



Texas Commission on Environmental Quality
Form OP-UA6 - Instructions
Boiler/Steam Generator/Steam Generating Unit Attributes

General:

This form is used to provide a description and data pertaining to all combustion equipment used to produce steam including, but not limited to, boilers, steam generators, and steam generating units with potentially applicable requirements associated with a particular regulated entity number and application. Some data items must be completed for all boilers, steam generators, and steam generating units. Other items are only required to be completed for boilers, steam generators, and steam generating units meeting the specific criteria shown in the instructions below.

For each steam generating unit which is potentially applicable to a subpart of the D-Series, the applicant need only complete the table to which they are potentially subject. The other D-series tables need not be submitted, however, notes are included in the instructions which may give direction to other tables applicable to the unit if certain codes or instructions are given. The notes can be used as a road map to follow in deciding which tables must be filled out and which ones should be omitted.

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 combustion unit, then it should be left blank and need not be submitted with the application. The following boilers, steam generators, and steam generating units 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), boilers and water heaters 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, boilers and 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 correspond to the rule. Further instruction as to which questions should be answered and which questions should not be answered are located in the "Specific" section of the instruction text. The following is included in this form:

Tables 1a - 1b:	Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart D: Standards of Performance for Fossil Fuel-Fired Steam Generators
Tables 2a - 2c:	Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart Da: Standards of Performance for Electric Utility Steam Generating Units
Tables 3a - 3e:	Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart Db: Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units
Tables 4a - 4b:	Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) Subpart Dc: Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units
Tables 5a - 5c:	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
Tables 6a - 6b:	Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117) Subchapter C: Combustion Control at Major Utility Electric Generation Sources in Ozone Nonattainment Areas
Table 7:	Title 30 Texas Administrative Code Chapter 112 (30 TAC Chapter 112) Control of Air Pollution from Sulfur Compounds
Table 8a - 8c:	Title 30 Texas Administrative Code Chapter 113 (30 TAC Chapter 113) Subchapter D, Hospital/Medical Infectious Waste Incinerators
Tables 9a - 9b:	Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117) Subchapter E, Division 1: Utility Electric Generation in East and Central Texas
Tables 10a–10b:	Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63) Subpart EEE: Hazardous Waste Combustors
Table 11:	Title 30 Texas Administrative Code Chapter 111 (30 TAC Chapter 111) Subchapter A, Division 2: Incineration
Table 12:	Title 30 Texas Administrative Code Chapter 111 (30 TAC Chapter 111) Subchapter A, Division 5: Emission Limits on Nonagricultural Sources

Note: Form OP-UA15 (Emission Point/Stationary Vent, Distillation Vent/VOC Process Vent Attributes) Emission Points, Table 1: Title 30 TAC Chapter 111 must also be completed for all combustion units operated to generate steam.

The Texas Commission on Environmental Quality (TCEQ) Regulated Entity Number (RNXXXXXXXXXX) 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.

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 Web site at www.tceq.texas.gov/permitting/central_registry/index.html.

Specific:

**Table 1a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart D: Standards of Performance for Fossil Fuel-Fired Steam Generators**

★ **Complete for site operating permit (SOP) applications only.**

Note: Per TCEQ Rule Interpretation Number 60D.004, steam generating units greater than 73 MW (250 MMBtu/hr) and constructed after June 19, 1986 are not subject to 40 CFR Part 60, Subpart D. Therefore, Tables 1a - 1b should not be completed for these units. However, these units are potentially subject to 40 CFR Part 60, Subpart Db. Tables 3a - 3d should be completed as necessary.

Unit ID No.:

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

SOP Index No.:

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

Construction/Modification Date:

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

<u>Code</u>	<u>Description</u>
71-	On or before August 17, 1971
71-76	After August 17, 1971, and on or before December 22, 1976
76-78	After December 22, 1976, and on or before September 18, 1978
78+	After September 18, 1978

▼ Continue only if “Construction/Modification Date” is “71-76,” “76-78,” or “78+.”

Covered Under Subpart Da:

Enter “YES” if the steam generating unit is covered under 40 CFR Part 60, Subpart Da. Otherwise, enter “NO.”

▼ Continue only if “Covered Under Subpart Da” is “NO.” If “Covered under Subpart Da” is “YES,” complete Table 2a.

Changes to Existing Affected Facility:

Enter “YES” if a change has been made to the existing fossil fuel-fired steam generating unit, which was not previously subject to Subpart D, to accommodate the use of combustible materials other than fossil fuels. Otherwise, enter “NO.”

▼ Continue only if “Changes to Existing Affected Facility” is “NO.”

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

<u>Code</u>	<u>Description</u>
250-	Heat Input Rate is less than or equal to 250 MMBtu/hr (73 MW)
250+	Heat Input Rate is greater than 250 MMBtu/hr (73 MW)

★ Complete Table 3a if “Construction/Modification Date” is “78+” and “Heat Input Rate” is “250-.”

▼ Continue only if “Heat Input Rate” is “250+.”

Alternate 42C:

Enter “YES” if the facility is meeting § 60.42Da(a) [per § 60.42(c)] as an alternate to meeting the requirements of § 60.42(a) for PM. Otherwise, enter “NO.”

PM CEMS:

Enter “YES” if the facility uses a CEMS to measure PM. Otherwise, enter “NO.”

Gas or Liquid Fuel Only:

Enter “YES” if the facility burns only gaseous or liquid fossil fuel (excluding residual oil) with potential SO2 emissions rates of 0.060 lb/MMBtu or less, does not use post combustion technology to reduce emissions of SO2 or PM, and monitors SO2 emissions by fuel sampling and analysis or fuel receipts. Otherwise, enter “NO.”

Fuels with 0.30 Percent or Less Sulfur:

Enter “YES” if the facility does not use post combustion technology (except a wet scrubber) for reducing PM, SO₂, or CO emissions, burns only gaseous fuels or fuel oils that contain less than or equal to 0.30 weight percent sulfur, and is operated such that emissions of CO are maintained at levels less than or equal to 0.15 lb/MMBtu on a boiler operating day average basis. Otherwise, enter “NO.”

PM CEMS Petition:

Enter “YES” if a petition has been granted to install a PM CEMS as an alternative to the CEMS for monitoring opacity emissions. Otherwise, enter “NO.”

**Table 1b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart D: Standards of Performance for Fossil Fuel-Fired Steam Generators**

★ **Complete for SOP applications only.**

Unit ID No.:

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

SOP Index No.:

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

D-Series Fuel Type:

Select one or more of the following options for fuel type(s) used to fire the boiler, steam generator, or steam generating unit. Enter the code(s) on the form. In some cases, several fuel type code options could appropriately describe a single fuel being combusted (e.g., distillate oil). In these instances, select one fuel type code which best represents the fuel being combusted. Enter the code on the form.

<u>Code</u>	<u>Description</u>
WD	Wood-residue
LG	Lignite
CR25	Fossil fuel containing at least 25%, by weight, of coal refuse
LG25	Fossil fuel containing at least 25% of lignite mined in North Dakota, South Dakota, or Montana
GFF	Gaseous fossil fuel
SFF	Other solid fossil fuel
LFF	Liquid fossil fuel
NFF	Other non-fossil fuel

If a fuel-firing option consists of multiple fuel types being combusted simultaneously, enter the D-Series 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. If multiple fuels that use the same code are simultaneously combusted, then enter the code once for each fuel (see “Fuel-firing Option A” for an example of multiple gaseous fossil fuels combusted simultaneously).

Example:

Fuel-firing Option A:

Fuel-firing Option B

Fuel-firing Option C

SOP Index No.	D-Series Fuel Type	D-Series Fuel Type	D-Series Fuel Type
60D-1A	GFF	GFF	GFF
60D-1B	GFF		
60D-2	WD	LG25	
60D*3	LG	SFF	NFF

▼ Continue only if “D-Series Fuel Type” is not “WD,” “NFF,” or “WD,” and “NFF” in combination.

Alternate 43D:

Select one of the following options for alternate SO2 requirements. Enter the code on the form.

<u>Code</u>	<u>Description</u>
43DAI3	Facility is meeting § 60.43Da(i)(3) [per § 60.43(d)] as an alternate to meeting the requirements of § 60.43(a) and (b) for SO2.
42BK4	Facility is meeting § 60.42b(k)(4) [per § 60.43(d)] as an alternate to meeting the requirements of § 60.43(a) and (b) for SO2.
NONE	No alternative requirement is used) for SO ₂ .

Alternate 44E:

Enter “YES” if the facility is meeting § 60.44Da(e)(3) [per § 60.44(e)] as an alternate to meeting the requirements of § 60.44(a), (b), and (d) for NOx. Otherwise, enter “NO.”

Flue Gas Desulfurization:

Enter “YES” if the unit utilizes a flue gas desulfurization device. Otherwise, enter “NO.”

Fuel Sampling and Analysis:

Enter “YES” if the unit uses fuel sampling and analysis for monitoring of sulfur dioxide emissions. Otherwise, enter “NO.”

Cyclone-Fired Unit:

Enter “YES” if the unit is a cyclone-fired unit. Otherwise, enter “NO.”

NOx Monitoring Type:

Enter “YES” if it was demonstrated during the performance test that emissions of NOx are less than 70% of applicable standards in 40 CFR § 60.44. Otherwise, enter “NO.”

**Table 2a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Da: Standards of Performance for Electric Utility Steam Generating Units**

★ **Complete this table for electric utility steam generating units and SOP applications only.**

Unit ID No.:

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

SOP Index No.:

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

Construction/Modification Date:

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

<u>Code</u>	<u>Description</u>
78-	On or before September 18, 1978
78-97	After September 18, 1978, and on or before July 9, 1997
97-05C	Constructed after July 9, 1997, and on or before February 28, 2005
97-05R	Reconstructed after July 9, 1997, and on or before February 28, 2005
05+C	Constructed after February 28, 2005
05+R	Reconstructed after February 28, 2005
05+M	Modified after February 28, 2005

▼ **Continue only if “Construction/Modification Date” is NOT “78-.”**

Heat Input of Fossil Fuel:

Select one of the following options for the heat input of fossil fuel alone or in combination with any other fuel. Enter the code on the form.

<u>Code</u>	<u>Description</u>
250-	Heat input of fossil fuel is less than or equal to 250 MMBtu/hr (73 MW)
250+	Heat input of fossil fuel is greater than 250 MMBtu/hr (73 MW)

★ **Complete Table 3a if “Heat Input of Fossil Fuel” is “250-.” Do not Complete the Remainder of Table 2.**

D-Series Fuel Type:

Select one or more of the following options for fuel type(s) used to fire the boiler, steam generator, or steam generating unit. Enter the code(s) on the form. In some cases, several fuel type code options could appropriately describe a single fuel being combusted (e.g., distillate oil). In these instances, select one fuel type code which best represents the fuel being combusted. Enter the code on the form.

<u>Code</u>	<u>Description</u>
NG	Natural gas
ACL	Anthracite coal
SRC	Solvent refined coal (SRC-I)
LCL	Liquefied coal
SFF	Solid fossil fuel
LFF	Liquid fossil fuel
GFF	Gaseous fossil fuel
SNFF	Solid non-fossil fuel

<u>Code</u>	<u>Description</u>
LNFF	Liquid non-fossil fuel
GNFF	Gaseous non-fossil fuel
SSDFF	Other solid fossil fuel derived from another solid fossil fuel
LSDFF	Other liquid fossil fuel derived from another solid fossil fuel
GSDDFF	Other gaseous fossil fuel derived from another solid fossil fuel
SSDNFF	Solid fuel derived from a solid non-fossil fuel
LSDNFF	Liquid fuel derived from a solid non-fossil fuel
GSDNFF	Gaseous fuel derived from a solid non-fossil fuel

If a fuel-firing option consists of multiple fuel types being combusted simultaneously, enter the D-Series 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. If multiple fuels that use the same code are simultaneously combusted, then enter the code once for each fuel (See Fuel-firing Option A: for an example of multiple gaseous fossil fuels derived from a solid non-fossil fuel combusted simultaneously).

Example:

Fuel-Firing Option A:

Fuel-firing Option B:

Fuel-firing Option C:

SOP Index No.	D-Series Fuel Type	D-Series Fuel Type	D-Series Fuel Type
60DA-1A	GSDNFF	GSDNFF	GSDNFF
60DA-1B	GSDNFF		
60DA-2	NG	ACL	
60DA-3	LCL	SSDDFF	LSDFF

Changes to Existing Affected Facility:

Enter “YES” if a change has been made to the existing fossil fuel-fired steam generating unit, which was not previously subject to 40 CFR Part 60, Subpart Da, to accommodate the use of combustible materials other than fossil fuels or enter “YES2” if a change has been made to the existing steam generating unit, which was not previously subject to 40 CFR Part 60, Subpart Da and was originally designed to fire gaseous or liquid fossil fuels, to accommodate the use of any other fuel (fossil or non-fossil). Otherwise, enter “NO.”

- ▼ Continue only if “Changes to Existing Affected Facility” is “NO.”
- ★ Complete “Percent (%) Coal Refuse” only if “Construction/Modification Date” is “05+C,” “05+R” or “05+M.”

Percent (%) Coal Refuse:

Enter “YES” if the facility burns 75% or more coal refuse on a 12-month rolling average basis. Otherwise, enter “NO.”

Combined Cycle Type:

Select one of the following combined cycle type options. Enter the code on the form.

<u>Code</u>	<u>Description</u>
IGCC	Integrated gasification combined cycle gas turbine electric utility steam generating unit.
COMCYC	Combined cycle gas turbine (other than an IGCC) that is not subject to NSPS KKKK
KKKK	Combined cycle gas turbine (other than an IGCC) that is subject to NSPS KKKK.
OTHER	Not a combined cycle gas turbine

- ▼ Do NOT continue if “Combined Cycle Type” is “KKKK.”
- ▼ Do NOT continue if “Combined Cycle Type” is “IGCC” and “Construction/Modification Date” is “78 97,” “97-05C” or “97-05R.”
- ★ Complete “PM Standard” only if “Construction/Modification Date” is “05+C,” “05+R” or “05+M.”

PM Standard:

Select one of the following PM standards. Enter the code on the form.

<u>Code</u>	<u>Description</u>
ALT-D	§ 60.42Da(d) alternative to § 60.42Da(c)(1) or (2)
C1	Output based § 60.42Da(c)(1)
C2	Input based § 60.42Da(c)(2)

**Table 2b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Da: Standards of Performance for Electric Utility Steam Generating Units**

Unit ID No.:

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

SOP Index No.:

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

★ **Complete “NOx Standard” only if “Combined Cycle Type” is “IGCC.”**

NOx IGCC Standard:

Select one of the following options for NOx Standard applicable to the IGCC. Enter the code on the form.

<u>Code</u>	<u>Description</u>
LIQ+50	The facility burns liquid fuel exclusively or in combination with solid-derived fuel such that liquid fuel contributes 50% or more of the total heat input
LIQVAR	The facility, during a 30-day rolling average compliance period, burns liquid fuel in combination with solid-derived fuel such the liquid fuel contributes 50% or more of the total heat input for only a portion of the clock hours in the 30-day period.
LIQ-50	Neither of the above (liquid fuel is less than 50% of the total heat input).

Unit Type:

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

<u>Code</u>	<u>Description</u>
RESREC	Resource recovery unit
OTHER	Other unit type

Monitoring Type:

Designate the monitoring option for each pollutant. Select only the type(s) of monitoring applicable under 40 CFR Part 60, Subpart Da. If no monitoring is required for a specified pollutant, leave the column blank.

PM:

Select one of the following monitoring options for particulate matter. Enter the code on the form.

Note: PM Monitoring type need not be completed if “PM Standard” is “C1”

<u>Code</u>	<u>Description</u>
PMCEMS	Continuous emission monitoring system (CEMS) per § 60.49Da(v)
EP-PMOD	An electrostatic precipitator is used for PM control and PM monitored using a predictive model per § 60.48Da(o)(3)
BH-LDET	A baghouse is used for PM control and PM monitored using a leak detection per § 60.48Da(o)(4)
EPBH-COMS	An electrostatic precipitator or a baghouse is used for PM control and PM monitored using COMS per § 60.48Da(o)(2)
OTHERPM	Other than above options

Opacity:

Select one of the following monitoring options for opacity. Enter the code on the form.

<u>Code</u>	<u>Description</u>
CMS	Continuous monitoring system for opacity (COMS)
ALT-A2I	The facility uses a fabric filter with a leak detection system installed per § 60.49Da(a)(2)(i) to meet § 60.42Da and elects to monitor opacity per § 60.49Da(a)(3)
ALT-A2II	The facility does not use a post-combustion technology for SO ₂ or PM and burns gaseous or liquid fuels meeting specifications in § 60.49Da(a)(2)(ii) and elects to monitor opacity per § 60.49Da(a)(3)
ALT-A2III	The facility does not use a post-combustion technology (except a wet scrubber) for PM, SO ₂ or CO and burns gaseous fuels or fuel oils meeting specifications in § 60.49Da(a)(2)(iii)(A)-(C) and elects to monitor opacity per § 60.49Da(a)(3)
NONE	No monitoring for opacity (use if PM monitoring is "PMCEMS")

SO₂:

Select one of the following monitoring options for sulfur dioxide (SO₂). Enter the code on the form.

<u>Code</u>	<u>Description</u>
ASFRD	As-fired sampling [§ 60.49Da(b)(3)]
CEM	Continuous emission monitoring system [§ 60.49Da(b)(1) or (b)(2)]
CEMS75	Continuous emission monitoring system installed to meet the requirements of Part 75 [§ 60.49Da(b)(4)]

NO_x:

Select one of the following monitoring options for nitrogen oxides (NO_x). Enter the code on the form.

<u>Code</u>	<u>Description</u>
CEMS	Continuous emission monitoring system
CEMS75	Continuous emission monitoring system installed to meet the requirements of Part 75
PERF	Performance test method per § 60.48Da(j)(1) or (k)(1)

Commercial Demonstration Permit:

Enter "YES" if the EPA Administrator has issued a commercial demonstration permit (CDP). Otherwise, enter "NO."

- ★ **Do not complete "SO₂ Emission Rate" if "D-Series Fuel Type" is only "ACL" OR "SRC"; or if "Construction/Modification Date" is "05+C," "05+R" or "05+M."**

SO₂ Emission Rate:

Select one of the following options for the SO₂ emission rate. Enter the code on the form for each fuel firing option.

<u>Code</u>	<u>Description</u>
86-	SO ₂ emission rate is less than 0.20 lb/MMBtu (86 ng/J) heat input
86-260	SO ₂ emission rate is greater than or equal to 0.20 lb/MMBtu (86 ng/J) heat input but less than or equal to 0.60 lb/MMBtu (260 ng/J) heat input
260+	SO ₂ emission rate is greater than 0.60 lb/MMBtu (260 ng/J) heat input

FGD:

Enter "YES" if the affected facility has a flue gas desulfurization system. Otherwise, enter "NO."

- ★ **Complete "SO₂ Standard Basis" only if "Construction/Modification Date" is "05+C," "05+R" or "05+M."**

SO2 Standard Basis:

Select one of the following PM standards. Enter the code on the form.

<u>Code</u>	<u>Description</u>
OUTPUT	The facility meets a standard that is output-based
INPUT	The facility meets a standard that is input-based
NEITHER	The facility meets a standard other than output- or input-based (i.e. percent reduction)

- ★ Complete “NOx Standard Basis” only if “Construction/Modification Date” is “05+R” or “05+M” and “Combined Cycle Type” is not “IGCC.”

NOx Standard Basis:

Select one of the following PM standards. Enter the code on the form.

<u>Code</u>	<u>Description</u>
OUTPUT	The facility meets a standard that is output-based
INPUT	The facility meets a standard that is input-based
NEITHER	The facility meets a standard other than output- or input-based (i.e. percent reduction)

**Table 2c: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Da: Standards of Performance for Electric Utility Steam Generating Units**

Unit ID No.:

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

SOP Index No.:

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

Fuel Pretreatment:

Enter “YES” if fuel pretreatment credit toward the sulfur dioxide emission standard under 40 CFR § 60.43a is claimed. Otherwise, enter “NO.”

Combined Cycle System:

Enter “YES” if the unit is used in conjunction with an electric utility combined cycle gas turbine not designed to burn fuels containing 50 percent (by heat input) or more solid derived fuel not meeting the definition of natural gas. Otherwise, enter “NO.”

- ★ Complete “Duct Burner” only if “Construction/Modification Date” is “97-05C”; or if “05+C” (and unit is not an IGCC); or if only one “D-Series Fuel Type” was entered.

Duct Burner:

Enter “YES” if the unit is a duct burner. Otherwise, enter “NO.”

- ★ Complete “PM Flow Monitoring System” only if “PM Standard” is “C1.”

PM Flow Monitoring System:

Select one of the following options to describe the flow monitoring system required for facility complying with an output-based standard under § 60.42Da. Enter the code on the form.

<u>Code</u>	<u>Description</u>
DA	Continuous flow monitoring system meeting the requirements of Performance Specification 6 of 40 CFR Part 60 Subpart Da, Appendix B and Procedure 1 of Appendix F [in accordance with 40 CFR § 60.49Da(1)]
CFMS75	Continuous flow monitoring system certified according to the requirements of 40 CFR § 75.20, meeting the applicable quality control and quality assurance requirements of 40 CFR § 75.21, and validated according to 40 CFR § 75.23 [in accordance with 40 CFR § 60.49Da(m)]
75D	Fuel flow monitoring system certified and operated according to the requirements of 40 CFR Part 75, Appendix D (gas-fired or oil-fired units only) [in accordance with 40 CFR § 60.49Da(n)]

★ **Complete “SO₂ Flow Monitoring” only if “SO₂ Standard Basis” is “OUTPUT.”**

SO₂ Flow Monitoring System:

Select one of the following options to describe the flow monitoring system required for facility complying with an output-based standard under § 60.43Da. Enter the code on the form.

<u>Code</u>	<u>Description</u>
DA	Continuous flow monitoring system meeting the requirements of Performance Specification 6 of 40 CFR Part 60 Subpart Da, Appendix B and Procedure 1 of Appendix F [in accordance with 40 CFR § 60.49Da(1)]
CFMS75	Continuous flow monitoring system certified according to the requirements of 40 CFR § 75.20, meeting the applicable quality control and quality assurance requirements of 40 CFR § 75.21, and validated according to 40 CFR § 75.23 [in accordance with 40 CFR § 60.49Da(m)]
75D	Fuel flow monitoring system certified and operated according to the requirements of 40 CFR Part 75, Appendix D (gas-fired or oil-fired units only) [in accordance with 40 CFR § 60.49Da(n)]

★ **Complete “NO_x Flow Monitoring” only if “Construction/Modification Date” is “97-05C” or “05+C”; or if “Combined Cycle Type” is “IGCC”; or if “NO_x Standard Basis” is “OUTPUT.”**

NO_x Flow Monitoring System:

Select one of the following options to describe the flow monitoring system required for facility complying with an output-based standard under § 60.44Da. Enter the code on the form.

<u>Code</u>	<u>Description</u>
DA	Continuous flow monitoring system meeting the requirements of Performance Specification 6 of 40 CFR Part 60 Subpart Da, Appendix B and Procedure 1 of Appendix F [in accordance with 40 CFR § 60.49Da(1)]
CFMS75	Continuous flow monitoring system certified according to the requirements of 40 CFR § 75.20, meeting the applicable quality control and quality assurance requirements of 40 CFR § 75.21, and validated according to 40 CFR § 75.23 [in accordance with 40 CFR § 60.49Da(m)]
75D	Fuel flow monitoring system certified and operated according to the requirements of 40 CFR Part 75, Appendix D (gas-fired or oil-fired units only) [in accordance with 40 CFR § 60.49Da(n)]

**Table 3a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Db: Standards of Performance for Industrial-Commercial-Institutional Steam Generating**

Unit ID No.:

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

SOP/GOP Index No.:

Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (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 go to the TCEQ Web site at

www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

Construction/Modification Date:

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

For units in GOP applications:

<u>Code</u>	<u>Description</u>
G89-	On or before June 9, 1989
G89+	After June 9, 1989

For units in SOP applications:

<u>Code</u>	<u>Description</u>
84-	On or before June 19, 1984
84-86	After June 19, 1984, and on or before June 19, 1986
86-86	After June 19, 1986, and before November 25, 1986
86-97	On or after November 25, 1986, and on or before July 9, 1997
97-05CR	Constructed or reconstructed after July 9, 1997, and on or before February 28, 2005
97-05M	Modified after July 9, 1997, and on or before February 28, 2005
05+CR	Constructed or reconstructed after February 28, 2005
05+M	Modified after February 28, 2005

▼ **Continue only if “Construction/Modification Date” is “84-86,” “86-86,” “86-97,” “97-05CR,” “97-05M,” “05+CR,” “05+M,” or “G89-.”**

If application type is GOP and “Construction/Modification Date” is “G89+,” complete Table 4 as directed.

Heat Input Capacity:

Select one of the following options for the heat input capacity or the maximum design heat input capacity. Enter the code on the form.

For units in GOP applications:

<u>Code</u>	<u>Description</u>
NA	Not applicable

For units in SOP applications:

<u>Code</u>	<u>Description</u>
100-	Heat input capacity is less than or equal to 100 MMBtu/hr (29 MW)
100-250	Heat input capacity is greater than 100 MMBtu/hr (29 MW) but less than or equal to 250 MMBtu/hr (73 MW)
250+	Heat input capacity is greater than 250 MMBtu/hr (73 MW)

▼ **Continue only if “Heat Input Capacity” is “100-250,” or “250+.”**

If “Heat Input Capacity” is “100-,” complete Table 4 as directed. If application type is GOP, go to Table 3b and complete “D-Series Fuel Type.” Do not complete the rest of Table 3.

Subpart Da:

Enter “YES” if the affected facility meets applicability requirements of 40 CFR Part 60, Subpart Da. Otherwise, enter “NO.”

▼ **Continue only if “Subpart Da” is “NO.”**

Changes to Existing Affected Facility:

Enter “YES” if a change has been made to the existing steam generating unit, which was not previously subject to 40 CFR Part 60, Subpart Db, for the sole purpose of combusting gases containing totally reduced sulfur as defined under 40 CFR § 60.281. Otherwise, enter “NO.”

▼ **Continue only if “Changes to Existing Affected Facility” is “NO.”**

Subpart Ea, Eb or AAAA:

Enter “YES” if the affected facility meets applicability requirements of and is subject to 40 CFR Part 60, Subpart Ea, Eb or AAAA. Otherwise, enter “NO.”

★ **Continue only if “Subpart Ea, Eb or AAAA” is “NO.”**

Subpart KKKK:

Enter “YES” if the affected facility is a heat recovery steam generator associated with combined cycle gas turbines and that meets applicability requirements of and is subject to 40 CFR Part 60, Subpart KKKK. Otherwise, enter “NO.”

▼ **Continue only if “Subpart KKKK” is “NO.”**

Subpart Cb or BBBB:

Enter “YES” if the affected facility is covered by an EPA approved State or Federal section 111(d)/129 plan implementing 40 CFR Part 60, Subpart Cb or BBBB emission guidelines. Otherwise, enter “NO.”

▼ Continue only if “Subpart Cb or BBBB” is “NO.”

**Table 3b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Db: Standards of Performance for Industrial-Commercial-Institutional Steam Generating**

★ Complete only if “Heat Input Capacity” is “100-250,” “250+,” or “NA.”

Unit ID No.:

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

SOP/GOP Index No.:

Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (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 go to the TCEQ Web site at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

D-Series Fuel Type:

Select one or more of the following options for fuel type(s) used to fire the boiler, steam generator, or steam generating unit. Enter the code(s) on the form. In some cases, several fuel type code options could appropriately describe a single fuel being combusted (e.g., distillate oil). In these instances, select one fuel type code which represents the fuel being combusted. Enter the code on the form.

Gas Series (Fossil)

<u>Code</u>	<u>Description</u>
NG	Natural gas (GOP applicants may only fire natural gas)
CDSFNG	Coal-derived synthetic fuel meeting the definition of natural gas
GFF	Other gaseous fossil fuel

Oil Series (Fossil)

<u>Code</u>	<u>Description</u>
PET	Petroleum, crude oil, or liquid fuel derived from crude oil or petroleum other than distillate or residual oil (and not a very low sulfur oil)
PETLSO3	Petroleum, crude oil, or liquid fuel derived from crude oil or petroleum other than distillate or residual oil and that contains no more than 0.3 weight percent sulfur or has a SO2 emission rate less than 140 ng/J (0.32 lb/MMBtu) heat input (VLS oil post 02/28/05 units)
PETLSO5	Petroleum, crude oil, or liquid fuel derived from crude oil or petroleum other than distillate or residual oil and that contains no more than 0.5 weight percent sulfur or has a SO2 emission rate less than 215 ng/J (0.5 lb/MMBtu) heat input (VLS oil 02/28/05 or earlier units)
DOIL	Distillate oil (not a very low sulfur oil)
DOILLSO3	Distillate oil that contains no more than 0.3 weight percent sulfur or has a SO2 emission rate less than 140 ng/J (0.32 lb/MMBtu) heat input (VLS oil post 02/28/05 units)
DOILLSO5	Distillate oil that contains no more than 0.5 weight percent sulfur or has a SO2 emission rate less than 215 ng/J (0.5 lb/MMBtu) heat input (VLS oil 02/28/05 or earlier units)
ROIL	Residual oil with a nitrogen content less than or equal to 0.30% by weight (and not a very low sulfur oil)
ROILLSO3	Residual oil with a nitrogen content less than or equal to 0.30% by weight and that contains no more than 0.3 weight percent sulfur or has a SO2 emission rate less than 140 ng/J (0.32 lb/MMBtu) heat input (VLS oil post 02/28/05 units)
ROILLSO5	Residual oil with a nitrogen content less than or equal to 0.30% by weight and that contains no more than 0.5 weight percent sulfur or has a SO2 emission rate less than 215 ng/J (0.5 lb/MMBtu) heat input (VLS oil 02/28/05 or earlier units)
RO30+	Residual oil with a nitrogen content greater than 0.30% by weight (and not a very low sulfur oil)
RO30+LSO3	Residual oil with a nitrogen content greater than 0.30% by weight and that contains no more than 0.3 weight percent sulfur or has a SO2 emission rate less than 140 ng/J (0.32 lb/MMBtu) heat input (VLS oil post 02/28/05 units)
RO30+LSO5	Residual oil with a nitrogen content greater than 0.30% by weight and that contains no more than 0.5 weight percent sulfur or has a SO2 emission rate less than 215 ng/J (0.5 lb/MMBtu) heat input (VLS oil 02/28/05 or earlier units)

Coal Series

<u>Code</u>	<u>Description</u>
COAL	Coal
LG	Lignite mined in North Dakota, South Dakota, or Montana
OLG	Lignite mined in states other than North Dakota, South Dakota, or Montana
CLR	Coal refuses
CDSF	Coal-derived synthetic fuel not meeting the definition of natural gas
PULV	Pulverized coal
COG	Coke oven gas

Other Fuels

<u>Code</u>	<u>Description</u>
MSW	Municipal-type solid waste
WD	Wood
BPW	Byproduct/waste
HZW	Hazardous waste
SFF	Other solid fossil fuel
SNFF	Other solid non fossil fuel
NSNFF	Other non-solid non fossil fuel
LFF	Other liquid fossil fuel

▼ Continue only for SOP Applications.

★ Complete “Subpart D” only if “Construction/Modification Date” is “84-86.”

Subpart D:

Enter “YES” if the affected facility meets the applicability requirements of 40 CFR Part 60, Subpart D. Otherwise, enter “NO.”

★ Do not complete “Subpart J” if “Subpart D” is “YES.”

Subpart J:

Enter “YES” if the affected facility meets applicability requirements of 40 CFR Part 60, Subpart J. Otherwise, enter “NO.”

★ Do not complete “Subpart E” if “Subpart D” or “Subpart J” is “YES.”

Subpart E:

Enter “YES” if the affected facility meets applicability requirements of 40 CFR Part 60, Subpart E. Otherwise, enter “NO.”

ACF Option:

Select one of the following annual capacity factor (ACF) options. Enter the code on the form in the space next to the “D-Series Fuel Type” code (FE = Federally Enforceable).

<u>SO2</u>	<u>Code</u>	<u>Description</u>	<u>Citation</u>
	F30-C	Coal and oil ACF less than or equal to 30% (FE)	[60.42b(d)(1)]
	F10-OIL	Oil ACF less than or equal to 10% (FE)	[60.42b(f)(1)]
	OTHR	Other ACF or no ACF	

<u>PM</u>	<u>Code</u>	<u>Description</u>	<u>Citation</u>
	10-OTH	Coal with other fuels and other fuels ACF is less than or equal to 10%	[60.43b(a)(1)(ii)]
	F10+OTH	Coal with other fuels and other fuels ACF is greater than 10% (FE)	[60.43b(a)(2)]
	F30-CLO	Coal or coal and other solid fuels ACF less than or equal to 30% (FE)	[60.43b(a)(3)(iii)]
	30+WD	Wood ACF greater than 30%	[60.43b(c)(1)]
	F30-WD	Wood ACF less than or equal to 30% (FE)	[60.43b(c)(2)(i) and (ii)]
	10-OMW	Municipal-type solid waste with other fuels and other fuels ACF is less than or equal to 10%	[60.43b(d)(1)(ii)]
	F30-MSW	Municipal-type solid waste ACF less than or equal to 30% (FE)	[60.43b(d)(2)(i) and (iii)]
	F30-OMW	Municipal-type solid waste and other fuels ACF less than or equal to 30% (FE)	[60.43b(d)(2)(i) and (iii)]
	OTHR	Other ACF or no ACF	

<u>NOx</u>	<u>Code</u>	<u>Description</u>	<u>Citation</u>
	F10-MIX	Coal or oil, or mixture of these fuels with natural gas ACF less than or equal to 10% (FE)	[60.44b(c)]
	F10-NGSL	Natural gas with wood, municipal-type solid waste, or other solid fuel (except coal) and natural gas ACF is less than or equal to 10% (FE)	[60.44b(d)]
	F10-MLT	Coal, oil, or natural gas with byproduct/waste and coal, oil, and natural gas ACF is less than or equal to 10% (FE)	[60.44b(e)]
	F10-NG	Natural gas, distillate oil, and residual oil with a nitrogen content less than or equal to 0.30% combined ACF less than or equal to 10% (FE)	[60.44b(j)(2) and (3)]
	10+RO	Residual oil with a nitrogen content of .30 weight percent or less natural gas, distillate oil, or any mixture of these fuels with an ACF greater than 10%	[60.48b(g)]
	OTHR	Other ACF or no ACF	

If a fuel-firing option consists of multiple fuel types being combusted simultaneously, enter the D-Series 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. If multiple fuels that use the same code are simultaneously combusted then enter the code once for each fuel (See Fuel-firing Option A: for an example of multiple petroleum fuels fired simultaneously).

Example:

	SOP Index No.	D-Series Fuel Type	D-Series Fuel Type	ACF Option		
				S02	PM	NOX
60DB-1A	COAL	PET	PET	F30-CO		
60DB-1B	NG					
60DB-2	WD				F30-WD	
60DB-3	NG	DOIL	ROIL			F10-NG

**Table 3c: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Db: Standards of Performance for Industrial-Commercial-Institutional Steam Generating**

Unit ID No.:

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

SOP Index No.:

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

- ★ **Complete “60.42b(k)(2) Low Sulfur Exemption” only if “Construction/Modification Date” is “05+CR” or “05+M,” and the affected facility fires low sulfur oil and/or gaseous fuel, or mixtures that include very low sulfur oil and/or gaseous fuel.**

60.42b(k)(2) Low Sulfur Exemption:

Enter “YES” if 60.42b(k)(2) exemption applies. Otherwise, enter “NO.”

- ★ **Complete “60.42b(k)(4) Alternative” only if “Construction/Modification Date” is “05+CR” or “05+M,” and the affected facility fires coal, as defined in 40 CFR § 60.41b, alone or in combination with other fuels.**

60.42b(k)(4) Alternative:

Enter “YES” if 60.42b(k)(4) is chosen as an alternative requirement to 60.42b(k)(1). Otherwise, enter “NO.”

- ★ **Complete “Post-combustion Control” only if “D-series Fuel Type” is “COG” alone or in combination with other fuels.**

Post-Combustion Control:

Enter “YES” if the affected facility uses a post-combustion technology, other than a wet scrubber, to reduce emissions of particulate matter or sulfur dioxide. Otherwise, enter “NO.”

- ★ **Complete “60.43b(h)(2) Alternative” only if “Construction/Modification Date” is “05+M.”**

60.43b(h)(2) Alternative:

Enter “YES” if the facility is electing to use the alternative requirements of 60.43b(h)(2) for PM. Otherwise, enter “NO.”

- ★ **Complete “Electrical or Mechanical Output” only if “Construction/Modification Date” is “97-05CR” or “05+CR.”**

Electrical or Mechanical Output:

Enter “YES” if more than 10% of the annual output is electrical or mechanical. Otherwise, enter “NO.”

- ★ **Complete “Output Based Limit” only if “Electrical or Mechanical Output” is “YES.”**

Output Based Limit:

Enter “YES” if the facility is electing to comply with the output based limit in 60.44b(1)(3). Otherwise, enter “NO.”

★ Complete “Steam with Electricity” only if “Output Based Limit” is “YES.”

Steam with Electricity:

Enter “YES” if the facility generates process steam in combination with electricity. Otherwise, enter “NO.”

★ Complete “Electricity Only” only if “Steam with Electricity” is “NO.”

Electricity Only:

Enter “YES” if the facility generates electricity only. Otherwise, enter “NO.”

60.49Da(n) Alternative:

Enter “YES” if the facility is gas- or oil-fired and is using the 60.49Da(n) alternative. Otherwise, enter “NO.”

★ Complete “60.49Da(m) Alternative” only if “60.49Da(n) Alternative” is “NO.”

60.49Da(m) Alternative:

Enter “YES” if the facility is using the 60.49Da(m) alternative. Otherwise, enter “NO.”

**Table 3d: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Db: Standards of Performance for Industrial-Commercial-Institutional Steam Generating**

Unit ID No.:

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

SOP Index No.:

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

★ Complete “Residual Oil Sampling” only if “D-Series Fuel Type” is “ROIL,” “ROILLS03,” “ROILLS05,” “RO30+,” “RO30+LSO3” or “RO30+LSO5.”

Residual Oil Sampling:

Enter “YES” if the residual oil is sampled and analyzed for nitrogen content as specified in 40 CFR § 60.49b(e). Otherwise, enter “NO.”

Monitoring Type:

Designate the monitoring options for each pollutant. Select only the type(s) of monitoring applicable under 40 CFR Part 60, Subpart Db.

PM:

Select one of the following monitoring options for PM. Enter the code on the form.

<u>Code</u>	<u>Description</u>
CEM	Continuous emission monitoring system, and the facility is not subject to a federally enforceable PM limit of 0.030 lb/MMBtu or less
CEM030	Continuous emission monitoring system, and the facility is subject to a federally enforceable PM limit of 0.030 lb/MMBtu or less
NONE	No particulate monitoring
FLCRT	Fuel certification (maintaining receipts per § 60.49b(r)(1) – use for § 60.43b(h)(5) exemption only)
FLSMP	Fuel certification (based on fuel analysis per § 60.49b(r)(2) – use for § 60.43b(h)(5) exemption only)

Opacity:

Select one of the following monitoring options for opacity. Enter the code on the form.

<u>Code</u>	<u>Description</u>
CMS	Continuous opacity monitoring systems (COMS)
CCEM	Continuous emissions monitoring system for carbon monoxide (CO) installed and operated per 40 CFR § 60.48b(j)(4)
NONE	No particulate monitoring

NOx:

Select one of the following monitoring options for nitrogen oxides (NOx). Enter the code on the form.

<u>Code</u>	<u>Description</u>
CEM	Continuous emission monitoring system
CEM75	Continuous emission monitoring system used to comply with 40 CFR Part 75
PEM	Predictive emission monitoring system
NONE	No NOx monitoring

SO2:

Select one of the following monitoring options for SO2. Enter the code on the form.

<u>Code</u>	<u>Description</u>
ASFRD	As-fired sampling
MTH6B	Method 6B sampling
FLCRT	Fuel certification (maintaining receipts per § 60.49b(r)(1))
FLSMP	Fuel certification (based on fuel analysis per § 60.49b(r)(2))
CEM	Continuous emission monitoring system
NONE	No SO2 monitoring

Technology Type:

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

<u>Code</u>	<u>Description</u>
FLDBD	Fluidized bed combustion (conventional technology)
DESLF	Flue gas desulfurization service (conventional technology)
EMRG+	Emerging technology with fuel pretreatment
EMRG-	Emerging technology without fuel pretreatment
CONV	Other conventional technology
NONE	None

Unit Type:

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

<u>Code</u>	<u>Description</u>
FDSTK	Mass feed stoker
SPDSTK	Spreader stoker
DCTBRN1	Duct burner as part of combined cycle system (compliance with NO _x limitations is determined by conducting a performance test)
DCTBRN2	Duct burner as part of combined cycle system (compliance on a 30-day rolling average basis determined by using a continuous emission monitoring system)
SLGTP	Slag tap furnace
OTHER	Other unit type

- ★ **Complete “Heat Release Rate” only if “Unit Type” is “FDSTK,” “SPDSTK,” “SLGTP,” or “OTHER” and “D series Fuel Type” is, alone or in combination, “NG,” “DOIL,” “DOILLSO3,” “DOILLSO5,” “ROIL,” “ROILLSO3,” “ROILLSO5,” “RO30+,” “RO30+LSO3,” or “RO30+LSO5.”**

Heat Release Rate:

Select one of the following options for heat release rate. Enter the code on the form for each fuel-firing option.

<u>Code</u>	<u>Description</u>
NGLOW	Natural gas or distillate oil with a heat release rate less than or equal to 70 MBtu/hr/ft ³
NGHIGH	Natural gas or distillate oil with a heat release rate greater than 70 MBtu/hr/ft ³
ROLOW	Residual oil with a heat release rate less than or equal to 70 Mbtu/hr/ft ³
ROHIGH	Residual oil with a heat release rate greater than 70 MBtu/hr/ft ³
DOLOW	Distillate oil with a heat release rate less than or equal to 70 Mbtu/hr/ft ³
DOHIGH	Distillate oil with a heat release rate greater than 70 MBtu/hr/ft ³

- ★ **Complete “Heat Input Gas/Oil” only if “Construction/Modification Date” is “97-05CR” or “05+CR.” and “Heat Release Rate” is “NGLOW” or “DOLOW.”**

Heat Input Gas/Oil:

Enter “YES” if the facility combusts natural gas or distillate oil in excess of 30 % of the heat input from the combustion of all fuels. Otherwise, enter “NO.”

- ★ **Complete “Heat Input Wood” only if “Construction/Modification Date” is “05+M.”**

Heat Input Wood:

Enter “YES” if the facility combust over 30% wood by heat input. Otherwise, enter “NO.”

★ Complete “Fuel Heat Input” only if “Unit Type” is “DCTBRN1” or “DCTBRN2” and combusting coal or oil.

Fuel Heat Input:

Enter “YES” if the heat input is less than or equal to 30% from combustion of coal and oil in the duct burner and heat input is greater than or equal to 70% of the steam generating unit, and is from the exhaust gases entering the duct burner. Otherwise, enter “NO.”

**Table 3e: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Db: Standards of Performance for Industrial-Commercial-Institutional Steam Generating**

Unit ID No.:

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

SOP Index No.:

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

★ Complete “Alternate Emission Limit” only if “D-Series Fuel Type” is “BPW.”

Alternate Emission Limit (AEL):

Enter “YES” if the facility combusts byproduct/waste with either natural gas or oil and petitioned the EPA Administrator to establish a NO_x emission limit that applies specifically when the byproduct/waste is combusted. Otherwise, enter “NO.”

AEL ID No.:

If an alternate emission limit has been approved, then enter the corresponding AEL identification number (ID No.) for each unit or process (maximum 10 characters). If the AEL identification number is unavailable, then enter the date of the approval letter. The identification number and/or the date of the approval letter is contained in the compliance file under the appropriate regulated entity number. Otherwise, leave this column blank.

▼ Continue only if “Subpart J” is “YES.”

Facility Type:

Enter “YES” if the affected facility includes a fuel gas combustion device. Otherwise, enter “NO.”

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

Monitoring Device:

Enter “YES” if an instrument is in place for continuous monitoring and recording the concentration (dry basis) of hydrogen sulfide in fuel gasses before being burned in any fuel gas combustion device. Otherwise, enter “NO.”

Common Fuel Source:

Enter “YES” if the fuel gas combustion device has a common fuel source with other fuel gas combustion devices. Otherwise, enter “NO.”

**Table 4a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Dc: Standards of Performance for Small Industrial-Commercial-Institutional Steam
Generating Units**

Unit ID No.:

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

SOP/GOP Index No.:

Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (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 go to the TCEQ Web site at www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

Construction/Modification Date:

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

<u>Code</u>	<u>Description</u>
89-	On or before June 9, 1989
89-05	After June 9, 1989 but on or before February 28, 2005
05+	After February 28, 2005

▼ Continue only if “Construction/Modification Date” is “89-05” or “05+.”

Maximum Design Heat Input Capacity:

Select one of the following options for the maximum design heat input capacity. Enter the code on the form.

<u>Code</u>	<u>Description</u>
10-	Maximum design heat input capacity is less than 10 MMBtu/hr (2.9 MW)
10-100	Maximum design heat input capacity is greater than or equal to 10 MMBtu/hr (2.9 MW) but less than or equal to 100 MMBtu (29 MW)
100+	Maximum design heat input capacity is greater than 100 MMBtu/hr (29 MW) (for SOP applications only)

▼ Continue only if “Maximum Design Heat Input Capacity” is “10-100.”

Other Subparts:

Select one of the following options for the applicability of other 40 CFR Part 60 Subparts. Enter the code on the form.

<u>Code</u>	<u>Description</u>
KKKK	the affected facility is a heat recovery steam generator associated with a combined cycle gas turbine and meets applicability requirements of 40 CFR Part 60, Subpart KKKK
AAAA	the facility is covered by 40 CFR Part 60, Subpart AAAA
BBBB	the facility is covered by an approved State or Federal section 111(d)/129 plan implementing 40 CFR Part 60, subpart BBBB
NONE	none of the above are applicable

▼ **Continue only if “Other Subparts” is “NONE.”**

Heat Input Capacity:

Select one of the following options for the heat input capacity. Enter the code on the form.

For units in GOP applications:

<u>Code</u>	<u>Description</u>
NA	Not applicable

For units in SOP applications:

<u>Code</u>	<u>Description</u>
10-	Heat input capacity is less than or equal to 10 MMBtu/hr (2.9 MW)
10-30	Heat input capacity is greater than 10 MMBtu/hr (2.9 MW) but less than 30 MMBtu/hr (8.7 MW)
30-75	Heat input capacity is greater than or equal to 30 MMBtu/hr (8.7 MW) but less than or equal to 75 MMBtu/hr (22 MW)
75-100	Heat input capacity is greater than 75 MMBtu/hr (22 MW)

D-Series Fuel Type:

Select one or more of the following options for the fuel type(s) used to fire the boiler, steam generator, or steam generating unit. Enter the code(s) on the form. In some cases, several fuel type code options could appropriately describe a single fuel being combusted (e.g., distillate oil). In these instances, select one fuel type code which best represents the fuel being combusted. Enter the code on the form.

<u>Code</u>	<u>Description</u>
NG	Natural gas (GOP applicants may only fire natural gas)
DOIL	Distillate oil
ROIL	Residual oil
WD	Wood
OIL	Crude oil, petroleum, or liquid fuel derived from crude oil or petroleum other than distillate or residual oil
COAL	Coal, lignite, petroleum coke, or synthetic fuels derived from coal
OTHER	Other fuel
CLR	Coal Refuse

▼ **Continue only for SOP Applications.**

ACF Option:

Select one of the following ACF options. Enter the code on the form in the space next to the “D-Series Fuel Type” code (FE = Federally Enforceable).

	<u>Code</u>	<u>Description</u>	<u>Citation</u>
SO2	F55-CL	Coal ACF less than or equal to 55% (FE)	[60.42c(c)(2)]
	55+CL	Coal ACF greater than 55%	[60.42c(e)(1)(iii)]
	OTHR	Other ACF or no ACF	
	<u>Code</u>	<u>Description</u>	<u>Citation</u>
PM	10-OTH	Coal with other fuels and other fuels ACF is less than or equal to 10%	[60.43c(a)(1)]
	F10+OTH	Coal with other fuels and other fuels ACF is greater than 10% (FE)	[60.43c(a)(2)]
	30+WD	Wood ACF greater than 30%	[60.43c(b)(1)]
	F30-WD	Wood ACF less than or equal to 30% (FE)	[60.43c(b)(2)]
	OTHR	Other ACF or no ACF	

30% Coal Duct Burner:

Enter “YES” if the facility combusts coal in a duct burner as part of a combined cycle system where 30% or less of the heat is from combustion of coal and 70% or more is from exhaust gases entering the duct burner. Otherwise, enter “NO.”

If a fuel-firing option consists of multiple fuel types being combusted simultaneously, enter the D-Series 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. If multiple fuels that use the same code are simultaneously combusted then enter the code once for each fuel (See Fuel-firing Option A: for an example of multiple types of coal fired simultaneously).

Example:

	SOP Index No.	D-Series Fuel Type	D-Series Fuel Type	D-Series Fuel Type	ACF OPTION	
					SO2	PM
Fuel-firing Option A	60DC-1A	COAL	COAL	COAL	55-CL	
	60DC-1B	COAL				
Fuel-firing Option B	60DC-2	WD				30+WD
Fuel-firing Option C	60DC-3	COAL	OIL			10-OTH

**Table 4b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Dc: Standards of Performance for Small Industrial-Commercial-Institutional Steam
Generating Units**

★ **Complete only if “Construction Date” is “89-05 or 05+” and “Maximum Design Heat Input Capacity” is “10-100.” For SOP applications only.**

Unit ID No.:

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

SOP Index No.:

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

Monitoring Type:

Designate the monitoring options for each pollutant. Select only the type(s) of monitoring applicable under 40 CFR Part 60, Subpart Dc.

PM:

Select one of the following monitoring options for particulate matter (PM). Enter the code on the form.

<u>Code</u>	<u>Description</u>
CEMS	Continuous monitoring system for opacity and the facility is not subject to a federally enforceable PM limit of 0.030 lb/MMBtu or less
CEMS30	Continuous monitoring system for opacity and the facility is subject to a federally enforceable PM limit of 0.030 lb/MMBtu or less
MTH+	Method 5, 5B or 17 sampling
NONE	No particulate monitoring

SO2 Inlet:

Select one of the following monitoring options for SO2 at the control device inlet or outlet of the steam generating unit if no SO2 control device is used. Enter the code on the form.

<u>Code</u>	<u>Description</u>
ASFRD	Daily as-fired sampling
FLTNK	Shipment fuel sampling
MTH6B	Method 6B sampling
FLCRT	Fuel certification (or maintaining receipts)
CEM	Continuous emission monitoring system
NONE	No SO2 monitoring

SO2 Outlet:

Select one of the following monitoring options for SO2 at the control device outlet. Enter the code on the form.

<u>Code</u>	<u>Description</u>
CEM	Continuous emission monitoring system
MTH6B	Method 6B sampling
NONE	No SO2 monitoring

Technology Type:

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

<u>Code</u>	<u>Description</u>
FLDBD	Fluidized bed combustion (conventional technology)
DESLF	Flue gas desulfurization service (conventional technology)
EMRG	Emerging technology
NONE	None
CONV	Other conventional technology

- ★ **Complete “43CE-Option” only if “Construction/Modification Date” is “05+” and “Heat Input Capacity” is “30-75” or “75-100” and “D-Series Fuel Type” includes “DOIL,” “ROIL,” “WD,” “OIL,” “COAL” or “CLR.”**

43CE-Option:

Select one of the following § 60.43c(e) PM emission options. Enter the code on the form.

<u>Code</u>	<u>Description</u>
43CE-4	Exemption § 60.43c(e)(4) for a facility that combusts only oil that contains no more than 0.50% by weight sulfur or a mixture of 0.50% by weight sulfur oil with other fuels not subject to a PM standard under § 60.43c and not using a post-combustion technology (except a wet scrubber).
43CE-3	§ 60.43c(e)(3) for a facility that has a heat input capacity of 30 MMBtu/hr or greater and that combusts over 30% wood (by heat input) on an annual basis.
43CE-1	§ 60.43c(e)(1) for a facility that combusts coal, oil, wood, a mixture of these fuels, or a mixture of these fuels with any other fuels and has a heat input capacity of 30 MMBtu/hr or greater.
43CE-2	§ 60.43c(e)(2) as an alternative § 60.43c(e)(1).

- ★ **Complete “47C-Option” only if “Monitoring Type - PM” is not “CEMS30.”**

47C-Option:

Select one of the following § 60.47c PM (Opacity) options. Enter the code on the form.

<u>Code</u>	<u>Description</u>
47C-AB	§ 60.4c(a) and (b) COMS requirements for a facility combusting coal, oil, or wood that is subject to the opacity standards under § 60.43c
47C-C	COMS exemption § 60.47c(c) for a facility that burns only distillate oil that contains no more than 0.5 weight percent sulfur and/or liquid or gaseous fuels with potential sulfur dioxide emission rates of 26 ng/J (0.060 lb/MMBtu) heat input or less and that do not use a post combustion technology.
47C-D	§ 60.47c(d) for a facility that complies with the PM emission limit by using a PM CEMS.
47C-E	COMS exemption § 60.47c(e) for a facility that does not use post-combustion technology (except a wet scrubber), burns only gaseous fuels or fuel oils that contain less than or equal to 0.5 weight percent sulfur, and operated such that emissions of CO discharged are maintained at levels less than or equal to 0.15 lb/MMBtu on a boiler operating day average basis.
47C-F	COMS exemption § 60.47c(f) for a facility that uses a bag leak detection system to monitor the performance of a fabric filter (baghouse) according to the most recent requirements in section § 60.48Da.
47C-G	COMS exemption § 60.47c(f) for a facility that burns only gaseous fuels or fuel oils that contain less than or equal to 0.5 weight percent sulfur and operates according to a written site-specific monitoring plan approved by the permitting authority.

**Table 5a: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas**

★ **Complete only for units located at industrial, commercial, and institutional (ICI) major sources of NO_x as defined in 30 TAC § 117.10, and located in the Houston/Galveston/Brazoria, Beaumont /Port Arthur or Dallas/Fort Worth Eight-Hour ozone nonattainment areas.**

Unit ID No.:

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

SOP/GOP Index No.:

Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (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 index numbers please go to the TCEQ Web site at

www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

Unit Type:

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

<u>Code</u>	<u>Description</u>
ICIB-X	Industrial, commercial, or institutional boiler regulated as an existing facility by the EPA at 40 CFR Part 266, Subpart H, as was in effect on June 9, 1993
SULF	Sulfur plant reaction boiler
FCCUB	Fluid catalytic cracking unit boiler (including CO boilers) (Beaumont/Port Arthur ozone nonattainment area only and unit is an opt-in unit)
CBCOGEN	A cogeneration boiler utilizing heat or fuel from carbon black reactors (Beaumont/Port Arthur ozone nonattainment area)
ICIB	Any other industrial, commercial, or institutional boiler

▼ **Do not continue if “Unit Type” is “SULF,” or if in the Beaumont/Port Arthur ozone nonattainment area and “Unit Type” is “CBCOGEN.”**

MRC:

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

For units in GOP applications:

<u>Code</u>	<u>Description</u>
G2-	MRC is less than or equal to 2 MMBtu/hr
G2-40	MRC is greater than 2 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

For units in SOP applications:

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

<u>Code</u>	<u>Description</u>
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
200-250	MRC is greater than or equal to 200 MMBtu/hr but less than 250 MMBtu/hr
250+	MRC is greater than or equal to 250 MMBtu/hr

For boilers located in the Houston/Galveston/Brazoria ozone or the Dallas/Fort Worth Eight-Hour nonattainment areas:

<u>Code</u>	<u>Description</u>
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
200-250	MRC is greater than or equal to 200 MMBtu/hr but less than 250 MMBtu/hr
250+	MRC is greater than or equal to 250 MMBtu/hr

- ▼ **Do not continue if “MRC” is “G2-” for GOP applications or “40-” in the Beaumont/Port Arthur ozone nonattainment area or “2-” in the Houston/Galveston/Brazoria or the Dallas/Fort Worth Eight-Hour ozone nonattainment areas.**
- ★ **Complete “RACT Date Placed in Service” only if located in the Beaumont/Port Arthur ozone nonattainment area.**

Ract Date Placed in Service:

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

<u>Code</u>	<u>Description</u>
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 or 117.9020
FCD+	On or after the final compliance date specified in 30 TAC §§ 117.9000, 117.9010 or 117.9020

- ★ **Complete “Functionally Identical Replacement” only if “Date Placed In Service” is “93-FCD,” or “FCD+.”**

Functionally Identical Replacement:

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

<u>Code</u>	<u>Description</u>
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 “92-93” or “FCD+”; OR “RACT Date Placed in Service” is “93-FCD” and “Functionally Identical Replacement” is “NO.”**

Fuel Type:

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

<u>Code</u>	<u>Description</u>
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
LQD	Liquid
WD	Wood
COKE	Coke (Houston/Galveston/Brazoria ozone Eight-Hour nonattainment areas only)
RICE	Rice Hull (Houston/Galveston/Brazoria ozone Eight-Hour nonattainment areas only)

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. If multiple fuels that use the same code are simultaneously combusted then enter the code once for each fuel (See Fuel-firing Option C: for an example of multiple types of liquid fuel fired simultaneously).

Example:

	SOP Index No.	Fuel Type	Fuel Type	Fuel Type
	R7ICI-1	GS	LQD	WD
Fuel-firing Option A:	R7ICI-2A	GS	LQD	WD
Fuel-firing Option B:	R7ICI-2B	H50-A		
Fuel-firing Option C:	R7ICI-3	LQD	LQD	

★ **Complete “Annual Heat Input” only if application type is SOP.**

Annual Heat Input:

Select one of the following options for the annual heat input. Enter the code on the form.

For units with a “MRC” designation of “40-100:”

<u>Code</u>	<u>Description</u>
28-	Annual Heat Input is less than or equal to 2.8(1011) Btu/yr, based on rolling 12-month average (Low annual capacity factor boilers)
28+	Annual Heat Input is greater than 2.8(1011) Btu/yr, based on rolling 12-month average

For units with a “MRC” designation of “100-200,” “200-250,” or “250+:”

<u>Code</u>	<u>Description</u>
22-	Annual Heat Input is less than or equal to 2.2(1011) Btu/yr, based on rolling 12-month average (Low annual capacity factor boilers)
22+	Annual Heat Input is greater than 2.2(1011) Btu/yr, based on rolling 12-month average

**Table 5b: 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**

▼ **Continue only if one of the following conditions is met:**

- “Unit Type” is “ICIB-X” or “FCCUB,” and the unit is located in the Beaumont/Port Arthur ozone nonattainment area and the unit is to be included in the Alternative Plant-wide Emission Specifications or Source Cap as an Opt-in Unit, or the “Unit Type” is “ICIB” and the unit is located in the Beaumont/Port Arthur or Dallas/Fort Worth Eight-Hour ozone nonattainment areas
- Unit is located in the Houston/Galveston/Brazoria

Unit ID No.:

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

SOP/GOP Index No.:

Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (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 index numbers go to the TCEQ Web site at

www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

NOx Emission Limitation:

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

For GOP applications

<u>Code</u>	<u>Description</u>
X03B	Title 30 TAC §§ 117.103(b)(1), 117.203(b)(1) or 117.303(b)(1) exemption (for all GOP boilers potentially subject to RACT)
103A	Title 30 TAC § 117.103(a)(2) exemption (use for boilers located in the Beaumont/Port Arthur ozone nonattainment area and rated less than 40 MMBtu/hr, may be used for exemption from both RACT and ESAD requirements)
103C	Title 30 TAC § 117.103(c) exemption (use for boilers located in the Beaumont/Port Arthur ozone nonattainment area rated greater than 40 MMBtu/hr and qualifies as a low annual capacity boiler under 30 TAC § 117.103(b)(2), use for exemption from ESAD requirements)
110A	Title 30 TAC § 117.110(a)(1) (use for boilers 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 boiler, for ESAD applicability.)
203C	Title 30 TAC § 117.203(c) exemption (use for boilers located in the Dallas/Fort Worth ozone nonattainment area rated greater than 40 MMBtu/hr and qualifies as a low annual capacity boiler under 30 TAC § 117.203(b)(2), use for exemption from ESAD requirements)
210A	Title 30 TAC § 117.210(a)(1) (use for boilers located in the Dallas/Fort Worth ozone nonattainment area and rated greater than 40 MMBtu/hr and does not qualify as a low annual capacity boiler, for ESAD applicability)
310A	Title 30 TAC § 117.310(a) (use for boilers located in the Houston/Galveston/Brazoria ozone nonattainment area)
410B	Title 30 TAC § 117.410(b) (use for boilers located in the Dallas/Fort Worth Eight-Hour ozone nonattainment area)

For SOP applications

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

<u>Code</u>	<u>Description</u>
105	Title 30 TAC §§ 117.105 (relating to Emission Specifications for Reasonably Available Control Technology)
110A	Title 30 TAC § 117.110(a) (use for boilers 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 boilers located in the Houston/Galveston/Brazoria ozone nonattainment area:

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

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

<u>Code</u>	<u>Description</u>
410B	Title 30 TAC § 117.410(b) (use for boilers located in the Dallas/Fort Worth Eight-Hour ozone nonattainment area)
ACF	Boiler is complying with an annual capacity factor specification under Title 30 TAC § 117.410(b)(14)
SC	Unit is complying with a Source Cap under Title 30 TAC § 117.423

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

- ★ **Complete “Opt-in Unit” only if the site is located in the Beaumont-Port Arthur ozone nonattainment area and “Emission Limitation” 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 boilers) or § 117.110 (for gas-fired boilers). 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.

<u>Code</u>	<u>Description</u>
23C-A	NO _x , 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).

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

30 TAC Chapter 116 Permit Limit:

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

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

<u>Code</u>	<u>Description</u>
93Y	NO _x emission limit in 30 TAC § 117.105 is greater than the NO _x emission limit in a 30 TAC Chapter 116 permit
93N	NO _x emission limit in 30 TAC § 117.105 is not greater than the NO _x emission limit in a 30 TAC Chapter 116 permit

For units placed in service after June 9, 1993, and prior to the final compliance date of 30 TAC § 117.9000 as a functionally identical replacement for an existing unit or group of units and limited to the cumulative MRC of the units replaced:

<u>Code</u>	<u>Description</u>
95Y	Emission limit in 30 TAC § 117.105 is greater than the NO _x 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 NO _x 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 as a functionally identical replacement for an existing unit or group of units and limited to the cumulative MRC of the units replaced:

<u>Code</u>	<u>Description</u>
N/A	NO _x emission limit in 30 TAC § 117.105 applies for purposes of 30 TAC Chapter 117

★ **Complete “EGF System Cap Unit” only if located in the Houston/Galveston/Brazoria ozone nonattainment area.**

EGF System Cap Unit:

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

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

NOx Emission Limit Average:

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

<u>Code</u>	<u>Description</u>
30DAY	Emission limit in pounds/MMBtu on a rolling 30-day average
30/24	Emission limit in pounds/MMBtu on a rolling 30-day and 24-hour average
BLK1-LB	Emission limit in pounds/hour on a block one-hour average
PPMV	Emission limit in parts per million by volume (ppmv)

NOx Reduction:

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

<u>Code</u>	<u>Description</u>
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 post combustion control 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(1011) Btu/yr. Otherwise, enter “NO.”

**Table 5c: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in
Ozone Nonattainment Areas**

Unit ID No.:

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

SOP/GOP Index No.:

Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). General operating permit (GOP) applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP index numbers please go to the TCEQ Web site at

www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/additional_fop_guidance.pdf.

★ **Complete “Fuel Type Heat Input” only if “NOx Emission Limitation” is “APES.”**

Fuel Type Heat Input:

Select one of the following options for the annual heat input. Enter the code on the form.

<u>Code</u>	<u>Description</u>
GAS50	Boiler is fired with gaseous and liquid fuel, and derives more than 50% annual heat input from gaseous fuel
LIQ50	Boiler is fired with gaseous and liquid fuel, and derives more than 50% annual heat input from liquid fuel
SOLID	Boiler is fired with a combination of gaseous (or liquid) and solid fuels
NONE	Boiler is fired with none of the above combinations

Note: Boilers 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 one of the following monitoring system options. Enter the code on the form.

<u>Code</u>	<u>Description</u>
75ARC	Acid rain affected unit subject to continuous emissions monitoring requirements of 40 CFR Part 75
75ARP	Acid rain affected unit subject to predictive emissions monitoring requirements of 40 CFR Part 75
CEMS	Continuous emissions monitoring system
PEMS	Predictive emissions monitoring system
MERT	Maximum emissions rate testing

Fuel Flow Monitoring:

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

<u>Code</u>	<u>Description</u>
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 continue if “Opt-in Unit” is “YES.”**

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, Subchapter B. Select one of the following options. Enter the code on the form.

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

<u>Code</u>	<u>Description</u>
105F	Title 30 TAC § 117.105(f) [relating to Emissions 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 § 17.125(a)

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

<u>Code</u>	<u>Description</u>
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 boilers
ACSS	Unit is complying with an Alternative Case Specific Specification under Title 30 TAC § 117.325(a)

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

<u>Code</u>	<u>Description</u>
410D	Title 30 TAC § 117.410(d)(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.)
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.

<u>Code</u>	<u>Description</u>
CEMS	Continuous emissions monitoring system complying with 30 TAC § 117.8100(a)(1)
PEMS	Predictive emissions monitoring system complying with 30 TAC § 117.8100(b)
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.

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

<u>Code</u>	<u>Description</u>
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 boilers located in the Houston/Galveston/Brazoria ozone nonattainment area:

<u>Code</u>	<u>Description</u>
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 boilers located in the Dallas/Fort Worth Eight-Hour ozone nonattainment area:

<u>Code</u>	<u>Description</u>
410D	Title 30 TAC § 117.410(d)(2) [relating to Emission Specifications for Attainment Demonstration]
ACSS	Unit is complying with an Alternative Case Specific Specification under Title 30 TAC § 117.425.

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

NH3 Monitoring:

Select one of the following options to indicate how the unit is monitored for NH3 emissions. Enter the code on the form.

<u>Code</u>	<u>Description</u>
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 6a: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subchapter C: Combustion Control at Major Utility Electric Generation Sources in Ozone
Nonattainment Areas**

★ **Complete Tables 6a and 6b only for utility boilers or auxiliary steam boilers that are:**

- included in an SOP application;
- used in an electric power generating system owned or operated by an electric cooperative, municipality, river authority, public utility or a Public Utility Commission (PUC) of Texas regulated utility or any of their successors; and
- located within the Houston/Galveston/Brazoria, Beaumont/Port Arthur, or Dallas/Fort Worth Eight-Hour ozone nonattainment areas.

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

Sites located in Parker County have applicability under both 30 TAC Chapter 117, Subchapter C, Division 4 and under 30 TAC Chapter 117, Subchapter E, Division 1: Utility Electric Generation in East and Central Texas and should complete both Tables 6a - 6b and Tables 9a - 9c to determine requirements.

Independent power producers in Parker County are subject only to the requirements of 30 TAC Chapter 117, Subchapter E, Division 1: Utility Electric Generation in East and Central Texas and should complete only Tables 9a - 9c.

Unit ID No.:

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

SOP Index No.:

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

Date Placed in Service:

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

<u>Code</u>	<u>Description</u>
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 in 30 TAC §§ 117.9100 or 117.9120
FCD+	On or after the final compliance date in 30 TAC §§ 117.9100 or 117.9120

- ★ **Complete “Functionally Identical Replacement” only if “Date Placed in Service” is “92-93,” or “93-FCD,” or “FCD+” and located in Beaumont/Port Arthur ozone nonattainment area.**

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. Enter the code on the form.

<u>Code</u>	<u>Description</u>
YES	Unit is a functionally identical replacement
NO	Unit is not a functionally identical replacement

Annual Heat Input:

Select one of the following options for the annual heat input. Enter the code on the form.

<u>Code</u>	<u>Description</u>
22-	Annual heat input is less than or equal to 2.2(1011) Btu/yr
22+	Annual heat input is greater than 2.2(1011) Btu/yr

Service Type:

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

<u>Code</u>	<u>Description</u>
UTIL	Utility boiler (other than peaking service)
AUX-D	Auxiliary boiler that is an affected facility under 40 CFR Part 60, Subpart D, Db, or Dc
AUX	Auxiliary boiler that is not an affected facility under 40 CFR Part 60, Subpart D, Db, or Dc

▼ **Continue if “Annual Heat Input” is “22+;” AND**

“Date Placed in Service” is “92-”; OR

“Date Placed in Service” is “93-FCD” and “Functionally Identical Replacement” is “YES.”

Fuel Type:

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

<u>Code</u>	<u>Description</u>
NG	Natural gas (gaseous)
CL	Coal
FO	Fuel oil (liquid)
WST	Waste oil (liquid)

If a fuel-firing option consists of multiple fuel types being combusted simultaneously, enter the 30 TAC Chapter 117 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. If multiple fuels that use the same code are simultaneously combusted then enter the code once for each fuel (See Fuel-firing Option C: for an example of multiple types of fuel oil fired simultaneously).

Example:

Fuel-firing Option A:

Fuel-firing Option B:

Fuel-firing Option C:

SOP Index No.	Fuel Type	Fuel Type	Fuel Type
R7UT-1	NG	CL	
R7UT-2A	NG	CL	FO
R7UT-3	NG	FO	FO

- ★ **Complete “RACT NOx Emission Limitation” only if the site is located in the Beaumont/Port Arthur ozone nonattainment area and “Service Type” is “AUX” or “AUX-D.”**

Ract NOx Emission Limitation:

Title 30 TAC Chapter 117 provides several methods to be in compliance with the applicable NOx limitation standards listed in 30 TAC §§ 117.1005. Select one of the following options. Enter the code on the form.

<u>Code</u>	<u>Description</u>
X05	Title 30 TAC §§ 117.1005 [relating to Emission Specifications for Reasonably Available Control Technology]
ACSS	Title 30 TAC §§ 117.1025, [relating to Alternative Case Specific Specifications]

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

- ★ **Complete “ESAD NOx Emission Limitation” only if “RACT NOx Emission Limitation” was NOT completed.**

ESAD NOx Emission Limitation:

Title 30 TAC Chapter 117 provides several methods to be in compliance with the applicable NOx limitation standards listed in 30 TAC §§ 117.1010, 117.1210, or 117.1310. Select one of the following options. Enter the code on the form.

<u>Code</u>	<u>Description</u>
X10	Title 30 TAC §§ 117.1010 or 117.1310 [relating to Emission Specifications for Attainment Demonstration]
SC	Title 30 TAC §§ 117.1020 [relating to System Cap]
1201-	Unit complying with any applicable permit limit in a permit issued before January 2, 2001, in lb/MMBtu heat input as specified in § 117.1220 [relating to System Cap] and 30 TAC Chapter 101, Subchapter H, Division 3
1201+	Unit complying with any applicable permit limit in a permit issued on or after January 2, 2001, that the owner or operator submitted an application determined to be administratively complete by the E.D. before January 2, 2001, in lb/MMBtu heat input as specified in § 117.1220 [relating to System Cap] and 30 TAC Chapter 101, Subchapter H, Division 3
12PBR	Unit complying with any applicable permit limit in a permit by rule under which construction commenced by January 2, 2001, that the owner or operator submitted an application determined to be administratively complete by the E.D. before January 2, 2001, in lb/MMBtu heat input as specified in § 117.1220 [relating to System Cap] and 30 TAC Chapter 101, Subchapter H, Division 3
1210	Title 30 TAC § 117.1210 [relating to Emission Specifications for Attainment Demonstration] (not complying with any above emission specifications)

★ **Complete “EGF” only if located in the Houston/Galveston/Brazoria ozone nonattainment area.**

EGF:

Enter “YES” if the unit meets the definition of an electric generating facility (EGF). Otherwise, enter “NO.”

Table 6b: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117) Subchapter C: Combustion Control at Major Utility Electric Generation Sources in Ozone Non-Attainment Areas

Unit ID No.:

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

SOP Index No.:

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

★ **Complete “Fuel Firing Option” only if the site is located in the Houston/Galveston/Brazoria ozone nonattainment area and “ESAD NOx Emission Limitation” is “X10” and “Service Type” is “UTIL.”**

Fuel Firing Option:

Title 30 TAC Chapter 117 provides two methods to be in compliance with the applicable NOx limitation standards listed in 30 TAC § 117.1210(a)(1)(B). Select one of the following options. Enter the code on the form.

<u>Code</u>	<u>Description</u>
WALL	Wall-fired
TANG	Tangential-fired

- ★ **Complete “ESAD NOx Emission Limitation for DFW 8-Hour” only if the site is located in the Dallas/Fort Worth Eight Hour ozone nonattainment area and “ESAD NOx Emission Limitation” is “X10” and “Service Type” is “UTIL.”**

ESAD NOx Emission Limitation for DFW 8-Hour:

Title 30 TAC Chapter 117 provides several methods to be in compliance with the applicable NOx limitation standards listed in 30 TAC §§ 117.1310. Select one of the following options. Enter the code on the form.

<u>Code</u>	<u>Description</u>
SMALL	Unit part of a small utility system as defined in § 117.10
ANNUAL	Unit calculating emissions on an annual average basis lb/MW-hr
LRG-SW	Unit part of a large utility system calculating emissions on a system-wide heat input weighted average basis
LRG	Unit part of a large utility system not calculating emissions on a system-wide heat input weighted average basis

NOx Monitoring System:

Select one of the following monitoring system options. Enter the code on the form.

<u>Code</u>	<u>Description</u>
75-E	Monitoring operating parameters in accordance with 40 CFR Part 75, Appendix E
CEMS	Continuous emission monitoring system
PEMS	Predictive emission monitoring system in accordance with 30 TAC §§ 117.1040(f), 117.1240(g) or 117.1340(g)
1HR	Monitoring operating parameters using the maximum block 1 hour emission rate as measured by the 30 day test
NONE	Not using any of the above options

- ★ **Complete “Title 30 TAC Chapter 116 Permit Limit” only if in the Beaumont/Port Arthur ozone nonattainment area, “RACT NOx Emission Limitation” is “X05” and the unit is an auxiliary steam boiler.**

Title 30 TAC Chapter 116 Permit Limit:

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

<u>Code</u>	<u>Description</u>
82Y	Emission limit in a 30 TAC Chapter 116 permit issued after March 3, 1982 is equal to 0.12 pound NOx per MMBtu heat input

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

<u>Code</u>	<u>Description</u>
93Y	NOx emission limit in 30 TAC § 117.1005 is greater than the NOx emission limit in a 30 TAC Chapter 116 permit
93N	NOx emission limit in 30 TAC § 117.1005 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 in 30 TAC §§ 117.9100, as functionally identical replacement for an existing unit or group of units and limited to the cumulative maximum rated capacity of the units replaced:

<u>Code</u>	<u>Description</u>
95Y	Emission limit in 30 TAC § 117.1005 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 § 117.1005 is not greater than the NOx emission limit in any 30 TAC Chapter 116 permit issued after June 9, 1993

CO Emission Limitation:

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

<u>Code</u>	<u>Description</u>
1005	Title 30 TAC § 117.1005(h) [relating to Emission Specifications for Reasonably Available Control Technology] (use for boilers located in the Beaumont/Port Arthur ozone nonattainment area)
1010	Title 30 TAC § 117.1010(b)(1) [relating to Emission Specifications for Attainment Demonstration] (use for boilers located in the Beaumont/Port Arthur ozone nonattainment area)
1210	Title 30 TAC § 117.1210(b)(1) [relating to Emission Specifications for Attainment Demonstration] (use for boilers located in the Houston/Galveston/Brazoria ozone nonattainment area)
1310	Title 30 TAC § 117.1310(b)(1)(A) [relating to Emission Specifications for Eight-Hour Attainment Demonstration] (use for boilers located in the Dallas/Fort Worth Eight-Hour ozone nonattainment area)
ACSS	Unit is complying with an Alternative Case Specific Specifications under 30 TAC §§ 117.1025, 117.1225 or 117.1325

CO Monitoring System:

Select one of the following monitoring system options. Enter the code on the form.

<u>Code</u>	<u>Description</u>
CEMS	Continuous emission monitoring system
PEMS	Predictive emission monitoring system in accordance with 30 TAC §§ 117.1040(f), 117.1240(g) or 117.1340(g)
NONE	Not using CEMS or PEMS

Ammonia Use:

Enter “YES” if urea or ammonia injection is used to control NOx emissions. Otherwise, enter “NO.”

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

NH3 Emission Limitation:

Title 30 TAC Chapter 117 provides two methods to be in compliance with the applicable NH3 limitation standards listed in 30 TAC Chapter 117, Subchapter C. Select one of the following options. Enter the code on the form.

<u>Code</u>	<u>Description</u>
1005	Title 30 TAC § 117.1005(j) [relating to Emission Specifications for Reasonably Available Control Technology] (use for boilers located in the Beaumont/Port Arthur ozone nonattainment area)
1010	Title 30 TAC § 117.1010(b)(2) [relating to Emission Specifications for Attainment Demonstration] (use for boilers located in the Beaumont/Port Arthur ozone nonattainment area)
1210	Title 30 TAC § 117.1210(b)(2) [relating to Emission Specifications for Attainment Demonstration] (use for boilers located in the Houston/Galveston/Brazoria ozone nonattainment area)
1310	Title 30 TAC § 117.1310(b)(2) [relating to Emission Specifications for Eight-Hour Attainment Demonstration] (use for boilers located in the Dallas/Fort Worth Eight-Hour ozone nonattainment area)
ACSS	Unit is complying with an Alternative Case Specific Specification under 30 TAC §§ 117.1025, 117.1225 or 117.1325

NH3 Monitoring System:

Select one of the following monitoring system options. Enter the code on the form.

<u>Code</u>	<u>Description</u>
CEMS	Continuous emission monitoring system
PEMS	Predictive emission monitoring system in accordance with 30 TAC §§ 117.1040(f), 117.1240(g) or 117.1340(g)
NONE	Not using CEMS or PEMS

**Table 7: Title 30 Texas Administrative Code Chapter 112 (30 TAC Chapter 112)
Control of Air Pollution from Sulfur Compounds**

★ **Complete only for units combusting liquid fuel or solid fossil fuel. Complete only for SOP applications.**

Unit ID No.:

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

SOP Index No.:

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

Fuel Type:

Select one of the following options for the fuel type as it pertains to 30 TAC Chapter 112. Enter the code on the form.

For units located in Harris or Jefferson County:

<u>Code</u>	<u>Description</u>
SLD-HJ	Solid fossil fuel
LQD+3	Liquid fuel with a sulfur content greater than 0.3% by weight
LQD-3	Liquid fuel with a sulfur content less than or equal to 0.3% by weight

For units located in other counties:

<u>Code</u>	<u>Description</u>
SLD	Solid fossil fuel
LQD	Liquid fuel

★ **Complete “Date of Operation” only for units located in Milam County and with “Fuel Type” designation of “SLD.”**

Date of Operation:

Select one of the following options for the date of operation. Enter the code on the form.

<u>Code</u>	<u>Description</u>
55-	Began operation before January 1, 1955
55+	Began operation on or after January 1, 1955

Heat Input:

Select one of the following options for the design heat input. Enter the code on the form.

For units with “Fuel Type” designation of “SLD” or “SLD-HJ:”

<u>Code</u>	<u>Description</u>
250S-	Design heat input is less than or equal to 250 MMBtu/hr
25-15H	Design heat input is greater than 250 MMBtu/hr but less than or equal to 1500 MMBtu/hr
15H+	Design heat input is greater than 1500 MMBtu/hr

For units with “Fuel Type” designation of “LQD,” “LQD+3,” or “LQD-3:”

<u>Code</u>	<u>Description</u>
250L-	Design heat input is less than or equal to 250 MMBtu/hr
250+	Design heat input is greater than 250 MMBtu/hr

★ Complete “Control Equipment” only if “Heat Input” is “25-15H,” “15H+,” or “250+.”

Control Equipment:

Select one of the following options for SO2 control equipment. Enter the code on the form.

<u>Code</u>	<u>Description</u>
SO2	Unit equipped with SO2 control equipment
NONE	Unit not equipped with SO2 control equipment

★ Complete “FCAA § 412(c)” only if “Control Equipment” is “SO2.”

FCAA § 412(c):

Enter “YES” if the unit is subject to the Federal Clean Air Act § 412(c) [FCAA § 412(c)] as amended in 1990. Otherwise, enter “NO.”

★ Complete “Stack Height” only if “Fuel Type” is “LQD,” “LQD+3,” or “LQD-3.”

Stack Height:

Enter “YES” if the effective stack height is less than the standard effective stack height for each stack to which the unit routes emissions. Otherwise, enter “NO.”

**Table 8a: Title 30 Texas Administrative Code Chapter 113 (30 TAC Chapter 113)
Subchapter D: Hospital/Medical/Infectious Waste Incinerators**

★ Complete this table only for an existing hospital/medical/infectious waste incinerator (HMIWI) as defined in 30 TAC § 113.2070.

Unit ID No.:

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

SOP Index No.:

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

Construction Date:

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

<u>Code</u>	<u>Description</u>
-96	On or before June 20, 1996
+96	After June 20, 1996

▼ **Continue only if “Construction Date” is “-96.”**

Combustor Type:

Enter “YES” if the HMIWI unit meets one of the combustor types specified in Table 1 of 30 TAC § 113.2070. Otherwise, enter “NO.”

★ **Complete “Type of Waste” and “Co-Fired Combustor” only if “Combustor Type” is “YES.”**

Type of Waste:

Enter “YES” if the boiler is burning only pathological waste, low-level radioactive waste, and/or chemotherapeutic waste. Otherwise, enter “NO.”

CO-Fired Combustor:

Enter “YES” if the boiler is a co-fired combustor as defined in 30 TAC § 113.2070. Otherwise, enter “NO.”

▼ **Continue only if “Combustor Type” is “NO.”**

HMIWI Size:

Enter “YES” if the incinerator is a small remote HMIWI as defined in 30 TAC § 113.2070. Otherwise, enter “NO.”

▼ **Continue only if “HMIWI SIZE” is “YES.”**

Control Device:

Enter “YES” if the boiler is equipped with a dry scrubber followed by a fabric filter, a wet scrubber, or a dry scrubber followed by both a fabric filter and a wet scrubber. Otherwise, enter “NO.”

PM CEMS:

Enter “YES” if the incinerator uses a continuous emissions monitoring system (CEMS) to demonstrate compliance with the PM emission limit. Otherwise, enter “NO.”

Opacity Monitoring:

Select one of the following options that describe the method used to demonstrate compliance with the opacity emission limit. Enter the code on the form.

<u>Code</u>	<u>Description</u>
COMS	Continuous opacity monitoring system
EQUIV	Equivalent opacity monitor approved by the EPA Administrator
NONE	No opacity monitoring system

Approved Equivalent ID No.:

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

**Table 8b: Title 30 Texas Administrative Code Chapter 113 (30 TAC Chapter 113)
Subchapter D, Hospital/Medical/Infectious Waste Incinerators**

Unit ID No.:

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

SOP Index No.:

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

Commercial Unit:

Enter “YES” if the unit has a commercial medical waste incinerator, or if it burns more than 200 lbs/hr of hospital waste or medical/infectious waste. Otherwise, enter “NO.”

CO Monitoring:

Select one of the following options that describe the method used to demonstrate compliance with the CO emission limit. Enter the code on the form.

<u>Code</u>	<u>Description</u>
CEMS	Continuous emission monitoring system (CEMS)
EQUIV	Equivalent CO monitor approved by the EPA Administrator
NONE	No CO monitoring system

Approved Equivalent ID No.:

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

Dioxins/Furans CEMS:

Enter “YES” if the incinerator uses a continuous emissions monitoring system (CEMS) to demonstrate compliance with the dioxins/furans emission limit. Otherwise, enter “NO.”

Toxic Equivalent Method:

Enter “YES” if the toxic equivalent quantity method as described in 30 TAC § 113.2075(a)(1)(F) is used to determine compliance with the dioxins/furans emission limit. Otherwise, enter “NO.”

HCL CEMS:

Enter “YES” if the incinerator uses a continuous emissions monitoring system (CEMS) to demonstrate compliance with the HCL emission limit. Otherwise, enter “NO.”

HCL Percentage Reduction Method:

Enter “YES” if the percentage reduction method as described in 30 TAC § 113.2075(a)(1)(G) is used to determine compliance with the HCL emission limit. Otherwise, enter “NO.”

**Table 8c: Title 30 Texas Administrative Code Chapter 113 (30 TAC Chapter 113)
Subchapter D, Hospital/Medical/Infectious Waste Incinerators**

Unit ID No.:

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

SOP Index No.:

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

PB CEMS:

Enter “YES” if the incinerator uses a continuous emissions monitoring system (CEMS) to demonstrate compliance with the Pb emission limit. Otherwise, enter “NO.”

PB Percentage Reduction Method:

Enter “YES” if the percentage reduction method as described in 30 TAC § 113.2075(a)(1)(G) is used to determine compliance with the Pb emission limit. Otherwise, enter “NO.”

CD CEMS:

Enter “YES” if the incinerator uses a continuous emissions monitoring system (CEMS) to demonstrate compliance with the Cd emission limit. Otherwise, enter “NO.”

CD Percentage Reduction Method:

Enter “YES” if the percentage reduction method as described in 30 TAC § 113.2075(a)(1)(G) is used to determine compliance with the Cd emission limit. Otherwise, enter “NO.”

HG CEMS:

Enter “YES” if the incinerator uses a continuous emissions monitoring system (CEMS) to demonstrate compliance with the Hg emission limit. Otherwise, enter “NO.”

HG Percentage Reduction Method:

Enter “YES” if the percentage reduction method as described in 30 TAC § 113.2075(a)(1)(G) is used to determine compliance with the Hg emission limit. Otherwise, enter “NO.”

**Table 9a: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subchapter E, Division 1: Utility Electric Generation in East and Central Texas**

- ★ **Complete tables 9a through 9c only for utility electric power boilers and steam generating units generating electric energy for compensation used in an electric power generating system owned or operated by an electric cooperative, independent power producer, municipality, river authority, or public utility, or any of its successors.**
- ★ **Complete tables 9a through 9c only for facilities located in Atascosa, Bastrop, Bexar, Brazos, Calhoun, Cherokee, Fannin, Fayette, Freestone, Goliad, Gregg, Grimes, Harrison, Henderson, Hood, Hunt, Lamar, Limestone, Marion, McLennan, Milam, Morris, Nueces, Parker, Palo Pinto, Red River, Robertson, Rusk, Titus, Travis, Victoria, or Wharton County.**

Sites owned or operated by an electric cooperative, municipality, river authority, or public utility located in Parker County have applicability under both 30 TAC Chapter 117, Subchapter C, Division 4: Dallas/Fort Worth Eight-Hour Ozone Nonattainment Area Utility Electric Generation Sources and under 30 TAC Chapter 117, Subchapter E, Division 1: Utility Electric Generation in East and Central Texas and should complete both Tables 9a - 9c and Tables 6a - 6b to determine requirements.

Independent power producers in Parker County are subject only to the requirements of 30 TAC Chapter 117, Subchapter E, Division 1: Utility Electric Generation in East and Central Texas and should complete only Tables 9a - 9c.

Unit ID No.:

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

SOP Index No.:

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

Date Placed in Service:

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

<u>Code</u>	<u>Description</u>
95-	Before December 31, 1995
95+	On or after December 31, 1995

- ▼ **Continue only if “Date Placed in Service” is “95-.”**

Unit Exempt:

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

<u>Code</u>	<u>Description</u>
INTUSE	The unit generates electric energy primarily for internal use but, averaged over the three most recent calendar years, has sold less than one third of its potential electrical output capacity to a utility power distribution system.
HEATIN	The unit has an annual heat input of 2.2(1011) Btu/yr or less, averaged over the three most recent calendar years.
NONE	The unit does not qualify for any exemptions under the rule.

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

Location:

Enter “YES” if the unit is a gas-fired steam generator located in Palo Pinto County as specified in 30 TAC § 117.3005(a). Otherwise, enter “NO.”

★ Complete Table 9b if “Location” is “NO.” Do not complete the rest of Table 9a.

Capacity:

Select one of the following options that describe the capacity of the gas-fired steam generating unit. Enter the code on the form.

<u>Code</u>	<u>Description</u>
6-	The unit has the capacity to generate less than 600,000 lb/hr of steam continuously.
6-11	The unit has the capacity to generate more than 600,000 lb/hr but less than 1,100,000 lb/hr of steam continuously.
11+	The unit has the capacity to generate more than 1,100,000 lb/hr of steam continuously.

▼ **Do not continue if “Capacity” is “6-.”**

★ **Complete “30% of the Max” only if “Capacity” is “6-11.”**

30% of the Maximum:

Enter “YES” if the total steam generated from the unit is less than or equal to 30% of the maximum continuous steam capacity times the number of hours in a year. Otherwise, enter “NO.”

▼ **Do not complete “Firing Method” if “30% of the Max” is “YES.”**

Firing Method:

Select the option that describes the firing method for the unit. Enter the code on the form.

<u>Code</u>	<u>Description</u>
OFG	The unit is an opposed-fire steam generating unit.
FFG	The unit is a front-fired steam generating unit.
TFG	The unit is a tangential-fired steam generating unit.

**Table 9b: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subchapter E, Division 1: Utility Electric Generation in East and Central Texas**

Unit ID No.:

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

SOP Index No.:

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

▼ **Do not continue if “Location” is “YES.”**

NOx Emission Limitation:

Title 30 TAC Chapter 117 provides two methods to be in compliance with the applicable NOx limitation standards listed in 30 TAC § 117.3010(1). Select one of the following options. Enter the code on the form.

<u>Code</u>	<u>Description</u>
3010	Title 30 TAC § 117.3010(1) [relating to Emission Specifications]
SC	Unit is complying with the System Cap under 30 TAC §§ 117.3020

★ **Complete “Fuel” only if “NOx Emission Limitation” is “3010.”**

Fuel:

Select one of the following options that describes the fuel fired in the unit. Enter the code on the form.

<u>Code</u>	<u>Description</u>
COAL	The unit is a coal fired electric power boiler.
GAS	The unit is a gas fired electric power boiler.

NOx Monitoring:

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

<u>Code</u>	<u>Description</u>
CEMS	A continuous emissions monitoring system is used to monitor NOx emissions.
PEMS	A parametric emissions monitoring system is used to monitor NOx emissions.

Maximum Emission Rate:

Enter “YES” if the owner or operator is using the maximum emission rate measured by the testing conducted in § 117.3035(d) to provide substitute emissions compliance when the NOx monitor is off-line. Otherwise, enter “NO.”

Ammonia Use:

Enter “YES” if urea or ammonia injection is used to control NOx emissions. Otherwise, enter “NO.”

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

NH3 Emission Limitation:

Title 30 TAC Chapter 117 provides two methods to be in compliance with the applicable NH3 limitation standards listed in 30 TAC Chapter 117, Subchapter E. Select one of the following options. Enter the code on the form.

<u>Code</u>	<u>Description</u>
3010	Title 30 TAC § 117.3010(2) [relating to Emission Specifications]
ACSS	Unit is complying with an Alternative Case Specific Specification under 30 TAC §§ 117.3025

Ammonia Monitoring:

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

<u>Code</u>	<u>Description</u>
CEMS	A continuous emissions monitoring system is used to monitor ammonia emissions.
PEMS	A parametric emissions monitoring system is used to monitor ammonia emissions.
OTHER	A monitoring system other than a CEMS or PEMS is used to monitor ammonia emissions.

**Table 10a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart EEE: Hazardous Waste Combustors**

★ **Complete this table for solid or liquid fueled boilers 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 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP/GOP Index No.:

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

Type Fuel:

Select one of the following options. Enter the code on the form.

<u>Code</u>	<u>Description</u>
SOLID	Boiler burns solid fuel
LIQUID	Boiler burns liquid fuel

Existing Source:

Enter “YES” if the boiler is an existing source (construction or reconstruction commenced on or before April 20, 2004). Otherwise, enter “NO.”

Area Source:

Enter “YES” if the boiler 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 § 63.1216 or § 63.1217 per § 266.100(b)(3). Otherwise, enter “NO.”

Dioxin/Furan Standard:

Select one of the following options. Enter the code on the form.

For solid fuel boilers:

<u>Code</u>	<u>Description</u>
CO-1S	Complying with the CO standard in § 63.1216(a)(1) or (b)(1)
THC-1S	Complying with the THC standard in § 63.1216(a)(1) or (b)(1)

For liquid fuel boilers:

<u>Code</u>	<u>Description</u>
DF-1L	Complying with the dioxin/furan standard in § 63.1217(a)(1)(i) or (b)(1)(i) [Note: for boilers equipped with a dry air pollution control system]
CO-1L	Complying with the CO standard in § 63.1217(a)(1)(ii) or (b)(1) (ii)
THC-1L	Complying with the THC standard in § 63.1217(a)(1) (ii) or (b)(1) (ii)

★ **Complete “Heating Value” only if “Type Fuel” is “LIQUID.”**

Heating Value:

Enter “YES” if the hazardous waste as-fired heating value is less than 10,000 Btu/lb. Otherwise, enter “NO.”

Hg Feedrate:

Enter “YES” if extrapolation of feedrate levels is used for Hg. Otherwise, enter “NO.”

**Table 10b: 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 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP/GOP Index No.:

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

ALT Metals

Enter “YES” if in lieu of complying with the particulate matter standards, you elect to comply with the alternative metal emission control requirement. Otherwise, enter “NO.”

MET Feedrate:

Enter “YES” if extrapolation of feedrate levels is used for semivolatile and low volatile metals. Otherwise, enter “NO.”

CO/THC Standard:

Select one of the following options. Enter the code on the form.

<u>Code</u>	<u>Description</u>
CO-5	Complying with the CO standard in § 63.1216(a)(5)(i) or (b)(5)(i); or § 63.1217(a)(5)(i) or (b)(5)(i)
THC-5	Complying with the THC standard in § 63.1216(a)(5)(ii) or (b)(5)(ii); or § 63.1217(a)(5)(ii) or (b)(5)(ii)

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 11: 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 10 characters) as listed on Form OP-SUM (Individual Unit Summary).

SOP/GOP Index No.:

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

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 12: Title 30 Texas Administrative Code Chapter 111 (30 TAC Chapter 111)
Subchapter A, Division 5: Emission Limits on Nonagricultural Processes**

- ★ **Complete this table only for solid fossil fuel-fired steam generators or oil or gas fuel-fired steam generators with a heat input greater than 2,500 million Btu per hour that have to address periodic monitoring (PM) or compliance assurance monitoring (CAM) requirements for 30 TAC Chapter 111, Nonagricultural Processes. Sources that do not have to address PM or CAM for this regulation are covered on form OP-REQ1.**

Steam generators that meet the applicability of CAM:

- Have a pre-control potential to emit that equals or exceeds the major source threshold for particulate matter; and
- Use a control device to meet the particulate matter emission limit specified in 30 TAC §111.153(b) or (c).

Steam generators that are not subject to CAM may require periodic monitoring for assuring compliance with the particulate matter emission limit in 30 TAC §111.153(b) or (c). Periodic monitoring is required for all steam generators where the actual emissions of particulate matter exceed 50 tons per year.

CAM and periodic monitoring requirements must be submitted separately on form OP-MON.

Unit ID No.:

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

SOP Index No.:

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

Source Type:

Select one of the following options. Enter the code on the form.

<u>Code</u>	<u>Description</u>
SOLID	Solid fossil fuel-fired steam generator
OIL/GAS	Oil or gas fuel-fired steam generator with a heat input greater than 2,500 million Btu per hour

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**Table 1a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart D: Standards of Performance for Fossil Fuel-Fired Steam Generators**

Date:	Permit No.:	Regulated Entity No.:
Area Name:		Customer Reference No.:

Unit ID No.	SOP Index No.	Construction/ Modification Date	Covered Under Subpart Da	Changes to Existing Affected Facility	Heat Input Rate	Alternate 42C	PM CEMS	Gas or Liquid Fuel Only	Fuels with 0.33 % or Less Sulfur	PM CEMS Petition

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**Table 2b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
 Subpart Da: Standards of Performance for Electric Utility Steam Generating Units**

Date:	Permit No.:	Regulated Entity No.:
Area Name:		Customer Reference No.:

Unit ID No.	SOP Index No.	NOx IGCC Standard	Unit Type	Monitoring Type				Commercial Demonstration Permit	SO2 Emission Rate	FGD	SO2 Standard Basis	NOx Standard Basis
				PM	OPACITY	SO2	NOx					

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**Table 2c: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
 Subpart Da: Standards of Performance for Electric Utility Steam Generating Units**

Date:	Permit No.:	Regulated Entity No.:
Area Name:		Customer Reference No.:

Unit ID No.	SOP Index No.	Fuel Pretreatment	Combined Cycle System	Duct Burner	PM Flow Monitoring System	SO2 Flow Monitoring System	NOX Flow Monitoring System

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**Table 3b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
 Subpart Db: Standards of Performance for Industrial-Commercial Steam Generating Units**

Date:	Permit No.:	Regulated Entity No.:
Area Name:		Customer Reference No.:

Unit ID No.	SOP Index No.	D-Series Fuel Type	D-Series Fuel Type	D-Series Fuel Type	Subpart D	Subpart J	Subpart E	ACF Option		
								SO2	PM	NOX

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**Table 3d: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Db: Standards of Performance for Industrial-Commercial Steam Generating Units**

Date:	Permit No.:	Regulated Entity No.:
Area Name:		Customer Reference No.:

Unit ID No.	SOP Index No.	Residual Oil Sampling	Monitoring Type				Technology Type	Unit Type	Heat Release Rate	Heat Input Gas/ Oil	Heat Input Wood	Fuel Heat Input
			PM	OPACITY	NOX	SO2						

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**Table 3e: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Db: Standards of Performance for Industrial-Commercial Steam Generating Units**

Date:	Permit No.:	Regulated Entity No.:
Area Name:		Customer Reference No.:

Unit ID No.	SOP Index No.	Alternate Emission Limit (AEL)	AEL ID. NO.	Facility Type	Monitoring Device	Common Fuel Source

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**Table 4a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
 Subpart Dc: Standards of Performance for Industrial-Commercial Steam Generating Units**

Date:	Permit No.:	Regulated Entity No.:
Area Name:		Customer Reference No.:

Unit ID No.	SOP Index No.	Construction/ Modification Date	Maximum Design Heat Input Capacity	Other Subparts	Heat Input Capacity	D-Series Fuel Type	D-Series Fuel Type	D-Series Fuel Type	ACF Option		30% Coal Duct Burner
									SO2	PM	

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**Table 4b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Dc: Standards of Performance for Industrial-Commercial Steam Generating Units**

Date:	Permit No.:	Regulated Entity No.:
Area Name:		Customer Reference No.:

Unit ID No.	SOP Index No.	Monitoring Type			Technology Type	43CE-Option	47C-Option
		PM	SO2 Inlet	SO2 Outlet			

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**Table 6a: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
 Subpart C: Combustion Control at Major Utility Electric Generation
 Sources in Ozone Nonattainment Areas**

Date:	Permit No.:	Regulated Entity No.:
Area Name:		Customer Reference No.:

Unit ID No.	SOP Index No.	Date Placed In Service	Functionally Identical Replacement	Annual Heat Input	Service Type	Fuel Type	Fuel Type	Fuel Type	RACT NO _x Emission Limitation	ESAD NO _x Emission Limitation	EGF

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**Table 8b: Title 30 Texas Administrative Code Chapter 113 (30 TAC Chapter 113)
 Subchapter D: Hospital/Medical/Infections Waste Incinerators**

Date:	Permit No.:	Regulated Entity No.:
Area Name:		Customer Reference No.:

Unit ID No.	SOP Index No.	Commercial Unit	CO Monitoring	Approved Equivalent ID No.	Dioxins/ Furans CEMS	Toxic Equivalent Method	HCL CEMS	HCL Percentage Reduction Method

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**Table 8c: Title 30 Texas Administrative Code Chapter 113 (30 TAC Chapter 113)
 Subchapter D: Hospital/Medical/Infections Waste Incinerators**

Date:	Permit No.:	Regulated Entity No.:
Area Name:		Customer Reference No.:

Unit ID No.	SOP Index No.	Pb CEMS	Pb % Reduction Method	Cd CEMS	Cd % Reduction Method	Hg CEMS	Hg % Reduction Method

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**Table 9a: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
 Subchapter E, Division 1: Utility Electric Generation in East and Central Texas**

Date:	Permit No.:	Regulated Entity No.:
Area Name:		Customer Reference No.:

Unit ID No.	SOP Index No.	Date Placed in Service	Unit Exempt	Location	Capacity	30% of the Maximum	Firing Method

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**Table 9b: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
 Subchapter E, Division 1: Utility Electric Generation in East and Central Texas**

Date:	Permit No.:	Regulated Entity No.:
Area Name:		Customer Reference No.:

Unit ID No.	SOP Index No.	NOx Emission Limitation	Fuel	NOx Monitoring	Maximum Emission Rate	Ammonia Use	NH3 Emission Limitation	Ammonia Monitoring

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**Table 10a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
 Subchapter EEE: Hazardous Waste Combustors**

Date:	Permit No.:	Regulated Entity No.:
Area Name:		Customer Reference No.:

Unit ID No.	SOP Index No.	Type Fuel	Existing Source	Area Source	Elective Standards	Dioxin/ Furan Standard	Heating Value	Hg Feedrate

