option used for the pneumatic pump. Enter the **code** on the form.

**Code** **Description**

NONE No control device or process located on site

PRO Emissions from pneumatic pump are routed to a process

INFEAS Technically infeasible to capture and route emissions to a control device or process

CADS95- Carbon adsorber unable to achieve a 95% reduction in natural gas emissions

OTH95- Control device other than a carbon adsorber unable to achieve a 95% reduction in natural gas emissions

CADS95+ Carbon adsorber used to reduce natural gas emissions by 95% or greater

OTH95+ Control device other than a carbon adsorber used to reduce natural gas emissions by 95% or greater

**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. If there is no control device, then leave this column blank.

* Do not complete “Bypass Device” if Control Option is “NONE.”

Bypass Device:

Select the option that describes the bypass device on the closed vent system. Enter the **code** on the form.

Code Description

NONE The closed vent system does not have a bypass device that could be used to divert all or a portion of the gases, vapors, or fumes from entering the control device or to a process

FLOW Flow indicator installed at the inlet of the bypass device

SEC Bypass device valves are secured in the closed position with a car-seal or lock-and-key configuration

[Table 19e](#TBL19e): Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart OOOOa: Standards of Performance for Crude Oil and Natural Gas Facilities

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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

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*Note to GOP Applicants: Use the component types of 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 OOOOa. Enter the “Unit ID No.” and the applicable GOP Index Numbers on Table 19e. If the component type and/or applicable GOP index number are not included in the component types of table below, answer the questions below and enter the “Unit ID No.” and the applicable GOP Index Numbers on Table 19e.*

*Note to SOP Applicants: For the group of equipment within a process unit that is located at an onshore natural gas processing plant, some fugitive units may have all equipment identified in 40 CFR Part 60, Subpart OOOOa. Applicants may choose to identify the SOP index number as “60OOOOA-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.*

**Construction/Modification Date:**

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

**Code** **Description**

15- On or before September 18, 2015

15+ After September 18, 2015

* Continue only if “Construction/Modification Date ” is “15+.”

Fugitive Component:

Select **one** of the following codes that describes the type of fugitive components at the site. Enter the **code** on the form.

**Code** **Description**

FCWS Collection of fugitive components located at a well site

FCCS Collection of fugitive components located at a compressor station

EQNGPP Group of equipment within a process unit that is located at an onshore natural gas processing plant

* Complete “AMEL” only if “Fugitive Component” is “FCWS” or “FCCS.”

AMEL:

Select **one** of the following codes to describe the alternate method of emission limitation (AMEL) for the collection of fugitive components located at a well site or compressor station. Enter the **code** on the form.

**Code** **Description**

NONE Not complying with an AMEL

5398A(A) Complying with AMEL as described in 40 CFR § 60.5398a(a)

5399A(L) Collection of fugitive components located at a well site complying with 40 CFR § 60.5399a(l)

5399A(M) Collection of fugitive components located at a compressor station complying with 40 CFR § 60.5399a(m)

* Continue only if “Fugitive Component” is “EQNGPP.”

Subject to Another Regulation:

Enter “YES” if the fugitive component is subject to and controlled in accordance with the requirements in 40 CFR part 60, subpart VVa, GGG or GGGa. Otherwise, enter “NO.”

* Continue only if “Subject to Another Regulation” is “NO.”

[Tables 19f](#TBL19f) - [19p](#TBL19p): Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart OOOOa: Standards of Performance for Crude Oil and Natural Gas Facilities

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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

Title 40 CFR Part 60, Subpart OOOOa Fugitive Unit Components:

The columns on Tables 19f through 19p correspond to the fugitive unit components (group of equipment) within a process unit located at an onshore natural gas processing plant as addressed in 40 CFR Part 60, Subpart OOOOa. 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 OOOOa 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 OOOOa Fugitive Unit Component Types

| **Component Type** | **Type of Service or Control Device** | **GOP Index Number** |
| --- | --- | --- |
| Any Component | Vacuum Service | 511-56-015  512-37-015  513-35-015  514-33-015 |
| Pumps | Light Liquid Service (Table 19f) | 511-56-016  512-37-016  513-35-016  514-33-016 |
|  | Heavy Liquid Service (Table 19j) | 511-56-017  512-37-017  513-35-017  514-33-017 |
| Pressure Relief Devices | Gas/Vapor Service (Table 19g) | 511-56-018  512-37-018  513-35-018  514-33-018 |
|  | Heavy or Light Liquid Service (Table 19k) | 511-56-024  512-37-024  513-35-024  514-33-024 |

Title 40 CFR Part 60, Subpart OOOOa Fugitive Unit Component Types*(continued)*

| **Component Type** | **Type of Service or Control Device** | **GOP Index Number** |
| --- | --- | --- |
| Open-ended Valves or Lines | Any (Table 19h) | 511-56-019  512-37-019  513-35-019  514-33-019 |
| Valves | Gas/Vapor or Light Liquid Service (Table 19i) | 511-56-020  512-37-020  513-35-020  514-33-020 |
|  | Heavy Liquid Service (Table 19j) | 511-56-021  512-37-021  513-35-021  514-33-021 |
| Connectors | Heavy Liquid Service (Table 19k) | 511-56-022  512-37-022  513-35-022  514-33-022 |
|  | Gas/Vapor or Light Liquid Service (Table 19o) | 511-56-023  512-37-023  513-35-023  514-33-023 |
| Closed-vent Systems and Control Devices | Vapor Recovery System (Table 19l) | 511-56-025  512-37-025  513-35-025  514-33-025 |
|  | Enclosed Combustion Device (Table 19m) | 511-56-026  512-37-026  513-35-026  514-33-026 |
|  | Flare (Table 19n) | 511-56-027  512-37-027  513-35-027  514-33-027 |
|  | Closed Vent (or Vapor Collection) Systems (Table 19o) | 511-56-028  512-37-028  513-35-028  514-33-028 |

* Complete the Following Items, Where Appropriate.

AMEL:

An alternative emission limitation (AMEL) approved by the EPA Administrator under 40 CFR § 60.5400a(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 OOOOa.

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 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 AMEL.

Design Capacity < 10MM:

Enter “YES” if the pumps in light liquid service, valves in gas vapor service and light liquid service, pressure relief devices in gas/vapor service, or connectors in gas/vapor service and in light liquid service are located at a nonfractionating plant that has the design capacity to process less than 10 million standard cubic feet per day of field gas . Otherwise, enter “NO.”

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 proceeding 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 – 11a, as appropriate. Otherwise, enter “NO.”

Title 40 CFR Part 60, Subpart OOOOa 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.

[Table 20](#TBL20)a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart OOOO: Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution for which Construction, Modification or Reconstruction Commenced After August 23, 2011, and on or before September 18, 2015

* Complete Table 20a for Centrifugal Compressor affected facilities.
* Complete Table 20b for Reciprocating Compressor affected facilities.
* Complete Table 20c for Pneumatic Controller affected facilities.
* Complete Tables 20d - 20o for the group of equipment within a process unit located at an onshore natural gas processing plant.

**Unit ID No.:**

Enter the identification number (ID No.) for the 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 (maximum15 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

Construction/Modification Date:

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

**Code Description**

11- Before 8/23/2011

11-15 After 8/23/2011 and on/before 9/18/2015

15+ After 9/18/2015

* Continue only if “Construction/Modification Date” is “11-15.”

Centrifugal Compressor:

Select **one** of the following codes that describes the centrifugal compressor at the site. Enter the **code** on the form.

**Code Description**

CCWELL Centrifugal compressor located at a well site

CCOMPDS Centrifugal compressor using dry seals

CCOMPWS Centrifugal compressor using wet seals

* Continue only if “Centrigual Compressor” is “CCOMPWS” for SOP applications. Do not continue if the application type is GOP.

**Control Option:**

Select **one** of the following codes that describe the control option for the centrifugal compressor. Enter the **code** on the form.

For Processes

Code Description

PRO Emissions from closed vent system routed to a process

For Combustion Control Devices

Code Description

BPH44+ Boiler or process heater with a design heat input capacity of 44 MW or greater

BPHPF Boiler or process heater where the vent stream is introduced with the primary fuel or used as the primary fuel

BPH44- Boiler or process heater with a design heat input capacity of less than 44 MW

CVI Catalytic vapor incinerator

TVI Thermal vapor incinerator

FLARE Flare

For Vapor Recovery Devices

Code Description

REGEN Regenerable carbon adsorption system

NONREGEN Non-regenerable carbon adsorption system

COND Condenser

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. If there is no control device, then leave this column blank.

* Complete “Combustion Device Compliance Option” only if “Control Option” is “BPH44+”, “BPHPF”, BPH44-”, “CVI”, “TVI”, or “FLARE.”

Combustion Device Compliance Option:

Select **one** of the following options to describe the control option for combustion control devices. Enter the **code** on the form.

For flares

Code Description

MANU Combustion control device model tested by the manufacturer in accordance with §60.5413(d)

NOMANU Combustion control device model not tested by the manufacturer in accordance with §60.5413(d)

For boilers or process heater, catalytic vapor incinerators, or thermal incinerators

Code Description

MANU Combustion control device model tested by the manufacturer in accordance with §60.5413(d)

95+ Reduce mass content of methane and VOC is the gases vented to the device by 95 percent by weight or greater

275- Reduce concentration of TOC in the exhaust gases at the outlet to the device to a level equal to or less than 275 parts per million by volume as propane on a wet basis corrected to 3 percent oxygen

760 Operate at a minimum temperature of 760 degrees Celsius

* Do not complete “Performance Test” if “Control Option” is “PRO”, “BPH44+”, “BPHPF” and “FLARE.”

Performance Test:

Select **one** of the following options to describe the control device performance test requirements. Enter the **code** on the form.

For control devices other than condensers and carbon adsorbers

Code Description

BPHHW Boiler or process heater burning hazardous waste

HWI Hazardous waste incinerator

PTW Performance test waived in accordance with §60.8(b)

P95+ Combustion device complying with 95 percent reduction

P275- Combustion device complying with TOC outlet concentration

P760 Combustion device complying with minimum temperature of 760 degrees Celsius

For condensers and carbon adsorbers

Code Description

DESIGN Design analysis used in lieu of performance test

PT Performance test conducted

PTW Performance test waived in accordance with §60.8(b)

Bypass Device:

Select the option that describes the bypass device on the closed vent system. Enter the **code** on the form.

Code Description

NONE The closed vent system does not have a bypass device that could be used to divert all or a portion of the gases, vapors, or fumes from entering the control device or to a process.

FLOW Flow indicator installed at the inlet of the bypass device.

SEC Bypass device valves are secured in the closed position with a car-seal or lock-and-key configuration.

[Table 20](#TBL20)b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart OOOO: Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution for which Construction, Modification or Reconstruction Commenced After August 23, 2011, and on or before September 18, 2015

**Unit ID No.:**

Enter the identification number (ID No.) for the 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 (maximum15 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). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP and GOP index numbers, please see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

Construction/Modification Date:

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

**Code Description**

11- Before 8/23/2011

11-15 After 8/23/2011 and on/before 9/18/2015

15+ After 9/18/2015

* Continue only if “Construction/Modification Date” is “11-15.”

Reciprocating Compressor:

Select **one** of the following codes that describes the reciprocating compressor at the site. Enter the **code** on the form.

**Code Description**

RCOMPW Reciprocating compressor located at a well site

RC26K- Reciprocating compressor rod packing being replaced on or before 26,000 hours of operation

RC36- Reciprocating compressor rod packing being replaced prior to 36 months from the date of the previous replacement or startup

RCCVS Reciprocating compressor where emissions are routed through a closed vent system to a process

* Continue only if “Reciprocating Compressor” is “RCCVS.”

Bypass Device:

Select the option that describes the bypass device on the closed vent system. Enter the **code** on the form.

Code Description

NONE The closed vent system does not have a bypass device that could be used to divert all or a portion of the gases, vapors, or fumes away from the process

FLOW Flow indicator installed at the inlet of the bypass device

SEC Bypass device valves are secured in the closed position with a car-seal or lock-and-key configuration

[Table 20c](#TBL19c): Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart OOOO: Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution for which Construction, Modification or Reconstruction Commenced After August 23, 2011, and on or before September 18, 2015

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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

**Construction/Modification Date:**

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

**Code** **Description**

11- On or before 8/23/2011

11-15 After 8/23/2011 and on/before 9/18/2015

15+ After 9/18/2015

* Continue only if “Construction/Modification Date” is “11-15.”

Pneumatic Controller:

Select **one** of the following codes that describes the pneumatic controller at the site. Enter the **code** on the form.

**Code** **Description**

PCBRGS Pneumatic controller with bleed rate greater than the standard based on functional need to comply with § 60.5390(a)

PCNGPP Pneumatic controller located at a natural gas processing plant with a bleed rate of zero

PCOTH Pneumatic controller not located at a natural gas processing plant with a bleed rate less than or equal to 6 standard cubic feet per hour

[Table 20d](#TBL19c): Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart OOOO: Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution for which Construction, Modification or Reconstruction Commenced After August 23, 2011, and on or before September 18, 2015

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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

Subject to Another Subpart:

Select **one** of the following options if the fugitive unit is subject to another 40 CFR Part 60 or 40 CFR Part 63, Subparts. Enter the **code** on the form.

Code Description

60VVA Fugitive unit is subject to 40 CFR Part 60, Subpart VVa

60GGG Fugitive unit is subject to 40 CFR Part 60, Subpart GGG

60GGGA Fugitive unit is subject to 40 CFR Part 60, Subpart GGGa

NONE Fugitive unit is not subject to any of the above regulations

**Construction/Modification Date:**

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

**Code** **Description**

11- On or before 8/23/2011

11-15 After 8/23/2011 and on/before 9/18/2015

15+ After 9/18/2015

* Continue only if “Construction/Modification Date” is “11-15.”

[Tables 20e - 20o](#TBL19c): Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart OOOO: Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution for which Construction, Modification or Reconstruction Commenced After August 23, 2011, and on or before September 18, 2015

**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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

Title 40 CFR Part 60, Subpart OOOO Fugitive Unit Components:

The columns on Tables 20e through 20o correspond to the fugitive unit components (group of equipment) within a process unit located at an onshore natural gas processing plant as addressed in 40 CFR Part 60, Subpart OOOO. 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 OOOO 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.

| **Component Type** | **Type of Service or Control Device** | **GOP Index Number** |
| --- | --- | --- |
| Any Component | Vacuum Service *(Table 20e)* | 511-55-010  512-36-010  513-34-010  514-32-010 |
|  | Light Liquid Service *(Table 20e)* | 511-55-011  512-36-011  513-34-011  514-32-011 |
| Pumps | Heavy Liquid Service *(Table 20i)* | 511-55-012  512-36-012  513-34-012  514-32-012 |
|  | Gas/Vapor Service *(Table 20f)* | 511-55-013  512-36-013  513-34-013  514-32-013 |
| Pressure Relief Devices | Light Liquid Service or Heavy Liquid Service *(Table 20j)* | 511-55-019  512-36-019  513-34-019  514-32-019 |
| Open-ended Valves or Lines *(Table 20g)* | Any Service | 511-55-014  512-36-014  513-34-014  514-32-014 |
|  | Gas/Vapor Service *(Table 20h)* | 511-55-015  512-36-015  513-34-015  514-32-015 |
| Valves | Heavy Liquid Service *(Table 20i)* | 511-55-016  512-36-016  513-34-016  514-32-016 |

Title 40 CFR Part 60, Subpart OOOO Fugitive Unit Components *(continued)*

| **Component Type** | **Type of Service or Control Device** | **GOP Index Number** |
| --- | --- | --- |
|  | Gas/Vapor and Light Liquid Service *(Table 20n)* | 511-55-018  512-36-018  513-34-018  514-32-018 |
| Connectors | Heavy Liquid Service *(Table 20j)* | 511-55-017  512-36-017  513-36-017  514-32-017 |
|  | Vapor Recovery Systems *(Table 20k)* | 511-55-020  512-36-020  513-34-020  514-32-020 |
|  | Enclosed Combustion Devices *(Table 20l)* | 511-55-021  512-36-021  512-34-021  514-32-021 |
| Closed Vent Systems (CVS) and Control Devices | Flares *(Table 20m)* | 511-55-022  512-36-022  512-34-022  514-32-022 |
|  | Closed Vent Systems *(Table 20n)* | 511-55-023  512-36-023  512-34-023  514-32-023 |

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

**AMEL:**

An alternative emission limitation (AMEL), approved by the EPA Administrator under 40 CFR § 60.5400(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 OOOO.

*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 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 AMEL.*

Design Capacity < 10MM:

Enter “YES” if the pumps in light liquid service, valves in gas vapor service and light liquid service, pressure relief devices in gas/vapor service, or connectors in gas/vapor service and in light liquid service are located at a nonfractionating plant that has the design capacity to process less than 10 million standard cubic feet per day of field gas. Otherwise, enter “NO.”

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 proceeding 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 – 11a, as appropriate. Otherwise, enter “NO.”

[Table 20o](#TBL19c): Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart OOOO: Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution for which Construction, Modification or Reconstruction Commenced After August 23, 2011, and on or before September 18, 2015

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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

Title 40 CFR Part 60, Subpart OOOO 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 OOOO 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 21a](#TBL21a): Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart GGGGG: National Emission Standards for Hazardous Air Pollutants: Site Remediation

* **Complete only for facilities performing sites remediation that are a major source of HAP emissions or co‑located at a facility with stationary sources that are a major source of HAP emissions and do not qualify for the §§63.7881(a) or (b) exemptions. The facility must also not qualify for the exemptions listed in §§63.7882(a)(3)(i) and (ii).**

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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

Means of Compliance:

Select one of the following options for means of compliance with this rule. Enter the code on the form.

**Code Description**

ASUB Equipment leak source is also subject to another subpart under 40 CFR part 61 or part 63 and complying with the applicable emission limitations and work practice standards in the other subpart

AMOC Alternative means of compliance (AMOC) to meet the work practice standards in section §63.7920 are being used

AMEL-TT Equipment leaks are controlled according to applicable alternative means of emission limitation requirements in 40 CFR Part 63, Subpart TT as specified in §63.1002(b) or §63.1016(a).

63TT Equipment leaks are controlled according to applicable requirements in 40 CFR Part 63, Subpart TT, excluding alternative means of emission limitation.

AMEL-UU Equipment leaks are controlled according to applicable alternative means of emission limitation requirements in 40 CFR Part 63, Subpart UU as specified in §63.1036(a)

63UU Equipment leaks are controlled according to applicable requirements in 40 CFR Part 63, Subpart UU, excluding alternative means of emission limitation.

* Complete “AMOC-GGGGG ID No.” only if “Means of Compliance” is “AMOC.”

AMOC-GGGGG ID No.:

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

Continue only if “Means of Compliance” is “AMEL-TT”, “63TT”, “AMEL-UU”, or “63UU.”

* Go to Table 21r if “Means of Compliance” is “AMEL-TT” or “63TT.”
* Complete “AMEL-UU ID No.” only if “Means of Compliance” is “AMEL-UU.”

AMEL-UU ID No.:

If an AMEL under 40 CFR part 63, subpart UU as specified in § 63.1036(a) for batch processes has been approved, enter the corresponding AMEL unique identifier for each equipment leak component (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 “Means of Compliance” is “AMEL-UU.”

Heavy Liquid Service:

Enter “YES” if any fugitive unit complying with the AMEL in 40 CFR § 63.1036(a) contains equipment in heavy liquid service. Otherwise, enter “NO.”

* Complete “UU Units Without an AMEL” only if “Means of Compliance” is “AMEL-UU.”

UU 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 §§ 63.1003(b), 63.1036(a), 63.7920. Otherwise, enter “NO.”

* Go to Table 21b if “Means of Compliance” is “63UU,” or “UU Units Without an AMEL” is “YES.”

[Tables 21b](#TBL21b) – [21p](#TBL21p): Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart GGGGG: National Emission Standards for Hazardous Air Pollutants: Site Remediation

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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

Title 40 CFR Part 63, Subpart GGGGG Equipment Leak Components:

The columns on Tables 21b through 21p correspond to the equipment leak components (group of equipment) addressed in 40 CFR Part 63, Subpart GGGGG. In the row for each equipment leak component Identification number, enter a “YES” in a column if the described component(s) are included in leaking unit. If no such components are present in the leaking unit, enter a “NO” in the column. Indicate components subject to 40 CFR Part 63, Subpart GGGGG only. This information will ensure that only the appropriate requirements for the equipment leak components are reflected in the permit. The following table lists the equipment leak component types.

Title 40 CFR Part 63, Subpart GGGGG Equipment Leak Component Types

| **Component Type** | **Type of Service or Control Device** |
| --- | --- |
| Pumps | Light Liquid Service *(Table 21b)* |
|  | Dual Mechanical Seal System *(Table 21b)* |
|  | No Externally Actuated Shaft *(Table 21b)* |
|  | Routed to Process or Fuel Gas System or Equipped with a Closed Vent System *(Table 21b)* |
|  | Heavy Liquid Service *(Table 21c)* |
| Compressors | Any *(Table 21c)* |
|  | Leakage Capture and Transport *(Table 21c)* |
|  | Instrument Reading Less Than 500 ppm *(Table 21c)* |
|  | Heavy Liquid Service *(Table 21d)* |
| Pressure Relief Devices | Gas/Vapor Service *(Table 21d)* |
|  | Equipped with a Rupture Disk *(Table 21d)* |
|  | Routed to Process or Fuel Gas System or Equipped with a Closed Vent System *(Table 21d)* |
|  | Liquid Service *(Table 21e)* |
| Sampling Connection Systems | Any *(Table 21f)* |
|  | Heavy Liquid Service *(Table 21f)* |
| Open-ended Valves or Lines | Any *(Table 21f)* |
|  | Heavy Liquid Service *(Table 21f)* |

Title 40 CFR Part 63, Subpart GGGGG Equipment Leak Component Types *(continued)*

| **Component Type** | **Type of Service or Control Device** |
| --- | --- |
| Valves | Gas/Vapor or Light Liquid Service *(Table 21g)* |
|  | Heavy Liquid Service *(Table 21g)* |
| Connectors | Gas/Vapor or Light Liquid Service *(Table 21h)* |
|  | Heavy Liquid Service *(Table 21h)* |
| Agitators | Gas/Vapor or Light Liquid Service *(Table 21i)* |
|  | Dual Mechanical Seal System *(Table 21i)* |
|  | No Externally Actuated Shaft *(Table 21i)* |
|  | Routed to Process or Fuel Gas System *(Table 21i)* |
|  | Heavy Liquid Service *(Table 21j)* |
| Instrumentation Systems | Any *(Table 21k)* |
|  | Heavy Liquid Service *(Table 21k)* |
| Closed Vent Systems | Fuel Gas System or Process *(Table 21k)* |
| Closed Vent Systems and Control Devices (CVSCD) | Non-flare Reducing Emissions with 95% Efficiency *(Table 21l)* |
|  | Non-flare Reducing Emissions to 20 ppmv *(Table 21l)* |
|  | Enclosed Combustion Device Reducing Emissions with 95% Efficiency *(Table 21l)* |
|  | Enclosed Combustion Device Reducing Emissions to 20 ppmv *(Table 21m)* |
|  | Residence time of 0.5 seconds at a minimum of 760 degrees Celsius *(Table 21m)* |
|  | Flare *(Table 21m)* |
|  | 63GGGGG-Regenerable Carbon Adsorption System *(Table 21n)* |
|  | 63GGGGG-Non-Regenerable Carbon Adsorption System *(Table 21n)* |
|  | 63GGGGG-Condenser *(Table 21n)* |
|  | 63GGGGG-Thermal Incinerator *(Table 21o)* |
|  | 63GGGGG-Catalytic Incinerator *(Table 21o)* |
|  | 63GGGGG-Boiler or Process Heater *(Table 21p)* |
|  | 63GGGGG-Flare *(Table 21p)* |

* Complete the Following Items, Where Appropriate.

AMEL:

An alternative emission limitation (AMEL) approved by the EPA Administrator under 40 CFR §63.7920(b)(2) and §63.1021(b) may be used for certain equipment leak components to achieve a reduction in HAP emissions at least equivalent to the reduction in HAP emissions achieved by controls required in 40 CFR Part 63, Subpart UU sections §63.1025 through §63.1034.

*Note: 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 equivalent emission limitation (EEL) has been approved, enter the corresponding EEL unique identifier for each equipment leak 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.

**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. Use multiple lines if more than one control device is used. If there is no control device, then leave this column blank.

[Table 21q](#TBL21q): Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart GGGGG: National Emission Standards for Hazardous Air Pollutants: Site Remediation

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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

Enclosed-Vented Process Unit AMEL-UU:

Enter “YES” if the fugitive unit contains an enclosed-vented process unit complying with the alternate method of emission limitation (AMEL) in 40 CFR § 63.1037. Otherwise, enter “NO.”

Enclosed-Vented Process Unit AMEL-UU ID No.:

If an AMEL under 40 CFR part 63, subpart UU as specified in §63.1037 has been approved, enter the corresponding AMEL unique identifier for each equipment leak component (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 “Negative Pressure” only if “Type of Service or Control Device” is “Non-flare Reducing Emissions with 95% Efficiency,” “Non-flare Reducing Emissions to 20 ppmv,” “Enclosed Combustion Device Reducing Emissions with 95% Efficiency,” “Enclosed Combustion Device Reducing Emissions to 20 ppmv,” “Residence time of 0.5 seconds at a minimum of 760 degrees Celsius,” or “Flare.”

Negative Pressure:

Enter “YES” if the Closed Vent System is operated and maintained under negative pressure. Otherwise, enter “NO.”

* Complete “Bypass Device” only if “Negative Pressure” is “NO.”

Bypass Device:

Select the option that describes the bypass device on the closed vent system. Enter the **code** on the form.

Code Description

NONE The closed vent system does not have a bypass device that could be used to divert all or a portion of the gases, vapors, or fumes from entering the control device or to a process

FLOW Flow indicator installed at the inlet of the bypass device

SEC Bypass device valves are secured in the closed position with a car-seal or lock-and-key configuration

* Go to Table 21aa if “Type of Service or Control Device” is “63GGGGG-Regenerable Carbon Adsorption System,” “63GGGGG-Non-Regenerable Carbon Adsorption System,” “63GGGGG-Condenser,” “63GGGGG-Thermal Incinerator,” “63GGGGG-Catalytic Incinerator,” “63GGGGG-Boiler or Process Heater,” or “63GGGGG-Flare.”
* Complete “Flare Compliance” only if “Type of Service or Control Device” is “Flare.”

Flare Compliance:

Select the option that describes means of demonstrating flare performance and compliance. Enter the **code** on the form.

Code Description

PRIOR Test data from a prior performance test or compliance assessment is used to demonstrate flare compliance as described in §63.997(b)(2)

WAIVER A waiver of performance testing or compliance assessment has been granted by the Administrator

TEST Performance tests are conducted according to applicable flare requirements in 40 CFR Part 63 Subpart SS

[Table 21r](#TBL21r): Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart GGGGG: National Emission Standards for Hazardous Air Pollutants: Site Remediation

* Complete Table 21r only if “Means of Compliance” is “AMEL-TT” or “63TT.”

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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

* Complete “Enclosed-Vented Process Unit AMEL-TT,” “General AMEL,” and “TT Units Without an AMEL” only if “Means of Compliance” is “AMEL-TT.”

Enclosed-Vented Process Unit AMEL-TT:

Enter “YES” if the fugitive unit contains an enclosed-vented process unit complying with the alternate method of emission limitation (AMEL) in 40 CFR § 63.1016(a). Otherwise, enter “NO.”

Enclosed-Vented Process Unit AMEL-TT ID No.:

If an AMEL under 40 CFR part 63, subpart TT as specified in §63.1016(a) has been approved, enter the corresponding AMEL unique identifier for each equipment leak component (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.

General AMEL-TT:

Enter “YES” if the fugitive unit is complying with the AMEL in 40 CFR § 63.1002(b). Otherwise, enter “NO.”

**General AMEL-TT ID No.:**

If an AMEL under 40 CFR part 63, subpart TT as specified in §63.1002(b) has been approved, enter the corresponding AMEL unique identifier for each equipment leak component (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 “TT Units Without an AMEL” only if “Means of Compliance” is “AMEL-TT.”

TT 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 §§ 63.1002(b), 63.1016(a), or 63.7920. Otherwise, enter “NO.”

* Go to Table 21s if “Means of Compliance” is “63TT,” or “TT Units Without an AMEL” is “YES.”

[Tables 21s](#TBL21s) – [21y](#TBL21y): Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart GGGGG: National Emission Standards for Hazardous Air Pollutants: Site Remediation

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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

Title 40 CFR Part 63, Subpart GGGGG Equipment Leak Components:

The columns on Tables 21s through 21y correspond to the equipment leak components (group of equipment) performing site remediation as described in 40 CFR Part 63, Subpart GGGGG. In the row for each equipment leak Identification number, enter a “YES” in a column if the described component(s) are included in leaking unit. If no such components are present in the leaking unit, enter a “NO” in the column. Indicate components subject to 40 CFR Part 63, Subpart GGGGG 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 GGGGG Equipment Leak Component Types

| **Component Type** | **Type of Service or Control Device** |
| --- | --- |
| Pumps | Light Liquid Service *(Table 21s)* |
|  | Handling Polymerizing Monomers *(Table 21s)* |
|  | Food/Medical Service *(Table 21s)* |
|  | Heavy Liquid Service *(Table 21s)* |
| Compressors | Any *(Table 21s)* |
| Pressure Relief Devices | Gas/Vapor Service *(Table 21t)* |
|  | Liquid Service *(Table 21t)* |
| Sampling Connection Systems | Any *(Table 21t)* |
| Open-ended Valves or Lines | Any *(Table 21t)* |
| Valves | Gas/Vapor or Light Liquid Service *(Table 21t)* |
|  | Heavy Liquid Service *(Table 21t)* |
| Connectors | Gas/Vapor and Light Liquid Service *(Table 21u)* |
|  | Heavy Liquid Service *(Table 21u)* |
| Agitators | Gas/Vapor and Light Liquid Service *(Table 21u)* |
|  | Heavy Liquid Service *(Table 21u)* |
| Instrumentation Systems | Any *(Table 21u)* |
| Closed Vent Systems | Fuel Gas System or Process *(Table 21u)* |
| Closed Vent Systems and Control Devices (CVSCD) | Non-flare Reducing Emissions with 95% Efficiency *(Table 21v)* |
|  | Non-flare Reducing Emissions to 20 ppmv *(Table 21v)* |
|  | Enclosed Combustion Device *(Table 21v)* |
|  | Flare *(Table 21w)* |
|  | 63GGGGG-Regenerable Carbon Adsorption System *(Table 21w)* |
|  | 63GGGGG-Non-Regenerable Carbon Adsorption System *(Table 21w)* |
|  | 63GGGGG-Condenser *(Table 21x)* |
|  | 63GGGGG-Thermal Incinerator *(Table 21x)* |
|  | 63GGGGG-Catalytic Incinerator *(Table 21x)* |
|  | 63GGGGG-Boiler or Process Heater *(Table 21y)* |
|  | 63GGGGG-Flare *(Table 21y)* |

* Complete the Following Items, Where Appropriate.

**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. Use multiple lines if more than one control device is used. If there is no control device, then leave this column blank.

[Table 21z](#TBL21y): Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart GGGGG: National Emission Standards for Hazardous Air Pollutants: Site Remediation

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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

* Complete “Negative Pressure” only if “Type of Service or Control Device” is “Non-flare Reducing Emissions with 95% Efficiency,” “Non-flare Reducing Emissions to 20 ppmv,” “Enclosed Combustion Device,” or “Flare”.

**Negative Pressure:**

Enter “YES” if the Closed Vent System is operated and maintained under negative pressure. Otherwise, enter “NO.”

* Complete “Bypass Device” only if “Negative Pressure” is “NO.”

Bypass Device:

Select the option that describes the bypass device on the closed vent system. Enter the **code** on the form.

Code Description

NONE The closed vent system does not have a bypass device that could be used to divert all or a portion of the gases, vapors, or fumes from entering the control device or to a process

FLOW Flow indicator installed at the inlet of the bypass device

SEC Bypass device valves are secured in the closed position with a car-seal or lock-and-key configuration

* Go to Table 21aa if “Type of Service or Control Device ” is “63GGGGG-Regenerable Carbon Adsorption System,” “63GGGGG-Non-Regenerable Carbon Adsorption System,” “63GGGGG-Condenser,” “63GGGGG-Thermal Incinerator,” “63GGGGG-Catalytic Incinerator,” “63GGGGG-Boiler or Process Heater,” or “63GGGGG-Flare.”
* Complete “Flare Compliance” only if “Type of Service or Control Device” is “Flare.”

Flare Compliance:

Select the option that describes means of demonstrating flare performance and compliance. Enter the **code** on the form.

Code Description

PRIOR Test data from a prior performance test or compliance assessment is used to demonstrate flare compliance as described in §63.997(b)(2)

WAIVER A waiver of performance testing or compliance assessment has been granted by the Administrator

TEST Performance tests are conducted according to applicable flare requirements in 40 CFR Part 63 Subpart SS

[Table 21aa](#TBL21aa): Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart GGGGG: National Emission Standards for Hazardous Air Pollutants: Site Remediation

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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

**Alternative Work Practice Standards:**

Enter “YES” if an alternative to work practice standards for the closed vent system and control device has been approved by the EPA. Otherwise, enter “NO.”

Alternative Work Practice Standards ID No.:

If an Alternative Work Practice Standard has been approved, then enter the corresponding Alternative Standard unique identifier for each unit or process. If the unique identifier is unavailable, then enter the date of the Alternative Standard approval letter. The unique identifier and/or the date of the approval letter are contained in the Compliance File under the appropriate regulated entity number. Otherwise, leave this column blank.

* **Complete “Design Evaluation” only if “Type of Service or Control Device” is “63GGGGG-Regenerable Carbon Adsorption System,” “63GGGGG-Non-Regenerable Carbon Adsorption System,” “63GGGGG-Condenser,” “63GGGGG-Thermal Incinerator,” “63GGGGG-Catalytic Incinerator,” or “63GGGGG-Boiler or Process Heater.”**

Design Evaluation:

Enter “YES” if design evaluation is used to demonstrate initial control device compliance. Otherwise, enter “NO.”

Bypass Device**:**

Select the option that describes the bypass device on the closed vent system. Enter the code on the form.

**Code Description**

NONE No bypass device

FLOW Bypass device is equipped with a flow indicator

FLOW-H Bypass device is equipped with a flow indicator and the closed vent system is inspected and monitored as specified in 40 CFR § 63.7927(a)(1)(ii)

SEAL Bypass device is equipped with a seal or locking device

SEAL-H Bypass device is equipped with a seal or locking device and the closed vent system is inspected and monitored as specified in 40 CFR § 63.7927(a)(1)(ii)

**Continuous Emissions Monitoring System:**

Enter “YES” if a continuous emissions monitoring system (CEMS) is used to monitor the control device. Otherwise, enter “NO.”

**CVSCD Continuous Compliance:**

Select one of the following options for closed vent system setup to determine means of continuous compliance.

**Code Description**

NOEM The closed vent system is designed to operate with no detectable organic emissions, as specified in 40 CFR § 63.7928(b)(1)

BAP The closed vent system is designed to operate below atmospheric pressure, as specified in 40 CFR § 63.7928(b)(2)

CVS-H The closed vent system is monitored as specified in 40 CFR § 63.7928(b)(5)

[Table 22a:](#TBL19c) Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115), Subchapter B, Division 7: Oil and Natural Gas Service in Ozone Nonattainment Areas

* **Complete Table 22a-b for Centrifugal Compressor and Reciprocating Compressor affected facilities.**
* **Complete Table 22c-d for Pneumatic Controller and Pneumatic Pump affected facilities.**
* **Complete Table 22e-o for a collection of fugitive 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 (maximum15 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

Compressor Type:

Select **one** of the following codes that describes the compressor at the site. Enter the **code** on the form.

For Centrifugal Compressors

**Code Description**

CCWELL Centrifugal compressor located at a well site

CCOMPDS Centrifugal compressor using dry seals

CCOMPWS Centrifugal compressor using wet seals

For Reciprocating Compressors

**Code Description**

RCWELL Reciprocating compressor located at a well site

RC26K- Reciprocating compressor rod packing being replaced on or before 26,000 hours of operation

RC36- Reciprocating compressor rod packing being replaced prior to 36 months from the date of the previous replacement or startup

* Continue only if “Compressor Type” is “CCOMPWS,” “RC26K-,” or “RC36-.”

Alternate Control Requirement:

Enter “YES” if using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria and demonstrating substantially equivalent reduction efficiencies which have been approved by the TCEQ executive director. Otherwise, enter “NO.”

ACR ID No.:

If an ACR has been approved, then enter the corresponding ACR unique identifier for each 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.

* Continue only if “Alternate Control Requirement” is “NO.”

[Table 22b:](#TBL19c) Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115), Subchapter B, Division 7: Oil and Natural Gas Service in Ozone Nonattainment 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 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

**Control Option:**

Select **one** of the following codes that describe the control option for the centrifugal compressor. Enter the **code** on the form.

Code Description

CD95 Emissions from closed vent system routed to a control device maintaining a VOC control efficiency of at least 95%

CD275 Emissions from closed vent system routed to a control device maintaining a VOC control concentration of equal to or less than 275 parts per million by volume (ppmv)

PRO95 Emissions from closed vent system routed to a process maintaining a VOC control efficiency of at least 95%

FLARE Emissions from closed vent system routed to a flare

* Complete “Control Device” and “Control Device ID No.” only if “Control Option” is “CD95” or “CD275.”

**Control Device:**

Select **one** of the following codes that describe the control device for the compressor. Enter the **code** on the form.

Code Description

BPH44+ Boiler or process heater with a design heat input capacity of 44 MW or greater

BPHPF Boiler or process heater where the vent stream is introduced with the primary fuel or used as the primary fuel

BPH44- Boiler or process heater with a design heat input capacity of less than 44 MW

DFI Direct flame incinerator

CVI Catalytic vapor incinerator

REGEN Regenerable carbon adsorption system

NONREGEN Non-regenerable carbon adsorption system

COND Condenser

VAPOR Vapor Recovery Unit

OTHCCD Other combustion control device

OTHNCCD Other non-combustion control device

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. If there is no control device, then leave this column blank.

Bypass Device:

Enter “YES” if the closed vent system has a bypass device that could be used to divert all or a portion of the gases, vapors, or fumes from entering the control device or to a process. Otherwise, enter “NO.”

* Do not continue if “Control Device” is “BPH44+” or “BPHPF.”

Unsafe to Monitor:

Enter “YES” if the component has any parts designated as unsafe to monitor. Otherwise, enter “NO.”

Difficult to Monitor:

Enter “YES” if the component has any parts designated as difficult to monitor. Otherwise, enter “NO.”

[Table 22c:](#TBL19c) Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115), Subchapter B, Division 7: Oil and Natural Gas Service in Ozone Nonattainment 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 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

Pneumatic Facility Type:

Select **one** of the following codes that describes the pneumatic pump/controller at the site. Enter the **code** on the form.

For Pneumatic Pumps

**Code Description**

PP90- Pneumatic Pump at a well site that operates fewer than 90 days per year

PPNG Pneumatic Pump located at a natural gas processing plant

PPWELL Pneumatic Pump located at a well site

For Pneumatic Controllers

**Code Description**

PCNG Pneumatic Controller located at a natural gas processing plant with a bleed rate of zero

PC6- Pneumatic Controller not located at a natural gas processing plant with a bleed rate of less than or equal to 6 standard cubic feet per hour

Alternate Control Requirement:

Enter “YES” if using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria and demonstrating substantially equivalent reduction efficiencies which have been approved by the TCEQ executive director. Otherwise, enter “NO.”

ACR ID No.:

If an ACR has been approved, then enter the corresponding ACR unique identifier for each 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.

* Continue to Table 22d only if “Facility Type ” is “PPWELL” and “Alternate Control Requirement” is “NO.”

[Table 22d:](#TBL19c) Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115), Subchapter B, Division 7: Oil and Natural Gas Service in Ozone Nonattainment 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 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

**Control Device:**

Select **one** of the following codes that describe the control device for the pneumatic pump. Enter the **code** on the form.

Code Description

PRO Emissions from closed vent system routed to a process

BPH44+ Boiler or process heater with a design heat input capacity of 44 MW or greater

BPHPF Boiler or process heater where the vent stream is introduced with the primary fuel or used as the primary fuel

BPH44- Boiler or process heater with a design heat input capacity of less than 44 MW

DFI Direct flame incinerator

CVI Catalytic vapor incinerator

FLARE Flare

REGEN Regenerable carbon adsorption system

NONREGEN Non-regenerable carbon adsorption system

COND Condenser

VAPOR Vapor Recovery Unit

OTHCCD Other combustion control device

OTHNCCD Other non-combustion control device

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. If there is no control device, then leave this column.

Bypass Device:

Enter “YES” if the closed vent system has a bypass device that could be used to divert all or a portion of the gases, vapors, or fumes from entering the control device or to a process. Otherwise, enter “NO.”

* Do not continue if “Control Device” is “BPH44+” or “BPHPF.”

Unsafe to Monitor:

Enter “YES” if the component has any parts designated as unsafe to monitor. Otherwise, enter “NO.”

Difficult to Monitor:

Enter “YES” if the component has any parts designated as difficult to monitor. Otherwise, enter “NO.”

[Table 22e-o:](#TBL19c) Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115), Subchapter B, Division 7: Oil and Natural Gas Service in Ozone Nonattainment 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 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 see the Completing FOP Applications – Additional Guidance on the TCEQ website at [www.tceq.texas.gov/permitting/air/guidance/titlev/tv\_fop\_guidance.html](http://www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html).

*Note to SOP Applicants: For the group of equipment within a process unit that is located at an onshore natural gas processing plant, some fugitive units may have all equipment identified in* *30 TAC Chapter 115, Subchapter B, Division 7. Applicants may choose to identify the SOP index number as “R5170-ALL” in lieu of the corresponding unit attributes information. Use of this index number will imply that all requirements in the regulation, other than closed vent system and control device requirements, 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.*

Fugitive Component:

Select **one** of the following codes that describes the type of fugitive components at the site. Enter the **code** on the form.

**Code** **Description**

FCNG1- Collection of fugitive components located at a natural gas processing plant that have contact with a process fluid containing less than 1.0% VOC by weight

SAMPNG Affected facility is a sampling connection system at a natural gas processing plant that meets the requirements of 40 CFR §63.166(a) and (b)

FCWS Collection of fugitive components located at a well site

FCWS3- Collection of fugitive components located at a well site producing less than 15 barrels per day on average

FCGBS Collection of fugitive components located at a gathering or boosting station

FCNG Collection of fugitive components located at a natural gas processing plant

* Continue only if “Fugitive Component” is “FCNG”, “FCGBS”, or “FCWS.”

Components Utilizing Alternative Work Practice in § 115.358:

Enter “YES” if any of the components are utilizing the alternative work practices in §115.358. Otherwise, enter “NO.”

* Continue only if “Fugitive Component” is “FCNG.”

Title 30 TAC § 115.177 Fugitive Unit Components:

The columns on Tables 21c through 21h correspond to the fugitive unit components (group of equipment) within a process unit located at a natural gas processing plant as addressed in 30 TAC § 115.177. 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 § 115.177 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 § 115.177 Fugitive Unit Components

| **Component Type** | **59TType of Service** |
| --- | --- |
| Pumps *(Table 22f)* | Light Liquid VOC Service |
| Pumps *(Table 22g)* | Heavy Liquid VOC Service |
| Valves *(Table 22h)* | VOC Service |
| Flanges *(Table 22i)* | VOC Service |
| Connectors *(Table 22j)* | VOC Service |
| Pressure Relief Devices *(Table 22k)* | VOC Service |
| Sampling Connections *(Table 22l)* | VOC Service |
| Process Drains *(Table 22m)* | VOC Service |
| Compressors *(Table 22n)* | VOC Service |

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.

17TIf 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, 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 § 115.177(b)(1):

Enter “YES” if any of the indicated fugitive components are complying with the requirements in 30 TAC § 115.177(b)(1). Otherwise, enter “NO.”

Polymerizing Monomer:

Enter “YES” if any of the pumps used for a polymerizing monomer. Otherwise, enter “NO.”

Not Polymerizing Monomer:

Enter “YES” if any of the pumps used for a substance is not a polymerizing monomer. Otherwise, enter “NO.”

Components Utilizing Alternative Work Practice in § 115.358:

Enter “YES” if any of the components are utilizing the alternative work practices in §115.358. Otherwise, enter “NO.”

Title 30 TAC § 115.177 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.