

Level 1 Registrations

General

- Is this a new or existing site?
- In what county is the site located?
- Is the project major or is this site major for nonattainment source levels?
- Is the project a potential to emit or certified emissions of VOC or NO_x increasing above the applicable nonattainment major modification level?
- Is the project a potential to emit or certified emissions of VOC or NO_x increasing above the nonattainment netting trigger?

Netting calculations must be attached which demonstrate a nonattainment review is not required.

- Is the proposed facility or group of facilities required to obtain allowances for NO_x, if they are subject to 30 TAC Chapter 101, Subchapter H, Division 3 (relating to the Mass Emissions Cap and Trade Program)?
- Is this site a petroleum storage and transfer unit with a total storage capacity exceeding 300,000 barrels according to the PSD source categories?

If “YES”:

- Are emissions of any criteria pollutant increasing by 100 tpy?

If “NO”:

- Are emissions of any criteria pollutant increasing by 250 tpy?
- Are emissions increasing above significance levels at an existing major PSD site?
- Does this registration require certification or is certification being submitted voluntarily?

LEVEL 1 (continued)

Select the reason for certifying this registration:

- A. The project or registration includes control or reductions, limited hours, throughput, materials, or other operational limitations which are less than the potential to emit.
- B. The project or registration relies on controls or other information to comply with any state or federal regulation.
- C. Modeling is used to demonstrate compliance with protectiveness.
- D. The project is located at a site subject to NO_x cap and trade requirements in Chapter 101, Subchapter H of this title (relating to Emissions Banking and Trading).
- E. Certification is being submitted voluntarily.

If you select E. please provide a brief explanation why certification is being submitted voluntarily.

- Is this registration for Level 1 or Level 2 of the PBR?
- Does this business qualify as a small business, non-profit organization, or small government entity? (FEE question) Level 1 SB, Level 1 Others, Level 2 SB, Level 2 Others

Scope

- Are all emissions from operationally dependent facilities located within a 1/4 mile included in this registration?
- Has the TCEQ Oil and Gas Spreadsheet been used to calculate emissions for this registration and will it be attached?

Are you aware that this registration has an increased chance of being audited by a permit reviewer if the TCEQ Oil and Gas Spreadsheet is not used? The use of the TCEQ Oil and Gas spreadsheet is highly encouraged because of the following:

- A. Provides consistent methodologies.
 - B. Provides approved factors and methods.
 - C. Consistently updated based on latest research.
 - D. Created for industry with input given by industry to streamline permitting process.
- Are you aware that emission calculations must be provided including all supporting documentation and facility information tables found on the TCEQ website?
 - Is appropriate monitoring, per Table 8, generated and kept when relying on control or recovery devices in emission calculations?

MSS

- Are planned MSS emissions being registered with this authorization?
- Have emissions associated with all planned MSS events/activities been estimated and attached in the emission calculations?

LEVEL 1 (continued)

- Are any engine/compressor start-ups associated with preventative system shutdown activities being authorized as part of normal operation?
- Are all of the following conditions met?
 - A. Prior to operation, alternative operating scenarios to divert gas or liquid streams are registered and certified with supporting documentation
 - B. shutdowns will not result in emissions
 - C. And start-up emissions are controlled to a minimum of 98% efficiency for VOC and H₂S.

LEVEL 1

Is this registration being submitted no later than 180 days from start of operation, or well test after 72 hours, whichever occurred first?

- What are the annual VOC emissions in tons per year (tpy) for this registration?
- What are the total steady-state emissions from crude oil or condensate in lb/hr for this registration?
- What are the total periodic emissions from crude oil or condensate in lb/hr if less than 30 psig?
- What are the total periodic emissions from crude oil or condensate in lb/hr if greater than 30 psig?
- What are the total VOC steady-state emissions from natural gas in lb/hr for this registration?
- What are the total periodic emissions from natural gas VOC in lb/hr if less than 30 psig?
- What are the total periodic emissions from natural gas VOC in lb/hr if more than 30 psig?
- What are the total annual benzene emissions in tpy?
- What are the total steady-state benzene emissions in lb/hr for this registration?
- What are the total periodic emissions from benzene in lb/hr if less than 30 psig?
- What are the total periodic emissions from benzene in lb/hr if more than 30 psig?
- What are the total annual hydrogen sulfide (H₂S) emissions in tpy for this registration?
- What are the total steady-state H₂S emissions in lb/hr for this registration?

LEVEL 1 (continued)

- What are the total periodic emissions from H₂S in lb/hr if less than 30 psig?
- What are the total periodic emissions from H₂S in lb/hr if greater than 30 psig?
- What are the total annual SO₂ emissions in tpy for this registration?
- What are the total steady-state SO₂ emissions in lb/hr for this registration?
- What are the total periodic SO₂ emissions in lb/hr if less than 30 psig for this registration?
- What are the total annual NO_x emissions in tpy for this registration?
- What are the total steady-state NO_x emissions in lb/hr for this registration?
- What are the total annual CO emissions in tpy for this registration?
- What are the total steady-state CO emissions in lb/hr for this registration?
- What are the total annual PM₁₀/PM_{2.5} emissions in tpy for this registration?
- What are the total steady-state PM₁₀/PM_{2.5} emissions in lb/hr for this registration?
- What is the distance in feet to the nearest property line?
- Special Instructions: The distance should be measured from the nearest OGS facility which is part of this project to the nearest property line (includes fugitive components).

Since the distance is less than 50 feet, is this due to an easement?

- Error message: If no, to meet the rule requirements 50 feet or half the distance to an easement have to be met for facilities associated with the project.
- Are fugitive components used for isolation or safety purposes the only emission sources located 1/2 the distance within an applicable easement?

Error Message: If “NO”, to meet the rule requirements 50 feet or half the distance to an easement have to be met for facilities associated with the project.

- What is the distance in feet to the nearest receptor?

Since the distance is less than 50 feet, is this due to an easement?

- Are fugitive components used for isolation or safety purposes the only emission sources located 1/2 the distance within an applicable easement?
- Error Message: If no, to meet the rule requirements 50 feet or half the distance to an easement have to be met for facilities associated with the project.

LEVEL 1 (continued)

- Are total benzene emissions for this project less than 0.039 lb/hr?
- Are the project's maximum predicted concentrations of benzene at the nearest receptor equal to or less than 10% of the appropriate Effects Screening Level (ESL)?
- An impacts evaluation must be attached for benzene demonstrating that protectiveness limits have been met.
- Select method(s) used to demonstrate protectiveness.
- Are total H₂S emissions for this registration less than 0.025 lb/hr?
- Are the project's maximum predicted concentrations of H₂S at the nearest receptor equal to or less than the significant impact level (SIL)?
- An impacts evaluation must be attached for H₂S demonstrating that protectiveness limits have been met.

Select method(s) used to demonstrate protectiveness.

- Are total SO₂ emissions for this registration less than 2.0 lb/hr?
- Are the project's maximum predicted concentrations of SO₂ at the nearest receptor equal to or less than the significant impact level (SIL)?
- An impacts evaluation must be attached for SO₂ demonstrating that protectiveness limits have been met.
- Select method(s) used to demonstrate protectiveness.
- Are total NO_x emissions for this registration less than 4.0 lb/hr?
- Are the project's maximum predicted concentrations of NO_x at the nearest receptor equal to or less than the significant impact level (SIL)?
- An impacts evaluation must be attached for NO_x demonstrating that protectiveness limits have been met.

Select method(s) used to demonstrate protectiveness.

LEVEL 1 (continued)

BMP

- Will a program be established and followed to replace, repair, and/or maintain facilities in good working order?
- Are there any engines or turbines located at this site?
- Will the engines or turbines meet the emission and performance standards listed in Table 6 of the PBR?
- Are there any liquid fueled engines used for back-up power generation and periodic power needs?
- Does the fuel have less than 0.05% sulfur and is it operated less than 876 hours per rolling 12-month period?
- Are engines and turbines used to supply continuous electricity (more than 876 hours per year)?
- Does the site have access to an electric service or grid?
- Special Instructions: Engines or turbines must meet the technical requirements of the Air Quality Standard Permit for Electric Generating Unit (EGU) and attach with this registration if the site has access to an electric service.

If Chapter 117, 40 CFR Part 60 and 40 CFR Part 63 are applicable (or any other state or federal standards), a description of how the engines or turbines meet the standards must be attached.

- Are there any open-topped tanks or ponds located at this site?
- Is the potential to emit less than or equal to 1tpy VOC and 0.1tpy H₂S?
- Will all fugitive components be physically inspected quarterly for leaks?
- Will all fugitive components found to be leaking be repaired in a timely manner consistent with the rule? Help Text: If a leak is found outside of the quarterly inspections, it should be repaired in a timely manner.
- Will tank hatches remain closed (but not completely sealed in order to maintain safe design functionality) except during sampling, gauging, loading, unloading, or planned maintenance activities?
- Will new and reworked valves and piping connections be located in a place that is reasonably accessible for leak checking? Help text: Be aware that underground process pipelines cannot contain buried valves.

LEVEL 1 (continued)

Are you aware that when a Leak Detection and Repair (LDAR) program is used to reduce emissions, the requirements of Table 9 must be met?

Are there any tanks or vessels located at this site?

List your tanks or vessels and what is the primary color (as used in Tanks 4.0). Text question.

If Chapter 115 and 40 CFR Part 60 are applicable (or any other state or federal standards), a description of the tanks and how the standards are met must be attached.

Are any of the following units needed to meet the limitations of this rule?

- A. Vapor Recovery Unit
- B. Flare
- C. Thermal oxidation and Vapor combustion control device
- D. Combustion devices (all others not listed above)
- E. None

If A, C, D:

Based on efficiencies claimed as reduction to emission estimates, the appropriate level of monitoring must be implemented.

If B:

Will flares be designed and operated in accordance with the rule in order to claim the stated destruction efficiency?

If there is any other state or federal standards applicable to this site, attach an explanation showing how they will meet the requirements.

- Will the site be in compliance with all other recordkeeping, sampling and monitoring requirements?

Attachments

Please provide a detailed process description, plot plan, and area map for the site. Help text will include instructions to mark the ¼ mile marks, property line, and receptor.

Please attach the TCEQ Oil and Gas spreadsheet (or equivalent) and any supporting documentation (i.e. program results).

Please attach **all** gas analysis and liquid analysis used for emission calculations. If a site specific analysis is not used, provide justification as to why a representative analysis was used.

LEVEL 1 (continued)

Please attach a copy of any technical documents including manufacturer's specification sheet and operational design sheets including, if you did not use the TCEQ Oil and Gas spreadsheet Table(s) 7, 8, 29, 31. Add EGU.

Please attach the impacts evaluation demonstrating that the site meets the protectiveness limits for each pollutant.

Please attach an explanation of how the company will meet or is exempt from any applicable federal or state standards.

Please attach any other necessary information, such as netting calculations, needed to complete the registration.