

**Form OP-UA2 – Instructions**  
**Stationary Reciprocating Internal Combustion Engine Attributes**  
**Texas Commission on Environmental Quality**

The unit attributes (OP-UA) forms are used to provide a description and data pertaining to all emission units with potentially applicable requirements associated with a particular regulated entity (RN) number and application. The information will be provided in an excel format. Each OP-UA form will include sheets for General Information, a Table of Contents, OP-SUM, OP-REQ2, and the unit attribute tables. The individual unit summary (OP-SUM) information and the negative applicable/superseded requirement determinations (OP-REQ2) will be provided on each individual OP-UA form for the applicable units identified in the unit attribute tables.

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### **General Information Sheet**

The General Information sheet holds the permit information. The following permit application information is requested for the site:

**Date:**

Enter the date the application is being submitted by the applicant to TCEQ (MM/DD/YYYY). Any subsequent submittals must show the date of revision.

**Customer Reference No. (CN):**

Enter the customer reference number (CNXXXXXXXXXX). This number is issued by TCEQ as part of the central registry process. If a customer reference number has not yet been issued, leave this space blank. Do not enter permit numbers, project numbers, account numbers, etc., in this space.

**Regulated Entity No. (RN):**

Enter the regulated entity reference number for the site (RNXXXXXXXXXX). This number is issued by TCEQ as part of the central registry process. If a regulated entity reference number has not yet been issued, leave this space blank. Do not enter permit numbers, project numbers, account numbers, etc., in this space.

**Permit No.:**

Enter the permit number assigned by TCEQ. Leave the permit number blank if a permit number has not been assigned.

**Permit Area Name:**

Enter the name of the application area (maximum 50 characters). This should be the same name provided on Form OP-1 (Site Information Summary).

**Permit Type:**

Choose the type of permit for which this application is being submitted from the dropdown menu (SOP, GOP, TOP). Information on the different permit types can be found on TCEQ's website at:  
[www.tceq.texas.gov/permitting/air/titlev/permit\\_types.html](http://www.tceq.texas.gov/permitting/air/titlev/permit_types.html).

**Project Type:**

Choose the project type for which this application is being submitted from the dropdown menu (Initial, Revision, Renewal).

**Submission Type:**

Choose the submission type for which this form is being submitted from the dropdown menu (New Application, Existing Application Update).

**Project Number:**

Enter the project number assigned by TCEQ. Leave the project number blank if a project number has not been assigned.

Title V Form Release Date, Form Number, APD ID Number, and Version Revised Date are present and cannot be altered.

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## Table of Contents Sheet

The Table of Contents lists all the sheets in the UA Form. If information is submitted on the OP-SUM, OP-REQ2 or the Unit Attribute tables, the "Data Submitted" column will display a "Yes". If no information is submitted, the "Data Submitted" column will remain blank. The Table of Contents information is auto populated. Applicants will not need to submit any information in the Table of Contents.

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## Instructions for OP-SUM Sheet

### General:

All units with one or more potentially applicable requirements addressed in this form must be identified on the OP-SUM sheet. The term "unit" in these instructions has the meaning of "emission unit" as defined in 30 TAC Chapter 122.

The purpose of this sheet is to list individual units addressed in the Federal Operating Permit (FOP) application and to provide identifying information and preconstruction authorizations. This form is also used to designate members of groups.

The corresponding preconstruction authorization for each unit must also be listed on this form. For units which were authorized to construct or modify under Permits by Rule (PBR), list all applicable PBR information, including registration numbers. If a unit is authorized under more than one preconstruction authorization, then list all applicable preconstruction authorizations, including any Prevention of Significant Deterioration (PSD) and/or nonattainment permit(s).

### Groups:

- A "group" is a collection of units or devices that have identical applicability (or non-applicability) determinations and may, or may not, have a physical relationship.
- Group members may have different 30 TAC Chapter 116 or 30 TAC Chapter 106 preconstruction authorizations.
- Groups may be used on UA forms only if all unit attributes are identical.
- All groups must be mutually exclusive. Units cannot be listed in more than one group on a given UA form.
- Grouping is optional.
- Groups are assigned an ID No. by the applicant, which must begin with the prefix "GRP" followed by a maximum of eleven characters (GRPXXXXXXX).

### Specific:

#### Table 1

#### Unit Action Indicator (Unit AD):

Complete this section only for a permit revision or renewal. Select "A" from the dropdown menu if the emission unit indicated is an addition to the existing permit. Select "D" from the dropdown menu if the existing emission unit indicated is being deleted from the permit. If an emission unit is not being added/deleted from the permit, leave blank.

#### Revision No.:

Complete this section only for a permit revision or renewal. Enter the revision number identified on Form OP-2, Table 2. This number will link the specified change to the appropriate permit revision. If no changes are made to an existing unit in the permit, leave blank.

#### Unit ID No.:

Each unit must be assigned an identification number. (Maximum 14 characters)

- For emission units with potentially applicable requirements, enter Facility ID Nos. (FINs) as listed in the TCEQ State of Texas Air Reporting System (STARS).

- If FIN currently does not exist in STARS, then a new ID No. that is consistent with the existing numbering system must be provided by the applicant. Unit ID Nos. cannot begin with “GRP” (the character sequence reserved for Group ID Nos.).

**Group ID No.:**

If applicable, enter the unique identification number for the group which includes this unit (GRPXXXXXX) (“GRP” followed by a maximum of 11 characters). If the unit is not a member of a group, leave this column blank. (See general instructions, above, for information regarding requirements for grouping units in FOP applications.)

**Unit Name/Description:**

Each unit must be given a name or description that distinguishes it from other units as much as practicable. The Unit Name/Description should clearly indicate the type of unit. If possible, please avoid using generic descriptions, such as “Tank” or “Boiler,” for multiple units. (Maximum 50 characters)

- Enter a text name or description for the unit from STARS whenever possible.
- If no STARS name currently exists, a new name that is consistent with the existing naming convention must be provided by the applicant.

**Example:** The following example is intended as guidance on completion of columns on OP-SUM. It should be assumed that all criteria for inclusion in the application are met. Criteria for grouping are also assumed to be satisfied.

Unit ID No.	Group ID No.	Unit Name/Description
B-1	GRP-BOILER	Boiler 1
B-2	GRP-BOILER	Boiler 2
T-3		Tank 3
T-4		Tank 4

**CAM (For reference only):**

Indicate if the unit is subject to 40 CFR Part 64 by selecting “Y” from the dropdown menu in the “CAM” column next to the unit. Please refer to 40 CFR Part 64 to determine applicability. *Certification by the Responsible Official (RO) pursuant to 30 TAC § 122.165 does not extend to the information which is designated on forms as “For reference only.”*

**Preconstruction Authorizations (PCA):**

At least one PCA must be indicated for each unit; however, a unit may have multiple authorizations. *All preconstruction authorizations listed on this form must also be identified on Form OP-REQ1.*

When a unit has multiple authorizations, each PCA must be listed in a separate row.

*The following examples are intended as guidance on completion of columns for the preconstruction authorizations. The examples are followed by specific instructions for each column.*

*Example 1: Adding multiple PCA Categories for a unit*

Unit AI	Revision No.	Unit ID No.	Group ID No.	Unit Name/Description	CAM	PCA AI	Preconstruction Authorization (PCA) Category	Authorization/Registration Number	Permit By Rule (PBR) Number	PBR Effective Date
A		Flare1		Diamine Flare	Y	A	NSR Permit	1234		
A		Flare1		Diamine Flare	Y	A	PSD	PSDTX1234		
A		Flare1		Diamine Flare	Y	A	PBR	23456, 34567	106.261	11/01/2003
A		Flare1		Diamine Flare	Y	A	PBR	23456, 34567	106.262	11/01/2003

Example 2: Adding and deleting a PCA for a unit

Unit AI	Revision No.	Unit ID No.	Group ID No.	Unit Name/Description	CAM	PCA AI	Preconstruction Authorization (PCA) Category	Authorization/Registration Number	Permit By Rule (PBR) Number	PBR Effective Date
		T-3	GRPTANKS	Tank 3		A	Standard Permit	12345		
		T-3	GRPTANKS	Tank 3		D	PBR		106.432	09/04/2000

#### Preconstruction Authorization Action Indicator (PCA AI):

Select “A” from the dropdown menu if a preconstruction authorization is being added for the emission unit. Select “D” from the dropdown menu if a preconstruction authorization is being deleted from the emission unit. If a preconstruction authorization is not being added/deleted from the emission unit, leave blank.

#### Preconstruction Authorization (PCA) Category:

Select from the dropdown menu the category of the PCA being added or deleted.

- PBR - Permit by Rule claimed or registered under 30 TAC Chapter 106
- Standard Permit - 30 TAC Chapter 116 and non-rule Air Quality Standard Permits
- NSR Permit - 30 TAC Chapter 116 preconstruction authorizations
- PSD - Prevention of Significant Deterioration Permits
- Nonattainment - Nonattainment Permits
- GHG – Greenhouse Gas Permits
- 112(G) [HAP] - Hazardous Air Pollutant Permits
- MSW or IHW - Municipal Solid Waste or Industrial Hazardous Waste Permits
- Exemption – De Minimis Facilities or Sources authorized by 30 TAC Chapter 116, § 116.119

#### Authorization/Registration Number:

List all TCEQ permit numbers for 30 TAC Chapter 116 preconstruction authorizations, Title I preconstruction authorizations (PSD and nonattainment permits) and 30 TAC Chapter 106 (PBR) registration numbers, under which the unit is operating.

- **30 TAC Chapter 116 Permits:** Enter the TCEQ permit number, for example, 12345. This includes special permits and standard permit registrations.
- **Prevention of Significant Deterioration (PSD) Permit:** Enter the PSD permit number (PSDTXXXX), for example, PSDTX123. If the PSD permit has been modified, include the “M” suffix (PSDTXXXXMXX), for example, PSDTX123M5. *Title I authorizations should only be listed for units addressed by the PSD or nonattainment permits.*
- **Nonattainment Permit:** Enter each nonattainment permit number (NXXX), for example, N123. If the nonattainment permit has been modified, include the “M” suffix (NXXXMXX), for example, N123M5. *Title I authorizations should only be listed for units addressed by the PSD or nonattainment permits.*
- **Permit by Rule (previously Standard Exemption):** Enter the PBR Registration No. for each PBR registered under 30 TAC Chapter 106 and each standard exemption previously registered under 30 TAC Chapter 116.
- **Exemption:** Enter 116.119 for a de minimis facility or source, which has other potentially applicable or applicable requirements (these are authorized by 30 TAC Chapter 116, § 116.119). *De minimis facilities or sources should not be included if there are no other potentially applicable or applicable requirements.*

#### Permit by Rule (PBR) Number:

For each PBR claimed or registered under 30 TAC Chapter 106, and each standard exemption claimed or registered previously under 30 TAC Chapter 116, enter the number in the appropriate format shown below.

*Note: All units authorized by PBR must also be identified on Form OP-PBRSUP.*

Format	PBR/standard exemption claimed or registered date
106.XXX	Authorized on or after March 14, 1997 (except 106.181 is on or after December 27, 1996)
XXX	Authorized prior to March 14, 1997

XXX = 30 TAC Chapter 116 standard exemption number or 30 TAC Chapter 106 PBR number.

#### PBR Effective Date:

For each PBR claimed or registered under 30 TAC Chapter 106 and each standard exemption claimed or registered, enter the effective date of the rule. MM/DD/YYYY = *Effective date of the Standard Exemption or PBR in effect at the time claimed or granted. Information on version dates is available at:*

Information on Chapter 116 version dates is available at:

[www.tceq.texas.gov/permitting/air/permitbyrule/historical\\_rules/oldselist/se\\_index.html](http://www.tceq.texas.gov/permitting/air/permitbyrule/historical_rules/oldselist/se_index.html).

Information on Chapter 106 version dates is available at:

[www.tceq.texas.gov/permitting/air/permitbyrule/historical\\_rules/old106list/index106.html](http://www.tceq.texas.gov/permitting/air/permitbyrule/historical_rules/old106list/index106.html).

Please note that prior to March 14, 1997, a standard exemption list was incorporated by reference into 30 TAC Chapter 116 and each standard exemption had an assigned number, e.g., 112. Each standard exemption now resides in a section of 30 TAC Chapter 106 (e.g., 30 TAC § 106.148) and now is referred to as a PBR.

(Standard exemptions were readopted under the PBR designation on March 14, 1997.) Information regarding PBRs may be found on the TCEQ website at <https://www.tceq.texas.gov/permitting/air/permitbyrule/air-pbr>.

The applicant has the option of claiming a newer and more stringent version of the standard exemption or PBR if the original applicable version of the standard exemption or PBR cannot easily be determined. As an example of a standard exemption authorized before March 14, 1997, Standard Exemption No. 6 had an effective date of August 30, 1988. It was then amended with a new effective date of July 20, 1992. The standard exemption identifier for a compressor engine constructed in 1993 and registered under Standard Exemption No. 6 would be represented as:

Permit By Rule (PBR) Number	PBR Effective Date
6	07/20/1992

As an example of a PBR authorized on or after March 14, 1997, Standard Exemption No. 6 had an effective date of June 7, 1996. It was then amended and moved to 30 TAC § 106.512 with an effective date of March 14, 1997. The PBR identifier for a compressor engine constructed in 1998 and registered under 30 TAC § 106.512 would be represented as:

Permit By Rule (PBR) Number	PBR Effective Date
106.512	03/14/1997

**Table 2**

**Complete Table 2 only for Affected Sources that are subject to the following Program(s): Acid Rain, Cross-State Air Pollution Rule (CSAPR), and/or Texas SO<sub>2</sub> Trading Program.**

#### General:

The Acid Rain Program permit requirements are defined in 30 TAC Chapter 122, Subchapter E. The CSAPR requirements are defined in 40 CFR Part 97. The Texas SO<sub>2</sub> Trading Program requirements are defined in 30 TAC Chapter 101, Subchapter H.

**Specific:****Unit Action Indicator (Unit AI):**

Select “A” from the dropdown menu if the emission unit indicated is an addition to the permit. Select “D” from the dropdown menu if the existing emission unit indicated is being deleted from the permit. If an emission unit is not being added/deleted from the permit, leave blank.

**Revision No.:**

Complete this section only for a permit revision or renewal. Enter the revision number identified on Form OP-2, Table 2. This number will link the specified change to the appropriate permit revision. If no changes are made to an existing unit in the permit, leave blank.

**Unit ID No.:**

Each affected unit must be assigned an identification number (maximum 14 characters). The identification number listed on Table 2 must be the same as the identification number listed on Table 1 of this form for the same unit.

*Note: There may be differences between the Unit ID No. on the OP-SUM and unit names from other sources such as EPA COR, EIA (ORIS), TCEQ SIP lists, etc. However, the Unit ID No. utilized for OP-SUM, Table 2 must be consistent with those given on the OP-SUM, Table 1.*

**COR Unit ID No.:**

Enter the unit identification number (maximum 14 characters) that is listed on the EPA Certificate of Representation (COR).

**Acid Rain:**

Select “YES” from the dropdown menu for an affected unit subject to the Acid Rain Program (ARP). Otherwise, select “NO.”

**ARP Status:**

Select one of the following options from the dropdown menu that describes the ARP status for that unit.

<b>Code</b>	<b>Description</b>
EU	An existing affected unit with an existing Acid Rain permit
NEW	A new affected unit that does not have an existing Acid Rain permit (Applicant must also submit Form OP-AR1.)
RENEW	An existing affected unit with an existing Acid Rain permit for which the applicant is applying for a renewal (Applicant must also submit Form OP-AR1.)
NEXM	Applying for a new unit exemption under 40 CFR 72.7 (Applicant must also submit required additional information in a separate cover letter.)
REXM	Applying for a retired unit exemption under 40 CFR 72.8 (Applicant must also submit required additional information in a separate cover letter.)
OPT	A unit that is not an affected unit requiring an Acid Rain permit but applicant is electing to become an affected unit as an “OPT-IN” in the Acid Rain program under 40 CFR Part 74 (Applicant must also submit required additional information in a separate cover letter.)

**CSAPR:**

Select “YES” from the dropdown menu if the unit is subject to the requirements of 40 CFR Part 97, Subpart EEEEE (CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program). Otherwise, select “NO.”

**CSAPR Monitoring:**

Select one of the following options from the dropdown menu that describes the CSAPR NO<sub>x</sub> Ozone Season Group 2 monitoring for that unit.

<b>Code</b>	<b>Description</b>
CEMS	A unit that is complying with the CEMS requirements of 40 CFR Part 75, Subpart H for NO <sub>x</sub> and heat input.
CEMSD	A gas or oil fired unit that is complying with the CEMS requirements of 40 CFR Part 75, Subpart H for NO <sub>x</sub> , and with the monitoring requirements of 40 CFR Part 75, Appendix D for heat input.
PEAK	A gas or oil fired peaking unit that is complying with the monitoring requirements of 40 CFR Part 75, Appendix E for NO <sub>x</sub> , and with the monitoring requirements of 40 CFR Part 75, Appendix D for heat input.
LME	A gas or oil fired unit that is complying with the Low Mass Emissions monitoring requirements of 40 CFR § 75.19 for NO <sub>x</sub> and heat input.
ALTMON	A unit that is complying with EPA-approved alternative monitoring system requirements of 40 CFR Part 75, Subpart E for NO <sub>x</sub> and heat input.
REXM	Applying for a retired unit exemption under 40 CFR Part 97, Subpart EEEEE (CSAPR NO <sub>x</sub> Ozone Season Group 2 Trading Program) (Applicant must also submit required additional information in a separate cover letter).

**Texas SO<sub>2</sub>:**

Select “YES” from the dropdown menu if the unit is complying with the requirements of 40 CFR Part 97, Subpart FFFFF (Texas SO<sub>2</sub> Trading Program). Otherwise, select “NO.”

**Texas SO<sub>2</sub> Monitoring:**

Select one of the following options from the dropdown menu that describes the Texas SO<sub>2</sub> monitoring for that unit.

<b>Code</b>	<b>Description</b>
CEMS	A unit that is complying with the CEMS requirements of 40 CFR Part 75, Subpart B for SO <sub>2</sub> and 40 CFR Part 75, Subpart H for heat input.
CEMSD	A gas or oil fired unit that is complying with the monitoring requirements of 40 CFR Part 75, Appendix D for SO <sub>2</sub> and heat input.
LME	A gas or oil fired unit that is complying with the Low Mass Emissions monitoring requirements of 40 CFR § 75.19 for SO <sub>2</sub> and heat input.
ALTMON	A unit that is complying with EPA-approved alternative monitoring system requirements of 40 CFR Part 75, Subpart E for SO <sub>2</sub> and heat input.
REXM	Applying for a retired unit exemption under 40 CFR Part 97, Subpart FFFFF (Texas SO <sub>2</sub> Trading Program) (Applicant must also submit required additional information in a separate cover letter.)

**COR:**

Select “YES” from the dropdown menu to indicate that the applicant has submitted the COR to EPA for the Acid Rain and CSAPR programs, as applicable, and has included a copy of the required COR to TCEQ with this submittal. (Providing the required COR copy to TCEQ authorizes the Designated Representative (DR) (or Alternate Designated Representative (ADR)) to sign Form OP-CRO1, page 2, to certify Acid Rain and CSAPR program application submittal.) Otherwise, select “NO.”

## Instructions for OP-REQ2 Sheet

### General:

The purpose of this sheet is to document negative applicability from potentially applicable requirements or to document duplicative, redundant, and or contradicting requirements that have been superseded by a more stringent or equivalent requirement for units when a permit shield is requested. Negative applicability or superseded requirement determinations when a permit shield is NOT requested may be documented on this sheet OR the appropriate unit attribute table.

A negative applicability determination is any regulatory citation that provides the basis whereby every operating condition of an emission unit is not subject to a regulation. For example, Title 40 Code of Federal Regulation § 60.110b(a) [40 CFR § 60.110b(a)] could be the regulatory basis for a negative applicability determination for a VOC storage tank of less than 75 cubic meters; therefore, the storage tank is completely exempt from 40 CFR Part 60, Subpart Kb.

*Note: Numerous regulatory citations appear to authorize exemptions to qualifying units from those regulations. However, closer examination typically reveals that there are still some requirements which must still be met (such as monitoring and/or recordkeeping).*

For certain emission units subject to certain 40 CFR Part 63 standards, other federal regulations may apply. In many instances one of the overlapping regulations may specify which rule supersedes the other. The regulation may state that the owner or operator only has to comply with a specific subpart after the compliance date or it may state that compliance with the subpart is deemed to be in or constitute compliance with other subparts. Although superseded rules do not qualify as negative applicability determinations, it has been determined that these instances can be documented on the OP-REQ2, if the applicant elects to comply only with the superseding requirement. For example, a Group 1 or Group 2 storage tank, subject to 40 CFR Part 63, Subpart G, may not be required to comply with 40 CFR Part 60, Subpart Kb due to rule overlap of 40 CFR Part 63, Subpart G. In this case, the permit applicant may request a permit shield from 40 CFR Part 60, Subpart Kb. In this case, the applicant must submit the superseding requirement citation, § 63.110(b), and a textual description of the superseding determination, if they elect to comply with only the superseding requirement.

When an emission unit has one or more potential applicable requirements, the applicant must list all the requirements for which negative applicability or superseded requirement determinations can be made. Once the negative applicability or superseded requirement determinations have been made, indicate the citation and reason for the non-applicability or superseded requirement in the appropriate columns. Indicate the determinations for all potentially applicable requirements for each emission unit before listing the next unit.

Negative applicability or superseded requirement determinations for potentially applicable requirements, confirmed by TCEQ, may be approved as a permit shield (see instructions outlined in Area Wide Applicability Determinations, Form OP-REQ1, to request a permit shield). If a permit shield is requested, the determinations are always required on the OP-REQ2 sheet. For additional information relating to permit shields, refer to the TCEQ guidance document entitled “Permit Shield Guidance ([www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/permit\\_shield.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/permit_shield.pdf))”.

### Specific:

*Fill out the OP-REQ2 sheet to provide a negative applicability determination for units included on this OP-UA form. If the unit is not submitted on an OP-UA form, submit the negative applicability determination on the standalone OP-REQ2 form.*

### Unit Action Indicator (AI):

Complete this section only for a permit revision or renewal. Select “A” from the dropdown menu if the negative applicability or superseded requirement is an addition to the permit. Select “D” from the dropdown menu if the negative applicability or superseded requirement is being deleted from the permit. For revisions to existing negative applicability or superseded requirements in the permit, use the "D" indicator for the existing permit shield and the "A" indicator for the revised permit shield.



**Revision No.:**

Complete this section only for a permit revision or renewal. Enter the revision number identified on Form OP-2, Table 2 (only for revision items within the application). This number will link the specific negative applicable requirement determination to the appropriate revision.

**Unit ID No.:**

Select the identification number (ID No.) (maximum 14 characters) of the unit as listed on the OP-SUM sheet.

**Potentially Applicable Regulatory Name:**

Select the name of the potentially applicable requirement from the dropdown menu for which negative applicability or superseded requirement is being demonstrated. If the potentially applicable regulatory name is not found in the dropdown menu, enter it manually (maximum 50 characters).

*Note: Permit shields cannot be granted for permit authorizations of any kind (i.e. - PSD, NSR permit, Acid Rain, etc.).*

**Negative Applicability or Superseded Requirement Citation:**

Enter the citation of the paragraph of the rule that was used to determine negative applicability or superseded requirements. Provide the citation detail to the level of the paragraph allowing the exemption, exclusion, or non-applicability. If there is more than one citation for determining negative applicability or superseded requirements, select the most appropriate or the clearest (least likely to be misinterpreted). Negative applicability or superseded requirement determinations by the applicant are subject to auditing during the permit application review. The applicant must always indicate the negative applicability or superseded requirement citation on the OP-REQ2. For examples on the level of detail for citations, see table below (maximum 36 characters).

**Example Applicable Regulatory Requirements\***

<b>Regulation</b>	<b>Potentially Applicable Regulatory Name (Input Format)</b>	<b>Negative Applicability or Superseded Requirement Citation (Input Format)</b>
30 TAC Chapters 111, 112, 113, 115 and 117	Chapter 111	§ 111.XXX(x)(yy)(zz)
	Chapter 112	§ 112.XXX(x)(yy)(zz)
	Chapter 113	§ 113.XXX(x)(yy)(zz)
	Chapter 115, Storage of VOCs	§ 115.XXX(x)(yy)(zz)
	Chapter 117, ICI	§ 117.XXX(x)(yy)(zz)
40 CFR Part 60, Subparts, New Source Performance Standards (NSPS)	NSPS XXX	§ 60.XXX(x)(yy)(zz)
40 CFR Part 61, Subparts, National Emission Standards for Hazardous Air Pollutants (NESHAP)	NESHAP XX	§ 61.XX(x)(yy)(zz)
40 CFR Part 63, Subparts, NESHAP by source category, including hazardous organic (HON)	MACT XX	§ 63.XXX(x)(yy)(zz)

\* This list is not intended to be exhaustive

**Negative Applicability/Superseded Requirement Reason:**

Enter a textual description indicating the reason for the negative applicability or superseded requirement determination. If a permit shield is requested, the textual description provided will be recreated as the *Basis of Determination* for the permit shield in the permit. The description may include rule text, rule preamble, or other text resulting from a historical rule interpretation, EPA applicability determination Index (ADI), or case law. Use multiple lines if necessary (maximum 250 characters).

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**OP-UA02 Form Unit Attribute Tables- Instructions**
**General:**

This form is used to provide a description and data pertaining to all stationary reciprocating internal combustion (SRIC) engines 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 an SRIC engine, 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 the rule represented on the table, then the applicant need not complete the remainder of the table(s) that corresponds 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:

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

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

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

**Table 3:** Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117), Subchapter E: Multi-Region Combustion Control, Division 4: East Texas Combustion

**Table 4a - 4b:** Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart JJJJ: Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

**Table 5a - 5c:** Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

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

Please note that for general operating permit (GOP) applications, responses may be required for questions on this form which are not included as a column in the applicable GOP table. These responses may be needed to determine applicability of certain requirements within a single row of the GOP permit table.

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 [www.tceq.texas.gov/permitting/central\\_registry/index.html](http://www.tceq.texas.gov/permitting/central_registry/index.html).

### Specific:

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

★ **Complete this table for SRIC engines that meet the following criteria:**

- located at a site that is a major source of NO<sub>x</sub>, as defined in 30 TAC Chapter 117: and,
- located in the Houston/Galveston/Brazoria, Beaumont/Port Arthur, or Dallas/Fort Worth Eight-Hour Ozone Nonattainment Areas; and
- located at a site that is not an electric power generating system owned or operated by an electric cooperative, municipality, river authority, public utility or a Public Utility Commission of Texas regulated utility; or,
- if located in Parker County, the site does not generate electric power for compensation

### Unit ID No.:

Enter the identification number (ID No.) for the SRIC engines (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]). 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 index numbers, please go to 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 “Horsepower Rating” if located in the Beaumont/Port Arthur or Dallas/Fort Worth Eight-Hour Ozone Nonattainment Areas.**

### Horsepower Rating:

Select one of the following options for the HP rating. Enter the code on the form.

For SRIC engines located in the Beaumont/Port Arthur Ozone Nonattainment Areas:

Code	Description
300-	HP is less than 300 (and unit is not a lean-burn gas-fired opt-in unit)
300+	HP is greater than or equal to 300

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This form is for use by facilities subject to air quality permit requirements and may be revised periodically. (Title V Release 11/22)

150+E2Y	Lean-burn, gas-fired SRIC with HP greater than or equal to 150 that is exempt from RACT requirements under 30 TAC § 117.103(b) but is included under either a Source Cap or an Alternative Plant-Wide Emission Specification in 30 TAC §§ 117.123(a) or 117.115(a) as an opt-in unit (for SOP applications only)
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For SRIC engines located in the Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area:

Code	Description
50-	HP is less than 50
50+	HP is greater or equal to than 50

▼ **Continue if application area is located in the Houston/Galveston/Brazoria or Dallas/Fort Worth Eight-Hour Ozone Nonattainment Areas; or if in the Beaumont/Port Arthur Ozone Nonattainment Areas and “Horsepower Rating” is “300+” or “150+E2Y”**

★ **Complete “RACT Date Placed in Service” if located in the Beaumont/Port Arthur Ozone Nonattainment Area and “Horsepower Rating” is “300+.” If “Horsepower Rating” is “150+E2Y,” go to “Fuel Fired” and provide information from that point forward.**

#### **RACT Date Placed in Service:**

Select one of the following options for the date placed in service. Enter the code on the form.

Code	Description
92-	On or before November 15, 1992
92-93	After November 15, 1992 and on or before June 9, 1993
93-FCD	After June 9, 1993 and before the final compliance date specified in 30 TAC § 117.9000
FCD+	After June 9, 1993 and on or after the final compliance date specified in 30 TAC § 117.9000

★ **Complete “Functionally Identical Replacement” only if “RACT Date Placed in Service” is “93-FCD.”**

#### **Functionally Identical Replacement:**

Select one of the following options to identify if the unit is a functionally identical replacement for a unit or group of units that were in service on or before November 15, 1992. Enter the code on the form.

Code	Description
YES	Unit is a functionally identical replacement
NO	Unit is not a functionally identical replacement

▼ **Do not continue if located in the Beaumont/Port Arthur Ozone Nonattainment Area and:**

- **“Date Placed in Service” is “92-93” or “FCD+”; or**
- **“Date Placed in Service” is “93-FCD” and “Functionally Identical Replacement” is “NO.”**

#### **Type of Service:**

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

For SRIC engines located in the Beaumont/Port Arthur Ozone Nonattainment Areas:

Code	Description
EXEMPT	Used in research and testing, performance verification testing, solely to power other engines or turbines during startup, in response to and during the existence of any officially declared disaster or state of emergency or directly and exclusively in agricultural operations
EMERG	Used exclusively in emergency situations [claiming the emergency service exemption under 30 TAC § 117.103(a)(6)(D)]
DIESEL	Any stationary diesel engine
850-	Demonstrated to operate less than 850 hours per year, based on a rolling 12-month average (low annual capacity factor) [claiming exemption 30 TAC § 117.103(b)(2)]
ENG	Any other SRIC engine

For SRIC engines located in the Houston/Galveston/Brazoria Ozone Nonattainment Area:

<b>Code</b>	<b>Description</b>
EXEMPT	Used in research and testing, performance verification testing, solely to power other engines or turbines during startup, in response to and during the existence of any officially declared disaster or state of emergency or directly and exclusively in agricultural operations
EMERG	Used exclusively in emergency situations [claiming the emergency service exemption under 30 TAC § 117.303(a)(6)(D)] (exemption is not available for new, modified, reconstructed, or relocated diesel fuel fired SRIC engines placed into service on or after October 1, 2001)
D2001-	Existing diesel fuel-fired engine placed into service before October 1, 2001, operated less than 100 hours/year, on a rolling 12-month average that has not been modified, reconstructed, or relocated on or after October 1, 2001 [claiming exemption 30 TAC § 117.303(a)(10)]
D2001+	New, modified, reconstructed or relocated diesel fuel-fired engine, placed into service on or after October 1, 2001, operated less than 100 hours/year, on a rolling 12-month average (other than emergency situations) that meets the corresponding emission standard for non-road engines listed in 40 CFR § 89.112(a), Table 1 (October 23, 1998) and in effect at the time of installation [claiming exemption 30 TAC § 117.303(a)(11)]
ENG	Any other SRIC engine

For SRIC engines located in the Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area:

<b>Code</b>	<b>Description</b>
EXEMPT	Used in research and testing, performance verification testing, solely to power other engines or turbines during startup, in response to and during the existence of any officially declared disaster or state of emergency or directly and exclusively in agricultural operations
EMERG	Used exclusively in emergency situations [claiming the emergency service exemption under 30 TAC § 117.403(a)(7)(D)] (exemption is not available for new, modified, reconstructed, or relocated diesel fuel fired SRIC engines placed into service on or after June 1, 2007)
W-EMER	Located in Wise County and used exclusively in emergency situations [claiming the emergency service exemption under 30 TAC § 117.403(b)(2)(D)]
D2007-	Existing diesel fuel-fired engine placed into service before June 1, 2007, operated less than 100 hours/year, on a rolling 12-month average that has not been modified, reconstructed, or relocated on or after June 1, 2007 [claiming exemption 30 TAC § 117.403(a)(8)]
D2007+	Diesel fuel-fired engine, placed into service on or after June 1, 2007, operated less than 100 hours/year, on a rolling 12-month average (other than emergency situations) that meets the requirements for non-road engines [per 30 TAC § 117.403(a)(9)]
ENG	Any other SRIC engine

▼ Continue if “Type of Service” is “ENG,” “W-EMER,” or “EMERG.”

**Fuel Fired:**

Select one of the following options for the fuel fired by the engine. Enter the code on the form.

For GOP applications:

<b>Code</b>	<b>Description</b>
NG	Natural Gas (Engines authorized to operate under GOPs 511, 512, 513 and 514 must select this option except for black start engines, fire pump engines, emergency engines, and engines operated less than 100 hours per year, as allowed by the rule)
LFG	Landfill Gas
DIG	Digester Gas
ORG	Renewable, Non-fossil fuel gas other than landfill or digester gas
DSL	Petroleum-based diesel fuel
B100	Pure or “neat” biodiesel fuel
BXX	Blends of petroleum-based and biodiesel fuel
DUAL	Dual-fuel where at least one of the fuels is a fossil fuel
DUALN	Dual-fuel where both fuels are renewable non-fossil fuels

For SOP applications:

<b>Code</b>	<b>Description</b>
NG	Natural Gas
LFG	Landfill Gas
ORG	Renewable, Non-fossil fuel gas other than landfill gas
OFG	Fuel gas other than natural gas, landfill gas, and renewable, non-fossil fuel gas (propane, butane, refinery fuel gas, etc.)
DSL	Diesel fuel
B100	Pure or “neat” biodiesel fuel
BXX	Blends of petroleum-based and biodiesel fuel
DUAL	Dual-fuel where at least one of the fuels is a fossil fuel
DUALN	Dual-fuel where both fuels are renewable non-fossil fuels

▼ **Do not continue if in Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area and “Horsepower Rating” is “50-” and “Fuel Fired” is “NG,” “LFG,” “ORG” or “OFG.”**

▼ **Continue only if “Type of Service” is “ENG;” or if “Horsepower Rating” is “150+E2Y.”**

**Engine Type:**

Select one of the following options for the engine type as defined in 30 TAC Chapter 117. Enter the code on the form.

<b>Code</b>	<b>Description</b>
LEANBURN	Lean-burn
RICHBURN	Rich-burn

★ **Complete “ESAD Date Placed in Service” only for the following:**

- **GOP or SOP applications for sites located in the Houston/Galveston/Brazoria Ozone Nonattainment Area and “Fuel Fired” is NOT “NG,” “LFG,” “ORG” or “OFG;” or**
- **GOP or SOP applications for sites located in the Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area and “Fuel Fired” is NOT “DUAL” or “DUALN.”**

**ESAD Date Placed in Service:**

Select one of the following options for the date the engine was placed into service. Enter the code on the form.

For dual fuel engines located in the Houston/Galveston/Brazoria Ozone Nonattainment Area.

<b>Code</b>	<b>Description</b>
2001-	Placed into service on or prior to December 31, 2000.
2001+	Placed into service after December 31, 2000.

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This form is for use by facilities subject to air quality permit requirements and may be revised periodically. (Title V Release 11/22)

For diesel engines located in the Houston/Galveston Ozone Nonattainment Area, please select the code that defines the most recent date that the engine was installed, modified, reconstructed, or relocated.

Code	Description
-01	Placed into service before October 1, 2001 and has not been modified, reconstructed, or relocated on or after October 1, 2001.
01-02	Installed, modified, reconstructed, or relocated on or after October 1, 2001 but before October 1, 2002.
02-03	Installed, modified, reconstructed, or relocated on or after October 1, 2002 but before October 1, 2003.
03-04	Installed, modified, reconstructed, or relocated on or after October 1, 2003 but before October 1, 2004.
04-05	Installed, modified, reconstructed, or relocated on or after October 1, 2004 but before October 1, 2005.
05-06	Installed, modified, reconstructed, or relocated on or after October 1, 2005 but before October 1, 2006.
06-07	Installed, modified, reconstructed, or relocated on or after October 1, 2006 but before October 1, 2007.
07+	Installed, modified, reconstructed, or relocated on or after October 1, 2007.

For gas fired lean-burn engines located in the Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area.

Code	Description
2007-	Placed into service prior to June 1, 2007, and not modified, reconstructed, or relocated on or after June 1, 2007
2007+	Placed into service, modified, reconstructed, or relocated on or after June 1, 2007
2015-	Placed into service prior to June 1, 2015, and not modified, reconstructed, or relocated on or after June 1, 2015
2015+	Placed into service, modified, reconstructed, or relocated on or after June 1, 2015.

For diesel engines located in the Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area, please select the code that defines the most recent date that the engine was installed, modified, reconstructed, or relocated.

Code	Description
3109-	Placed into service before March 1, 2009 and has not been modified, reconstructed, or relocated on or after March 1, 2009.
3109+	Installed, modified, reconstructed, or relocated on or after March 1, 2009.

★ **Complete “Diesel HP Rating” only for sites located in the Dallas/Fort Worth Eight-Hour or Houston/Galveston/Brazoria Ozone Nonattainment Area and “Fuel Fired” is “DSL,” “B100” or “BXX.”**

#### Diesel HP Rating:

Select one of the following options for the horsepower rating of the diesel engine. Enter the code on the form.

For diesel SRIC engines located in the Houston/Galveston/Brazoria Ozone Nonattainment Area:

Code	Description
11-	Horsepower rating is less than 11 HP.
11-25	Horsepower rating is 11 HP or greater, but less than 25 HP.
25-50	Horsepower rating is 25 HP or greater, but less than 50 HP.
50-100	Horsepower rating is 50 HP or greater, but less than 100 HP.
100-175	Horsepower rating is 100 HP or greater, but less than 175 HP.
175-300	Horsepower rating is 175 HP or greater, but less than 300 HP.
300-600	Horsepower rating is 300 HP or greater, but less than 600 HP.
600-750	Horsepower rating is 600 HP or greater, but less than 750 HP.
750+	Horsepower rating is 750 HP or greater.

For diesel SRIC engines located in the Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area:

Code	Description
50-	Horsepower rating is less than 50 HP.
50-100	Horsepower rating is 50 HP or greater, but less than 100 HP.
100-750	Horsepower rating is 100 HP or greater, but less than 750 HP.
750+	Horsepower rating is 750 HP or greater.

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

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**Unit ID No.:**

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

**SOP/GOP Index No.:**

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]).

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 index numbers, please go to 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).

**NO<sub>x</sub> Emission Limitation:**

Title 30 TAC Chapter 117 provides several methods to be in compliance with the applicable NO<sub>x</sub> emission specifications of 30 TAC Chapter 117. Select one of the following options. Enter the code on the form.

For GOP applications:

Code	Description
105	Title 30 TAC §§ 117.105(a)(1), (a)(3), (d), or (e) [relating to Emission Specifications for Reasonably Available Control Technology] (use for SRIC engines in the Beaumont/Port Arthur Ozone Nonattainment Area)
410A	Title 30 TAC § 117.410(a) [relating to Emission Specifications for Eight-Hour Attainment Demonstration] (use for SRIC engines in the Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area)
310D	Title 30 TAC § 117.310(d)(3) [relating to Emission Specifications for Attainment Demonstration] (use for SRIC engines in the Houston/Galveston/Brazoria Ozone Nonattainment Area)
405B	Title 30 TAC § 117.405(b)(2)(A) [relating to Emission Specifications for Reasonably Available Control Technology (RACT) gas-fired rich-burn engines used in Wise County]
WS4C	White Superior four-cycle lean-burn engine is complying with Title 30 TAC § 117.405(b)(2)(B)(i)
C2C	Clark two-cycle lean-burn engine is complying with Title 30 TAC § 117.405(b)(2)(B)(ii)
FM2C	Fairbanks Morse MEP two-cycle lean-burn engine is complying with Title 30 TAC § 117.405(b)(2)(B)(iii)
WSE	All other lean-burn engines located in Wise County complying with Title 30 TAC § 117.405(b)(2)(B)(iv)



For SOP applications:

For SRIC engines located in the Beaumont/Port Arthur Ozone Nonattainment Areas:

<b>Code</b>	<b>Description</b>
105	Title 30 TAC §§ 117.105(a)(1), (a)(3), (d) or (e) [relating to Emissions Specifications for Reasonably Available Control Technology]
APES	Engine is complying with an Alternative Plant-Wide Emissions Specification under Title 30 TAC § 117.115(a)
ACSS	Engine is complying with an Alternative Case Specific Specification under Title 30 TAC § 117.125(a)
SC	Engine is complying with a Source Cap under Title 30 TAC § 117.123(a)

For SRIC engines located in the Houston/Galveston/Brazoria Ozone Nonattainment Area:

<b>Code</b>	<b>Description</b>
310D	Title 30 TAC §§ 117.310(d)(3) and 117.310(a)(9) [relating to mass emissions cap and trade in Chapter 101, Subchapter H, Division 3, and Emission Specifications for Attainment Demonstration]
ACF	Engine is complying with an annual capacity factor specification under Title 30 TAC §§ 117.310(d)(3) and 117.310(a)(17)

For SRIC engines located in the Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area:

<b>Code</b>	<b>Description</b>
410A	Title 30 TAC § 117.410(a)(4) [relating to Emission Specifications for Eight-Hour Attainment Demonstration]
405B	Title 30 TAC § 117.405(b)(2)(A) [relating to Emission Specifications for Reasonably Available Control Technology (RACT) gas fired rich burn engines used in Wise County]
ACF	Engine is complying with an annual capacity factor specification under Title 30 TAC § 117.410(a)(14)
SC	Engine is complying with a Source Cap under Title 30 TAC § 117.423(a)
WS4C	White Superior four-cycle-lean-burn engine is complying with Title 30 TAC § 117.405(b)(2)(B)(i)
C2C	Clark two-cycle-lean-burn engine is complying with Title 30 TAC § 117.405(b)(2)(B)(ii)
FM2C	Fairbanks Morse MEP two-cycle-lean-burn engine is complying with Title 30 TAC § 117.405(b)(2)(B)(iii)
WSE	All other -lean-burn engines located in Wise County complying with Title 30 TAC § 117.405(b)(2)(B)(iv)

★ **Complete “23C-Option” only if “NO<sub>x</sub> Emission Limitation” is “SC.”**

### **23C-Option:**

Select one of the following § 117.123(c)(1) or 423(c)(1) options for monitoring. Enter the code on the form.

<b>Code</b>	<b>Description</b>
23C-A	CEMS and a totalizing fuel flow meter per § 117.123(c)(1)(A) or § 117.423(c)(1)(A).
23C-B	PEMS and a totalizing fuel flow meter per § 117.123(c)(1)(B) or § 117.423(c)(1)(B).
23C-C	Rate measured by hourly emission rate testing per § 117.123(c)(1)(C) or § 117.423(c)(1)(C).

★ **Complete “30 TAC Chapter 116 Limit” only if “NOx Emission Limitation” is “105.”**

**30 TAC Chapter 116 Limit:**

Select one of the following descriptions for the 30 TAC Chapter 116 permit limit. Enter the code on the form.

For units having a 30 TAC Chapter 116 permit in effect on June 9, 1993:

Code	Description
93Y	NOx emission limit in 30 TAC § 117.105 is greater than the NOx emission limit in a 30 TAC Chapter 116 permit
93N	NOx emission limit in 30 TAC § 117.105 is not greater than the NOx emission limit in a 30 TAC Chapter 116 permit

For units placed into service after June 9, 1993 and prior to the final compliance date specified in 30 TAC §§ 117.9000 or 117.9020(1) as a functionally identical replacement for an existing unit, or group of units, and limited to the cumulative maximum rated capacity of the units replaced:

Code	Description
95Y	Emission limit in 30 TAC §§ 117.105 or is greater than the NOx emission limit in any 30 TAC Chapter 116 permit issued after June 9, 1993
95N	Emission limit in 30 TAC §§ 117.105 or is not greater than the NOx emission limit in any 30 TAC Chapter 116 permit issued after June 9, 1993

★ **Complete “EGF System Cap Unit” only if located in the Houston/Galveston/Brazoria Ozone Nonattainment Area.**

**EGF System Cap Unit:**

Enter “YES” if the engine is used as an electric generating facility to generate electricity for sale to the electric grid. Otherwise, enter “NO.”

*Units with electric output entirely dedicated to industrial customers or that generate electricity primarily for internal use are not considered as electric generating facilities generating electricity for sale to the electric grid and are not subject to the system cap requirements of 30 TAC § 117.320. “Entirely dedicated” may include up to two weeks per year of service to the electric grid when the industrial customer’s load sources are not operating. Units generating electricity primarily for internal use are those that have previously or will transfer generated electricity to a utility power distribution system at a rate less than 3.85% of actual electrical generation.*

**NO<sub>x</sub> Averaging Method:**

Select one of the following options for the method used to comply with the applicable emission limitation. Enter the code on the form.

Code	Description
30D	Complying with the applicable emission limit using a 30-day rolling average
1HR	Complying with the applicable emission limits using a block one-hour average

**NO<sub>x</sub> Reduction:**

Select one of the following NO<sub>x</sub> reduction options. Enter the code on the form.

Code	Description
WATER	Water or steam injection
NSCR	Nonselective catalytic reduction
POST1	Post combustion control technique with urea or ammonia injection
POST2	Post combustion control technique with chemical reagent other than urea or ammonia
OTHER	Other post combustion control method
NONE	No NO <sub>x</sub> reduction

**NO<sub>x</sub> Monitoring System:**

Select the appropriate code to indicate the type of monitoring system used.

For units without a monitoring system:

Code	Description
MERT	Maximum emission rate testing in accordance with 30 TAC § 117.8000

For all other units:

Code	Description
CEMS	Continuous emissions monitoring system
PEMS	Predictive emissions monitoring system
75ARC	CEMS used to comply with 40 CFR Part 75 (pertaining to acid rain) (for SOP applications only)
75ARP	PEMS used to comply with 40 CFR Part 75 (pertaining to acid rain) (for SOP applications only)

▼ **Continue only if application type is SOP.**

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

**Unit ID No.:**

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

**SOP/GOP Index No.:**

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]).

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 numbers, please go to 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).

**Fuel Flow Monitoring:**

Select one of the following options to indicate how fuel flow is monitored. Enter the code on the form.

Code	Description
X40A	Fuel flow is with a totalizing fuel flow meter per 30 TAC §§ 117.140(a), 117.340(a) or 117.440(a)
X40A2-A	Unit operates with a NO <sub>x</sub> and diluents CEMS and monitors stack exhaust flow per 30 TAC §§ 117.140(a)(2)(A), 117.340(a)(2)(A) or 117.440(a)(2)(A)
X40A2-B	Unit vents to a common stack with a NO <sub>x</sub> and diluents CEMS and uses a single totalizing fuel flow meter per 30 TAC §§ 117.140(a)(2)(B), 117.340(a)(2)(B) or 117.440(a)(2)(B).
X40A2-C	The unit is a diesel engine operating with a run time meter and using monthly fuel use records maintained for each engine per 30 TAC §§ 117.340(a)(2)(C) or 117.440(a)(2)(C) [Houston/Galveston/Brazoria or Dallas/Fort Worth Eight-Hour Ozone Nonattainment Areas only]
X40A2-D	The unit is equipped with a continuous monitoring system that continuously monitors horsepower and hours of operation per 30 TAC §§ 117.140(a)(2)(D), 117.340(a)(2)(D) or 117.440(a)(2)(D)

★ **Complete “CO Emission Limitation” only for SOP applications.**

**CO Emission Limitation:**

Title 30 TAC Chapter 117 provides several methods to be in compliance with the applicable CO emission specifications of 30 TAC Chapter 117. Select one of the following options. Enter the code on the form.

For SRIC engines located in the Beaumont/Port Arthur Ozone Nonattainment Areas:

<b>Code</b>	<b>Description</b>
105	Title 30 TAC § 117.105(d) or (e) [relating to Emissions Specifications for Reasonably Available Control Technology]
ACSS	Engine is complying with an Alternative Case Specific Specification under 30 TAC § 117.125(a)

For SRIC engines located in the Houston/Galveston/Brazoria Ozone Nonattainment Area:

<b>Code</b>	<b>Description</b>
310C	Title 30 TAC § 117.310(c)(1) 400 ppmv option
310CG	Title 30 TAC § 117.310(c)(1) 3 g/HP-hr option
ACSS	Engine is complying with an Alternative Case Specific Specification under 30 TAC § 117.325(a)

For SRIC engines located in the Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area:

<b>Code</b>	<b>Description</b>
410C	Title 30 TAC § 117.410(c)(1) [relating to Emission Specifications for Eight-Hour Attainment Demonstration]
405D	Title 30 TAC § 117.405(d)(1) [relating to Emission Specifications for Eight-Hour Attainment Demonstration]
ACSS	Engine is complying with an Alternative Case Specific Specification under 30 TAC § 117.425(a)

**CO Averaging Method:**

Select one of the following options for the method used to comply with the applicable emission limitation. Enter the code on the form.

<b>Code</b>	<b>Description</b>
30D	Complying with the applicable emission limit using a 30-day rolling average
1HR	Complying with the applicable emission limits using a block one-hour average

**CO Monitoring System:**

Select one of the following options to indicate how the unit is monitored for CO exhaust emissions. Enter the code on the form.

<b>Code</b>	<b>Description</b>
CEMS	Continuous emissions monitoring system complying
PEMS	Predictive emissions monitoring system complying
OTHER	Other than CEMS or PEMS

★ **Complete “NH<sub>3</sub> Emission Limitation” only for SOP applications and only if “NO<sub>x</sub> Reduction” is “POST1.”**

**NH<sub>3</sub> Emission Limitation:**

Title 30 TAC Chapter 117 provides several methods to be in compliance with the applicable NH<sub>3</sub> emission specifications of 30 TAC Chapter 117. Select one of the following options. Enter the code on the form.

For SRIC engines located in the Beaumont/Port Arthur Ozone Nonattainment Areas:

<b>Code</b>	<b>Description</b>
105	Title 30 TAC §§ 117.105(g) [relating to Emissions Specifications for Reasonably Available Control Technology]
ACSS	Engine is complying with an Alternative Case Specific Specification under 30 TAC § 117.125(a)

For SRIC engines located in the Houston/Galveston/Brazoria Ozone Nonattainment Area:

Code	Description
310C	Title 30 TAC § 117.310(c)(2) [relating to Emission Specifications for Attainment Demonstration]
ACSS	Engine is complying with an Alternative Case Specific Specification under 30 TAC § 117.325(a)

For SRIC engines located in the Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area:

Code	Description
410C	Title 30 TAC § 117.410(c)(2) [relating to Emission Specifications for Attainment Demonstration] (use for engines in the Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area)
405D	Title 30 TAC § 117.405(d)(2) [relating to Emission Specifications for Attainment Demonstration] (use for engines in Wise County in the Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area)
ACSS	Engine is complying with an Alternative Case Specific Specification under 30 TAC § 117.425(a)

*Note: If using some other alternative, such as an alternate reasonably available control technology, alternate means of control, or emission reduction credit, the type of alternate used will need to be explained in a cover letter or some other attachment to the permit application.*

### NH<sub>3</sub> Monitoring:

Select one of the following options to indicate how the unit is monitored for NH<sub>3</sub> emissions. Enter the code on the form.

Code	Description
CEMS	Continuous emissions monitoring system
PEMS	Predictive emissions monitoring system
MBAL	Mass balance
OXY	Oxidation of ammonia to nitric oxide (NO)
STUBE	Stain tube

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

★ **Complete this table for all stationary Reciprocating Internal Combustion Engines (RICE) in GOP and SOP applications that are not being tested at a stationary RICE test cell:**

#### Unit ID No.:

Enter the identification number (ID No.) for the stationary reciprocating internal combustion engine 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]). 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 index numbers, please go to 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).

#### HAP Source:

Select one of the following options to describe the HAP source classification

Code	Description
MAJOR	The site is a major source of hazardous air pollutants as defined in 40 CFR § 63.2
AREA	The site is an area source of hazardous air pollutants as defined in 40 CFR § 63.2

**Brake HP:**

Select one of the following options to indicate the brake horsepower (HP). Enter the code on the form.

<b>Code</b>	<b>Description</b>
100-	Stationary RICE with a brake HP less than 100 HP
100-250	Stationary RICE with a brake HP greater than or equal to 100 and less than 250 HP
250-300	Stationary RICE with a brake HP greater than or equal to 250 HP and less than 300 HP
300-500	Stationary RICE with a brake HP greater than or equal to 300 HP and less than or equal to 500 HP
500+	Stationary RICE with a brake HP greater than 500 HP
5000+	Stationary RICE with a brake HP of 5,000 HP or greater (use only for 4 stroke spark ignited richburn RICE)

**Construction/Reconstruction Date:**

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

<b>Code</b>	<b>Description</b>
02-	Commenced construction or reconstruction before December 19, 2002
02-06	Commenced construction or reconstruction on or after December 19, 2002, but before June 12, 2006
06+	Commenced construction or reconstruction on or after June 12, 2006

- ★ **Complete “Nonindustrial Emergency Engine” only if “HAP Source” is “AREA” and “Construction/Reconstruction Date” is “02-” or “02-06.”**

**Nonindustrial Emergency Engine:**

Enter “YES” if the Stationary RICE is defined in 40 CFR §63.6675 as a residential emergency RICE, a commercial emergency RICE, or an institutional emergency RICE. Otherwise, enter “NO.”

- ▼ **Do not continue if “HAP Source” is “AREA” and:**
- **“Construction/Reconstruction Date” is “06+,” or**
  - **“Nonindustrial Emergency Engine” is “YES.”**

**Service Type:**

Select one of the following options that describe the type of service the stationary RICE is used for. Enter the code on the form. Note: The provisions of 40 CFR §63.6640(f)(2)(ii) and (f)(2)(iii) for emergency engines have been vacated by the U.S. Court of Appeals for the District of Columbia Circuit.

<b>Code</b>	<b>Description</b>
FUEL	Combusts landfill or digester gas equivalent to 10 % or more of the gross heat input on an annual basis
LIM	Limited use
EMER-A	Emergency use where the RICE does not operate as specified in 40 CFR §63.6640(f)(2)(ii) and (iii) or does not operate as specified in 40 CFR §63.6640(f)(4)(ii)
EMER-B	Emergency use where the RICE operates for the purpose specified in 40 CFR §63.6640(f)(4)(ii) (Use only for RICE located at an area source)
BLSTRT	Black Start Use (use only for existing RICE, less than 500 HP, located at a major source; or existing RICE located at an area source)
NORMAL	Normal Use

- ▼ **Do not continue if “HAP Source” is “MAJOR” and:**
- **“Brake HP” is “500+” and “Service Type” is “LIM” or “EMER-A;” or**
  - **“Brake HP” is “500+” and “Construction/Reconstruction Date” is “02-,” and “Service Type” is “FUEL;” or**

- “Construction/Reconstruction Date” is “06+” and “Brake HP” is “100-,” “100-250,” “250-300,” or “300-500” and “Service Type” is “FUEL,” “LIM,” or “EMER-A,” or “EMER-B”.

**Stationary Rice Type:**

Select one of the following options that describe the type of stationary RICE that you own or operate. Enter the code on the form.

Code	Description
2SLB	2 stroke spark ignited lean burn engine
4SLB	4 stroke spark ignited lean burn engine
4SLBR	remote 4 stroke spark ignited lean burn engine (use only for existing non-emergency, non-black start 4SLB with a site rating greater than 500 HP, located at an area source, that is a remote stationary RICE as defined in 40 CFR § 63.6675)
4SRB	4 stroke spark ignited rich burn engine
4SRBR	remote 4 stroke spark ignited rich burn engine (use only for existing non-emergency, non-black start 4SRB with a site rating greater than 500 HP, located at an area source, that is a remote stationary RICE as defined in 40 CFR § 63.6675)
CI	Compression ignition engine (use only for CI engines not meeting § 63.6603(d) or § 63.6603(e))
TIER1/2	Existing non-emergency CI RICE with a site rating of more than 300 HP located at an area source that is certified to the Tier 1 or Tier 2 emission standards electing to comply with the management practices as specified in 40 CFR § 63.6603(d)
TIER3	Existing non-emergency CI RICE with a site rating of more than 300 HP located at an area source that is certified to the Tier 3 (Tier 2 for engines above 560 kilowatt (kW)) emission standards electing to comply with 40 CFR Part 60, Subpart IIII

- ▼ Do not continue if “HAP Source” is “MAJOR” and “Construction/Reconstruction Date” is “06+” and “Service Type” is “NORMAL,” and:
  - “Brake HP” is “100-,” “100-250,” “250-300,” or “300-500” and “Stationary RICE Type” is “2SLB,” “4SRB,” or “CI;” or
  - “Brake HP” is “100-” or “100-250” and “Stationary RICE Type” is “4SLB.”
- ▼ Do not continue if “HAP Source” is “MAJOR” and “Construction/Reconstruction Date” is “02-” and “Brake HP” is “500+” and “Stationary RICE Type” is “2SLB” or “4SLB.”
- ▼ Do not continue if “HAP Source” is “MAJOR” and “Construction/Reconstruction Date” is “02-” or “02-06” and:
  - “Service Type” is “BLSTRT,” “EMER-A,” or “EMER-B” and “Brake HP” is “100-,” “100-250,” “250-300,” or “300-500;” or
  - “Brake HP” is “100-” and “Service Type” is “LIM,” “NORMAL,” or “FUEL.”
- ▼ Do not continue if “HAP Source” is “AREA” and:
  - “Service Type” is “BLSTRT;” or
  - “Service Type” is “LIM” or “NORMAL,” and “Stationary RICE Type” is “CI,” and “Brake HP” is “100-,” “100-250,” or “250-300;” or
  - “Service Type” is “LIM” or “NORMAL,” and “Stationary RICE Type” is “2SLB;” or
  - “Service Type” is “LIM” or “NORMAL,” and “Stationary RICE Type” is “4SRB” or “4SLB” and “Brake HP” is “100-,” “100-250,” “250-300,” or “300-500;” or
  - “Brake HP” is “500+,” and “Service Type” is “LIM” or “NORMAL,” and “Stationary RICE Type” is “4SLBR” or “4SRBR;” or
  - “Service Type” is “EMER-A,” and “Stationary RICE Type” is “CI,” and “Brake HP” is “100-,” “100-250,” “250-300,” “300-500,” or “500+;” or

- “Service Type” is “EMER-A” or “EMER-B,” and “Stationary RICE Type” is “2SLB” or “4SLB” or “4SRB,” and “Brake HP” is “100-,” “100-250,” “250-300,” “300-500,” or “500+,” or
  - “Service Type” is “FUEL.”
- ▼ Do not continue if “HAP Source” is “MAJOR” and Construction/Reconstruction Date” is “02-,” 02-06,” or “06+,” and “Brake HP” is “500+,” and “Stationary RICE Type” is “2SLB,” “4SRB,” or “4SLB,” and “Service Type” is “EMER-B.”
- ★ “HAP Source” is “MAJOR” and Construction/Reconstruction Date” is “02-,” 02-06,” or “06+,” and “Brake HP” is “500+,” and “Stationary RICE Type” is “CI,” and “Service Type” is “EMER-B,” complete “Displacement” on Table 2b only. No further information is required.
- ★ HAP Source” is “AREA” and Construction/Reconstruction Date” is “02-” or “02-06,” and “Brake HP” is “100-250” or “100-250” or “250-300” or “300-500” or “500+,” and “Stationary RICE Type” is “CI,” and “Service Type” is “EMER-B,” complete “Displacement” on Table 2b only. No further information is required.

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

**Unit ID No.:**

Enter the identification number (ID No.) for the stationary reciprocating internal combustion engine 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]). 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 index numbers, please go to 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 “Manufacture Date” only if “Stationary RICE Type” is “4SLB” and “Brake HP” is “250-300” or “300-500” and “Construction/Reconstruction Date” is “06+.”

**Manufacture Date:**

Enter “YES” if the stationary RICE was manufactured on or after January 1, 2008. Otherwise, enter “NO.”

- ▼ Do not continue if “Manufacture Date” is “NO.”
- ★ Complete “Operating Hours” only if “HAP Source” is “AREA” and “Stationary RICE Type” is “4SLB” or “4SRB,” and “Brake HP” is “500+.”

**Operating Hours:**

Enter “YES” if the stationary RICE is operated less than 24 hours per calendar year. Otherwise, enter “NO.”

- ▼ Do not continue if “Operating Hours” is “YES.”

**Different Schedule:**

Enter “YES” if the Administrator has approved a different schedule for the submission of reports under 40 CFR § 63.10(a). Otherwise, enter “NO.”

- ▼ Do not continue if “HAP Source” is “MAJOR” and “Service Type” is “FUEL.”



**Emission Limitation:**

Select one of the following options for compliance with the emission limitations. Enter the code on the form.

<b>Code</b>	<b>Description</b>
76+	Reducing formaldehyde emission by 76% or greater (use for richburn, spark ignited engines)
76+THC	Complying with reducing formaldehyde emissions by 76% or greater by testing for THC instead of formaldehyde. Average reduction of THC emissions is 30% or greater. (use for non-emergency 4SRB RICE)
REDCO	Reducing carbon monoxide emissions from the stationary RICE
LIMCO	Limiting the concentration of carbon monoxide in the stationary RICE exhaust
CONC	Limiting formaldehyde concentration from the stationary RICE exhaust
REDTHC	Reducing THC emissions from the stationary RICE

▼ **Continue only for SOP applications.**

- ★ **Complete “Displacement” and “Crankcase” only if “Service Type” is “NORMAL” or “LIM,” “Stationary RICE Type” is “CI,” “Brake HP” is “300-500” or “500+” and “Construction/Reconstruction Date” is “02-” or “02-06.”**
- ★ **Complete “Displacement” only if “Service Type” is “EMER-B,” “Stationary RICE Type” is “CI,” “Brake HP” is “100-250,” “250-300,” “300-500” or “500+” and “Construction/Reconstruction Date” is “02-,” “02-06” or “06+.”**

**Displacement:**

Enter “YES” if the stationary CI RICE has a displacement of less than 30 liters per cylinder and uses diesel fuel. Otherwise, enter “NO.”

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

**Unit ID No.:**

Enter the identification number (ID No.) for the stationary reciprocating internal combustion engine 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]). 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 index numbers, please go to 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).

**Crankcase:**

Enter “YES” if the stationary CI RICE is equipped with a closed crankcase ventilation system. Otherwise, enter “NO.”

**Performance Test:**

Enter “YES” if a performance test has been previously conducted that meets the conditions in 40 CFR § 63.6610(d)(1)-(5) or § 63.6612(b)(1)-(4). Otherwise, enter “NO.”

**Control Technique:**

Select one of the following options to indicate the type of control device used. Enter the code on the form.

For 4 strokes spark ignited rich burn engines (4 SRB):

Code	Description
NSCR	Non-selective catalytic reduction
OTHER1	Control technique other than non-selective catalytic reduction

For 2 strokes spark ignited lean burn engines (2 SLB), 4 strokes spark ignited lean burn engines (4 SLB), and compression ignition engines (CI):

Code	Description
OXCAT	Oxidation catalyst
OTHER2	Control technique other than an oxidation catalyst

★ **Complete “Operating Limits” only if “Control Technique” is “OTHER1” or “OTHER2.”**

**Operating Limits:**

Enter “YES” if the Administrator has been petitioned to establish operating limitations during the initial performance test. Otherwise, enter “NO.”

**Monitoring System:**

Select one of the following options to indicate the type of monitoring used. Enter the code on the form.

Code	Description
CEMS	Continuous emission monitoring system
CPMS	Continuous parameter monitoring system
OTHER	The owner or operator has chosen to use a monitoring system that is not a CEMS or CPMS.
SHUT1	The owner or operator has installed a system to shutdown the engine when the catalyst inlet temperature exceeds 1350°F (use only for existing non-emergency, non-remote 4SLB engines greater than 500 brake HP located at an area source)
SHUT2	The owner or operator has installed a system to shutdown the engine when the catalyst inlet temperature exceeds 1250°F (use only for existing non-emergency, non-remote 4SRB engines greater than 500 brake HP located at an area source)

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**Table 3: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117),  
Subchapter E: Multi-Region Combustion Control, Division 4: East Texas Combustion**

- ★ **Complete Table 3 only for stationary, gas-fired reciprocating internal combustion engines.**
- ★ **Complete Table 3 only for facilities located in Anderson, Brazos, Burleson, Camp, Cass, Cherokee, Franklin, Freestone, Gregg, Grimes, Harrison, Henderson, Hill, Hopkins, Hunt, Lee, Leon, Limestone, Madison, Marion, Morris, Nacogdoches, Navarro, Panola, Rains, Robertson, Rusk, Shelby, Smith, Titus, Upshur, Van Zandt, and Wood Counties.**

**Unit ID No.:**

Enter the identification number (ID No.) for the stationary reciprocating internal combustion engine 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]). 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 index numbers, please go to 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).

**Unit Type:**

Select one of the following options that describes the unit type. Enter the code on the form.

Code	Description
240-	The engine has a maximum rated horsepower capacity less than 240 HP.
RESEARCH	The engine is use for research and testing.
PERFV	The engine is used for purposes of performance verification and testing.
START	The engine is used solely to power other engines or gas turbines during startup.
EMERG	The engine is operated exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 100 hours per year, based on a rolling 12-month average
DISASTER	The engine is used in response to and during the existence of any officially declared disaster or state of emergency.
AG	The engine is used directly and exclusively by the owner or operator for agricultural operations necessary for the growing of crops or raising of fowl or animals.
DIESEL	The engine is a diesel engine.
DUAL	The engine is a dual-fuel engine.
LEANBN	The engine is a gas-fired lean burn engine
NONE	The unit does not qualify for any exemptions under the rule.

▼ **Continue only if “Unit Type” is “NONE.”**

**Horsepower Rating:**

Select one of the following options to indicate the horsepower (HP). Enter the code on the form.

Code	Description
500-	Stationary gas-fired rich-burn RICE with a HP less than 500 HP.
500+	Stationary gas-fired rich-burn RICE with a HP equal to or greater than 500 HP.

★ **Complete “Landfill” only if “Horsepower Rating” is “500+.”**

**Landfill:**

Enter “YES” if the gas-fired rich-burn engine is fired on landfill gas. Otherwise, enter “NO.”

**Control Operations:**

Select one of the following options to indicate NOx operational control requirements. Enter the code on the form.

Code	Description
POST1	Post combustion control technique with urea or ammonia injection
POST2	Post combustion control technique with chemical reagent other than urea or ammonia
NSCR	The engine is controlled with nonselective catalytic reduction.
NONE	The engine is not using any of the above control operations.

**NO<sub>x</sub> and O<sub>2</sub> Monitoring:**

Select one of the following options to indicate NO<sub>x</sub> and O<sub>2</sub> monitoring used. Enter the code on the form.

Code	Description
CEMSNOX	The engine is using a CEMS to monitor NO <sub>x</sub> emissions
PEMSNOX	The engine is using a PEMS to monitor NO <sub>x</sub> emissions.
CEMSBOTH	The engine is using a CEMS to monitor both NO <sub>x</sub> and O <sub>2</sub> emissions.
NONE	The engine is not using any of the above methods (unit is complying with § 117.3330(b)(3) monitoring).

**Ammonia Use:**

Enter “YES” if urea or ammonia injection is used to control NO<sub>x</sub> emissions. Otherwise, enter “NO.”

▼ **Continue only if “Ammonia Use” is “YES.”**

**NH<sub>3</sub> Emission Limitation:**

Title 30 TAC Chapter 117 provides two methods to be in compliance with the applicable NH<sub>3</sub> limitation standards listed in 30 TAC Chapter 117, Subchapter E. Select one of the following options. Enter the code on the form.

Code	Description
3310	Title 30 TAC § 117.3310(e) [relating to Emission Specifications for Eight-Hour Attainment Demonstration]
ACSS	Unit is complying with an Alternative Case Specific Specification under 30 TAC § 117.3325

**Ammonia Monitoring:**

Select one of the following options that describes the ammonia monitoring used. Enter the code on the form.

Code	Description
CEMS	A continuous emissions monitoring system is used to monitor ammonia emissions.
PEMS	A parametric emissions monitoring system is used to monitor ammonia emissions.
MBAL	Mass balance
OXY	Oxidation of ammonia to nitric oxide (NO)
STUBE	Stain tube

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**Table 4a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart JJJJ: Standards of Performance for Stationary Spark Ignition Internal Combustion Engines**
**Unit ID No.:**

Enter the identification number (ID No.) for the stationary spark ignited internal combustion engine 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]). 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 index numbers, please go to 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/Reconstruction/Modification Date:**

Enter “YES” if you own or operate a stationary spark ignition (SI) internal combustion engine (ICE) that commenced construction, reconstruction, or modification after June 12, 2006.

▼ **Do not continue if “Construction/Reconstruction/Modification Date” is “NO.”**

**Test Cell:**

Enter “YES” if the SI ICE is being tested at an engine test cell/stand. Otherwise, enter “NO.”

▼ **Do not continue if “Test Cell” is “YES.”****Exemption:**

Select one of the following codes if the SI ICE is exempt from the requirements of NSPS JJJJ as described in 40 CFR Part 1068, Subpart C or 40 CFR Parts 90 and 1048. *Owners and operator, as well as manufactures may be eligible to request an exemption for national security.*

Code	Description
EXEMPT	The SI ICE is exempt as described in 40 CFR Part 1068 Subpart C or 40 CFR Parts 90 and 1048, OR due to national security
NONE	The SI ICE is not exempt

▼ **Do not continue if “Exemption” is “EXEMPT.”****Temporary Replacement:**

Enter “YES” if the SI ICE is acting as a temporary replacement and is located at a stationary source for less than 1 year and has been properly certified to the standards that would be applicable to such engines under the appropriate non-road engine provisions. Otherwise, enter “NO.”

▼ **Do not continue if “Temporary Replacement” is “YES.”****Horsepower:**

Select one of the following options to indicate the maximum engine power in horsepower (HP). Enter the code on the form.

For SI ICE that are emergency use only

Code	Description
25-E	Maximum engine power less than or equal to 25 HP
25-100E	Maximum engine power greater than 25 HP and less than or equal to 100 HP
100-130E	Maximum engine power greater than 100 HP and less than 130 HP
130-500E	Maximum engine power greater than or equal to 130 HP and less than 500 HP
500+E	Maximum engine power greater than or equal to 500 HP

For SI ICE that are non-emergency use only

Code	Description
25-	Maximum engine power less than or equal to 25 HP
25-100	Maximum engine power greater than 25 HP and less than 100 HP
100-500	Maximum engine power greater than or equal to 100 HP and less than 500 HP
500-1350	Maximum engine power greater than or equal to 500 HP and less than 1350 HP
1350+	Maximum engine power greater than or equal to 1350 HP

**Fuel:**

Select one of the following options to indicate what fuel the SI ICE is using. Enter the code on the form.

Code	Description
GASO	SI ICE that uses gasoline
NATGAS	SI ICE that uses natural gas
RBLPG	SI ICE that is a rich-burn engine that uses liquefied petroleum gas (LPG)
LBLPG	SI ICE that is a lean-burn engine that uses liquefied petroleum gas (LPG)
LAND	SI ICE that is a landfill/digester gas engine
WELL	SI ICE that is a wellhead gas engine that cannot meet natural gas emission limits (use only for SOP applications and only if you are petitioning the EPA per § 60.4233(g); otherwise use “NATGAS”)

★ Complete “AEL No.” only if “FUEL” is “WELL.”

**AEL No.:**

Enter the date of the Alternative Emission Limit approval letter from the EPA.

▼ Do not continue if “Fuel” is “WELL.”

★ Complete “Lean Burn” only if BOTH of the following conditions are met:

- “Fuel” is “NATGAS” or “LAND” or “LBLPG;” and
- “Horsepower” is “500-1350.”

**Lean Burn:**

Enter “YES” if the SI ICE is a lean-burn engine. Otherwise, enter “NO.”

**Commencing:**

Select one of the following options to indicate the type of construction the SI ICE is commencing. Enter the code on the form.

Code	Description
CON	SI ICE was newly constructed after 06/12/2006
MOD	SI ICE was modified after 06/12/2006 (per §60.14)
RECON	SI ICE was reconstructed after 06/12/2006 (per §60.15)

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**Table 4b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart JJJJ: Standards of Performance for Stationary Spark Ignition Internal Combustion Engines**

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**Unit ID No.:**

Enter the identification number (ID No.) for the stationary spark ignited internal combustion engine 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]). 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 index numbers, please go to 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).

**Manufacture Date:**

Select one of the following options to indicate the date of manufacture of the SI ICE. Enter the code on the form. Please read each date and be careful in choosing the correct date code as each code is very specific to a certain type of SI ICE.

For SI ICE that is commencing *New Construction Only*

For SI ICE that is less than or equal to 25 HP (emergency or non-emergency)

Code	Description
N25-0708-	Date of manufacture is prior to July 1, 2008 (use for any cc)
N25-1211-	Date of manufacture is on or after July 1, 2008 to December 31, 2011 (use only for SI ICE that is less than 225cc)
N25-0112+	Date of manufacture is on or after January 1, 2012 (use only for SI ICE that is less than 225cc)
N25-1210-	Date of manufacture is on or after July 1, 2008 to December 31, 2010 (use only for SI ICE that is greater than or equal to 225cc)
N25-0111+	Date of manufacture is on or after January 1, 2011 (use only for SI ICE that is greater than or equal to 225cc)

For SI ICE that is greater than 25 HP (non-emergency only)

<b>Code</b>	<b>Description</b>
N0708-	Date of manufacture is prior to July 1, 2008 (use only for SI ICE that is less than 500 HP)
N0708+	Date of manufacture is on or after July 1, 2008 (use only for SI ICE that is less than 100 HP)
N08-10	Date of manufacture is on or after July 1, 2008 to December 31, 2010 (use only for SI ICE that is greater than or equal to 100 HP and less than 500 HP)
N0111+	Date of manufacture is on or after January 1, 2011 (use only for SI ICE that is greater than or equal to 100 HP and less than 500 HP)
N0707-	Date of manufacture is prior to July 1, 2007 (use only for SI ICE that is greater than or equal to 500 HP; except lean-burn SI ICE greater than or equal to 500 HP and less than 1350 HP)
N0108-	Date of manufacture is prior to January 1, 2008 (use only if "Lean Burn" is "YES")
N07-0610-	Date of manufacture is on or after July 1, 2007 to June 30, 2010 (use only for SI ICE that is greater than or equal to 500 HP; except lean-burn SI ICE greater than or equal to 500 HP and less than 1350 HP; as stated in Table 1 of 40 CFR 60 Subpart JJJJ)
N08-0610-	Date of manufacture is on or after January 1, 2008 to June 30, 2010 (use only if "Lean Burn" is "YES")
N0710+	Date of manufacture is on or after July 1, 2010 (use only for SI ICE that is greater than or equal to 500HP as stated in Table 1 of 40 CFR 60 Subpart JJJJ)
N08-	Date of manufacture is on or after July 1, 2007 to July 1, 2008 (use only if "Fuel" is "GASO" or "RBLPG" and SI ICE is greater than or equal to 500 HP) [as stated in § 60.4243(h)]
N08+	Date of manufacture is on or after July 1, 2008 (use only if "Fuel" is "GASO" or "RBLPG" and SI ICE is greater than or equal to 500 HP) [as stated in § 60.4243(h)]

For SI ICE that is greater than 25 HP (emergency only)

<b>Code</b>	<b>Description</b>
N0109-E	Date of manufacture is prior to January 1, 2009
N0109+E	Date of manufacture is on or after January 1, 2009 (use only for SI ICE that is greater than 25 HP and less than 130 HP)
N09-10E	Date of manufacture is on or after January 1, 2009 to December 31, 2010 (use only for SI ICE that is greater than or equal to 130 HP and less than 500 HP)
N0111+E	Date of manufacture is on or after January 1, 2011 (use only for SI ICE that is greater than or equal to 130 HP and less than 500 HP)
N09-610-E	Date of manufacture is on or after January 1, 2009 to June 30, 2010 (use only for SI ICE that is greater than or equal to 500 HP)
N0710+E	Date of manufacture is on or after July 1, 2010 (use only for SI ICE that is greater than or equal to 500HP)

For SI ICE that is commencing ***Modification or Reconstruction Only***

For SI ICE that is less than or equal to 25 HP (emergency or non-emergency)

<b>Code</b>	<b>Description</b>
R25-0112-	Date of manufacture of SI ICE is prior to January 1, 2012(use only for SI ICE that is less than 225cc)
R25-0112+	Date of manufacture of SI ICE is on or after January 1, 2012(use only for SI ICE that is less than 225cc)
R25-0111-	Date of manufacture of SI ICE is prior to January 1, 2011(use only for SI ICE that is greater than or equal to 225cc)
R25-0111+	Date of manufacture of SI ICE is on or after January 1, 2011(use only for SI ICE that is greater than or equal to 225cc)

For SI ICE that is greater than 25 HP (non-emergency only)

Code	Description
R0708-	Date of manufacture is prior to July 1, 2008 (use only for SI ICE that is less than 500 HP)
R0708+	Date of manufacture is on or after July 1, 2008 (use only for SI ICE that is less than 500 HP)
R0707-	Date of manufacture is prior to July 1, 2007 (use only for SI ICE that is greater than or equal to 500 HP; except lean-burn SI ICE greater than or equal to 500 HP and less than 1350 HP)
R0707+	Date of manufacture is on or after July 1, 2007 (use only for SI ICE that is greater than or equal to 500 HP; except lean-burn SI ICE greater than or equal to 500 HP and less than 1350 HP)
R0108-	Date of manufacture is prior to January 1, 2008 (use only if "Lean Burn" is "YES")
R0108+	Date of manufacture is on or after January 1, 2008 (use only if "Lean Burn" is "YES")

For SI ICE that is greater than 25 HP (emergency only)

Code	Description
R0708-E	Date of manufacture is prior to July 1, 2008 (use only for SI ICE that is less than 130 HP)
R0708+E	Date of manufacture is on or after July 1, 2008 (use only for SI ICE that is less than 130 HP)
R0109-E	Date of manufacture is prior to January 1, 2009 (use only for SI ICE that is greater than or equal to 130 HP and less than 500 HP)
R09-10E	Date of manufacture is on or after January 1, 2009 to December 31, 2010 (use only for SI ICE that is greater than or equal to 130 HP and less than 500 HP)
R0111+E	Date of manufacture is on or after January 1, 2011 (use only for SI ICE that is greater than or equal to 130 HP and less than 500 HP)
R09-610-E	Date of manufacture is on or after January 1, 2009 to June 30, 2010 (use only for SI ICE that is greater than or equal to 500HP)
R0710+E	Date of manufacture is on or after July 1, 2010 (use only for SI ICE that is greater than or equal to 500HP)

▼ Do not continue if "Manufacture Date" is "N25-0708-," "N0708-," "N0707-," "N0109-E," or "N0108-."

★ Complete "Displacement" only if "Horsepower" is "25-" or "25-E."

#### Displacement:

Select one of the following options to indicate the engine displacement in cubic centimeters (cc). Enter the code on the form.

Code	Description
66-	Engine displacement is less than 66cc
66-100	Engine displacement is greater than or equal to 66cc and less than 100cc
100-225	Engine displacement is greater than or equal to 100cc and less than 225cc
225+	Engine displacement is greater than or equal to 225cc

★ Complete "Certified" only if "Commencing" is "CON."

#### Certified:

Enter "YES" if you purchased a certified SI ICE. Otherwise, enter "NO."

★ Complete "Operation" only if "Certified" is "YES."

#### Operation:

Enter "YES" if you are operating and maintaining the certified SI ICE and control device according to manufacturer's written instructions. Otherwise, enter "NO."

★ Complete "Certified Modification" only if "Commencing" is "MOD" or "RECON."

#### Certified Modification:

Enter "YES" if you purchased, or otherwise own/operate, a modified/reconstructed SI ICE that is certified. Otherwise, enter "NO."



**Service:**

Select one of the following options to indicate what type of service the SI ICE is performing. Enter the code on the form.

Code	Description
EMERG	SI ICE is an emergency engine
NON	SI ICE is a non-emergency engine

★ **Complete “Severe Duty” only if either of the following conditions are met:**

- “Fuel” is “GASO” or “RBLPG,” and “Service” is “NON,” and “Horsepower” is greater than 25 HP; or
- “Fuel” is not “GASO” or “RBLPG” and “Service” is “NON,” and “Horsepower” is “25-100.”

**Severe Duty:**

Enter “YES” if the SI ICE is a severe-duty engine. Otherwise, enter “NO.”

★ **Complete “Optional Compliance” only if “Horsepower” is “500-1350” or “1350+” and “Fuel” is “GASO” or “RBLPG” and “Manufacture Date” is “N08-”.**

**Optional Compliance:**

Select one of the following options to indicate the optional compliance requirements you are choosing to perform.

Code	Description
PURCH	Choosing to purchase an engine certified according to 40 CFR Part 1048 and install and configure the engine according to manufacturer’s specifications.
RECORD	Choosing to keep records as indicated in § 60.4243(h)(1), (h)(2), or (h)(3)

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**Table 5a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart III: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**

**Unit ID No.:**

Enter the identification number (ID No.) for the stationary compression ignition internal combustion engine 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., 60III-XX]). 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 index numbers, please go to 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).

**Applicability Date:**

Select one of the following options to indicate the construction, reconstruction, or modification date of the stationary compression ignition (CI) internal combustion engine (ICE). Enter the code on the form.

Code	Description
2005+	Stationary CI ICE commenced construction, reconstruction, or modification after 07/11/2005
2005-	Stationary CI ICE commenced construction, reconstruction, or modification on or before 07/11/2005

▼ **Do not continue if “Applicability Date” is “2005-.”**

**Exemptions:**

Select one of the following options to indicate which exemption could apply to the CI ICE. Enter the code on the form.

<b>Code</b>	<b>Description</b>
TEST	The CI ICE is being tested at an engine test cell/stand
NATSEC	The CI ICE is exempt due to national security
TEMP	The CI ICE is acting as a temporary replacement and is located at a stationary source for less than 1 year and has been properly certified to the standards that would be applicable to such engines under the appropriate non-road engine provisions
NONE	The CI ICE is not eligible for any of these exemptions

▼ **Continue only if “Exemptions” is “NONE.”**

**Service:**

Select one of the following options to indicate what type of service the CI ICE is performing. Enter the code on the form.

<b>Code</b>	<b>Description</b>
NON	CI ICE is a non-emergency engine
EMERG	CI ICE is an emergency engine
FIRE	CI ICE is a fire-pump engine (an emergency engine certified to National Fire Protection Association requirements)

**Commencing:**

Select one of the following options to indicate what type of construction occurred after 07/11/2005. Enter the code on the form.

<b>Code</b>	<b>Description</b>
CON	CI ICE was newly constructed after 07/11/2005
MOD	CI ICE was modified after 07/11/2005 (per §60.14)
RECON	CI ICE was reconstructed after 07/11/2005 (per §60.15)

★ **Complete “Manufacture Date” only if “Commencing” is “CON.”**

**Manufacture Date:**

Select one of the following options to indicate when the CI ICE was manufactured. Enter the code on the form.

For CI ICE for which “Service” is “NON” or “EMERG”

<b>Code</b>	<b>Description</b>
0406-	Date of manufacture was on or prior to 04/01/2006.
0406+	Date of manufacture was after 04/01/2006.

For CI ICE for which “Service” is “FIRE”

<b>Code</b>	<b>Description</b>
0706-	Date of manufacture was on or prior to 07/01/2006.
0706+	Date of manufacture was after 07/01/2006.

▼ **Do not continue if “Manufacture Date” is “0406-” or “0706-.”**

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**Table 5b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**

**Unit ID No.:**

Enter the identification number (ID No.) for the stationary compression ignition internal combustion engine 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., 60III-XX]). 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 index numbers, please go to 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).

**Diesel:**

Select one of the following codes to indicate fuel being used. Enter the code on the form.

Code	Description
DIESEL	Diesel fuel is used
AES	Alternative Emission Standard has been approved by the EPA Administrator

★ **Complete “AES No.” only if “Diesel” is “AES.”**

**AES No.:**

If an AES has been approved by the EPA administrator, enter the corresponding AES unique identifier for each unit (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the AES approval letter in the table column. 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.

▼ **Do not continue if “Diesel” is “AES.”**

**Displacement:**

Select one of the following options to indicate the displacement of the CI ICE (expressed in liters per cylinder). Enter the code on the form.

Code	Description
10-CS	Displacement is less than 10 liters per cylinder and is a constant-speed engine. <i>(Use only if “Service” is “NON” or “EMERG.”)</i>
10-	Displacement is less than 10 liters per cylinder.
10-15	Displacement is greater than or equal to 10 and less than 15 liters per cylinder.
15-20	Displacement is greater than or equal to 15 and less than 20 liters per cylinder.
20-25	Displacement is greater than or equal to 20 and less than 25 liters per cylinder.
25-30	Displacement is greater than or equal to 25 and less than 30 liters per cylinder.
30+	Displacement is greater than or equal to 30 liters per cylinder.

★ **Complete “Generator Set” only if “Service” is “NON” and “Displacement” is “10-.”**

**Generator Set:**

Enter “YES” if the CI ICE is a generator set engine. Otherwise, enter “NO.”

★ **Do not complete “Model Year” if “Displacement” is “30+.”**

**Model Year:**

Select one of the following options to indicate what model year the CI ICE was manufactured in. Enter the code on the form.

<b>Code</b>	<b>Description</b>
2007-	CI ICE was manufactured prior to model year 2007.
2007	CI ICE was manufactured in model year 2007.
2008	CI ICE was manufactured in model year 2008.
2009	CI ICE was manufactured in model year 2009.
2010	CI ICE was manufactured in model year 2010.
2011	CI ICE was manufactured in model year 2011.
2012	CI ICE was manufactured in model year 2012.
2013	CI ICE was manufactured in model year 2013.
2014	CI ICE was manufactured in model year 2014.
2015	CI ICE was manufactured in model year 2015.
2016	CI ICE was manufactured in model year 2016.
2017+	CI ICE was manufactured in model year 2017 or later.

★ **Complete “Install Date” only if “Displacement” is “30+.”**

**Install Date:**

Select one of the following options to indicate what year the CI ICE was installed. Enter the code on the form.

<b>Code</b>	<b>Description</b>
2012-	The CI ICE was installed prior to 2012.
2012+	The CI ICE was installed in 2012 or later (use only if “Service” is “EMERG” or “FIRE”).
2012-2015	The CI ICE was installed in 2012 through 2015.
2016+	The CI ICE was installed in 2016 or later.

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**Table 5c: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**

**Unit ID No.:**

Enter the identification number (ID No.) for the stationary compression ignition internal combustion engine 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., 60IIII-XX]). 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 index numbers, please go to 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).

★ Do not complete “Kilowatts” if “Displacement” is “30+.”

### Kilowatts:

Select one of the following options to indicate the power rating of the CI ICE expressed in Kilowatts (KW). Enter the code on the form.

For non-emergency and emergency (NOT fire pump) CI ICE manufactured prior to model year 2007

Code	Description
8-	Power rating is less than 8 KW.
8-19	Power rating is greater than or equal to 8 KW and less than 19 KW.
19-37	Power rating is greater than or equal to 19 KW and less than 37 KW.
37-75	Power rating is greater than or equal to 37 KW and less than 75 KW.
75-130	Power rating is greater than or equal to 75 KW and less than 130 KW.
130-2237	Power rating is greater than or equal to 130 KW and less than or equal to 2237 KW.
2237+	Power rating is greater than or equal to 2237 KW.

For non-emergency CI ICE manufactured in model year 2007 and later

For CI ICE with a displacement less than 10 liters per cylinder

Code	Description
N8-	Power rating is less than 8 KW.
N8-19	Power rating is greater than or equal to 8 KW and less than 19 KW.
N19-37	Power rating is greater than or equal to 19 KW and less than 37 KW.
N37-56	Power rating is greater than or equal to 37 KW and less than 56 KW.
N56-75	Power rating is greater than or equal to 56 KW and less than 75 KW.
N75-130	Power rating is greater than or equal to 75 KW and less than 130 KW.
N130-368	Power rating greater than or equal to 130 KW and less than or equal to 368 KW.
N368-560	Power rating is greater than 368 KW and less than 560 KW.
N560-900	Power rating greater than or equal to 560 KW and less than or equal to 900 KW.
N900-2237	Power rating is greater than 900 KW and less than or equal to 2237 KW.
N2237+	Power rating is greater than 2237 KW.

For CI ICE with a displacement greater than or equal to 10 and less than 30 liters per cylinder

Code	Description
N368-3300	Power rating is greater than 368 KW and less than 3300KW (use only if “Displacement” is “15-20” and “Model Year” is “2007” through “2013”).
N3300+	Power rating is greater than or equal to 3300 KW (use only if “Displacement” is “15-20” and “Model Year” is “2007” through “2013”).
N75-	Power rating is less than 75 KW.
N75-368	Power rating is greater than or equal to 75 KW and less than or equal to 368 KW.
N368-600	Power rating is greater than 368 KW and less than 600 KW.
N600-1400	Power rating is greater than or equal to 600 KW and less than 1400 KW.
N1400-2000	Power rating is greater than or equal to 1400 KW and less than 2000 KW.
N2000-3700	Power rating is greater than or equal to 2000 KW and less than 3700 KW.
N3700+	Power rating is greater than or equal to 3700 KW.

For emergency (NOT fire pump) CI ICE manufactured in model year 2007 and later

For CI ICE with a displacement less than 10 liters per cylinder

<b>Code</b>	<b>Description</b>
E8-	Power rating is less than 8 KW.
E8-19	Power rating is greater than or equal to 8 KW and less than 19 KW.
E19-37	Power rating is greater than or equal to 19 KW and less than 37 KW.
E37-75	Power rating is greater than or equal to 37 KW and less than 75 KW.
E75-130	Power rating is greater than or equal to 75 KW and less than 130 KW.
E130-368	Power rating greater than or equal to 130 KW and less than or equal to 368 KW.
E368-560	Power rating greater than or equal to 368 KW and less than or equal to 560KW.
E560-2237	Power rating is greater than 560 KW and less than or equal to 2237 KW.
E2237+	Power rating is greater than 2237 KW.

For CI ICE with a displacement greater than or equal to 10 and less than 15 liters per cylinder

<b>Code</b>	<b>Description</b>
E75-	Power rating is less than 75 KW.
E75-368	Power rating is greater than or equal to 75 KW and less than or equal to 368 KW.
E368-600	Power rating is greater than 368 KW and less than 600 KW.
E600-1400	Power rating is greater than or equal to 600 KW and less than 1400 KW.
E1400-2000	Power rating is greater than or equal to 1400 KW and less than 2000 KW.
E2000-3700	Power rating is greater than or equal to 2000 KW and less than 3700 KW.
E3700+	Power rating is greater than or equal to 3700 KW.

For CI ICE with a displacement greater than or equal to 15 and less than 20 liters per cylinder

<b>Code</b>	<b>Description</b>
E368-3300	Power rating is greater than 368 KW and less than 3300 KW (use only if “Model Year” is 2013).
E75-	Power rating is less than 75 KW.
E75-368	Power rating is greater than or equal to 75 KW and less than or equal to 368 KW.
E368-600	Power rating is greater than 368 KW and less than 600 KW.
E600-1400	Power rating is greater than or equal to 600 KW and less than 1400 KW.
E1400-2000	Power rating is greater than or equal to 1400 KW and less than 2000 KW.
E2000-3300	Power rating is greater than or equal to 2000 KW and less than 3300 KW.
E3300+	Power rating is greater than or equal to 3300 KW.

For CI ICE with a displacement greater than or equal to 20 and less than 30 liters per cylinder

<b>Code</b>	<b>Description</b>
E75-	Power rating is less than 75 KW.
E75-368	Power rating is greater than or equal to 75 KW and less than or equal to 368 KW.
E368-600	Power rating is greater than 368 KW and less than 600 KW.
E600-1400	Power rating is greater than or equal to 600 KW and less than 1400 KW.
E1400-2000	Power rating is greater than or equal to 1400 KW and less than 2000 KW.
E2000+	Power rating is greater than or equal to 2000 KW.

For ALL fire pump CI ICE less than 30 liters per cylinder

Code	Description
F8-	Power rating is less than 8 KW.
F8-19	Power rating is greater than or equal to 8 KW and less than 19 KW.
F19-37	Power rating is greater than or equal to 19 KW and less than 37 KW.
F37-75	Power rating is greater than or equal to 37 KW and less than 75 KW.
F75-130	Power rating is greater than or equal to 75 KW and less than 130 KW.
F130-368	Power rating is greater than or equal to 130 KW and less than or equal to 368 KW.
F368-450	Power rating is greater than 368 KW and less than 450 KW.
F450-560	Power rating is greater than or equal to 450 KW and less than or equal to 560 KW.
F560+	Power rating is greater than 560 KW.

★ **Complete “Filter” only if “Service” is “NON.”**

**Filter:**

Enter “YES” if the CI ICE is equipped with a diesel particulate filter. Otherwise, enter “NO.”

★ **Complete “AECD” only if “Service” is “NON” or “EMERG.”**

**AECD:**

Enter “YES” if the CI ICE is equipped with auxiliary emission control devices (AECDs) pursuant to the requirements of 40 CFR 1039.665. Otherwise, enter “NO”.

★ **Complete “Standards” only if “Service” is “EMERG” or “FIRE.”**

**Standards:**

Enter “YES” if the emergency CI ICE meets the Tier 1, 2, 3, or 4 standards applicable to non-emergency engines (for the same KW and model year). Otherwise, enter “NO.”

**Compliance Option:**

Select one of the following options to indicate how compliance is being demonstrated. Enter the code on the form.

Select one of the following two options only if “Commencing” is “MOD” or “RECON.”

Code	Description
CERT	Engine certified to meet the emission standards in §60.4204(e) or §60.4205(f), as applicable.
NONCERT	Engine not certified to meet the emission standards in §60.4204(e) or §60.4205(f), as applicable.

Select one of the following five options only if “Commencing” is “CON:” **and**

- “Service” is “NON” or “EMERG” and “Displacement” is NOT “30+” and “Model Year” is “2007-”; **or**
- “Service” is “FIRE;” **and**
  - “Kilowatts” is “F8-”, “F8-19”, “F19-37”, or “F37-75” **and** “Model Year” is “2010” or prior; or
  - “Kilowatts” is “F75-130” **and** “Model Year” is “2009” or prior; or
  - “Kilowatts” is “F130-368”, “F368-450”, or “F450-560” **and** “Model Year” is “2008” or prior; or
  - “Kilowatts” is “F560+” **and** “Model Year” is “2007” or prior.

Code	Description
PURCH	Certified engine according to § 60.4211(b)(1).
SIMILAR	Records are kept on a similar engine according to § 60.4211(b)(2).
MDATA	Records are kept of manufacturer data according to § 60.4211(b)(3).
CDDATA	Records are kept of control device data according to § 60.4211(b)(4).
TEST	Performance test conducted according to § 60.4211(b)(5).

Select one of the following two options only if “Commencing” is “CON:” **and**

- “Service” is “NON” or “EMERG” and “Displacement” is **not** “30+” and “Model Year” is **not** “2007-”; **or**
- “Service” is “FIRE;” **and**
  - “Kilowatts” is “F8-”, “F8-19”, “F19-37”, or “F37-75” **and** “Model Year” is “2011” or later; **or**
  - “Kilowatts” is “F75-130” **and** “Model Year” is “2010” or later; **or**
  - “Kilowatts” is “F130-368”, “F368-450”, or “F450-560” **and** “Model Year” is “2009” or later; **or**
  - “Kilowatts” is “F560+” **and** “Model Year” is “2008” or later.

Code	Description
MANU YES	The CI ICE and control device is installed, configured, operated, and maintained according to the manufacturer’s emission-related written instructions.
MANU NO	The CI ICE and control device IS NOT installed, configured, operated, and maintained according to the manufacturer’s emission-related written instructions.

- ★ **Complete “PM Compliance” only if “Commencing” is “CON” and “Service” is “NON,” and “Displacement” is “30+.”**

#### PM Compliance:

Select one of the following options to indicate which Particulate Matter compliance option you are using. Enter the code on the form.

Code	Description
PM60	Particulate matter emissions are reduced by 60% or more
PM15	Particulate matter emissions are limited in the engine exhaust to 0.15 g/KW-hr

- ★ **Complete “Options” only if “Service” is “FIRE” and if one of the following conditions are met:**

- “Kilowatts” is “F37-75” and “Model Year” is “2011”, “2012,” or “2013”; **or**
- “Kilowatts” is “F75-130” and “Model Year” is “2010,” “2011”, or “2012”; **or**
- “Kilowatts” is “F130-368” or “F368-450” and “Model Year” is “2009,” “2010”, or “2011”

#### Options:

Select one of the following options to indicate the rated speed (in RPMs) and whether or not you are choosing to alternatively comply with the previous model year’s emission limits as stated in 40 CFR 60, Subpart IIII-Table 4 (Footnotes 1-3). Enter the code on the form.

Code	Description
2650-	The CI ICE rated speed is less than 2650 RPMs (Not allowed to comply with the previous model year’s emission limits).
2650+YES	The CI ICE rated speed is greater than 2650 RPMs and is complying with the previous model year’s emission limits.
2650+NO	The CI ICE rated speed is greater than 2650 RPMs but is not complying with the previous model year’s emission limits.