Form OP-UA5 - Instructions
Process Heater/Furnace 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 The individual unit summary (OP-SUM) information and the negative applicable/superseded requirement determinations (OP-REQ2) will be provided on each individual OP-UA form for the applicable units identified in the unit attribute tables.

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 (CNXXXXXXXXX). 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 (RNXXXXXXXXX). 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.

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.

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.

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 (GRP*XXXXXXX*).

Specific:

Table 1

Unit Action Indicator (Unit AI):
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 (GRP*XXXXXXX*) ("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 (PSDTX*XXX*), for example, PSDTX123. If the PSD permit has been modified, include the "M" suffix (PSDTX*XXX*M*XX*), 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 (N*XXX*), for example, N123. If the nonattainment permit has been modified, include the "M" suffix (N*XXX*M*XX*), 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.

Information on Chapter 106 version dates is available at:
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_2 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_2 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.

Code	Description
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_x 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 NOx Ozone Season Group 2 monitoring for that unit.

Code	Description
CEMS	A unit that is complying with the CEMS requirements of 40 CFR Part 75, Subpart H for NOX 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 NOX, 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 NOX, 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 NOX and heat input
ALTMON	A unit that is complying with EPA-approved alternative monitoring system requirements of 40 CFR Part 75, Subpart E for NOX and heat input.
REXM	Applying for a retired unit exemption under 40 CFR Part 97, Subpart EEEEE (CSAPR NOX Ozone Season Group 2 Trading Program) (Applicant must also submit required additional information in a separate cover letter)

Texas SO_2:
Select "YES" from the dropdown menu if the unit is complying with the requirements of 40 CFR Part 97, Subpart FFFFF (Texas SO_2 Trading Program). Otherwise, select "NO."

Texas SO_2 Monitoring:
Select one of the following options from the dropdown menu that describes the Texas SO_2 monitoring for that unit.

Code	Description
CEMS	A unit that is complying with the CEMS requirements of 40 CFR Part 75, Subpart B for SO_2 and 40 CFR Part 75, Subpart H for heat input
CEMSD	A gas or oil fired unit that is complying with the monitoring requirements of 40 CFR Part 75, Appendix D for SO_2 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_2 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_2 and heat input
REXM	Applying for a retired unit exemption under 40 CFR Part 97, Subpart FFFFF (Texas SO_2 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 “Site Operating Permit (SOP) Permit Shield Guidance found on TCEQ’s website at: www.tceq.texas.gov/permitting/air/guidance/titlev/tv_site_guidance.html.

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*

Regulation	**Potentially Applicable Regulatory Name** *(Input Format)*	**Negative Applicability or Superseded Requirement Citation** *(Input Format)*
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).

OP-UA02 Form Unit Attribute Tables- Instructions

General:
This form is used to provide a description and data pertaining to all process heaters and furnaces with potentially applicable requirements associated with a particular regulated entity number and application. Each table number, along with the possibility of a corresponding letter (i.e., Table 1a, Table 1b), corresponds to a certain state or federal rule. If the rule on the table is not potentially applicable to a process heater and furnace, then it should be left blank and need not be submitted with the application. The following process heaters and furnaces are considered off-permit sources and do not need to be listed:

A. In counties affected by Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117), water heaters, process heaters, and furnaces that do not fire liquid or solid fuel and have a maximum rated capacity less than 1.0 MMBtu/hr, unless the unit is placed in service after June 9, 1993, as a functionally identical replacement for existing units subject to the provisions 30 TAC Chapter 117, Subchapter B.

B. In counties not affected by 30 TAC Chapter 117, process heaters and furnaces with a heat input capacity less than or equal to 40 MMBtu/hr that do not fire liquid or solid fuel.

C. In counties not affected by 30 TAC Chapter 117, water heaters with a heat input capacity less than 10 MMBtu/hr and do not fire liquid or solid fuel.

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:

Tables 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, for Process Heaters**
Table 2:	**Title 30 Texas Administrative Code Chapter 112 (30 TAC Chapter 112), Control of Air Pollution from Sulfur Compounds**
Tables 3a - 3b:	**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, for Furnaces**
Table 4:	**Title 30 Texas Administrative Code Chapter 111 (30 TAC Chapter 111), Subchapter A, Division 2: Incineration**
Tables 5a - 5b:	**Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart EEE: Hazardous Waste Combustors**
Table 6a - 6g:	**Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart DDDDD: Industrial, Commercial, and Institutional Process Heaters**

The Texas Commission on Environmental Quality (TCEQ) regulated entity number (RNXXXXXXXXX) and 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, and the regulated entity number.

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 (EPA) 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.

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, for Process Heaters**

★ **Complete only for sites that are major sources of NOx, as defined in 30 TAC § 117.10, and are located in the Houston/Galveston/Brazoria, Beaumont/Port Arthur Eight-Hour, or Dallas/Fort Worth Eight-Hour ozone nonattainment areas.**

Unit ID No.:
Enter the identification number (ID No.) for the unit (maximum 14 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP/GOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). General operating permit (GOP) applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP and GOP index numbers, please see the Completing FOP Applications – Additional Guidance on the TCEQ website at www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html.

Unit Type:
Select one of the following types of units from the list below. Enter the code on the form.

Code	Description
PRHTR	Process Heater (in the Houston/Galveston/Brazoria ozone nonattainment area this code should not be used to describe pyrolysis reactors)
PYRO	Pyrolysis reactors
BIF	Designated as a Boiler or Industrial Furnace regulated as an existing facility by the EPA in Title 40 Code of Federal Regulations Part 266 (40 CFR Part 266), Subpart H (as was in effect on June 9, 1993)

▼ **Continue if:**

- **The "Unit Type" is "PRHTR;" or**
- **If the "Unit Type" is "PYRO" or "BIF" and the site is located in the Houston/Galveston/Brazoria ozone nonattainment area.**

Maximum Rated Capacity:
Select one of the following ranges for maximum rated capacity (MRC), as defined in 30 TAC Chapter 117. Enter the code on the form.

For units in SOP applications:

"Unit Type" is "PRHTR" and located in the Beaumont/Port Arthur ozone nonattainment area:

Code	Description
40-	MRC is less than 40 MMBtu/hr
40-100	MRC is greater than or equal to 40 MMBtu/hr but less than 100 MMBtu/hr
100-200	MRC is greater than or equal to 100 MMBtu/hr but less than 200 MMBtu/hr
200+	MRC is greater than or equal to 200 MMBtu/hr

"Unit Type" is "PRHTR," "PYRO," or "BIF" and located in the Houston/Galveston/Brazoria ozone nonattainment area:

Code	Description
2-	MRC is less than or equal to 2 MMBtu/hr
2-40	MRC is greater than 2 MMBtu/hr but less than 40 MMBtu/hr
40-100	MRC is greater than or equal to 40 MMBtu/hr but less than 100 MMBtu/hr
100-200	MRC is greater than or equal to 100 MMBtu/hr but less than 200 MMBtu/hr
200+	MRC is greater than or equal to 200 MMBtu/hr

"Unit Type" is "PRHTR" and located in the Dallas/Fort Worth Eight-Hour ozone nonattainment area:

Code	Description
5-	MRC is less than or equal to 5 MMBtu/hr
5-40	MRC is greater than 5 MMBtu/hr but less than 40 MMBtu/hr
40-100	MRC is greater than or equal to 40 MMBtu/hr but less than 100 MMBtu/hr
100+	MRC is greater than or equal to 100 MMBtu/hr

For units in GOP applications:

Code	Description
G2-	MRC is less than or equal to 2 MMBtu/hr
G2-5	MRC is greater than 2 MMBtu/hr but less than or equal to 5 MMBtu/hr
G5-40	MRC is greater than 5 MMBtu/hr but less than 40 MMBtu/hr
G40-100	MRC is greater than or equal to 40 MMBtu/hr but less than 100 MMBtu/hr

▼ **Do not continue if:**

- **The "Maximum Rated Capacity" is "2-" or "G2-;" or**
- **If the site is located in the Dallas/Fort Worth Eight- Hour ozone nonattainment area and "Maximum Rated Capacity" is "5-" or "G2-5;" or**
- **If the site is located in the Beaumont/Port Arthur ozone nonattainment area and "Unit Type" is "PRHTR" and "Maximum Rated Capacity" is "40-" or "G2-," "G2-5," or "G5-40."**

★ **Complete "RACT Date Placed in Service" only if the site is located in the Beaumont/Port Arthur ozone nonattainment area.**

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, 117.9010, 117.9020(1)
FCD+	After June 9, 1993, and on or after the final compliance date specified in 30 TAC §§ 117.9000, 117.9010, 117.9020(1)

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

Functionally Identical Replacement:
Select one of the following codes 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 "RACT Date Placed in Service" is "93-FCD" and "Functionally Identical Replacement" is "NO," or "RACT Date Placed in Service" is "92-93" or "FCD+."**

Fuel Types:
Select one or more of the following options for fuel type(s) fired. Enter the code(s) on the form.

For units in SOP applications:

Code	Description
NG	Natural gas
GS	Gaseous fuel other than natural gas landfill gas or renewable non-fossil fuel gases (refinery gas or mixtures, etc.)
LFG	Landfill Gas
ORG	Renewable non-fossil fuel gas other than landfill gas
LQD	Liquid
WD	Wood
H50-A	Gaseous fuel containing more than 50% hydrogen (H2) by volume, over an annual basis, fuel gas sampled and analyzed every three hours
H50-8	Gaseous fuel containing more than 50% H2 by volume, over an eight-hour period, fuel gas sampled and analyzed every three hours
SLD	Solid fuel other than wood

For units in GOP applications:

Code	Description
NG	Natural gas (GOP applicants for GOPs 511, 512, 513, and 514 must select this option, other applicants may select this option)
GS	Gaseous fuel other than natural gas landfill gas or renewable non-fossil fuel gases (refinery gas or mixtures, etc.)
LFG	Landfill Gas
ORG	Renewable non-fossil fuel gas other than landfill gas

If a fuel-firing option consists of multiple fuel types being combusted simultaneously, enter the fuel type code for each fuel in a separate column on the same line, with a single SOP index number. If there are more than three fuels being combusted simultaneously, use multiple lines, and start each line with a different SOP index number. Start each additional fuel-firing option on a different line with a different SOP index number.

Example:

	SOP Index No.		Fuel Type(s)	
Fuel-firing Option A:	R7ICI-1	GS	LQD	WD
Fuel-firing Option B:	R7ICI-2A	GS	LQD	WD
	R7ICI-2B	SLD		
Fuel-firing Option C:	R7ICI-3	LQD		

★ **Complete "Annual Heat Input" only if "Unit Type" is "PRHTR" or "PYRO" or "BIF" and "Maximum Rated Capacity" is "40-100," "100-200," "100+" or "200+."**

Annual Heat Input:
Select one of the following options for the annual heat input. Enter the code on the form.

"Unit Type" is "PRHTR," "PYRO," or "BIF" with a "Maximum Rated Capacity" designation of "40-100":

Code	Description
28-	Annual heat input is less than or equal to 2.8 (10^{11}) Btu/yr., based on rolling 12-month average (Low annual capacity factor heaters)
28+	Annual heat input is greater than 2.8 (10^{11}) Btu/yr., based on rolling 12-month average

"Unit Type" is "PRHTR," "PYRO," or "BIF" with a "Maximum Rated Capacity" designation of "100+", "100-200", or "200+":

Code	Description
22-	Annual heat input is less than or equal to 2.2 (10^{11}) Btu/yr., based on rolling 12-month average (Low annual capacity factor heaters)
22+	Annual heat input is greater than 2.2 (10^{11}) Btu/yr., based on rolling 12-month average

NOx Emission Limitation:
Title 30 TAC Chapter 117 provides options to be in compliance with the applicable limitation standards listed in 30 TAC Chapter 117, Subchapter B. Select one of the following options. Enter the code on the form.

For GOP applications:

Code	Description
103B	Title 30 TAC § 117.103(b)(1) exemption (for process heaters in the Beaumont/Port Arthur ozone nonattainment area potentially subject to RACT)
403B	Title 30 TAC § 117.403(b)(1) exemption (for process heaters in Wise County potentially subject to RACT)
103A	Title 30 TAC § 117.103(a)(2) exemption (use for process heaters, potentially subject to ESAD, located in the Beaumont/Port Arthur ozone nonattainment area and rated less than 40 MMBtu/hr)
103C	Title 30 TAC § 117.103(c) exemption (use for process heaters, potentially subject to ESAD located in the Beaumont/Port Arthur ozone nonattainment area rated greater than 40 MMBtu/hr and qualifies as a low annual capacity unit.)
110A	Title 30 TAC § 117.110(a)(2) (use for process heaters located in the Beaumont/Port Arthur ozone nonattainment area and rated greater than 40 MMBtu/hr and does not qualify as a low annual capacity unit. These units are subject to ESAD requirements)
310A	Title 30 TAC §§ 117.310(d)(3) and 117.310(a)(8) [relating to mass emissions cap and trade in Chapter 101, Subchapter H, Division 3 and Emission Specifications for Attainment Demonstration]
410A	Title 30 TAC § 117.410(a)(3) (use for units located in the Dallas/Fort Worth Eight-Hour ozone nonattainment area)
405B	Title 30 TAC § 117.405(b)(1) (use for units located in Wise County)

For SOP applications:

For process heaters located in the Beaumont/Port Arthur ozone nonattainment area:

Code	Description
105	Title 30 TAC § 117.105 (relating to Emission Specifications for Reasonably Available Control Technology)
110A	Title 30 TAC § 117.110(a) (use for process heaters located in the Beaumont/Port Arthur ozone nonattainment area and rated greater than 40 MMBtu/hr and does not qualify as a low annual capacity unit.)
APES	Unit is complying with an Alternative Plant-wide Emissions Specification under Title 30 TAC § 117.115
ACSS	Unit is complying with an Alternative Case-specific Specification under Title 30 TAC § 117.125
SC	Unit is complying with a Source Cap under Title 30 TAC § 117.123

For PRHTR or PYRO or BIF units located in the Houston/Galveston/Brazoria ozone nonattainment area:

Code	Description
310D	Title 30 TAC §§ 117.310(d)(3) and 117.310(a)(8) [relating to mass emissions cap and trade in Chapter 101, Subchapter H, Division 3 and Emission Specifications for Attainment Demonstration]
ACF	Process heater is complying with an annual capacity factor specification under Title 30 TAC §§ 117.310(d)(3) and 117.310(a) (17)

For process heaters located in the Dallas/Fort Worth Eight-Hour ozone nonattainment area:

Code	Description
410A	Title 30 TAC § 117.410(a)(3) (use for units located in the Dallas/Fort Worth Eight-Hour ozone nonattainment area excluding Wise County)
405B	Title 30 TAC § 117.405(b)(1) (use for units located in Wise County)
ACF	Process heater is complying with an annual capacity factor specification under Title 30 TAC § 117.410(a)(14)
SC	Unit is complying with a Source Cap under Title 30 TAC § 117.423

★ Complete "Opt-in Unit" only if the site is located in the Beaumont-Port Arthur ozone nonattainment area and "Emission Limitation" from Table 1a is "APES" or "SC."

Opt-in Unit:
Enter "YES" if the unit is an opt-in unit listed in 30 TAC § 117.115(f) that the owner or operator has chosen to include into the Plant-wide emission or Source Cap to comply with § 117.105 (for non-gas-fired process heaters). Otherwise, enter "NO."

★ Complete "23C-OPTION" only if "NOx 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.

Code	Description
23C-A	NOx, CO, O_2 (or CO_2) 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). (Must use for § 117.115(f) opt-in units in the Beaumont/Port Arthur ozone nonattainment area)

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, Process Heaters

Unit ID No.:
Enter the identification number (ID No.) for the unit (maximum 14 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP/GOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). General operating permit (GOP) applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP and GOP index numbers, please see the Completing FOP Applications – Additional Guidance on the TCEQ website at www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html.

Diluent CEMS:
Enter "YES" if the process heater operates with a carbon dioxide (CO_2) CEMS to monitor diluent. Otherwise, enter "NO."

★ **Complete "30 TAC Chapter 116 Limit" only if the site is located in the Beaumont/Port Arthur ozone nonattainment area.**

30 TAC Chapter 116 Limit:
Select one of the following descriptions of 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	Nitrogen oxides (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, 117.9010 or 117.9020, as functionally identical replacement for an existing unit or group of units and limited to the cumulative MRC of the units replaced:

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

For existing units without a 30 TAC Chapter 116 permit in effect on June 9, 1993, or for units placed in service after the final compliance date of 30 TAC §§ 117.9000, 117.9010 or 117.9020 as a functionally identical replacement for an existing unit or group of units and limited to the cumulative MRC of the units replaced:

Code	Description
N/A	NOx emission limit in 30 TAC § 117.105 applies for purposes of 30 TAC Chapter 117

NOx Emission Limit Basis:
Select one of the following options for complying with the nitrogen oxides (NOx) emission limit. Enter the code on the form.

Code	Description
30DAY	Complying with the applicable emission limit in lb/MMBtu on a rolling 30-day average
BLK1-LB	Complying with the applicable emission limit using a block one-hour average
OTHER	Other emission limit basis

NOx Reduction:
Select one of the following NOx reduction options. Enter the code on the form.

Code	Description
FRCFG	Forced flue gas recirculation
INDFG	Induced flue gas recirculation
WATER	Water or steam injection
POST1	Post combustion control technique with ammonia or urea injection
POST2	Post combustion control technique with chemical reagent injection other than ammonia or urea
OTHER	Other NOx reduction method
NONE	No NOx reduction

★ **Complete "Common Stack Combined" only if the unit is located in the Beaumont/Port Arthur ozone nonattainment area**

Common Stack Combined:
Enter "YES" if the unit is vented through a common stack; the total rated heat input from combined units is greater than or equal to 250 MMBtu/hr: and the annual combined heat input is greater than 2.2 (10^{11}) Btu/yr. Otherwise, enter "NO."

★ **Complete "Fuel Type Heat Input" only if "NOx Emission Limitation" is "APES" (Beaumont/Port Arthur ozone nonattainment area).**

Fuel Type Heat Input:
Select one of the following options for the fuel type heat input. Enter the code on the form.

Code	Description
GAS50	Process heater is fired with gaseous and liquid fuel, and derives more than 50% annual heat input from gaseous fuel
LIQ50	Process heater is fired with gaseous and liquid fuel, and derives more than 50% annual heat input from liquid fuel
SLDCOMBO	Process heater is fired with a combination of either gaseous and solid fuels or of liquid and solid fuels
NONE	Process heater is not fired with any of the above combinations

Note: Process heaters that derive exactly 50% annual heat input from gaseous fuel and 50% from liquid fuel may choose either GAS50 or LIQ50.

NOx Monitoring System:
Select the appropriate code to indicate the type of monitoring used. Enter the code on the form.

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
75ARCCEMS	Continuous emissions monitoring system, used to comply with Title 40 Code of Federal Regulations Part 75 (40 CFR Part 75) (pertaining to Acid Rain)
75ARPPEMS	Predictive emissions monitoring system, used to comply with 40 CFR Part 75 (pertaining to Acid Rain)

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, Process Heaters

Unit ID No.:
Enter the identification number (ID No.) for the unit (maximum 14 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP/GOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). General operating permit (GOP) applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP and GOP index numbers, please see the Completing FOP Applications – Additional Guidance on the TCEQ website at www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html.

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 NOx and diluent 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 NOx and diluent 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)

★ **Do not complete "CO Emission Limitation" or "CO Monitoring System" if "Unit Type" is "BIF" and "NOx Emission Limitation" is "310D."**

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 process heaters located in the Beaumont/Port Arthur ozone nonattainment area:

Code	Description
105F	Title 30 TAC § 117.105(f) [relating to Emission Specifications for Reasonably Available Control Technology] (use for units subject to RACT in the Beaumont/Port Arthur ozone nonattainment area)
110C	Title 30 TAC § 117.110(c)(1) [relating to Emission Specifications for Attainment Demonstration] (use for units subject to ESAD requirements in the Beaumont/Port Arthur ozone nonattainment area)
ACSS	Unit is complying with an Alternative Case Specific Specification under Title 30 TAC § 117.125(a)

For PRHTR or PYRO or BIF units located in the Houston/Galveston/Brazoria ozone nonattainment area:

Code	Description
310C	Title 30 TAC § 117.310(c)(1) 400 ppmv option
310CPPMV	Title 30 TAC § 117.310(c)(1) 775 ppmv option for wood-fuel-fired process heaters
ACSS	Unit is complying with an Alternative Case Specific Specification under Title 30 TAC § 117.325(a)

For process heaters located in the Dallas/Fort Worth Eight-Hour ozone nonattainment area:

Code	Description
410C	Title 30 TAC § 117.410(c)(1) [relating to Emission Specifications for Attainment Demonstration] (use for units subject to ESAD requirements in the Dallas/Fort Worth Eight-Hour ozone nonattainment area)
405D	Title 30 TAC § 117.405(d)(1) (use for units subject to Reasonably Available Control Technology (RACT) requirements in Wise County in the Dallas/Fort Worth Eight-Hour ozone nonattainment area)
ACSS	Unit is complying with an Alternative Case Specific Specification under Title 30 TAC § 117.425(a)

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.

Code	Description
CEMS	Continuous emissions monitoring system
PEMS	Predictive emissions monitoring system
OTHER	Other than CEMS or PEMS

★ **Complete "NH3 Emission Limitation" only if "NOx Reduction" is "POST1."**

NH3 Emission Limitation:
Title 30 TAC Chapter 117 provides several methods to be in compliance with the applicable NH3 emission specifications of 30 TAC Chapter 117. Select one of the following options. Enter the code on the form.

For process heaters located in the Beaumont/Port Arthur ozone nonattainment area:

Code	Description
105G	Title 30 TAC § 117.105(g) [relating to Emission Specifications for Reasonably Available Control Technology]
110C	Title 30 TAC § 117.110(c)(2) [relating to Emission Specifications for Attainment Demonstration]
ACSS	Unit is complying with an Alternative Case Specific Specification under Title 30 TAC § 117.125(a)

For PRHTR or PYRO or BIF units 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	Unit is complying with an Alternative Case Specific Specification under Title 30 TAC § 117.325(a)

For process heaters 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]
405D	Title 30 TAC § 117.405(d)(2) [use for units subject to Reasonably Available Control Technology (RACT) requirements in Wise County in the Dallas/Fort Worth Eight-Hour ozone nonattainment area]
ACSS	Unit is complying with an Alternative Case Specific Specification under Title 30 TAC § 117.425

★ **Complete "NH3 Monitoring" only if "NOx Reduction" is "POST1."**

NH3 Monitoring:
Select one of the following options to indicate how the unit is monitored for NH3 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

Table 2: Title 30 Texas Administrative Code Chapter 112 (30 TAC Chapter 112) Control of Air Pollution from Sulfur Compounds

★ **Complete for SOP applications and Municipal Solid Waste Landfill (MSWL) GOP applications only.**
★ **Complete only for liquid fuel-fired heaters or furnaces.**

Unit ID No.:
Enter the identification number (ID No.) for the unit (maximum 14 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP/GOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). General operating permit (GOP) applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP and GOP index numbers, please see the Completing FOP Applications – Additional Guidance on the TCEQ website at www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html.

Effective Stack Height:
Enter "YES" if the effective stack height is less than the standard effective stack height. Otherwise, enter "NO."

Emission Point ID No.:
Enter the identification number (ID No.) of the emission point(s) (maximum 14 characters) to which the process heater or furnace routes emissions. This number should be consistent with the unit identification number listed on Form OP-SUM.

Table 3a: 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, Furnaces

★ **Complete only for sites that are major sources of NOx, as defined in 30 TAC § 117.10, and are located in the Houston/Galveston/Brazoria or Dallas/Fort Worth Eight-Hour ozone nonattainment areas.**

Note: The Dallas/Fort Worth Eight-Hour ozone nonattainment area consists of Collin, Dallas, Denton, Ellis, Johnson, Kaufman, Parker, Rockwall, and Tarrant counties.

Unit ID No.:
Enter the identification number (ID No.) for the unit (maximum 14 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers, please see the Completing FOP Applications – Additional Guidance on the TCEQ website at www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html.

Unit Type:
Select one of the following types of units from the list below. Enter the code on the form.

For units located in the Houston/Galveston/Brazoria ozone nonattainment area:

Code	Description
HTFUR	Metallurgical heat treating furnace
RHFUR	Metallurgical reheat furnace
PLRF	Pulping liquor recovery furnace
INDFUR	Industrial Furnace - Regulated as an existing facility by the EPA in Title 40 Code of Federal Regulations Part 266 (40 CFR Part 266), Subpart H (as was in effect on June 9, 1993)
OTHER	Molten sulfur oxidation furnace or other furnace not listed above

For units located in the Dallas/Fort Worth Eight-Hour ozone nonattainment area:

Code	Description
EARC	Electric arc melting furnace used in steel production
HTFUR	Metallurgical heat treating furnace
RHFUR	Metallurgical reheat furnace
LSCO	Lead smelting blast (cupola) and reverberatory furnaces used in conjunction
GLASS	Container glass melting furnaces
MWCOLD	Mineral wool-type cold-top electric fiberglass melting furnaces
MWREGEN	Mineral wool-type fiberglass regenerative furnaces
MWNON	Mineral wool-type fiberglass non-regenerative gas-fired furnaces
INDFUR	Industrial Furnace - Regulated as an existing facility by the EPA in Title 40 Code of Federal Regulations Part 266 (40 CFR Part 266), Subpart H (as was in effect on June 9, 1993)
PLRFOTHER	Pulping liquor recovery furnace, molten sulfur oxidation furnace or other furnace not listed above

Maximum Rated Capacity:
Select one of the following ranges for maximum rated capacity (MRC), as defined in 30 TAC Chapter 117. Enter the code on the form.

Code	Description
2-	MRC is less than or equal to 2 MMBtu/hr
2-20	MRC is greater than 2 MMBtu/hr but less than 20 MMBtu/hr
20-40	MRC is greater than 20 MMBtu/hr but less than 40 MMBtu/hr
40-100	MRC is greater than or equal to 40 MMBtu/hr but less than 100 MMBtu/hr
100-200	MRC is greater than or equal to 100 MMBtu/hr but less than 200 MMBtu/hr
200+	MRC is greater than or equal to 200 MMBtu/hr

▼ **Do not continue if:**
- **The "Unit Type" is "OTHER;" or**
- **If the "Unit Type" is "HTFUR" or "RHFUR" and "Maximum Rated Capacity" is "2-" or "2-20."**

▼ **Do not continue if:**
- **The site is located in the Dallas/Fort Worth Eight-Hour ozone nonattainment area and "Unit Type" is "EARC," "PLRFOTHER," or "INDFUR;" or**
- **If the "Unit Type" is "GLASS," "MWCOLD," "MWREGEN" or "MWNON" and "Maximum Rated Capacity" is "2".**

NOx Emission Limitation:
Title 30 TAC Chapter 117 provides options to be in compliance with the applicable limitation standards listed in 30 TAC Chapter 117, Subchapter B. Select one of the following options. Enter the code on the form.

Code	Description
310A	Title 30 TAC § 117.310(a) (use for units located in the Houston/Galveston ozone nonattainment area.)
410A	Title 30 TAC § 117.410(a)(8) or (a)(10) (use for units located in the Dallas/Fort Worth Eight Hour ozone nonattainment area)
ACF	Furnace is complying with an annual capacity factor specification under Title 30 TAC §§ 117.310(d)(3) and 117.310(a)(17) or Title 30 TAC § 117.410(a)(14)
SC	Unit is complying with a Source Cap under Title 30 TAC § 117.423(a) (use for units located in the Dallas/Fort Worth Eight-Hour ozone nonattainment area)

★ **Complete "23C-Option" only if "NOx 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.

Code	Description
23C-A	NOx, CO, O_2 (or CO_2) CEMS and a totalizing fuel flow meter per § 17.423(c)(1)(A)
23C-B	PEMS and a totalizing fuel flow meter per § 117.423(c)(1)(B)
23C-C	Rate measured by hourly emission rate testing per or § 117.423(c)(1)(C)

NOx Emission Limit Basis:
Select one of the following options for complying with the nitrogen oxides (NOx) emission limit. Enter the code on the form.

Code	Description
30DAY	Complying with the applicable emission limit in lb/MMBtu on a rolling 30-day average
BLK1-LB	Complying with the applicable emission limit in lb/hr using a block one-hour average
OTHER	Other emission limit basis

NOx Reduction:
Select one of the following NOx reduction options. Enter the code on the form.

Code	Description
WATER	Water or steam injection
POST1	Post combustion control technique with ammonia or urea injection
POST2	Post combustion control technique with chemical reagent injection other than ammonia or urea
OTHER	Other NOx reduction method
NONE	No NOx reduction

NOx Monitoring System:
Select the appropriate code to indicate the type of monitoring used. Enter the code on the form.

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
75ARCCEMS	Continuous emissions monitoring system, used to comply with Title 40 Code of Federal Regulations Part 75 (40 CFR Part 75) (pertaining to Acid Rain)
75ARPPEMS	Predictive emissions monitoring system, used to comply with 40 CFR Part 75 (pertaining to Acid Rain)

Table 3b: 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, Furnaces

★ **Complete only for sites that are major sources of NOx, as defined in 30 TAC § 117.10, and are located in the Houston/Galveston/Brazoria or Dallas/Fort Worth Eight-Hour ozone nonattainment areas.**

Note: The Dallas/Fort Worth Eight-Hour ozone nonattainment area consists of Collin, Dallas, Denton, Ellis, Johnson, Kaufman, Parker, Rockwall, and Tarrant counties.

Unit ID No.:
Enter the identification number (ID No.) for the unit (maximum 14 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers, please see the Completing FOP Applications – Additional Guidance on the TCEQ website at www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html.

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 §§ 117.340(a) or 117.440(a)
X40A2-A	Unit operates with a NOx and diluent CEMS and monitors stack exhaust flow per 30 TAC §§ 117.340(a)(2)(A) or 117.440(a)(2)(A)
X40A2-B	Unit vents to a common stack with a NOx and diluent CEMS and uses a single totalizing fuel flow meter per 30 TAC §§ 117.340(a)(2)(B) or 117.440(a)(2)(B)

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.

Code	Description
310C	Title 30 TAC § 117.310(c)(1) [relating to Emission Specifications for Attainment Demonstration] (use for units in the Houston/Galveston/Brazoria ozone nonattainment area)
410C	Title 30 TAC § 117.410(c)(1) [relating to Emission Specifications for Attainment Demonstration] (use for units requirements in the Dallas/Fort Worth Eight-Hour ozone nonattainment area)
ACSS	Unit is complying with an Alternative Case Specific Specification under Title 30 TAC §§ 117.325(a) or 117.425(a)

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.

Code	Description
CEMS	Continuous emissions monitoring system
PEMS	Predictive emissions monitoring system
OTHER	Other than CEMS or PEMS

▼ **Continue only if "NOx Reduction" is "POST1."**

NH3 Emission Limitation:
Title 30 TAC Chapter 117 provides several methods to be in compliance with the applicable NH3 emission specifications of 30 TAC Chapter 117. Select one of the following options. Enter the code on the form.

Code	Description
310C	Title 30 TAC § 117.310(c)(2) [relating to Emission Specifications for Attainment Demonstration]
410C	Title 30 TAC § 117.410(c)(2) [relating to Emission Specifications for Attainment Demonstration]
ACSS	Unit is complying with an Alternative Case Specific Specification under Title 30 TAC §§ 117.325 or 117.425

NH3 Monitoring:
Select one of the following options to indicate how the unit is monitored for NH3 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

Table 4: Title 30 Texas Administrative Code Chapter 111 (30 TAC Chapter 111), Subchapter A, Division 2: Incineration

Unit ID No.:
Enter the identification number (ID No.) for the unit (maximum 14 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP/GOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). General operating permit (GOP) applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP and GOP index numbers, please see the Completing FOP Applications – Additional Guidance on the TCEQ website at www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html.

Hazardous Waste:
Enter "YES" if the unit combusts hazardous waste as a fuel for energy recovery and the facility accepts hazardous waste as a fuel from off-site sources which involves a commercial transaction or a change of ownership of the waste and the facility is not regulated at 40 CFR Part 264 or 265, Subpart O. Otherwise, enter "NO".

▼ **Continue only if "Hazardous Waste" is "YES."**

Monitor:
Enter "YES" if the unit has a continuous opacity or carbon monoxide monitor (or equivalent). Otherwise, enter "NO."

Table 5a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart EEE: Hazardous Waste Combustors

★ **Complete this table for HCl production furnaces that burn hazardous waste, and are located at an area source or a major source, and do not meet the criteria in Table 1 of § 63.1200(b)**

Unit ID No.:
Enter the identification number (ID No.) for the unit (maximum 14 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers, please see the Completing FOP Applications – Additional Guidance on the TCEQ website at www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html.

Existing Source:
Enter "YES" if the furnace is an existing source (construction or reconstruction commenced on or before April 20, 2004). Otherwise, enter "NO."

Area Source:
Enter "YES" if the furnace is an area source as defined under § 63.2. Otherwise, enter "NO."

★ **Complete "Elective Standards" only if "Area Source" is "YES."**

Elective Standards:
Enter "YES" if the area source is electing to comply with § 63.1218 per § 266.100(b)(3). Otherwise, enter "NO."

DIOXIN/FURAN Standard:
Select one of the following options. Enter the code on the form.

Code	Description
CO-1	Complying with the CO standard in § 63.1218(a)(1) or (b)(1)
THC-1	Complying with the THC standard in § 63.1218(a)(1) or (b)(1)

CO/THC Standard:
Select one of the following options. Enter the code on the form.

Code	Description
CO-5	Complying with the CO standard in § 63.1218(a)(5)(i) or (b)(5)(i)
THC-5	Complying with the THC standard in § 63.1218(a)(5)(ii) or (b)(5)(ii)

TOT-Cl Standard:
Select one of the following options. Enter the code on the form.

Code	Description
PPMV-6	Complying with the 25 ppmv standard in § 63.1218(a)(6)(i) or (b)(6)(i)
SRE-6	Complying with the system removal efficiency (SRE) standard in § 63.1218(a)(6)(ii) or (b)(6)(ii)

Table 5b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart EEE: Hazardous Waste Combustors

Unit ID No.:
Enter the identification number (ID No.) for the unit (maximum 14 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers, please see the Completing FOP Applications – Additional Guidance on the TCEQ website at www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html.

Baghouse:
Enter "YES" if the furnace is equipped with a baghouse. Otherwise, enter "NO."

★ **Complete "PM Detection" only if "Baghouse" is "YES."**

PM Detection:
Enter "YES" if a PM detection system is used. Otherwise, enter "NO."

Dioxin-Listed:
Enter "YES" if the furnace burns the dioxin-listed hazardous wastes F020, F021, F022, F023, F026, or F027. Otherwise, enter "NO."

DRE Previous Test:
Enter "YES" if previous testing was used to document conformance with the DRE standard. Otherwise, enter "NO."

★ **Complete "Feed Zone" only if "DRE Previous Test" is "YES."**

Feed Zone:
Enter "YES" if the source feeds waste at a location other than the normal flame zone. Otherwise, enter "NO."

Table 6a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart DDDDD: Industrial, Commercial, and Institutional Process Heaters

Unit ID No.:
Enter the identification number (ID No.) for the unit (maximum 14 characters) as listed on Form OP SUM (Individual Unit Summary).

SOP/GOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). General operating permit (GOP) applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP and GOP index numbers, please see the Completing FOP Applications – Additional Guidance on the TCEQ website at www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html.

Commence:
Select one of the following construction date options for the source. Enter the code on the form.

Code	Description
NEW	Source is new (commenced construction after June 4, 2010)
RECON	Source is reconstructed (commenced reconstruction after June 4, 2010)
EXIST	Source is existing (commenced construction or reconstruction on or before June 4, 2010)

Table Applicability:
Select one of the following options that describes the applicability of emission limitations in §63.7500(a)(1)-Tables 1 or 2. Enter the code on the form.

Code	Description
SFF10	The unit burns coal/solid fossil fuel AND has heat input equal to or greater than 10 MMBtu/hr (subject to emission limits in Table 1 or 2)
BM10	The unit burns biomass/bio-based solid fuel AND has heat input equal to or greater than 10 MMBtu/hr (subject to emission limits in Table 1 or 2)
HLIQ10	The unit burns heavy liquid fuel AND has heat input equal to or greater than 10 MMBtu/hr (subject to emission limits in Table 1 or 2)
LLIQ10	The unit burns light liquid fuel AND has heat input equal to or greater than 10 MMBtu/hr (subject to emission limits in Table 1 or 2)
GAS210	The unit burns Gas 2 fuel AND has heat input equal to or greater than 10 MMBtu/hr (subject to emission limits in Table 1 or 2)
T3.1LTD	The unit qualifies as a limited use boiler or process heater as defined in §63.7575 (not subject to Table 1 or 2 emission limits but must comply with work practice standards in §63.7500(a)(1)-Table 3.1)
T3.1TS	The unit is designed to utilize a continuous oxygen trim system (not subject to Table 1 or 2 emission limits but must comply with work practice standards in §63.7500(a)(1)-Table 3.1)
T3.1G1	The unit is designed to burn Gas 1 fuel AND has no continuous oxygen trim AND has heat input equal to or less than 5 MMBtu/hr (not subject to Table 1 or 2 emission limits but must comply with work practice standards in §63.7500(a)(1)-Table 3.1)
T3.1G2	The unit is designed to burn Gas 2 fuel AND has heat input equal to or less than 5 MMBtu/hr (not subject to Table 1 or 2 emission limits but must comply with work practice standards in §63.7500(a)(1)-Table 3.1)
T3.1LL	The unit is designed to burn light liquid fuel AND has heat input equal to or less than 5 MMBtu/hr (not subject to Table 1 or 2 emission limits but must comply with work practice standards in §63.7500(a)(1)-Table 3.1)
T3.2G1	The unit is designed to burn Gas 1 fuel AND has no continuous oxygen trim AND has heat input less than 10 MMBtu/hr but greater than 5 MMBtu/hr (not subject to Table 1 or 2 emission limits but must comply with work practice standards in §63.7500(a)(1)-Table 3.2)
T3.2G2	The unit is designed to burn Gas 2 fuel AND has heat input less than 10 MMBtu/hr but greater than 5 MMBtu/hr (not subject to Table 1 or 2 emission limits but must comply with work practice standards in §63.7500(a)(1)-Table 3.2)
T3.2LL	The unit is designed to burn light liquid fuel AND has heat input less than 10 MMBtu/hr but greater than 5 MMBtu/hr (not subject to Table 1 or 2 emission limits but must comply with work practice standards in §63.7500(a)(1)-Table 3.2)T3.2HL The unit is designed to burn heavy liquid fuel AND has heat input less than 10 MMBtu/hr (not subject to Table 1 or 2 emission limits but must comply with work practice standards in §63.7500(a)(1)-Table 3.2)
T3.2S	The unit is designed to burn solid fuel AND has heat input less 10 MMBtu/hr (not subject to Table 1 or 2 emission limits but must comply with work practice standards in §63.7500(a)(1)-Table 3.2)
T3.3G1	The unit is designed to burn Gas 1 fuel AND has no continuous oxygen trim AND has heat input equal to or greater than 10 MMBtu/hr (not subject to Table 1 or 2 emission limits but must comply with work practice standards in §63.7500(a)(1)-Table 3.3)

▼ **Continue only if "Table Applicability" is "SFF10", "BM10", "HLIQ10", "LLIQ10", or "GAS210."**

HCl Emission:
Select one of the following hydrogen chloride emission limit options. Enter the code on the form.

Code	Description
BTU-HCL	Emission limits for HCl in pounds per MMBtu heat input
STM-HCL	Emission limits for HCl in pounds per MMBtu steam output (for steam generating units only)
MWH-HCL	Emission limits for HCl in pounds per MWh power output (for boilers that generate electricity only)

HCl-CMS:
Select one of the following hydrogen chloride continuous monitoring system (CMS) options. Enter the code on the form.

Code	Description
NONE	A CMS is not being used
HCL-CEMS	An HCl CEMS is used
SO2-CEMS	An SO_2 CEMS is used

Table 6b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart DDDDD: Industrial, Commercial, and Institutional Process Heaters

★ **Complete this table only if "HCl-CMS" is "NONE."**

Unit ID No.:
Enter the identification number (ID No.) for the unit (maximum 14 characters) as listed on Form OP SUM (Individual Unit Summary).

SOP/GOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). General operating permit (GOP) applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP and GOP index numbers, please see the Completing FOP Applications – Additional Guidance on the TCEQ website at www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html.

HCl-CD:
Select one of the following hydrogen chloride control device options. Enter the code on the form.

Code	Description
DS	Dry scrubber is being used
WAS	A wet acid scrubber is used
PWS-PH	A particulate wet scrubber with pH effluent operating limit
OTHER	Other control methods are being used
NONE	A control device is not used

HCl-Test:
Select one of the following hydrogen chloride performance test options. Enter the code on the form.

Code	Description
PT	Compliance is demonstrated by conducting a performance test for HCl
NPT	A performance test is not being used

HCl-FA:
Select one of the following hydrogen chloride fuel analysis options. Enter the code on the form.

Code	Description
FA	Compliance is demonstrated by conducting fuel analysis for HCl
NFA	Fuel analysis is not being used

HCl-FloMon:
Select one of the following hydrogen chloride flow monitoring system options. Enter the code on the form.

Code	Description
FMS	Operating limit requires a flow monitoring system for HCl
NFMS	Flow monitoring system is not required for HCl

HCl-pHMon:
Select one of the following hydrogen chloride pH monitoring system options. Enter the code on the form.

Code	Description
PHMON	Operating limit requires a pH monitoring system for HCl
NPH	A pH monitoring system is not required for HCl

Table 6c: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart DDDDD: Industrial, Commercial, and Institutional Process Heaters

Unit ID No.:
Enter the identification number (ID No.) for the unit (maximum 14 characters) as listed on Form OP SUM (Individual Unit Summary).

SOP/GOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). General operating permit (GOP) applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP and GOP index numbers, please see the Completing FOP Applications – Additional Guidance on the TCEQ website at www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html.

Hg Emission:
Select one of the following hydrogen chloride emission limit options. Enter the code on the form.

Code	Description
BTU-HG	Emission limits for Hg in pounds per MMBtu heat input
STM-HG	Emission limits for Hg in pounds per MMBtu steam output (for steam generating units only)
MWH-HG	Emission limits for Hg in pounds per MWh power output (for boilers that generate electricity only)

Hg-InjRate:
Enter “YES” if an operating limit requires a monitoring system to measure sorbent injection rate for Hg. Otherwise, enter “NO.”

Hg-CMS:
Select one of the following mercury continuous monitoring system (CMS) options. Enter the code on the form.

Code	Description
NONE	A CMS is not being used
HG-CEMS	An Hg CEMS is used
HGCMS	A CMS other than an Hg CEMS is used

▼ **Continue on Table 6c only if "Hg-CMS" is "NONE". If "Hg-CMS" is HG-CEMS" or "HGCMS," skip to Table 6d.**

Hg-CD:
Select one of the following mercury control device options. Enter the code on the form.

Code	Description
DS	Dry scrubber is being used
WAS	A wet acid scrubber is used
ESP-WS	An electrostatic precipitator with a wet scrubber is used
ACI	Activated carbon injection is used
OTHER	Other control methods are being used
NONE	A control device is not used

Hg-Test:
Select one of the following Hg performance test options. Enter the code on the form.

Code	Description
PT	Compliance is demonstrated by conducting a performance test for Hg.
NPT	A performance test is not being used.

Hg-FA:
Select one of the following Hg fuel analysis options. Enter the code on the form.

Code	Description
HGFA	Compliance is demonstrated by conducting fuel analysis for Hg.
NFA	Fuel analysis is not being used.

Table 6d: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart DDDDD: Industrial, Commercial, and Institutional Process Heaters

Unit ID No.:
Enter the identification number (ID No.) for the unit (maximum 14 characters) as listed on Form OP SUM (Individual Unit Summary).

SOP/GOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). General operating permit (GOP) applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP and GOP index numbers, please see the Completing FOP Applications – Additional Guidance on the TCEQ website at www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html.

★ **Complete "BM Subcategory" only if "Table Applicability" is "BM10."**

BM Subcategory:
Select one of the following options that describes subcategory of the boiler or process heater as listed in §63.7499. Enter the code on the form.

Code	Description
7499(I)	The unit is a stoker/sloped grate/other unit designed to burn wet biomass/bio-based solid
7499(D)	The unit is a stoker/sloped grate/other unit designed to burn kiln dried biomass/bio-based solid
7499(E)	The unit is a fluidized bed designed to burn biomass/bio-based solid
7499(F)	The unit is a suspension burner designed to burn biomass/bio-based solid
7499(J)	The unit is a Dutch oven/pile burner designed to burn biomass/bio-based solid
7499(G)	The unit is a fuel cell designed to burn biomass/bio-based solid
7499(H)	The unit is a hybrid suspension/grate burner designed to burn wet biomass/bio-based solid

PM/TSM Emission:
Select one of the following particulate matter or total selected metals emission limit options. Enter the code on the form.

Code	Description
BTU-PM	Emission limits for PM in pounds per MMBtu heat input
BTU-TSM	Emission limits for TSM in pounds per MMBtu heat input
STM-PM	Emission limits for PM in pounds per MMBtu steam output (for steam generating units only)
STM-TSM	Emission limits for TSM in pounds per MMBtu steam output (for steam generating units only)
MWH-PM	Emission limits for PM in pounds per MWh power output (for boilers that generate electricity only)
MWH-TSM	Emission limits for TSM in pounds per MWh power output (for boilers that generate electricity only)

▼ **Continue on Table 6d only if "PM/TSM-Emission" is "BTU-TSM", "STM-TSM", or "MWH-TSM.". If "PM/TSM Emission" is "BTU-PM," "STM-PM," or "MWH-PM," skip to Table 6e.**

TSM-CMS:
Select one of the following continuous monitoring system (CMS) options. Enter the code on the form.

Code	Description
TSMCEMS	TSM CEMS is used
TSMCMS	TSM CMS other than a TSM CEMS is used
NONE	CMS is not being used

▼ **Continue on Table 6d only if "TSM-CMS" is "NONE". If "TSM-CMS" is "TSMCEMS" or "TSMCMS," skip to Table 6e.**

TSM-Test:
Select one of the following TSM performance test options. Enter the code on the form.

Code	Description
PT	Compliance is demonstrated by conducting a performance test for TSM
NPT	A performance test is not being used

TSM-FA:
Select one of the following TSM fuel analysis options. Enter the code on the form.

Code	Description
FA	Compliance is demonstrated by conducting fuel analysis for TSM
NFA	Fuel analysis is not being used

Table 6e: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart DDDDD: Industrial, Commercial, and Institutional Process Heaters

★ **Complete this table only if "only if "PM/TSM Emission" is "BTU-PM," "STM-PM," or "MWH-PM."**

Unit ID No.:
Enter the identification number (ID No.) for the unit (maximum 14 characters) as listed on Form OP SUM (Individual Unit Summary).

SOP/GOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). General operating permit (GOP) applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP and GOP index numbers, please see the Completing FOP Applications – Additional Guidance on the TCEQ website at www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html.

★ **Complete "PM-250" only if "Table Applicability" is "SFF10" or "HLL10."**

PM-250:
Select one of the following options for the average annual heat input. Enter the code on the form.

Code	Description
250+	Average annual heat input rate is greater than 250 MMBtu per hour from solid fossil fuel and/or heavy liquid fuel
250-	Average annual heat input rate is less than or equal to 250 MMBtu per hour from solid fossil fuel and/or heavy liquid fuel

PM-CMS:
Select one of the following continuous monitoring system (CMS) options. Enter the code on the form.

Code	Description
PMCEMS	PM CEMS is used
PMCMS	PM CMS other than a PM CEMS is used
PMCPMS	PM CPMS is used to monitor a PM control device
NONE	CMS is not being used. (not a valid entry if "PM-250" is "250+")

▼ **Continue on Table 6e only if "PM-CMS" is "NONE" or "PMCMS". If "PM-CMS" is "PMCEMS" or "PMCPMS," skip to Table 6f.**

PM-CD:
Select one of the following PM control device options. Enter the code on the form.

Code	Description
BLD	A Fabric Filter with a bag leak detection system is used
WS	A Wet Scrubber is used
ESP-WS	An Electrostatic Precipitator with a Wet Scrubber is used
OTHER	Other control methods are being used
NONE	A control device is not used

PM-Test:
Select one of the following PM performance test options. Enter the code on the form.

Code	Description
PT	Compliance is demonstrated by conducting a performance test for PM
NPT	A performance test is not being used

PM-FM:
Select one of the following flow monitoring options. Enter the code on the form.

Code	Description
FM	Operating limit requires the use of a flow monitoring system
NFM	A flow monitoring system is not required

PM-PMON:
Select one of the following pressure monitoring system options. Enter the code on the form.

Code	Description
PMON	Operating limit requires the use of a pressure monitoring system
NO	A pressure monitoring system is not required

Table 6f: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart DDDDD: Industrial, Commercial, and Institutional Process Heaters

★ **Complete this table only if "TSM-CMS" is "NONE" or "PM-CMS" is PMCMS" or "NONE."**

Unit ID No.:
Enter the identification number (ID No.) for the unit (maximum 14 characters) as listed on Form OP SUM (Individual Unit Summary).

SOP/GOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). General operating permit (GOP) applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP and GOP index numbers, please see the Completing FOP Applications – Additional Guidance on the TCEQ website at www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html.

Opacity-CD:
Select one of the following control device options. Enter the code on the form.

Code	Description
BLD	A fabric filter with a bag leak detection system is used
FF	A fabric filter without a bag leak detection system is used
ESP-WS	An electrostatic precipitator with a wet scrubber is used
ESP	An electrostatic precipitator without a wet scrubber is used
DRY	A dry control system is used
OTHER	Other control methods are being used
NONE	A control device is not used

▼ **Continue on Table 6f only if "Opacity-CD" is "FF", "ESP", or "DRY." If "Opacity-CD" is "BLD," "ESP-WS," "OTHER," or "NONE," skip to Table 6g.**

COMS:
Select one of the following continuous opacity monitoring options. Enter the code on the form.

Code	Description
COMS	A continuous opacity monitoring system is used
NOCOMS	A continuous opacity monitoring system is not used

▼ **Continue on Table 6f only if "COMS" is "NOCOMS." If "COMS" is "COMS," skip to Table 6g.**

OPT-Test:
Select one of the following opacity performance test options. Enter the code on the form.

Code	Description
OPT	Compliance is demonstrated by conducting a performance test for opacity
NPTO	A performance test is not being used

Table 6g: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63), Subpart DDDDD: Industrial, Commercial, and Institutional Process Heaters

Unit ID No.:
Enter the identification number (ID No.) for the unit (maximum 14 characters) as listed on Form OP SUM (Individual Unit Summary).

SOP/GOP Index No.:
Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). General operating permit (GOP) applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP and GOP index numbers, please see the Completing FOP Applications – Additional Guidance on the TCEQ website at www.tceq.texas.gov/permitting/air/guidance/titlev/tv_fop_guidance.html.

★ **Complete "SFF Subcategory" only if "Table Applicability" is "SFF10."**

SFF Subcategory:

Select one of the following options that describes subcategory of the boiler or process heater as listed in § 63.7499. Enter the code on the form.

Code	Description
7499(A)	The unit is a pulverized coal/solid fossil fuel unit
7499(B)	The unit is a stoker designed to burn coal/solid fossil fuel
7499(C)	The unit is a fluidized bed unit designed to burn coal/solid fossil fuel (without integrated heat exchanger)
7499(S)	The unit is a fluidized bed unit with an integrated fluidized bed heat exchanger designed to burn coal/solid fossil fuel
SUBNA	The unit is not part of the subcategories in § 63.7499(a), (b), (c) or (s)

CO Emission:

Select one of the following CO emission limit options. Enter the code on the form.

Code	Description
PPM-CO	Emission limits for CO in ppm by volume not using a CEMS (valid code only if "Table Applicability" is "SFF10" or if "BM Subcategory" is ""7499(I)", "7499(E)", "7499(F)", "7499(J)" or "7944(H)"
CEM-CO	Emission limits for CO in ppm by volume using a CEMS (valid code only if "Table Applicability" is "SFF10" or if "BM Subcategory" is ""7499(I)", "7499(E), "7499(F)", "7499(J)", or "7944(H)"
PPM	Emission limits for CO in ppm by volume (valid code only if "Table Applicability" is "HLIQ10" or "LLIQ10", or "GAS2" or "BM Subcategory" is ""7499(D)", or "7499(G)"
STM-CO	Emission limits for CO in pounds per MMBtu steam output (for steam generating units only).
MWH-CO	Emission limits for CO in pounds per MWh power output (for boilers that generate electricity only)

▼ **Continue only if "CO Emission" is "PPM-CO," "PPM," "STM-CO," or "MWH-CO."**

CO-CMS:

Select one of the following continuous monitoring system (CMS) options. Enter the code on the form.

Code	Description
COCMS	CO CMS is used
NONE	CMS is not being used

CO-Test:

Select one of the following CO performance test options. Enter the code on the form.

Code	Description
PT	Compliance is demonstrated by conducting a performance test for CO
NPT	A performance test is not being used