Nexus Data Center Hubbard

New Source Review and Prevention of Significant Deterioration Air Permit Application

Prepared for:

Nexus Hubbard Power, LLC

Prepared by:

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SLR Project No.: 120.021834.00001

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Appendices

Appendix A **TCEQ PI-1 NSR Workbook *(Electronic Submission)*, Public Involvement Plan, Plain Language Summary, Expedited Permitting Request, and Air Permit Surcharge Payment**

Appendix B **Emission Calculations (Submitted Electronically)**

Appendix C **TCEQ Fugitive Emissions Workbook (Submitted Electronically)**

Appendix D **RBLC Results**

Appendix E **Modeling Protocol**

1.0 Introduction

1.1 Project Overview

Nexus Hubbard Power, LLC (Nexus) is submitting this New Source Review (NSR) and Prevention of Significant Deterioration (PSD) air permit application to the Texas Commission on Environmental Quality (TCEQ) for the Nexus Data Center Hubbard located in Hill County, Texas (the Site).

The Site features its own dedicated power generation, ensuring reliable and independent energy supply. Power generation includes natural gas-fired combustion turbines and natural gas-fired reciprocating engines. Support systems on site include emergency generator engines. The design incorporates advanced cooling technologies such as chilled water loops, ensuring thermal efficiency and resilience under high computational loads. The Site's power generation will be used onsite and will not sell electricity. The Site supports national policy goals for data center infrastructure.

The Site will be a source of nitrogen oxides (NO_X), carbon monoxide (CO), volatile organic compounds (VOC), sulfur dioxide (SO_2), particulate matter (PM), PM with diameter of 10 microns or less (PM_{10}), PM with diameter of 2.5 of less ($PM_{2.5}$), sulfuric acid (H_2SO_4), ammonia (NH_3), greenhouse gas (GHG), and ozone (O_3). Per NSR, the Site will trigger PSD review for NO_X, CO, VOC, SO_2, PM_{10}, $PM_{2.5}$, GHG (as CO_2e), and O_3. As such, this consolidated permit application covers both the NSR permit and PSD requirements for criteria pollutants and permit.

Pursuant to the Subchapter A regulations of 30 TAC §116, Nexus respectfully submits this NSR application and requests expedited processing. Pursuant to 30 TAC §116.111, the following information is being submitted with this application and supporting appendices:

- Area Map and Site Plan (Section 2);
- Project Description and Emissions Estimates (Section 3);
- Disaster Review (Section 4);
- Permit Fee (Section 5);
- Best Available Control Technology (BACT) Analysis (Section 6);
- Conditions for Granting a Permit Application (Section 7);
- Federal Regulatory Analysis (Section 8)
- Impacts Analysis (Section 9);
- Professional Engineer Certification (Section 10);
- PI-1 Form, NSR Workbook, version 7.0 (Appendix A, submitted electronically);
- Public Involvement Plan Form (Appendix A);
- Plain Language Summary for NSR Initial Permits, English and Spanish (Appendix A);
- APD-EXP Expedited Permitting Request (Appendix A);
- APD-EXP Air Permit Surcharge Payment (Appendix A);
- Emissions Estimates (Appendix B);

- Fugitive Emissions Workbook (Appendix C);
- RBLC Results (Appendix D); and
- Modeling Protocol (Appendix E).

2.0 Area Map and Site Plan

A current area map is included as Figure 2-1 in this section. The Site will be located at 880 State Highway 171 on the outskirts of Hubbard, Texas. The map contains a true north arrow, the entire plant property, and the location of the property relative to prominent geographical features such as highways, roads, streams, and significant landmarks within 3,000 feet of the facility boundary.

The site plan is included as Figure 2-2. The site map of the data center that indicates the general location of facility equipment. The site plan includes a true north arrow, facility benchmarks, and a scale, and shows property lines.

Figure 2-1 Area Map

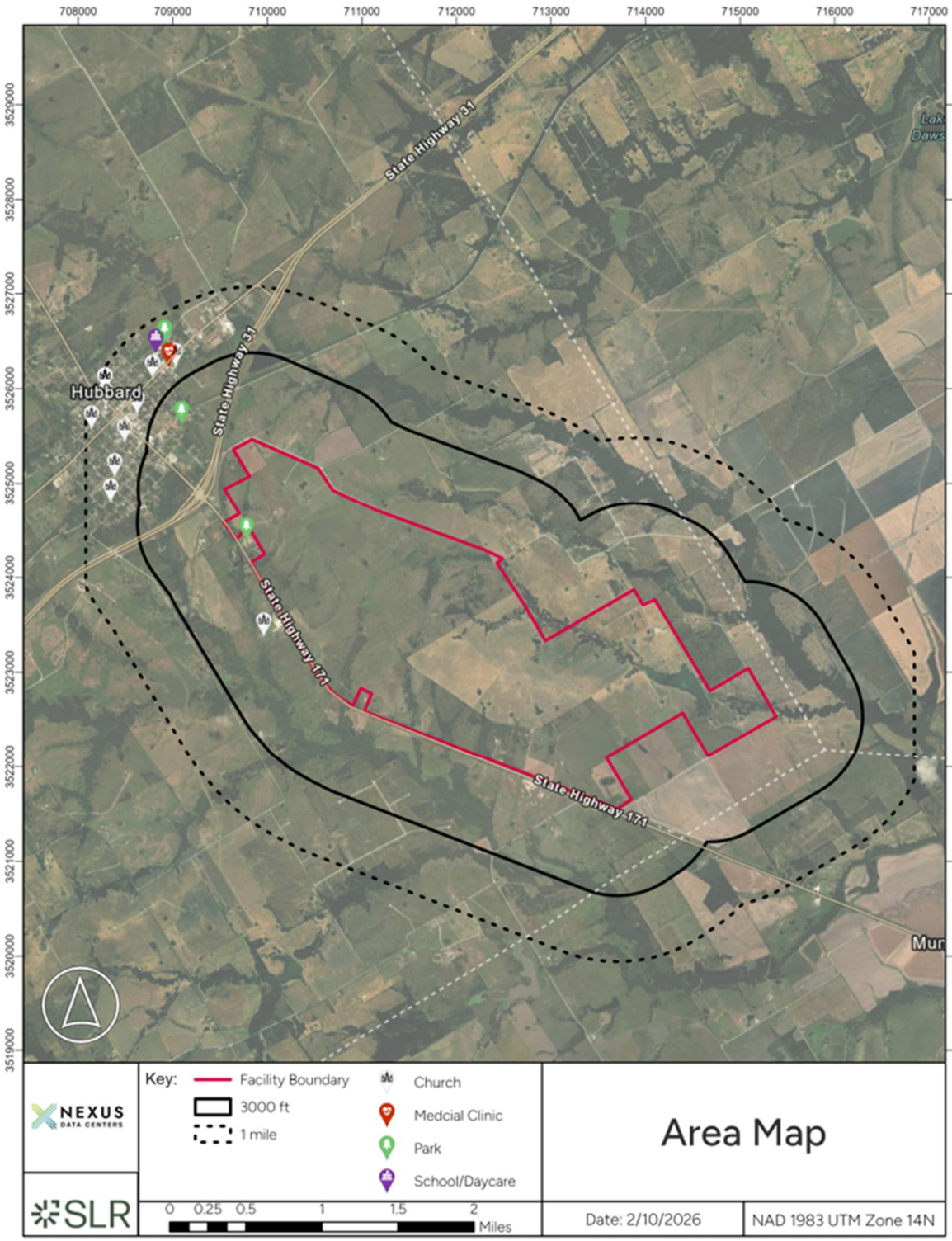


Figure 2-2 Site Plan – Building

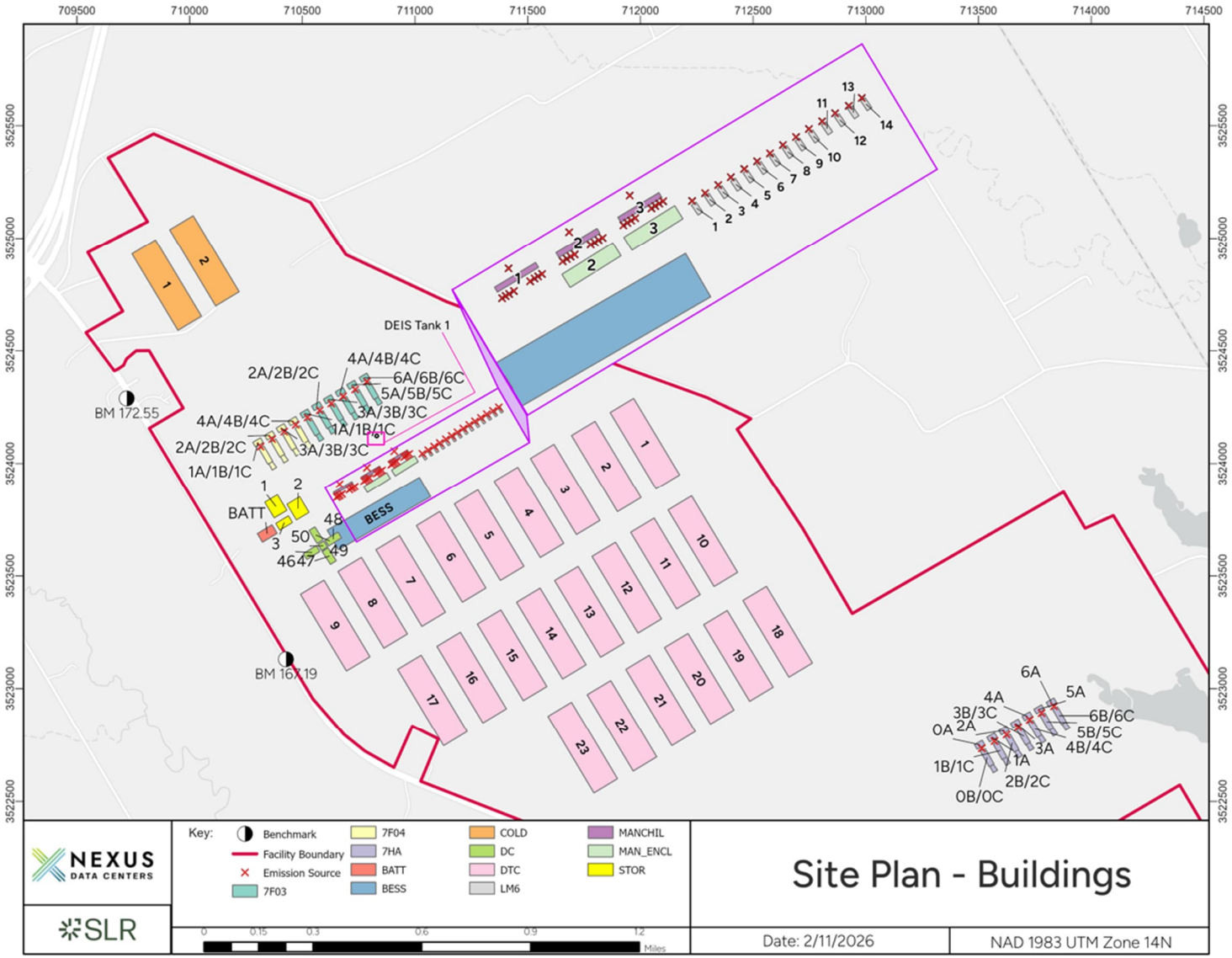
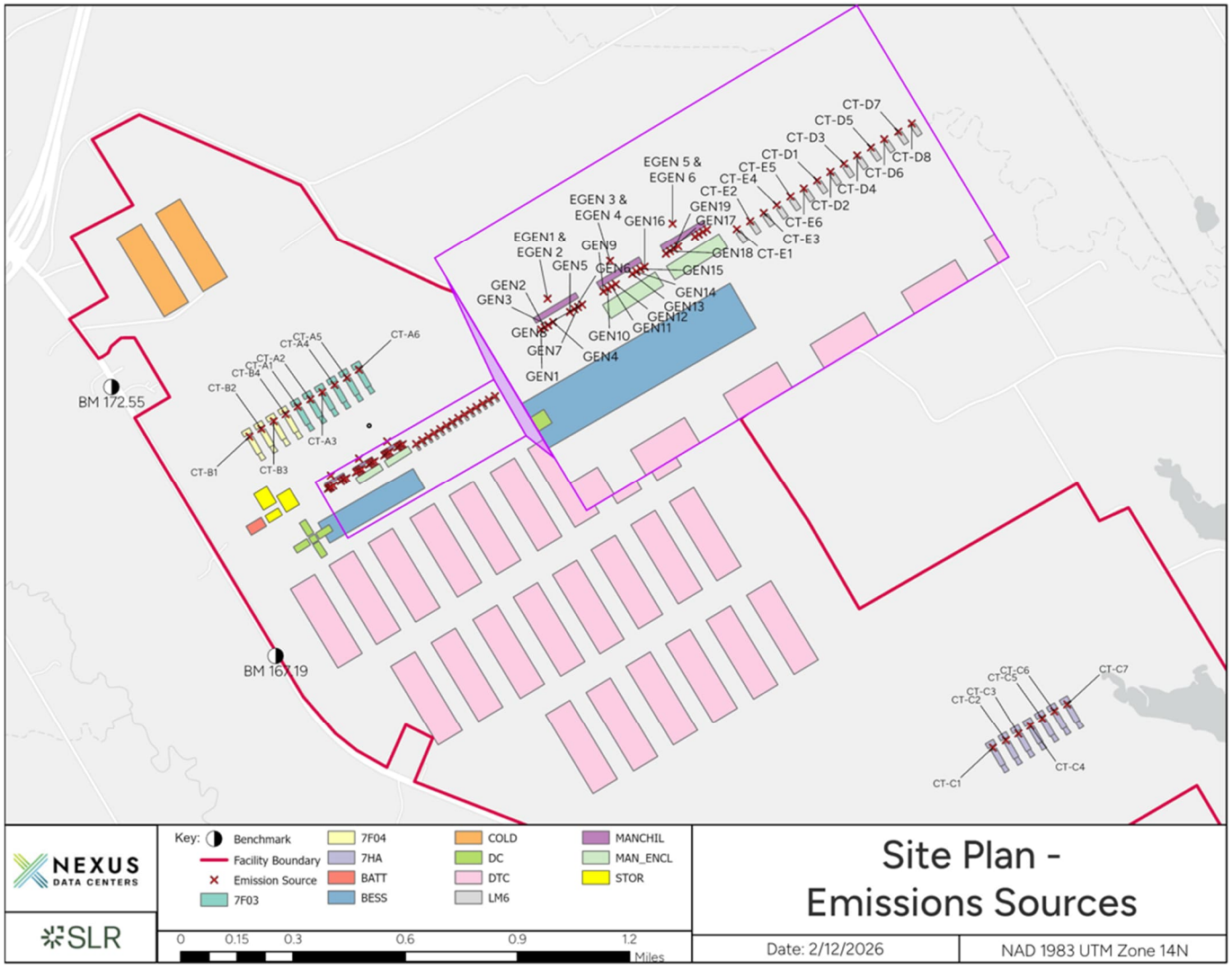


Figure 2-2 Site Plan – Emission Sources



3.0 Project Description & Emission Estimates

Nexus will secure previously manufactured combustion turbines. This application reflects the initial turbine configuration. The combustion turbines will be installed and begin operations in phases. The Site will consist of the following:

- Six GE Frame 7F.03 Simple Cycle Turbines, which will be converted to Combined Cycle Turbines prior to the last phase of the project. As such, the worst-case potential to emit (PTE) for the project will be with all combustion turbines installed and the GE Frame 7F.03 turbines converted to combined cycle;
- Four GE Frame 7F.04 Combined Cycle (1x1) turbines;
- Seven GE Frame 7HA.01 Combined Cycle (1x1) turbines;
- Eight GE LM6000 PC Sprint Simple Cycle turbines;
- Six GE LM6000 PF+ Sprint Combined Cycle (1x1) turbines;
- Twenty-four Everllence 18V51/60G engines;
- Six emergency generator engines;
- One ULSD storage tank;
- One aqueous ammonia storage tank;
- One urea storage tank;
- Lube oil recirculation systems for each combustion turbine;
- Piping components from natural gas system and aqueous ammonia; and
- Sulfur hexafluoride (SF_6) insulated electrical equipment.

The worst-case potential to emit (PTE) for the project corresponds to the final buildout of the data center, when all planned combustion turbines are installed and the GE Frame 7F.03 units have been converted from simple-cycle to combined-cycle configuration. Groups of turbines and engines will be installed in defined phases throughout the project, with the conversion of the 7F.03 turbines occurring before the operation of the GE LM6000 PF+ Sprint, GE Frame 7F.04, and the GE Frame 7HA.01 turbines. Because the conversion of the 7F.03 turbines to combined cycle will take place prior to the operation of these turbines, the maximum PTE is represented by this fully built and upgraded configuration of generation equipment.

The Site process flow diagrams are included as Figures 3-1, 3-2, 3-3, 3-4, and 3-5. Each process flow diagram includes major equipment, emission points associated with each process step, and the location of all abatement devices.

Figure 3-1 Process Flow Diagram – Simple Cycle Combustion Turbines

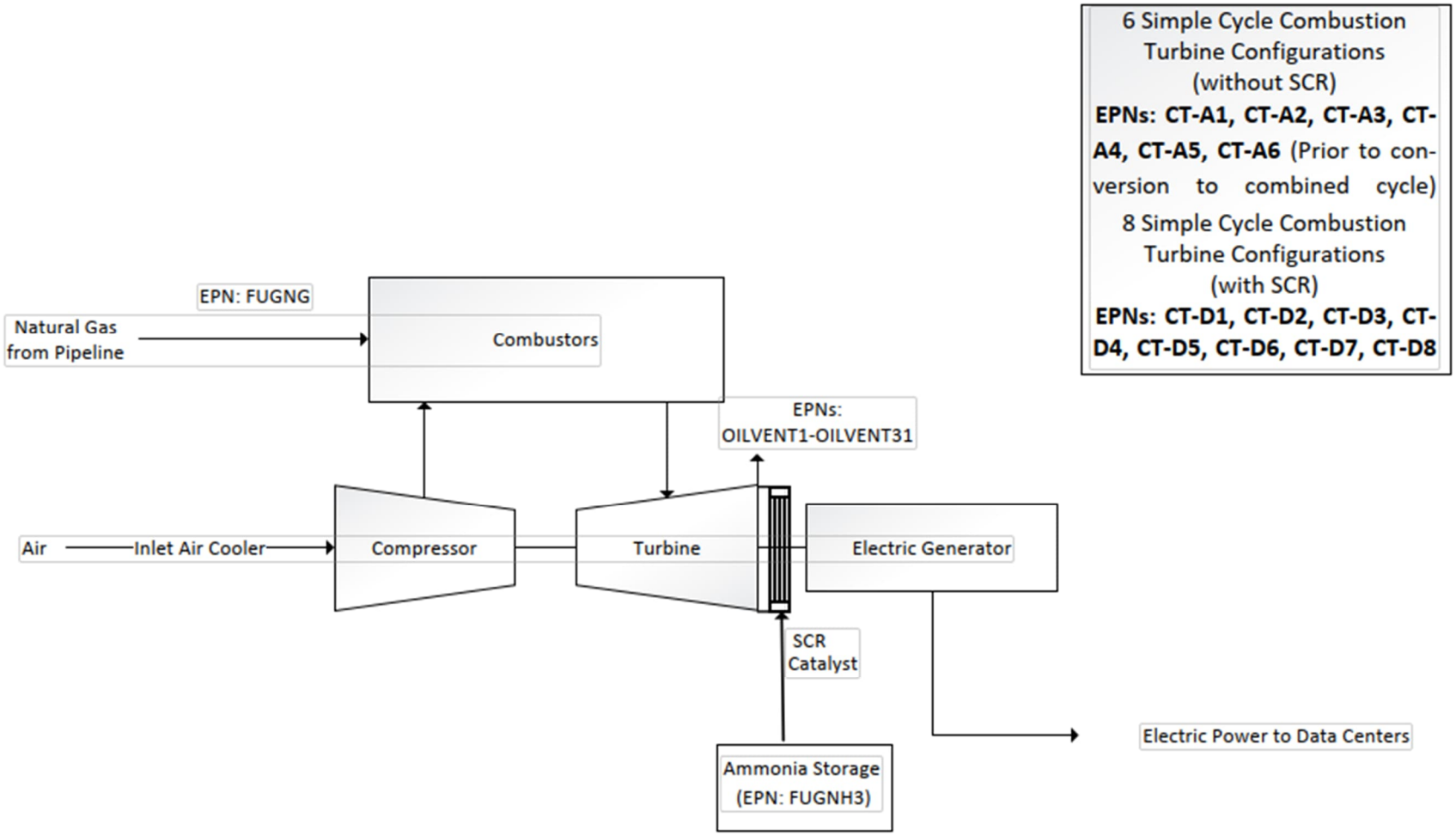


Figure 3-2 Process Flow Diagram – Combined Cycle Combustion Turbines

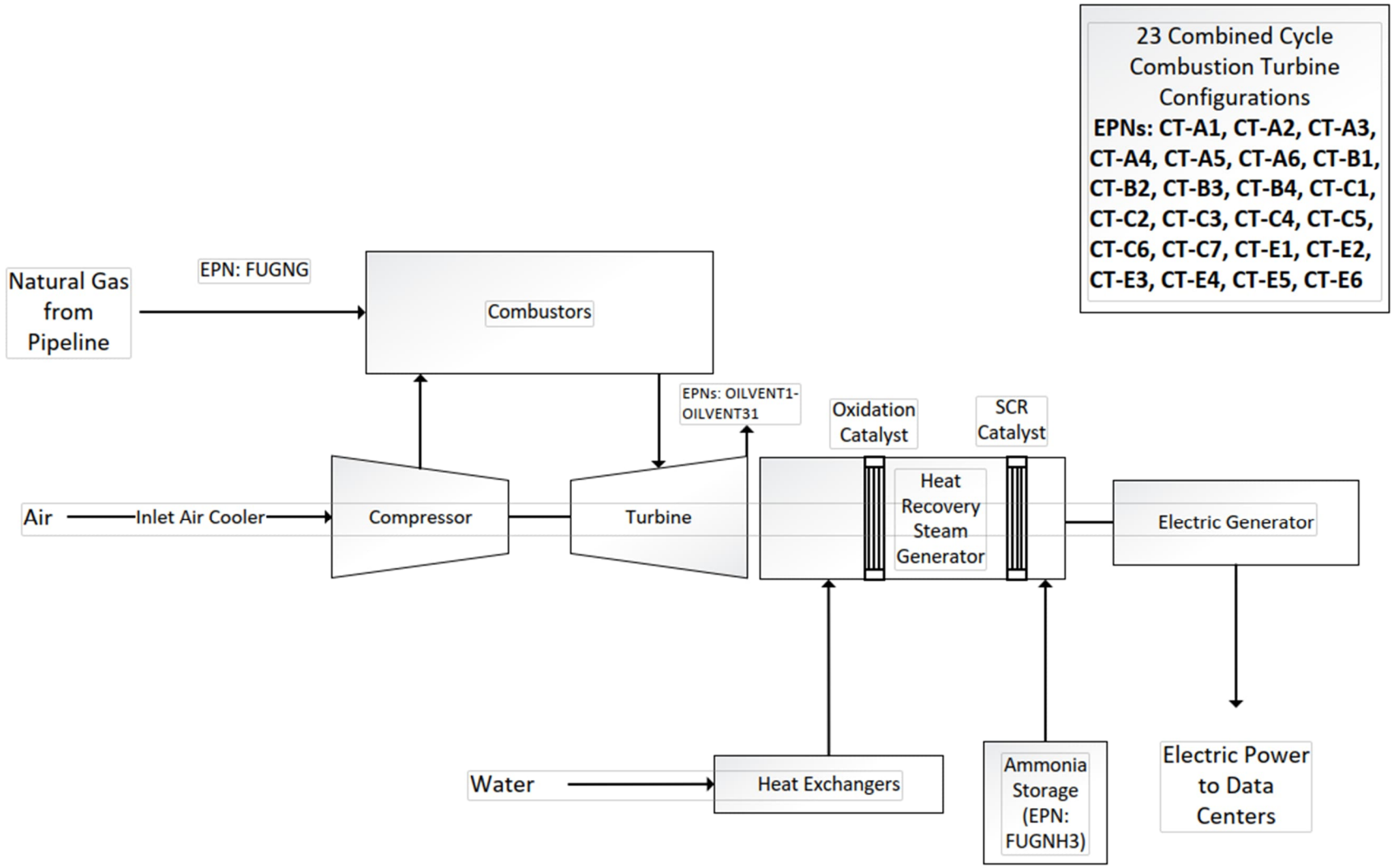


Figure 3-3 Process Flow Diagram – Natural Gas-fired Engines

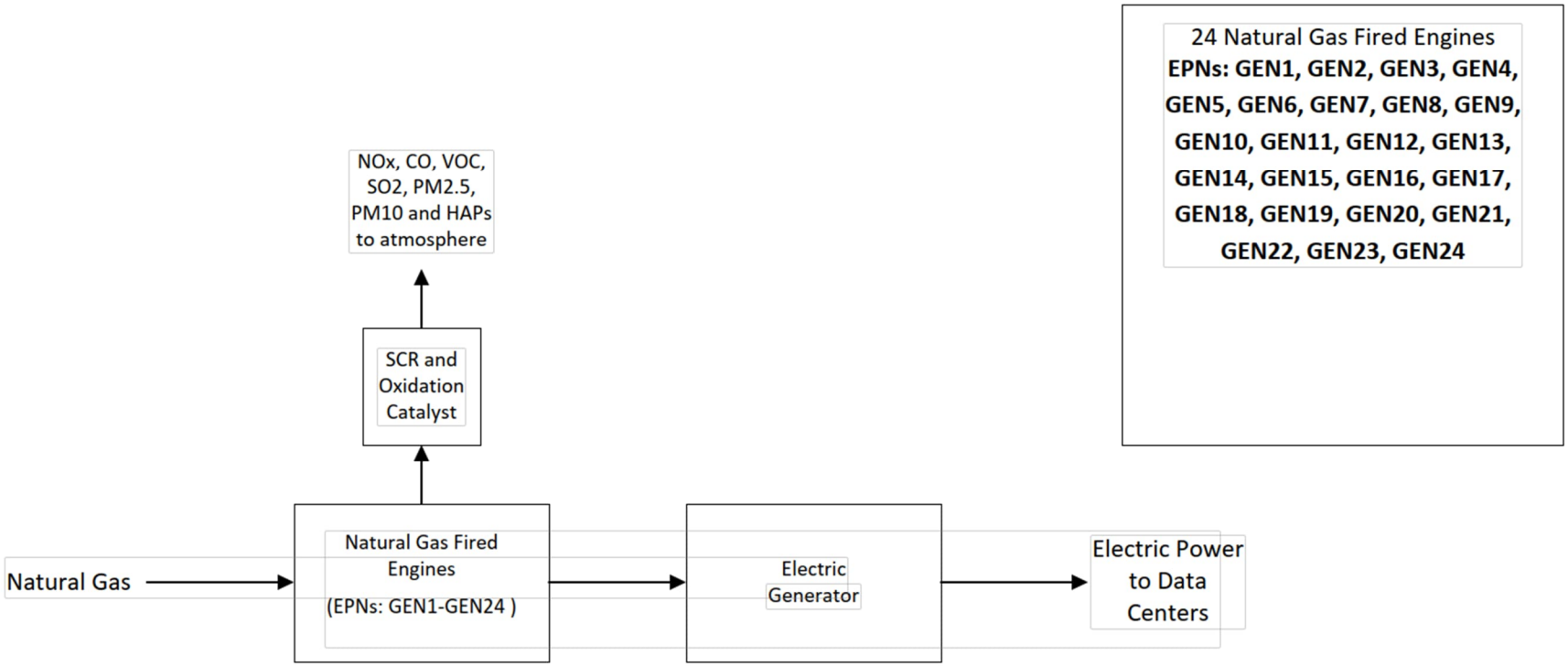


Figure 3-4 Process Flow Diagram – Emergency Engines

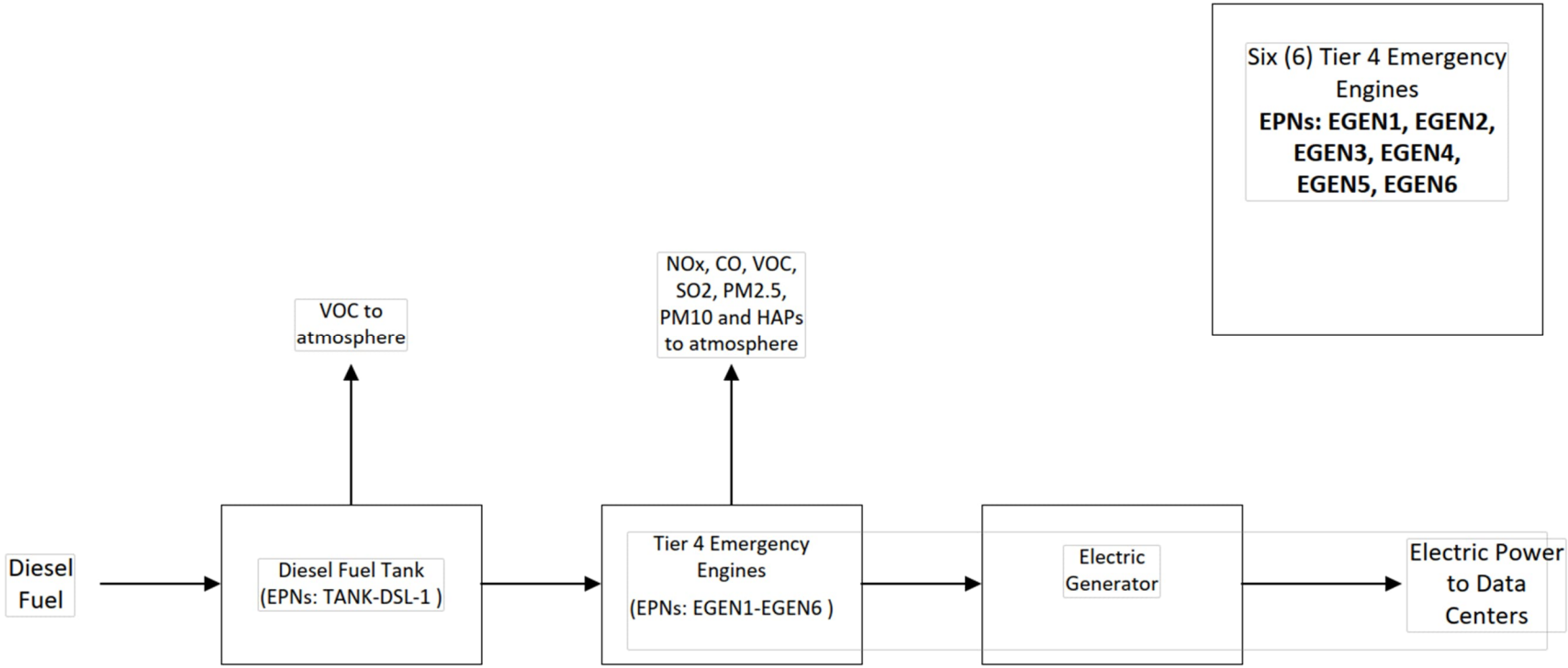


Figure 3-5 Process Flow Diagram – Fugitives



This section includes detailed descriptions of and supporting information for the requests mentioned in the introduction as well as the emissions estimation methodology used to estimate emissions for the changes requested with this permit application. Detailed emissions estimates are included as Appendix B.

3.1 Simple Cycle Combustion Turbines

The Site includes six GE Frame 7F.03, rated at 171 mega-watt (MW), each, and eight GE LM6000 PC, rated at 51.1 MW, each, simple cycle combustion turbines. The primary components of each simple cycle combustion turbine are the inlet air system, axial compressor, combustor, turbine, and electric generator. Ambient air is drawn into the compressor section of the turbine. During periods of warm to hot ambient temperatures, the temperature of the inlet air to the turbine is reduced by using dry inlet air coolers to increase mass airflow and help maintain turbine power output. No air emissions are associated with the dry inlet air coolers.

Natural gas fuel is mixed with the compressed inlet air and combusted in the turbine combustor. Each turbine will utilize dry low-NOx (DLN) combustors to limit NO_X formation through lean-premixed combustion without the need for post-combustion controls. The hot combustion gases then enter the expansion turbine where they expand across multiple turbine stages, generating torque to rotate the turbine shaft. The turbine shaft drives both the compressor section and the dedicated electric generator, producing electricity.

To further reduce nitrogen oxide emissions, each GE LM6000 PC simple cycle combustion turbine will be equipped with a selective catalytic reduction (SCR) system. The SCR systems will use 19 percent aqueous ammonia solution as the reagent.

All turbine exhaust is discharged directly to the atmosphere through the exhaust stack. Emissions estimates are included in Appendix B.

3.2 Combined Cycle Combustion Turbines

The Site includes multiple natural gas-fired combined cycle combustion turbine generating units. The facility will consist of the following combined cycle units:

- Four GE Frame 7F.04, rated at 309 MW, each;
- Seven GE Frame 7HA.01, rated at 438 MW;
- Six GE LM6000 PF+ Spring, rated at 76.2 MW; and
- Six GE Frame 7F.03, rated at 262 MW (once converted from Simple Cycle).

Each combined cycle turbine is equipped with a natural gas-fired combustion turbine, heat recovery steam generator (HRSG), and steam turbine generator. Ambient air is drawn through filtration systems into the axial compressor, where it is compressed and delivered to the combustor. The compressed air is mixed with natural gas and combusted, generating high-temperature exhaust gases. These gases expand across the turbine blades, driving rotation of the turbine shaft, which powers both the compressor and the electric generator.

The hot exhaust gases exiting the gas turbines contain significant recoverable thermal energy. The exhaust is routed directly to an HRSG, where heat is transferred to produce high-pressure steam. The steam is expanded through a steam turbine to produce additional electrical output. Following expansion, steam is condensed and returned to the steam cycle.

All combined cycle turbines utilize DLN combustor technology to minimize formation of NO_X during combustion. Each HRSG will be equipped with SCR and oxidation catalyst systems. The SCR systems will use 19 percent aqueous ammonia solution as the reagent.

The combustion turbines will have planned startups and shutdowns. During startup and shutdown, emissions may be released from the turbines that may be higher than during routine emissions for a short duration. Emissions estimates are included in Appendix B.

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3.3 Natural Gas-fired Reciprocating Engines

The Site will include 24 Everllence natural gas-fired engines to provide power generation. Each Everllence engine is rated at 20.431 MW and will be compliant with the emissions standards of 40 CFR 60 Subpart JJJJ. The engines will be equipped with SCR and oxidation catalyst systems. The SCR systems will use aqueous urea as the reagent.

The Site anticipates the Everllence engines will have planned startups and shutdowns to allow for routine maintenance during the year. During startup and shutdown, emissions may be released from the engines that may be higher than during routine emissions for a short duration. Emissions estimates are included in Appendix B.

The Everllence engines, which were previously permitted under NSR Standard Permit Registration Number 180320, are being incorporated by consolidation. Of the 30 MAN 18V51/60G generators certified under the standard permit, 24 generators will be incorporated by consolidation with this permit action. Please note that MAN was recently purchased by Everllence.

3.4 Emergency Generator Engines

The Site will include six ULSD-fired emergency engines to provide electrical power during emergencies. Each emergency engine has a standby rating of 3,250 kW. Each emergency engines is certified to EPA Tier 4 final emissions standards. Each engine will operate for a maximum of 100 hours per calendar year for non-emergency purposes such as maintenance and readiness testing. The emergency engines were previously permitted under NSR PBR Registration Number 180353 which is being incorporated by consolidation. Of the 47 Generac 3250 generators certified, six emergency generators will be incorporated by consolidation with this permit action. Emissions estimates are included in Appendix B.

3.5 Fugitive Emissions

Natural gas will be delivered to the Site via natural gas pipeline. The methodology for calculating fugitive emissions was based on the count of each component type multiplied by the applicable material service using equipment leak factors for Oil & Gas Production provided in the TCEQ Air Permit Technical Guidance for Chemical Sources: Fugitive Guidance (APDG 6422).

Aqueous ammonia will be utilized in the combustion turbine SCR systems. Ammonia fugitive emissions were based on emission factors and control efficiencies from SOCMI w/o ethylene factors in APDG 6422 and applying a control efficiency under on an AVO-based TCEQ physical inspection program.

Emissions estimates are included in Appendix B and TCEQ's fugitive calculation workbook.



3.6 Combustion Turbines – Lube Oil Recirculation System Vents

The combustion turbines have closed-loop lube oil recirculation systems designed to provide continuous lubrication, cooling, and contaminant control during operation. Potential emissions may be released through system vents during normal thermal expansion, agitation, or maintenance activities. Emission estimates associated with lube oil venting are included in Appendix B.

3.7 ULSD Storage Tank

The Site will include one ULSD storage tank, with a capacity of 153,500 gallons of ULSD. Of the eight total storage tanks certified, only one diesel storage tank certified will be incorporated by consolidation with this permit action. Emissions estimates associated with the ULSD storage tank is included in Appendix B.

3.8 Ammonia Storage Tank

The Site will include one aqueous ammonia storage tank. Aqueous ammonia. Emissions estimates associated with the ULSD storage tank is included in Appendix B.

3.9 Urea Storage Tank

The Site will include one urea storage tank. Aqueous urea has negligible vapor pressure, and as such, no emissions associated with the urea storage tank are included. Of the eight total storage tanks certified, only one urea storage tank certified will be incorporated by consolidation with this permit action.

3.10 Gas-insulated Switchgear – SF6

Nexus will utilize gas-insulated switchgear that relies on sulfur hexafluoride (SF_6), which is a GHG, as an insulating medium. SF_6 is used in high-voltage equipment, which support the reliability and safety of large-scale, continuous-operation facilities such as data centers. The SF_6 emission calculations are based on the anticipated 0.5% leakage rate per International Electrotechnical Commission (IEC) Standard 62271-1 for new high-voltage equipment. Emission estimates, including calculated annualized leakage and associated CO_2-equivalent impacts, are provided in Appendix B.

4.0 Disaster Review

A TCEQ Disaster Review is required whenever an applicant proposes to have quantities greater than the threshold levels of any listed toxic or flammables in the permitted process. Nexus does not store any such chemicals above the threshold planning quantity; therefore, the facility is not subject to a Disaster Review.

The proposed units installed with SCR systems will use an aqueous ammonia solution, which is not a chemical of concern with regards to the TCEQ Disaster Review requirements.

Additionally, Nexus will not be subject to EPA's Risk Management Program (RMP) because the aqueous ammonia will be stored in quantities and concentrations that are below the RMP applicability threshold of 20,000 pounds at concentration of 20 percent or greater.

5.0 Permit Fee

The applicable permit fee for the application is $75,000, the maximum based on the capital cost, as shown in the NSR Workbook in Appendix A. Nexus is also requesting expedited processing of this application and paying the associated $20,000 fee.

6.0 Best Available Control Technology (BACT) Discussion

6.1 Methodology: TCEQ Three-Tier Approach

The methodology used to identify BACT for the proposed emission units at the Hubbard Power Project is the TCEQ three-tier approach set forth in TCEQ Air Permit Reviewer Reference Guide (APDG 6110), which replaced TCEQ's draft April 2001 document, Evaluating Best Available Control Technology (BACT) in Air Permit Application (RG-383). The three-tier approach begins at the first tier and continues to the second and third tiers only if necessary. While the TCEQ approach is different from the EPA top-down approach, proposed BACT from using either method is the same.

The first tier of the three-tier approach is comparing the proposed BACT to recent NSR permit review and EPA's RACT/BACT/LAER Clearinghouse (RBLC) for accepted BACT for the same process and/or industry. The first tier takes into consideration any new technical developments which are economically and technically reasonable. TCEQ has established Tier 1 BACT requirements for certain industries.

The second tier of the three-tier approach is used if BACT is not already established by TCEQ. A Tier II BACT evaluation compares the proposed BACT to recent NSR permit review for accepted BACT for different processes or industries.

The third tier of the three-tier approach is used if Tier 1 and Tier 2 fail to identify proposed BACT. A Tier 3 BACT evaluation is a detailed technical and quantitative economic analysis of all available emission reduction operations for the process.

A BACT analysis was conducted for each pollutant that triggers PSD applicability (NO_X, CO, PM_{10}, $PM_{2.5}$, VOC, and GHG (as CO_2e)). The following sections describe the analysis by equipment type and pollutant.

6.2 Simple Cycle Combustion Turbines – Tier 1 BACT Analysis

The BACT determination for the simple cycle combustion turbines is based on the most current information available from EPA and TCEQ. This information includes the following:

- TCEQ's Issued and Pending Air Permits for Gas Turbines with Electric Output ≥ 20 MW
- EPA's RACT/BACT/LAER Clearinghouse (RBLC) (Appendix D)
- TCEQ's Current Tier I BACT Requirements: Combustion Sources spreadsheet (June 4, 2019)

The proposed BACT-based emission rates for the simple cycle combustion turbines are consistent with TCEQ's recommendations.

6.2.1 Simple Cycle Combustion Turbines – Tier 1 NO_X BACT Analysis

According to the TCEQ Current Tier I BACT Requirements, Tier I BACT for NO_x emissions for natural gas-fired simple cycle combustion turbines ranges from 5.0 ppmvd at 15% O_2 to 9.0 ppmvd at 15% O_2. This range is typically achieved using technologies such as DLN burners, water or steam injection, fuel consumption minimization, good combustion practices, or a combination of technologies. Recent TCEQ BACT determinations in air permits issued for gas turbines ≥ 20 MW show NO_X limits spanning 1.5 to 135.0 ppmvd at 15% O_2 for similar simple cycle combustion turbines. A review of the EPA RBLC over the past decade found a range of

2.0 to 96 ppmvd at 15% O_2 as the NO_X emission rates permitted for simple cycle combustion turbines. This BACT limit is achieved through the use of good combustion practices, DLN, and, in some cases, SCR.

For the GE Frame 7F.03 simple cycle turbines, Nexus proposes a NO_X limit of 9.0 ppmvd at 15% O_2 on a 3-hr rolling average basis, excluding periods of MSS.

For the LM6000 PC simple cycle turbines, Nexus proposes to voluntarily install SCR, with a NOx limit of 3.0 ppmvd at 15% O_2 on a 3-hr rolling average basis, excluding periods of MSS. To reduce secondary formation of particulate matter emissions, the ammonia slip will be limited to 10.0 ppmvd.

6.2.2 Simple Cycle Combustion Turbines – Tier 1 CO BACT Analysis

According to the TCEQ Current Tier I BACT Requirements, Tier I BACT for CO emissions for natural gas-fired simple cycle combustion turbines is 9.0 to 25 ppmvd at 15% O_2. This level is typically achieved using good combustion practices and/or oxidation catalyst. Recent TCEQ BACT determinations, in the latest issued air permits for gas turbines ≥ 20 MW, show CO limits spanning 2.0 to 32.0 ppmvd at 15% O_2 for similar simple cycle combustion turbines. A review of the EPA RBLC over the past decade indicated a range of 1.7 to 36 ppmvd at 15% O_2 represents the CO emission rate permitted for simple cycle combustion turbines.

Nexus proposes a CO BACT limit of 25 ppmvd at 15% O_2 for the simple cycle combustion turbines, on a 3-hr rolling average basis, excluding periods of MSS. This BACT limit is achieved through the simple use of good combustion practices.

6.2.3 Simple Cycle Combustion Turbines – Tier 1 $PM_{10}/PM_{2.5}$ BACT Analysis

According to the TCEQ Current Tier I BACT Requirements, Tier I BACT for $PM_{10}/PM_{2.5}$ emissions for natural gas-fired simple cycle combustion turbines is good combustion practices and fuel limited to firing pipeline quality natural gas. A review of the EPA RBLC over the past decade identified good combustion practices and firing natural gas as BACT. No post combustion emission controls are listed in the TCEQ Current Tier I BACT Requirements or RBLC.

Nexus will meet $PM_{10}/PM_{2.5}$ BACT through good combustion practices and only burning pipeline quality natural gas.

6.2.4 Simple Cycle Combustion Turbines – Tier 1 VOC BACT Analysis

According to the TCEQ Current Tier I BACT Requirements, Tier I BACT for VOC emissions for natural gas-fired simple cycle combustion turbines is 2.0 ppmvd at 15% O_2. This rate is typically achieved using good combustion practices and/or oxidation catalyst. A review of the EPA RBLC over the past decade found limits that range from 0.7 to 4.5 ppmvd at 15% O_2 represent the VOC emission rate permitted for simple cycle combustion turbines. This BACT limit is achieved through good combustion practices.

Nexus proposes a VOC BACT limit of 2.0 ppmvd at 15% O_2 for the simple cycle combustion turbines.

6.2.5 Simple Cycle Combustion Turbines – Tier 1 SO_2 BACT Analysis

SO_2 emissions from gas turbines result from the oxidation of sulfur in the fuel. The amount of SO_2 in the turbine exhaust is dependent upon the amount of sulfur in the inlet feed stream to the turbines. According to the TCEQ Current Tier I BACT Requirements, Tier I BACT for SO_2

emissions for natural gas-fired simple cycle combustion turbines is a limitation on the sulfur content in the natural gas to 2 – 5 gr/100scf on an hourly basis and 0.5 to 1 gr per 100 scf on an annual basis. This concentration is typically achieved by limiting the sulfur in fuel. A review of the EPA RBLC over the past decade indicates sulfur limitations from 0.4 to 5 gr per 100 scf. This BACT limit is achieved through burning pipeline quality natural gas.

Nexus proposes to meet SO_2 BACT by limiting the sulfur content of the fuel to not exceed 5 grains per 100 scf on an hourly basis and 0.5 gr/100 scf on an annual basis.

6.2.6 Simple Cycle Combustion Turbines – Tier 1 GHG BACT Analysis

According to the last decade of EPA RBLC entries, BACT GHG limit for natural gas-fired simple cycle combustion turbines have been established between 117.1 – 130.7 lb CO2e/MMBtu, between 800 and 1,514 lbs CO2e/MW or based on an annual mass limitation. These rates are typically achieved using clean fuels, good combustion practices, and following manufacturers operating and maintenance practices.

Nexus proposes a GHG BACT limit of 117.1 lb CO_2e/MMBtu for the simple cycle combustion turbines.

For combustion turbines, the application of carbon capture and storage (CCS) is technically infeasible under current conditions. CCS requires a reliable, large-scale means of transporting captured CO_2 to a permanent sequestration site. Currently no CO_2 pipeline infrastructure exists in or near Hill County to support such transport. Without access to a viable CO_2 pipeline infrastructure, CCS cannot be operated. Additionally, recent changes to EPA rules further reinforce this limitation. Updated federal requirements place increased emphasis on proven, commercially deployable control technologies. Because CCS relies on infrastructure that is not available and cannot be reasonably constructed within the timeframe associated with regulatory compliance, it fails to meet the threshold of technical feasibility. As a result, CCS cannot be a technically feasible option for the control of GHG emissions from combustion turbines.

6.2.7 Simple Cycle Combustion Turbines – Tier 1 H_2SO_4 BACT Analysis

According to the TCEQ Current Tier I BACT Requirements, Tier I BACT for H_2SO_4 emissions for natural gas-fired simple cycle combustion turbines is good combustion practices and fuel limited to firing pipeline quality natural gas. No post combustion emission controls are listed in the TCEQ Current Tier I BACT Requirements or RBLC.

Nexus will meet H_2SO_4 BACT through good combustion practices and only burning pipeline quality natural gas.

6.3 Combined Cycle Combustion Turbines – Tier 1 BACT Analysis

The BACT determination for the combined cycle combustion turbines is based on the most current information available from EPA and TCEQ. This information includes the following:

- TCEQ's Issued and Pending Air Permits for Gas Turbines with Electric Output ≥ 20 MW
- EPA's RACT/BACT/LAER Clearinghouse (RBLC) (Appendix D)
- TCEQ's Current Tier I BACT Requirements: Combustion Sources spreadsheet (June 4, 2019)

The proposed BACT-based emission rates for the combined cycle combustion turbines are consistent with TCEQ's recommendations.

6.3.1 Combined Cycle Combustion Turbines – Tier 1 NO_X BACT Analysis

According to the TCEQ Current Tier I BACT Requirements, Tier I BACT for NO_X emissions for natural gas-fired combined cycle combustion turbines is 2.0 ppmvd at 15% O_2. This concentration is typically achieved using technologies such as DLN burners, water or steam injection, SCR, fuel consumption minimization, good combustion practices, or a combination of technologies. Recent TCEQ BACT determinations, in the latest issued air permits for gas turbines ≥ 20 MW, show NO_x limits spanning 1.5 to 107.0 ppmvd at 15% O_2 for similar combined cycle combustion turbines. A review of the EPA RBLC over the past decade indicated that 2.0 ppmvd at 15% O_2 represents the lowest NO_X emission rate permitted for combined cycle combustion turbines. This BACT limit is achieved through the combined use of SCR, DLN burners, and good combustion practices.

Nexus proposes a NO_X BACT limit of 2.0 ppmvd at 15% O_2 for the combined cycle combustion turbines.

6.3.2 Combined Cycle Combustion Turbines – Tier 1 CO BACT Analysis

According to the TCEQ Current Tier I BACT Requirements, Tier I BACT for CO emissions for natural gas-fired combined cycle combustion turbines is 2.0 to 4.0 ppmvd at 15% O_2. This level is typically achieved using good combustion practices and/or oxidation catalyst. Recent TCEQ BACT determinations, in the latest issued air permits for gas turbines ≥ 20 MW, show CO limits spanning 2.0 to 107.0 ppmvd at 15% O_2 for similar combined cycle combustion turbines. A review of the EPA RBLC over the past decade found a span of limits from 1.0 to 35 ppmvd at 15% O_2 permitted for combined cycle combustion turbines. This BACT limit is achieved through the combined use of good combustion practices and oxidation catalyst.

Nexus proposes a CO BACT limit of 4.0 ppmvd at 15% O_2 for the combined cycle combustion turbines, on a 3-hr rolling average basis, excluding periods of MSS.

6.3.3 Combined Cycle Combustion Turbines – Tier 1 $PM_{10}/PM_{2.5}$ BACT Analysis

According to the TCEQ Current Tier I BACT Requirements, Tier I BACT for $PM_{10}/PM_{2.5}$ emissions for natural gas-fired combined cycle combustion turbines is good combustion practices and fuel limited to firing pipeline quality natural gas. A review of the EPA RBLC over the past decade indicated that good combustion practices and firing natural gas as BACT. No post combustion emission controls are listed in the TCEQ Current Tier I BACT Requirements or RBLC.

Nexus will meet $PM_{10}/PM_{2.5}$ BACT through good combustion practices and only burning pipeline quality natural gas.

6.3.4 Combined Cycle Combustion Turbines – Tier 1 VOC BACT Analysis

According to the TCEQ Current Tier I BACT Requirements, Tier I BACT for VOC emissions for natural gas-fired combined cycle combustion turbines is 2.0 ppmvd at 15% O_2. This rate is typically achieved using good combustion practices and/or oxidation catalyst. A review of the EPA RBLC over the past decade identified limits ranging from 0.7 to 4.0 ppmvd at 15% O_2 permitted for combined cycle combustion turbines. This BACT limit is achieved through good combustion practices.

Nexus proposes a VOC BACT limit of 2.0 ppmvd at 15% O_2 for the combined cycle combustion turbines.



6.3.5 Combined Cycle Combustion Turbines – Tier 1 SO_2 BACT Analysis

SO_2 emissions from gas turbines result from the oxidation of sulfur in the fuel. The amount of SO_2 in the turbine exhaust is dependent upon the amount of sulfur in the inlet feed stream to the turbines. According to the TCEQ Current Tier I BACT Requirements, Tier I BACT for SO_2 emissions for natural gas-fired combined cycle combustion turbines is a limitation on the sulfur content in the natural gas to 2 – 5 gr/100scf on an hourly basis and 0.5 to 1 gr per 100 scf on an annual basis. This concentration is typically achieved by limiting the sulfur in fuel. A review of the EPA RBLC over the past decade indicates sulfur limitations from 0.4 to 5 gr per 100 scf. This BACT limit is achieved through burning pipeline quality natural gas.

Nexus proposes to meet SO_2 BACT by limiting the sulfur content of the fuel to not exceed 5 grains per 100 scf on an hourly basis and 0.5 gr/100 scf on an annual basis.

6.3.6 Combined Cycle Combustion Turbines – Tier 1 GHG BACT Analysis

According to the last decade of EPA RBLC entries, BACT GHG limit for natural gas-fired combined cycle combustion turbines have been established between 117.1 – 130.7 lb CO2e/MMBtu, between 800 and 1,514 lbs CO2e/MW or based on an annual mass limitation. These rates are typically achieved using clean fuels, good combustion practices, and following manufacturers operating and maintenance practices.

Nexus proposes a GHG BACT limit of 117.1 lb CO_2e/MMBtu for the combined cycle combustion turbines.

For combustion turbines, the application of carbon capture and storage (CCS) is technically infeasible under current conditions. CCS requires a reliable, large-scale means of transporting captured CO_2 to a permanent sequestration site. Currently no CO_2 pipeline infrastructure exists in or near Hill County to support such transport. Without access to a viable CO_2 pipeline infrastructure, CCS cannot be operated. Additionally, recent changes to EPA rules further reinforce this limitation. Updated federal requirements place increased emphasis on proven, commercially deployable control technologies. Because CCS relies on infrastructure that is not available and cannot be reasonably constructed within the timeframe associated with regulatory compliance, it fails to meet the threshold of technical feasibility. As a result, CCS cannot be a technically feasible option for the control of GHG emissions from combustion turbines.

6.3.7 Combined Cycle Combustion Turbines – Tier 1 H_2SO_4 BACT Analysis

According to the TCEQ Current Tier I BACT Requirements, Tier I BACT for H_2SO_4 emissions for natural gas-fired combined cycle combustion turbines is good combustion practices and fuel limited to firing pipeline quality natural gas. No post combustion emission controls are listed in the TCEQ Current Tier I BACT Requirements or RBLC.

Nexus will meet H_2SO_4 BACT through good combustion practices and only burning pipeline quality natural gas.

6.4 Natural Gas-fired Reciprocating Engines – BACT Analysis

To meet TCEQ Tier I Best Available Control Technology (BACT) for spark-ignited internal combustion emergency engines, the engines will be operated and maintained in accordance with the practices and limits specified in the TCEQ Tier I BACT guidance. The spark-ignition engines will fire only fuels that meet the requirements of 40 CFR §72.2 or §80.1604 and will be operated using good combustion practices to minimize emissions of NO_x, CO, VOC, PM, and



other pollutants. The duration and occurrence of maintenance, startup, and shutdown activities will be minimized.

The engines will meet the Tier I BACT performance levels for spark-ignited engines, including:

- VOC: 1.0 g/bhp-hr, achieved through good combustion practices.
- NO_x: 0.5 g/bhp-hr for engines ≥ 500 hp;
- CO: 3.0 g/bhp-hr achieved through good combustion practices.
- SO_2, NH_3, H_2S, H_2SO_4: Controlled through firing only compliant fuels and good combustion practices.
- For rich-burn spark-ignition engines, a catalytic converter is required.
- No visible emissions will leave the property. Compliance will be demonstrated using a standard of no visible emissions exceeding 30 seconds in any six-minute period, as determined by EPA Method 22 or equivalent.

6.5 Emergency Engines – BACT Analysis

To meet TCEQ Tier I BACT for emergency diesel-fired internal combustion engines, the engines will be operated and maintained in accordance with the requirements specified in the TCEQ Tier I BACT guidance. The duration and occurrence of maintenance, startup, and shutdown activities will be minimized for all emergency diesel engines. Each emergency diesel engine will:

- Meet all applicable requirements of 40 CFR Part 60, Subpart IIII, including manufacturer certification and emissions performance requirements.
- Fire only ULSD containing no more than 15 ppm sulfur by weight.
- Be limited to 100 hours per year of non-emergency operation (maintenance/testing, per Subpart IIII).
- Be equipped with a non-resettable hour meter.
- No visible emissions will leave the property. Compliance will be demonstrated using a standard of no visible emissions exceeding 30 seconds in any six-minute period, determined using EPA Method 22 or equivalent.

6.6 Combustion Turbines Lube Oil Recirculation System Vents – VOC BACT Analysis

The combustion turbines will use dedicated closed-loop lube-oil recirculation systems to lubricate internal moving parts. During operation, lubricating oil continuously circulates from the oil sump through the turbine and generator housing. As the oil heats within these housings, vapor and fine oil droplets are generated and released into the reservoir compartments.

An effective and widely applied control technology for limiting PM_{10}, $PM_{2.5}$, and VOC emissions from lube-oil vents is the use of oil-mist eliminators to remove fine oil droplets by passing the mist-laden air stream through filters or coalescing elements, which causes the droplets to merge into larger particles. The larger particles will then be captured and drained back to the system. Nexus will install mist eliminators as BACT for emissions from the lube-oil vent systems.



6.7 ULSD Storage Tank – VOC BACT Analysis

A single 153,500-gallon ULSD vertical fixed-roof storage tank will be used to supply fuel for emergency generators. The stored ULSD has a true vapor pressure of less than 0.5 psia.

The ULSD storage tank will be constructed with a fixed roof and will use submerged fill. The tank exterior surface will be aluminum or white to minimize solar heat absorption. According to TCEQ Tier I BACT, storage tanks with a capacity under 25,000 gallons or containing a liquid with a true vapor pressure below 0.5 psia must be equipped with a fixed roof and submerged fill, and any uninsulated exterior surfaces exposed to sunlight must be white or aluminum.

Because the ULSD stored in this 153,500-gallon tank has a vapor pressure below 0.5 psia, the tank meets the Tier I BACT requirements based solely on vapor pressure regardless of capacity. Therefore, the ULSD storage tank will meet TCEQ Tier I BACT.

6.8 Gas-insulated Switchgear – GHG BACT Analysis

Modern circuit breakers are equipped with integrated leak-detection systems and are effective control technology for minimizing fugitive SF_6 emissions. Unlike older breaker designs, modern SF_6 circuit breakers operate as fully enclosed, high-integrity pressure systems, significantly reducing the potential for gas leakage. The Site incorporates these modern breakers, which is considered technically feasible and industry best practice.

6.9 Fugitive Component – VOC and GHG BACT Analysis

Fugitive emissions leaks cannot be captured, but they can be detected and reduced by implementing a leak detection and repair (LDAR) program. Collectively, fugitive emissions leaks from the Hubbard facility are a combination of VOCs and GHGs, and by controlling the fugitive emissions, emissions of both groups of pollutants are mitigated.

The TCEQ Air Permit Technical Guidance for Chemical Sources – Fugitive Guidance (APDG 6422v2, Revised June 2018) was reviewed to identify available control strategies and BACT guidelines for component fugitives. For VOCs, this BACT analysis follows the TCEQ Air Permit Reviewer Reference Guide for Air Pollution Control (APDG 6110v2, January 2011) as well as the current BACT guidelines for chemical sources published online[1] and maintained by the Chemical NSR Permits Section. Table 6-1 lists the typical Tier I BACT control requirements for component fugitives that are designated in VOC service (i.e., contacting a minimum of 10 wt% VOC (by weight)). There are no TCEQ BACT guidelines for control requirements of natural gas service components for the power generation or principally GHG (i.e., methane) service components in any industry.

TCEQ has established Tier I BACT for fugitive components in VOC service according to the level of uncontrolled VOC emissions:

[1] https://www.tceq.texas.gov/permitting/air/newsourcereview/bact/air-bact-chemsource

Table 6-1: Standard BACT Control Requirements for VOC Service Component Fugitives

Uncontrolled VOC Emissions	Minimal Acceptable Control	Control Efficiency
<10 tpy	None	N/A
10 tpy < x <25 tpy	28M LDAR Program for gas/vapor and light liquid VOC service components	75% credit
> 25 tpy	28VHP LDAR Program for gas/vapor and light liquid VOC service components	97% credit for valves, 85% credit for pumps and compressors

The total uncontrolled VOC fugitive emissions for Nexus are less than 10 tpy, which are below the 10 tpy threshold. As such, no LDAR program will be required for Nexus for VOCs or associated GHG fugitive emissions.

6.10 Maintenance Activities – BACT Analysis

A series of routine maintenance, startup, and shutdown activities are conducted to ensure proper operability of equipment. These activities occur infrequently and for short durations, and their associated emissions are limited such that they qualify as Inherently Low Emitting (ILE) activities. Because emissions from these ILE activities are already extremely low, alternative work practices would not yield any meaningful emission reductions. The insignificant emissions that will result from the limited duration and low frequency satisfies BACT.

6.11 Summary of Tier 1 BACT Analysis Results

Table 6-2 summarizes the proposed BACT for the PSD-affected emission units.

Table 6-2: BACT Summary

Description	EPN	Pollutant	BACT Limit	Averaging Time	Control Technology
GE Frame 7F.03 Simple Cycle Turbines	CT-A1 – CT-A6	NO_X	9 ppmv at 15% O_2	3-hr	DLN, Good Combustion Practices
		CO	25 ppmv at 15% O_2	3-hr	Good Combustion Practices
		$PM_{10}/PM_{2.5}$	-	-	Good Combustion Practices, Pipeline Quality Natural Gas
		VOC	2 ppmv at 15% O_2	3- hr	Good Combustion Practices
		SO_2	0.5 gr/100 scf	annual	Good Combustion Practices, Pipeline Quality Natural Gas
		GHG	117 lb CO_2e/MMBtu	12-month rolling average	Good Combustion Practices, Pipeline Quality Natural Gas, Operating and Maintenance Practices
		H_2SO_4	-	-	Good Combustion Practices, Pipeline Quality Natural Gas
GE LM6000 PC Sprint Simple Cycle Turbines	CT-D1 – CT-D8	NO_X	3 ppmv at 15% O_2	3-hr	SCR, DLN, Good Combustion Practices
		CO	25 ppmv at 15% O_2	3-hr	Good Combustion Practices
		$PM_{10}/PM_{2.5}$	-	-	Good Combustion Practices, Pipeline Quality Natural Gas
		VOC	2 ppmv at 15% O_2	3- hr	Good Combustion Practices
		SO_2	0.5 gr/100 scf	annual	Good Combustion Practices, Pipeline Quality Natural Gas
		GHG	117 lb CO_2e/MMBtu	12-month rolling average	Good Combustion Practices, Pipeline Quality Natural Gas, Operating and Maintenance Practices

Description	EPN	Pollutant	BACT Limit	Averaging Time	Control Technology
		H_2SO_4	-	-	Good Combustion Practices, Pipeline Quality Natural Gas
Combined Cycle Turbines	CT-A1 – CT-A6, CT-B1 – CT-B4, CT-C1 – CT-C7, CT-E1 – CT-E6	NO_X	2 ppmv at 15% O_2	3-hr	SCR, DLN, Good Combustion Practices
		CO	4 ppmv at 15% O_2	3-hr	Oxidation Catalysts, Good Combustion Practices
		$PM_{10}/PM_{2.5}$	-	-	Good Combustion Practices, Pipeline Quality Natural Gas
		VOC	2 ppmv at 15% O_2	3-hr	Good Combustion Practices
		SO_2	0.5 gr/100 scf	annual	Good Combustion Practices, Pipeline Quality Natural Gas
		GHG	117 lb CO_2e/MMBtu	12-month rolling average	Good Combustion Practices, Pipeline Quality Natural Gas, Operating and Maintenance Practices
		H_2SO_4	-	-	Good Combustion Practices, Pipeline Quality Natural Gas
Everllence Engines	GEN1 – GEN24	NO_X	0.5 g/bhp-hr	-	Good Combustion Practices, Pipeline Quality Natural Gas
		CO	3.0 g/bhp-hr	-	
		$PM_{10}/PM_{2.5}$	-	-	
		VOC	1.0 g/bhp-hr		
		SO_2	0.5 gr/100 scf	annual	
		GHG	-	-	
Emergency Engines	EGEN1 – EGEN6	NO_X	-	-	Good Combustion Practices, Pipeline Quality Natural Gas
		CO	-	-	
		$PM_{10}/PM_{2.5}$	-	-	
		VOC	-	-	
		SO_2	-	-	
		GHG	-	-	

Description	EPN	Pollutant	BACT Limit	Averaging Time	Control Technology
Combustion Turbines Lube Oil Recirculation System Vents	OILVENT1 through OILVENT31	VOC	-	-	Mist Eliminators
ULSD Storage Tank	TANK-DSL-1	VOC	-	-	Tank Design
Gas-insulated Switchgear	FUGSF6	GHG	-	-	Modern Circuit Breaker Design
Fugitive Components	FUGNG	VOC	-	-	Proper Piping Design and Installation

7.0 Considerations for Granting a Permit

Section §116.111 specifies the requirements that industrial operations must comply with to be permitted in Texas as well as required procedures and considerations the TCEQ must use in the granting of permits. This analysis addresses each of these requirements as well as each TCEQ rule and regulation in 30 TAC which apply to industrial operations for air permitting purposes.

Section §116.111(a)(1) states that proposed facilities must submit a signed PI-1 General Application form and requisite attachments before the application can be considered complete. This application form is provided via STEERS in response to this requirement.

Section §116.111(a)(2) requires that proposed facilities must comply with all rules and regulations of the Texas Clean Air Act. A discussion on how operations covered by this application will comply with the requirements of each of the TCEQ regulations is addressed below.

TCEQ GENERAL RULES (30 TAC CHAPTER 101)

The facility will operate in accordance with the General Rules relating to circumvention, nuisance, traffic hazard, notification requirements for major upsets, notification requirements for maintenance, sampling, sampling ports, emissions inventory requirements, sampling procedures and terminology, compliance with Environmental Protection Agency Standards, the National Primary and Secondary Air Quality Standards, inspection fees, emissions fees, and other applicable General Rules.

Rule 101.2: Multiple Air Contaminant Sources or Properties

The TCEQ has not requested a reduction in emissions as provided under §101.2(a). Nexus is not requesting single property designation with an adjacent property, as provided under §101.2(b).

Rule 101.3: Circumvention

In accordance with the requirements of §101.3, there will be no use of any plan, activity, device or contrivance which will, without resulting in an actual reduction of air contaminants, conceal or appear to minimize the effects of an emission which would otherwise constitute a violation of the TCAA or TCEQ regulations from any source included in this application.

Rule 101.4: Nuisance

Nexus will demonstrate through air dispersion modeling that there will be no emissions of air contaminants or combined emissions in concentration and duration that would or may tend to injure or adversely affect human health or welfare, animal life, vegetation, or property, or interfere with the normal use and enjoyment of animal life, vegetation, or property.

Rule 101.5: Traffic Hazard

Nexus does not expect the sources at the facility to create a traffic hazard.

Rule 101.8: Sampling

Upon request of the TCEQ and as directed under conditions of the permit, Nexus will conduct sampling and otherwise comply with the requirements of §101.8.

Rule 101.9: Sampling Ports

If requested by the TCEQ, Nexus will provide sufficient access to facility operations to allow sampling per the requirements of §101.9.

Rule 101.10: Emissions Inventory Requirements

Nexus will be subject to emissions inventory reporting requirements and will submit annual reports as required after start of operations.

Rule 101.13: Use and Effects rule

Nexus understands the intent of this section and will comply with the applicable requirements of this section.

Rule 101.14: Sampling Procedures and Terminology

Nexus will use generally acceptable sampling and measurement methods in compliance with this requirement.

Rules 101.18 and 101.19: Remedies Cumulative and Severability

Nexus understands the limitations and authority of the regulatory agency under these provisions.

Rule 101.20: Compliance with EPA Standards

As detailed in Section 8, the proposed Nexus facility includes equipment that is subject to New Source Performance Standards (NSPS) promulgated in 40 CFR Part 60, and National Emissions Standards for Hazardous Air Pollutants (NESHAP) promulgated under 40 CFR Part 63. Nexus will comply with all applicable requirements of those regulations.

No emissions from, or operations at, the site will result in the application of NESHAP standards established under 40 CFR Part 61 or 40 CFR Part 82.

Rule 101.21: The National Primary and Secondary Ambient Air Quality Standards

Nexus understands that NAAQS is enforceable in Texas and all TCEQ rules are in force per the latest effective data of each regulation. As required, the modeling protocol is included in Appendix E for TCEQ approval.

Rule 101.23: Alternate Emission Reduction Policy

Nexus does not intend to request or apply for an alternate emissions reduction as addressed in §101.23.

Rule 101.24 and Rule 101.27: Inspection Fees and Emission Fees

Nexus will remit the greater of either the Inspection Fee or the Emissions Fee as required.

Rule 101.26: Surcharge on Fuel Oil in Specified Boilers

Nexus does not and will not have a utility boiler at this site with a heat input capacity of greater than 10 million British thermal unit per hour (MMBtu/hr) and thus the provisions of §101.26 do not apply.

Rule 101.28: Stringency Determination for Federal Operating Permits

Nexus is required to have a Title V permit for this facility and will apply for the permit as required.

Rule 101.100-122 Failure to Attain Fee

These rules do not apply as the proposed facility is not located within the Houston-Galveston-Brazoria (HGB) ozone nonattainment area.

Rule 101.150-155 Voluntary Supplemental Leak Detection Program

Nexus does not anticipate implementing this voluntary program.

Rule 101.201: Emissions Event Reporting and Recordkeeping Requirements

Nexus will comply with the requirements of §101.201 in the event of an emissions event.

Rule 101.211: Scheduled Maintenance, Start-Up and Shutdown Reporting and Recordkeeping Requirements

Nexus will notify the Executive Director of the TCEQ and other appropriate air pollution control agencies of maintenance activities, per the requirements of §101.211(a), §101.211(b) §101.211(c) and §101.211(d) if needed. If requested, Nexus will submit a technical plan for maintenance activities to the Executive Director of the TCEQ following the requirements of §101.211(e). Nexus will include the required information under §101.211(f) in the reporting required by §101.10.

Rule 101.221: Operational Requirements

Nexus will maintain all air pollution emissions capture and abatement equipment at this facility in good working order per §101.221(a).

Rule 101.222 and 101.223: Demonstrations and Actions to Reduce Excessive Emissions

Nexus will comply with these requirements for excessive emissions events.

Rule 101.224: Temporary Exemptions During Drought Conditions

Nexus does not anticipate applying for an exemption due to drought conditions for this permitting request but will comply with these requirements, if necessary.

Rule 101.231-101.233: Petition for Variance and Transfers

Nexus is not seeking a variance from permit conditions. In the event a variance is requested, however, Nexus will do so in accordance with the requirements of Sections §101.231, §101.232, and §101.233.

Rule 101.300-101.311: Emissions Credit Banking and Trading

This permit action will not result in any VOC or NOx emissions reductions that will be used for emissions credit banking and trading; this section does not apply.

Rule 101.350-101.363: Mass Emissions Cap and Trade Program

The Nexus facility will not be located in the HGB ozone nonattainment area; this section does not apply.

Rule 101.370-101.379 Discrete Emission Credit Banking and Trading

Nexus will not generate or use any discrete emissions credits for this project.

Rule 101.390-101.403: Highly-Reactive VOC Emissions Cap and Trade Program

The Nexus facility will not be located in the HGB ozone nonattainment area; this section does not apply.

Rule 101.501-101.508: Clean Air Interstate Rule (CAIR)

The proposed facility does not include equipment that meet the applicability requirements under 40 CFR Part 96 Subpar AA or Subpart AAA because the proposed generators will not produce electricity for sale; these sections do not apply.

Rule 101.600-101.602: Expedited Permitting

Pursuant to this section, Nexus respectfully requests Expedited Processing of this application. As required, the complete Forms APD-EXP (Expedited Permitting Request) and APD-APS (Air Permitting Surcharge Payment) are included in Appendix A.

CHAPTER 106 – PERMITS BY RULE

This application is not being submitted under the provisions of this section. Nexus may apply for future modifications of existing sources or future construction of applicable new sources in accordance with the requirements of Chapter 106.

CHAPTER 111 - CONTROL OF AIR POLLUTION FROM VISIBLE EMISSIONS AND PARTICULATE MATTER

Rule 111.111, 111.113: Requirements for Specified Sources and Alternative Opacity Limitations

Visible emissions from sources associated with this application meet the opacity limitations specified by this rule; Nexus will demonstrate compliance, as required by special condition in the permit or TCEQ request, by conducting visible emission readings.

Rules 111.121-129: Single-, Dual-, and Multiple-Chamber Incinerators

Nexus does not and will not operate an incinerator at this facility, as defined. Therefore, this rule does not apply.

Rules 111.131 - 111.139: Abrasive Blasting of Water Storage Tanks Performed by Portable Operations

None of the facilities to be covered by the permit application involve abrasive blast cleaning of water storage tanks; therefore, Sections §111.131 through §111.139 do not apply.

Rules 111.141 - 111.149: Materials Handling, Construction, Roads, Streets, Alleys, and Parking Lots

The facility is not located in the specified geographic area; therefore, Sections §111.141 through §111.149 do not apply.

Rule 111.151: Allowable Emission Limits on Non-agricultural Processes

Nexus will operate affected stacks at the facility in compliance with specified allowable emission limitations.

Rule 111.153: Emissions Limits from Steam Generators

Nexus does not and will not operate covered steam generators at this facility as defined; therefore, this rule does not apply.

Rules 111.171 - 175: Emissions Limits on Agricultural Processes

There are no agricultural process emissions, as discussed in Sections §111.171 through §111.175, associated with the emissions units at the facility. These sections, therefore, do not apply.

Rules 111.181 - 183: Exemptions for Portable or Transient Operations

No portable or transient operations as discussed in Sections §111.181 through §111.183 are conducted at the facility. These sections, therefore, do not apply.

Rules 111.201 - 221: Outdoor Burning

Outdoor burning will not be conducted at the facility as discussed in Sections §111.201 through §111.221. These sections, therefore, do not apply.

REGULATION 112 - CONTROL OF AIR POLLUTION FROM SULFUR COMPOUNDS (30 TAC CHAPTER 112)

Rule 112.3: Net Ground Level Concentrations

Emissions of SO_2 from the facility will not cause ground level concentrations in excess of those allowed by Section §112.3(a).

Rule 112.4: Net Ground Level Concentrations – Exemption Conditions

Nexus is not seeking an exemption under this rule. Therefore, §112.4 does not apply.

Rule 112.5 - 12.7: Sulfuric Acid and Sulfur Recovery

The facility is neither a sulfuric acid plant nor a sulfur recovery plant, so Sections §112.5 through §112.7 do not apply to the data center.

Rule 112.8: Allowable Emission Rates from Solid Fossil Fuel-Fired Steam Generators

Nexus does not and will not operate any solid fossil fuel-fired steam generators at this facility. Therefore, Section §112.8 does not apply.

Rule 112.9: Combustion of Liquid Fuel

Nexus does not and will not combust liquid fuel as described in this rule and is not subject to these standards.

Rule 112.14: Nonferrous Smelter Processes

There are no units at the data center to which these rules apply.

Rules 112.15 - 112.18: Temporary Fuel Shortage Plan Requirements

Nexus does not anticipate any need to burn high-sulfur fuels at this facility. Should such a need arise due to the availability of low sulfur fuels, Nexus will meet the temporary fuel shortage plan filing, operating and notification requirements of these rules.

Rules 112.19 - 112.21: Application for Area Control Plan

Nexus does not anticipate applying for an area control plan at this facility. Should it become necessary, however, Nexus will prepare an SO_2 area control plan in accordance with rule §112.19 and meet applicable requirements.

Rules 112.31 - 112.34: H_2S Allowable Emissions – Residential, Business, or Commercial Property

The facilities covered by this permit application will not cause H_2S emissions in excess of the limits allowed by this rule.

Rule 112.41(a)(1)-(3): Control of Sulfuric Acid Emissions

Emissions of sulfuric acid from the facility, and thus operations will not result in ground level concentrations in excess of those allowed by Section 112.41(a)(1)-(3).

Rules 112.45 and 112.47: Inspection and Recordkeeping Requirements

Nexus does not operate a sulfuric acid plant at the facility; therefore, these rules do not apply.

Rules 112.51 - 112.59: Emissions Limits for TRS Compounds from Kraft Pulp Mills

These rules pertain only to Kraft pulp mills and therefore are not applicable to this permit application.

Rules 112.100 - 112.308: Sulfur Compound Nonattainment Areas

These rules pertain only to Howard County, Hutchinson County, and Navarro County nonattainment areas. The Nexus facility is not located in these nonattainment areas; therefore, these rules do not apply.

REGULATION 113 - CONTROL OF AIR POLLUTANTS FROM TOXIC MATERIALS (30 TAC CHAPTER 113)

The facility is subject to and will comply with the national emissions standards for hazardous air pollutants (NESHAPs) as specified in this chapter and discussed elsewhere in this application.

REGULATION 114 - CONTROL OF AIR POLLUTION FROM MOTOR VEHICLES (30 TAC CHAPTER 114)

This regulation specifies the emission control requirements for motor vehicles. Any vehicle to which this regulation may apply that is used by Nexus will continue to be operated in compliance with these rules.

REGULATION 115 - CONTROL OF AIR POLLUTION FROM VOLATILE ORGANIC COMPOUNDS (30 TAC CHAPTER 115)

The Nexus facility is located in Hill County, which is not subject to any standards under 30 TAC 115.

REGULATION 116 – CONTROL OF AIR POLLUTION BY PERMITS FOR NEW CONSTRUCTION OR MODIFICATION

Rule 116.111(a)(2)(A) Protection of Public Health and Welfare

As described in this application, the emissions from the facility will comply with the air quality rules and regulations and with the intent of the Texas Clean Air Act, including protection of the health and physical property of the people. There is no school identified within 3,000 feet of the facility.

Rule 116.111(a)(2)(B): Measurement of Emissions

Emissions from the facility process operations will be monitored as required by applicable federal and state regulations; emissions will be sampled upon request of the Executive Director of the TCEQ.

Rule 116.111(a)(2)(C): Best Available Control Technology

Nexus will utilize BACT with consideration given to the technical practicability and economic reasonableness of reducing emissions. A BACT analysis was performed and is included in Section 6 of this application.

Rule 116.111(a)(2)(D): Federal New Source Performance Standards (NSPS)

Nexus operations authorized under this NSR permit are subject to New Source Performance Standards under 40 CFR 60 Subparts discussed in this application; Nexus will comply with these standards as required.

Rule 116.111(a)(2)(E),(F): National Emission Standards for Hazardous Air Pollutants (NESHAPs)

The facility is not subject to any National Emission Standards for Hazardous Air Pollutants (NESHAP) promulgated under 40 CFR Part 61. The facilities authorized under this NSR permit

are subject to a NESHAP promulgated under 40 CFR Part 63, specifically Subpart YYYY and ZZZZ.

Rule 116.111(a)(2)(G): Performance Demonstration

The facility will perform as represented in this permit application. Upon request of the Executive Director of the TCEQ, additional engineering data, dispersion modeling, monitoring or stack testing data will be provided for the emission sources in this application.

Rule 116.111(a)(2)(H): Non-attainment Review

The data center is located in Hill County, which is currently classified as attainment for all criteria pollutants and ozone, therefore, these requirements do not apply.

Rule 116.111(a)(2)(I): Prevention of Significant Deterioration (PSD) Review

The site's existing potential to emit exceeds the major source thresholds, and it has not been constructed yet, so retrospective review applies to this application. Therefore, the annual emissions increases requested are above the major modification thresholds and PSD review applies.

Rule 116.111(a)(2)(J): Air Dispersion Modeling

Detailed air dispersion modeling is being provided with this application for all emissions that are increasing with this application.

Rule 116.111(a)(2)(K): Hazardous Air Pollutants

These regulations apply because the facility is a major source of Hazardous Air Pollutants (HAPs). No emissions from, or operations at, the site will result in the application of NESHAP standards established under this rule.

Rule 116.111(a)(2)(L): Mass Cap and Trade Allowances

The facility is in Hill County, which is not subject to Chapter 101, Subchapter H, Division 3. Therefore, this regulation does not apply.

Rule 116.112: Distance Limitations

Nexus is not a lead smelter or concrete crushing facility; therefore, these sections do not apply.

Rule 116.114: Application Review Schedule

Nexus will comply with all conditions of the TCEQ permit review schedule.

Rule 116.115: General and Special Conditions

Nexus will comply with all conditions and provisions of the TCEQ air permit and the notification requirements of this rule.

Rule 116.116: Changes to Facilities

Nexus will be operated in accordance with the representations made in this application. Any changes in the construction or operation of the facilities from the representations made in this

permit application that result in changes in the method of controlling emissions, the character of the emissions, or an increase in emissions will be proceeded by proper authorization.

Rule 116.117: Documentation and Notification of Changes to Qualified Facilities

This section does not apply to this permit application.

Rule 116.118: Construction While Permit Amendment Application Pending

Nexus is proposing a new major stationary source and will comply with the requirements of this rule.

Rule 116.119: De Minimis Facilities or Sources

No de-minimis facilities or sources are represented in this permit application.

Rule 116.120: Voiding of Permits

Once authorized, Nexus will begin and continue the construction of the Project such that its permits will not become void under this section.

Rule 116.127: Actual to Projected Actual and Emission Exclusion Test for Emissions

This section does not apply to this permit application.

Rule 116.140-143: Permit Fees

Nexus will remit the appropriate permit application fees in accordance with this section.

Rule 116.150: New Major Source or Major Modification in Ozone Nonattainment Area

Nexus is located in Hill County which is classified as an attainment or unclassifiable area for ozone; therefore, the requirements of this section do not apply.

Rule 116.151: New Major Source or Major Modification in Nonattainment Area other than Ozone

Nexus is located in Hill County which is classified as an attainment area or unclassifiable area for all criteria pollutants; therefore, this section does not apply to this permit application.

Rule 116.160-163: Prevention of Significant Deterioration Review

PSD review applies to emissions from the proposed Nexus facility; Nexus will comply with the applicable requirements pertaining to PSD review.

Rule 116.170-176: Emissions Reductions: Offsets

Emission offsets are not required for this Project.

Rule 116.178: Portable Facilities

There are no portable facilities associated with this permit application.

Rule 116.180-198: Plant-wide Applicability Limits

Nexus is not requesting plant-wide applicability limits in this application.

Rule 116.310-315 New Source Review Permit Renewal

This is not a renewal application; therefore, these rules do not apply.

Rule 116.400-406: Hazardous Air Pollutants: Regulations Governing Constructed or Reconstructed Major Sources

There are no affected sources proposed for the Nexus facility that are subject to these rules.

Rule 116.601-620: Standard Permits

Nexus is requesting incorporation by consolidation of a Standard Permit Registration Number 180320; as part of this application. Of the 30 MAN 18V51/60G generators certified under the standard permit, 24 generators will be incorporated by consolidation with this permit action. Of the 47 Generac 3250 generators certified, six emergency generators will be installed. Additionally of the eight total storage tanks certified, only one diesel storage tank and one urea storage tank certified will be incorporated by consolidation with this permit action.

Rule 116.710-765: Flexible Permits

Nexus is not requesting authorization under a Flexible Permit; therefore, these rules do not apply.

Rule 116.910-931: Electric Generating Facility Permits

Nexus is not a grandfathered electric generating facility (EGF); therefore, these sections do not apply.

Rule 116.1010-1070: Multiple Plant Permits

These sections do not apply to this permit application.

Rule 116.1200: Emergency Orders

Nexus will apply for an emergency order in compliance with these rules if a catastrophic event occurs that necessitates such action.

Rule 116.1400-1428: Permits for Specific Designated Facilities

These rules do not apply to this application.

Rule 116.1500-1540: Best Available Retrofit Technology (BART)

These rules do not apply to this application.

REGULATION 117 – CONTROL OF AIR POLLUTION FROM NITROGEN COMPOUNDS (30 TAC CHAPTER 117)

The facility is located in Hill County, an ozone attainment area, and is not an electric power generating system under 30 TAC 117.10. The regulations in this section do not apply.

REGULATION 118 – CONTROL OF AIR POLLUTION EPISODES (30 TAC CHAPTER 118)

In the event the Executive Director of the TCEQ declares a Level 1, Level 2, or local air pollution episode as defined in Section §118.1 or §118.3 in the area of the data center, Nexus will comply with the emissions reductions requirements as specified in Sections §118.2 and §118.3.

REGULATION 122 – FEDERAL OPERATING PERMITS

The facility is a Title V major source of criteria pollutants and will apply for the appropriate Federal Operating Permit as outlined in these rules.

8.0 Federal Regulatory Analysis

Federal regulations (e.g., 40 Code of Federal Regulations (CFR) Parts 60, 61, and 63) were reviewed to determine the regulations that are applicable to the Site.

8.1.1 40 CFR 60 New Source Performance Standards (NSPS)

The NSPS regulations establish emission standards and work practices for certain source categories.

8.1.1.1 40 CFR 60 Subpart A (General Provisions)

40 CFR 60 Subpart A – General Provisions include general reporting and testing requirements. Nexus will comply with the general provisions as applicable.

8.1.1.2 40 CFR 60 Subpart IIII (Compression Ignition Internal Combustion Engines)

40 CFR 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, sets emission standards for stationary diesel engines, and Subpart IIII applies to emergency engines. Nexus will utilize Tier 4 final engines to comply with the Subpart IIII emission limits, proper operation, and use of ULSD.

8.1.1.3 40 CFR 60 Subpart KKKK (Combustion Turbines)

40 CFR 60 Subpart KKKK – Standards of Performance for Stationary Combustion Turbines, sets emission standards for stationary combustion turbines. Per 40 CFR 60.4305(a), owners and operators of a stationary combustion turbine with a heat input at peak load equal to or greater than 10.7 gigajoules (10 MMBtu) per hour and manufactured/modified after February 18, 2005 are subject to 40 CFR 60 Subpart KKKK requirements.

The GE combustion turbines are rated at more than 10 MMBtu/hr maximum design capacity. The turbines are subject to 40 CFR 60 Subpart KKKK requirements. Please note the combustion turbines will not be “new” under 40 CFR 60 Subpart KKKKa because the combustion turbines commenced construction after February 18, 2005 and on or before December 13, 2024. Nexus will meet the 40 CFR 60 Subpart KKKK NO_X limit of 15 parts per million (ppm) @ 15 percent oxygen. The natural gas-fired in the combustion turbines will not contain sulfur in excess of 0.060 lb/MMBtu.

8.1.1.4 40 CFR 60 Subpart KKKKa (Combustion Turbines) – Non-Applicability

40 CFR 60 Subpart KKKKa – Standards of Performance for Stationary Combustion Turbines, sets emission standards for stationary combustion turbines. Per 40 CFR 60.4305(a), owners and operators of a stationary combustion turbine with a heat input at peak load equal to or greater than 10.7 gigajoules (10 MMBtu) per hour and manufactured/modified after December 24, 2024 are subject to 40 CFR 60 Subpart KKKKa requirements. The 6 GE Frame 7F.03 simple cycle turbines will be converted to combined cycle. The conversion from simple cycle will not result in an increase of emissions, on a lb/hr basis. As such, the conversion of the simple cycle to combined cycle will not trigger a modification under 40 CFR 60 Subpart A will not be subject to Subpart KKKKa.

8.1.1.5 40 CFR 60 Subpart JJJJ (Spark Ignition Internal Combustion Engines)

40 CFR 60 Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines for engine categories based on engine size and year of manufacture. Per



40 CFR 60.4230(a)(4)(ii), owners and operators of emergency engines manufactured on or after January 1, 2009 are subject to 40 CFR 60 Subpart JJJJ requirements.

The Everllence natural gas-fired engines are rated at 20.286 MW and will comply with the emission standards in 40 CFR 60 Subpart JJJJ.

8.1.1.6 40 CFR 60 Subparts TTTT and TTTTa – Non Applicability

40 CFR 60 Subparts TTTT and TTTTa – Standards of Performance for GHG Emissions for New Construction and Reconstruction Stationary Combustion Turbine Electric Generating Units, sets GHG performance standards for stationary combustion turbines electric generating units capable of selling greater than 25 MW of electricity to a utility power distribution system. Nexus will not be subject to 40 CFR 60 Subparts TTTT and TTTTa because they will not supply or sell electricity, nor will Nexus be physically interconnected with any utility power distribution system and all power generated onsite will be consumed onsite.

8.1.2 40 CFR 61 National Emission Standards for Hazardous Air Pollutants (NESHAP)

There are no NESHAPs in 40 CFR 61 applicable to Nexus.

8.1.3 40 CFR 63 National Emission Standards for Hazardous Air Pollutants (NESHAP)

The NESHAP regulations establish emission standards for certain source categories of HAP emissions. The NESHAP regulations differentiate between major sources of HAP emissions and area sources of HAP emissions. A major source is “any stationary source or group of stationary sources located within a contiguous area and under common control that emits or has the potential to emit considering controls, in the aggregate, 10 tons per year or more of any hazardous air pollutant or 25 tons per year or more of any combination of hazardous air pollutants, unless the Administrator establishes a lesser quantity, or in the case of radionuclides, different criteria from those specified in this sentence”. An area source is “any stationary source of hazardous air pollutants that is not a major source as defined in this part”.

Neus will have potential HAP emissions of more than 25 tpy and as such, will be a major source of HAPs.

8.1.3.1 40 CFR 63 Subpart A (General Provisions)

40 CFR 63 Subpart A – General Provisions include general reporting and testing requirements. Nexus will comply with the general provisions as applicable.

8.1.3.2 40 CFR 63 Subpart YYYY (Combustion Turbines at Major Sources)

40 CFR 63 Subpart YYYY is the NESHAP for Stationary Combustion Turbines at major sources of HAPs. This subpart is applicable because the Site is a major source of HAPs. Nexus will comply with the requirements of Subpart YYYY, including the limiting the concentration of formaldehyde to 91 parts per billion by dry volume (ppbvd) at 15 percent oxygen.

8.1.3.3 40 CFR 63 Subpart ZZZZ (Reciprocating Internal Combustion Engines)

40 CFR 63 Subpart ZZZZ is applicable to stationary reciprocating internal combustion engines (RICE) located and major and area sources of HAP emissions. 40 CFR 63 Subpart ZZZZ establishes requirements to demonstrate initial and continuous compliance with the emission

limitations and operating limitations. Per 40 CFR 63.6585, owners and operators of stationary RICE at a major or area source of HAPs are subject to the requirements of 40 CFR 63 Subpart ZZZZ.

The Everllence engines will comply with 40 CFR 60 Subpart JJJJ. The emergency engines will comply with 40 CFR 60 Subpart IIII. Because the Everllence and emergency engines are subject to 40 CFR 60 Subparts JJJJ and IIII, compliance with 40 CFR 63 Subpart ZZZZ is met by meeting the requirements of 40 CFR 60 Subparts JJJJ and IIII.



9.0 Impacts Analysis

The Air Quality Analysis, which includes an analysis of the impacts to the National Ambient Air Quality Standards (NAAQS) as well as the State Property Line Standards and a Modeling and Effects Review Applicability (MERA) analysis, will be provided under separate cover after TCEQ approval of the modeling protocol.

10.0 Professional Engineer Certification

A completed certification is included below.

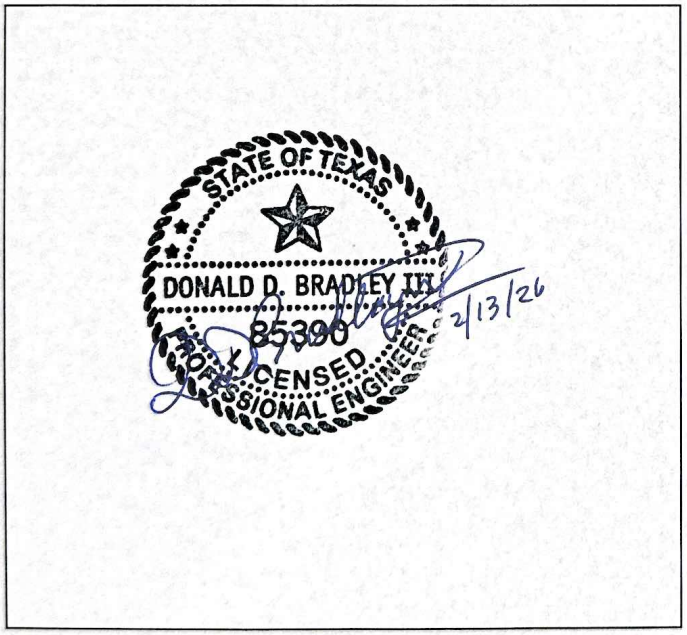
PROFESSIONAL ENGINEER CERTIFICATION

I, a registered Texas Professional Engineer in good standing, certify that this permit application was prepared by me and others under my responsible supervision, in accordance with good engineering principles and practices and based on information supplied by Nexus Data Centers.

Signature

February 13, 2026
Date

Donald D. Bradley III, P.E.
TCEQ Professional Engineer Number 85390
SLR International Corporation
Texas Registered Engineering Firm 15910



Appendix A TCEQ PI-1 NSR Workbook *(Electronic Submission)*, Public Involvement Plan, Plain Language Summary, Expedited Permitting Request, and Air Permit Surcharge Payment

Texas Commission on Environmental Quality

Public Involvement Plan Form for Permit and Registration Applications

The Public Involvement Plan is intended to provide applicants and the agency with information about how public outreach will be accomplished for certain types of applications in certain geographical areas of the state. It is intended to apply to new activities; major changes at existing plants, facilities, and processes; and to activities which are likely to have significant interest from the public. This preliminary screening is designed to identify applications that will benefit from an initial assessment of the need for enhanced public outreach.

All applicable sections of this form should be completed and submitted with the permit or registration application. For instructions on how to complete this form, see TCEQ-20960-inst.

Section 1. Preliminary Screening

☒ New Permit or Registration Application

☐ New Activity – modification, registration, amendment, facility, etc. (see instructions)

If neither of the above boxes are checked, completion of the form is not required and does not need to be submitted.

Section 2. Secondary Screening

☒ Requires public notice,

☐ Considered to have significant public interest, **and**

☐ Located within any of the following geographical locations:

- Austin
- Dallas
- Fort Worth
- Houston
- San Antonio
- West Texas
- Texas Panhandle
- Along the Texas/Mexico Border
- Other geographical locations should be decided on a case-by-case basis

If all the above boxes are not checked, a Public Involvement Plan is not necessary. Stop after Section 2 and submit the form.

☒ Public Involvement Plan not applicable to this application. Provide **brief** explanation.

Project not located in listed geographical locations, not considered to have significant public interest.

Section 3. Application Information

Type of Application (check all that apply):

Air ☐ Initial ☐ Federal ☐ Amendment ☐ Standard Permit ☐ Title V

Waste ☐ Municipal Solid Waste ☐ Industrial and Hazardous Waste ☐ Scrap Tire
☐ Radioactive Material Licensing ☐ Underground Injection Control

Water Quality

☐ Texas Pollutant Discharge Elimination System (TPDES)

- ☐ Texas Land Application Permit (TLAP)
- ☐ State Only Concentrated Animal Feeding Operation (CAFO)
- ☐ Water Treatment Plant Residuals Disposal Permit

☐ Class B Biosolids Land Application Permit

☐ Domestic Septage Land Application Registration

Water Rights New Permit

☐ New Appropriation of Water

☐ New or existing reservoir

Amendment to an Existing Water Right

☐ Add a New Appropriation of Water

☐ Add a New or Existing Reservoir

☐ Major Amendment that could affect other water rights or the environment

Section 4. Plain Language Summary

Provide a brief description of planned activities.

Section 5. Community and Demographic Information

Community information can be found using EPA's EJ Screen, U.S. Census Bureau information, or generally available demographic tools.

Information gathered in this section can assist with the determination of whether alternative language notice is necessary. Please provide the following information.

(City)

(County)

(Census Tract)
Please indicate which of these three is the level used for gathering the following information.

☐ City ☐ County ☐ Census Tract

(a) Percent of people over 25 years of age who at least graduated from high school

(b) Per capita income for population near the specified location

(c) Percent of minority population and percent of population by race within the specified location

(d) Percent of Linguistically Isolated Households by language within the specified location

(e) Languages commonly spoken in area by percentage

(f) Community and/or Stakeholder Groups

(g) Historic public interest or involvement

Section 6. Planned Public Outreach Activities

(a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39?

☐ Yes ☐ No

(b) If yes, do you intend at this time to provide public outreach other than what is required by rule?

☐ Yes ☐ No

If Yes, please describe.

If you answered "yes" that this application is subject to 30 TAC Chapter 39, answering the remaining questions in Section 6 is not required.

(c) Will you provide notice of this application in alternative languages?

☐ Yes ☐ No

Please refer to Section 5. If more than 5% of the population potentially affected by your application is Limited English Proficient, then you are required to provide notice in the alternative language.

If yes, how will you provide notice in alternative languages?

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

(d) Is there an opportunity for some type of public meeting, including after notice?

☐ Yes ☐ No

(e) If a public meeting is held, will a translator be provided if requested?

☐ Yes ☐ No

(f) Hard copies of the application will be available at the following (check all that apply):

☐ TCEQ Regional Office ☐ TCEQ Central Office

☐ Public Place (specify)

Section 7. Voluntary Submittal

For applicants voluntarily providing this Public Involvement Plan, who are not subject to formal public participation requirements.

Will you provide notice of this application, including notice in alternative languages?

☐ Yes ☐ No

What types of notice will be provided?

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

Plain Language Summary for New Source Review (NSR) Initial Application for Air New Source Review Permit Number 183046, GHGPSDTX269 ,PSDTX1700

The following summary is provided for this pending air permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application.

Nexus Hubbard Power, LLC (Central Registry) (CN606391142) has submitted an application for initial permit number 183046, GHGPSDTX269, and PSDTX1700 . The Nexus Data Center Hubbard (RN112221833) will manage data and process high com-putational loads at 880 State Highway 171, Hubbard, Hill County.

This permit will authorize power generation to support infrastructure necessary for managing data and high computational loads. The data center does not sell power to the grid. Nexus Hubbard Power, LLC has listed in the application the pollutants and amounts that will be emitted for each facility. Below is the total amount for each pollutant that is proposed to be emitted each year for all the facilities.

Pollutant	Proposed Emissions (tons per year)
VOC	509
PM	1298
NO_X	1550
CO	2305
SO_2	264
H_2SO_4	40
CO_2 Equivalent	22,746,568

The new facilities will be controlled by combustors. The simple cycle combustion turbines are equipped with dry low NOx (DLN) technology and a selective catalytic reduction (SCR) system to reduce NO_X formation. Each combined cycle combustion turbine is equipped with DLN technology, an SCR system, and oxidation catalyst systems to reduce NO_X formation. Fugitive emissions from components throughout the facility will be controlled by a TCEQ-approved leak detection and repair (LDAR) program.

Resumen en Lenguaje Sencillo del Permiso Inicial de Revisión de Nuevas Fuentes Solicitud de Permiso de Revisión de Nuevas Fuentes de Aire Número 183046, GHGPSDTX269 ,PSDTX1700

El siguiente resumen se proporciona para esta solicitud de permiso de aire pendiente que está siendo revisada por la Comisión de Calidad Ambiental de Texas, según lo dispuesto en el Capítulo 39 del Código Administrativo de Texas. La información proporcionada en este resumen puede cambiar durante la revisión técnica de la solicitud y no son representaciones ejecutables de la solicitud del permiso.

Nexus Hubbard Power, LLC (Central Registry) (CN606391142) ha presentado una solicitud de permiso inicial de número 183046, GHGPSDTX269, y PSDTX1700. El Nexus Data Center, Hubbard (RN112221833) gestionará datos y realizará procesamiento de altas cargas computacionales en 880 State Highway 171, Hubbard, Hill County.

Este permiso autorizara la generación de energía para respaldar la infraestructura necesaria para la gestión de datos y el procesamiento de altas cargas computacionales. El centro de datos no vende energía a la red. Nexus Hubbard Power, LLC ha enumerado en la solicitud los contaminantes y las cantidades que se emitirán en cada instalación. A continuación se indica la cantidad total de cada contaminante que se propone emitir cada año para todas las instalaciones.

Los Contaminantes	Emisiones Propuestas (toneladas por año)
VOC	509
Materia Particulada (PM)	1298
NO_X	1550
CO	2305
SO_2	264
H_2SO_4	40
CO_2 Equivalente	22,746,568

Las nuevas instalaciones serán controladas mediante sistemas de combustión. Las turbinas de combustión de ciclo simple están equipadas con tecnología de combustión seca de bajo NOx (DLN) y con un sistema de reducción catalítica selectiva (SCR) para reducir la formación de NOx. Cada turbina de combustión de ciclo combinado está equipada con tecnología DLN, un sistema SCR y sistemas de catalizador de oxidación para reducir la formación de NOx. Las emisiones fugitivas de los componentes en toda la instalación estarán controladas mediante un programa de detección y reparación de fugas (LDAR) aprobado por TCEQ.

Texas Commission on Environmental Quality
Form APD-EXP Expedited Permit Request

Instructions
For more information on the expedited permitting program, please refer to the document titled "Initial Implementation of the Expedited Permitting Program" on our website at:
www.tceq.texas.gov/assets/public/permitting/air/Guidance/NewSourceReview/epp-in-impl-guide-external-6258.pdf.

I. Contact Information

List the legal name of the company, corporation, partnership, or person who is requesting to expedite the processing of the application. List the Customer Reference Number (CN) and the Regulated Entity Number (RN). Provide the name, telephone number, and e-mail address of the company official or technical contact. This person must have the authority to make binding agreements and representations on behalf of the applicant. Make sure all contact information matches the information provided on the application form associated with this request (e.g., PI-1).

II. Project Information

List the facility name, permit number, and project number, as applicable. Enter NA if this request accompanies an initial permit. This information should match the application form associated with this request (e.g., PI-1).

III. Economic Justification

Title 30 Texas Administrative Code (TAC) Chapter 101, Subchapter J, allows for permits to be expedited if the applicant can demonstrate that a project will "benefit the economy of this state or an area of this state." Confirm that the purpose of the application associated with this request form will benefit the economy of this state or an area of this state by checking the appropriate box.

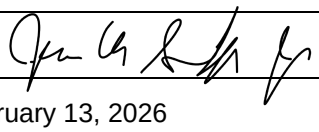
IV. Delinquent Fees and Penalties

The Air Permits Division will not expedite this application if any delinquent fees and applicable penalties are owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ, in accordance with TCEQ protocol for delinquent fees and penalties.

V. Signature

Please make sure a signature of the company official or technical contact is included in the application submitted to the TCEQ.

Form APD-EXP Expedited Permitting Request

I. Contact Information	
Company or Other Legal Customer Name:	Nexus Hubbard Power, LLC (Central Registry)
Customer Reference Number (CN):	606391142
Regulated Entity Number (RN):	112221833
Company Official or Technical Contact Name:	Jerry Schafer
Phone Number:	201-455-4743
Email:	jerry@nexus-datacenters.com
II. Project Information	
Facility Type:	Nexus Data Center Hubbard
Permit Number:	NA
Project Number:	NA
III. Economic Justification	
The purpose of the application associated with this request to expedite will benefit the economy of this state or an area of this state.	☒ YES ☐ NO
IV. Delinquent Fees and Penalties	
Applications will not be expedited if any delinquent fees and/or penalties are owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ. For more information regarding Delinquent Fees and Penalties, go to the TCEQ Web site at: www.tceq.texas.gov/agency/delin/index.html.	
V. Signature	
The signature below confirms that I have knowledge of the facts included in this application and that these facts are true and correct to the best of my knowledge and belief. As the applicant, I commit to fulfilling all expectations of the expedited permitting program and application requirements promptly. Failure to meet any expectation or requirement may cause my application to be removed from the expedited permitting program and possibly voided at the discretion of the TCEQ Executive Director. The signature further signifies awareness that intentionally or knowingly making or causing to be made false material statements or representations in the application is a criminal offense subject to criminal penalties.	
Name:	Jerry Schafer
Signature:	
Date:	February 13, 2026

Reset Form Print Form

Air Permit Division Air Permit Support (APD-APS) Air Permitting Surcharge Payment
Texas Commission on Environmental Quality

To process a permit application as part of the expedited permit program, Air Permits Division (APD) requires a surcharge to cover expenses incurred to expedite the processing of an application using additional resources. The surcharge must be submitted along with the expedited request to Texas Commission on Environmental Quality (TCEQ).

Instructions

I. Contact Information

List the legal name of the company, corporation, partnership, or person who is requesting to expedite the processing of the application. List the Customer Reference Number (CN) and the Regulated Entity Number (RN). Provide the name, title, mailing address, telephone number, and e-mail address of the company official or technical contact. This person must have the authority to make binding agreements and representations on behalf of the applicant. Make sure all contact information matches the information provided on the application form associated with this request (e.g., PI-1).

II. Project Information

List the facility name, permit number, and project number, as applicable. This information should match Form Expedited Permit Request (APD-EXP).

III. Surcharge Payment

The fee amount for the various air permit projects are listed as follows:

Project Type	Fee Amount
Standard Permit (with public notice requirements)	$3,000
Title V General Operating Permit (GOP)	$3,000
Title V Site Operating Permit (SOP)	$10,000
NSR case-by-case permit	$10,000
Federal NSR permits	$20,000

NSR case-by-case permit that accompanies a federal NSR permit does not have an additional surcharge.

Permits by rule (PBRs) and Standard Permit (which do not require public notice) must use the ePermits system and pay $500 (**non-refundable**, flat surcharge). Surcharge will be collected through the ePermits system.

Mail the completed Form APD-APS Air Permitting Surcharge Payment and payment to:

TX Commission on Environmental Quality, Cashier's Office MC 214
P.O. Box 13088, Austin, TX 78711-3088

Air Permit Division Air Permit Support (APD-APS) Air Permitting Surcharge Payment
Texas Commission on Environmental Quality

I. Contact Information
Company or Other Legal Customer Name: Nexus Hubbard Power, LLC (Central Registry)
Customer Reference Number (CN): 606391142
Regulated Entity Number (RN): 112221833
Company Official or Technical Contact Information
☒ Mr. ☐ Mrs. ☐ Ms. ☐ Dr. ☐ Other:
Name: Ivan Van der Walt
Title: Chief Executive Officer
Mailing Address: 1725 Hughes Landing Blvd, 11th Floor
City: The Woodlands
State: Texas
ZIP Code: 77380
Telephone Number: 713-444-2970
E-mail Address: ivan@nexus-datacenters.com
II. Project Information
Facility Name: Nexus Data Center Hubbard
Permit Number: NA
Project Number: NA
III. Surcharge Payment
Project Type: Federal NSR Permit
Fee Amount: $20,000
Check, Money Order, Transaction Number, and/or ePay Voucher Number: *(below)*
WRS0067167
Paid Online: Wire ☒ YES ☐ NO
Company Name on Check: Nexus Apex Holdings, LLC

Table 2F
Project Emissions Increase Supplement
Texas Commission on Environmental Quality

Pollutant[1]:	PM
Permit Number:	TBD
Baseline Period (Month and Year):	
To Baseline Period (Month and Year):	

[1] Individual Table 2F's should be used to summarize the project emissions increase for each criteria pollutant using the EPA's "substantially related" test to determine the scope of the project.

Table 2F
Project Emissions Increase Supplement
Texas Commission on Environmental Quality

New, Affected, or Modified Facilities[2]

Item Number	FIN	EPN	Permit Number	Actual Emissions[3]	A Baseline Emissions[4]	B Proposed Potential to Emit Emissions[5]	C Projected Actual Emissions[6]	Difference, (B-A) or (C-A)[7]	Correction[8]	Project Emissions Increases[9]
1.	CT-A1 - CT-A6	CT-A1 - CT-A	TBD	N/A	N/A	305.77	N/A	N/A	N/A	305.77
2.	CT-B1 - CT-B6	CT-B1 - CT-B	TBD	N/A	N/A	227.04	N/A	N/A	N/A	227.04
3.	CT-C1 - CT-C7	CT-C1CT-C1	TBD	N/A	N/A	540.13	N/A	N/A	N/A	540.13
4.	CT-D1 - CT-D8	CT-D1 - CT-D	TBD	N/A	N/A	77.83	N/A	N/A	N/A	77.83
5.	CT-E1 - CT-E6	CT-E1 - CT-E	TBD	N/A	N/A	89.88	N/A	N/A	N/A	89.88
6.	GEN1 - GEN24	GEN1 - GEN2	TBD	N/A	N/A	70.24	N/A	N/A	N/A	70.24
7.	EGEN1 - EGEN6	EGEN1 - EGE	TBD	N/A	N/A	0.07	N/A	N/A	N/A	0.07
8.	OILVENT1 - OILVENT31	OILVENT1 - (	TBD	N/A	N/A	0.37	N/A	N/A	N/A	0.37
9.										
								Total Project Emissions Increase		1297.94

[2] Facility Identification Number (FIN) and Emission Point Number (EPN) as designated in NSR permit application or emission inventory.
[3] All records and calculations for these values must be available upon request.
[4] Correct actual emissions for currently applicable rule or permit requirements, and periods of non-compliance. These corrections, as well as any MSS previously demonstrated under 30 TAC 101, should be explained in the Table 2F supplement.
[5] Potential to Emit emissions are the current or proposed allowable emission rate. If Projected Actual Emissions are used for the source, they must be noted in the next column.
[6] Projected Actual Emissions are subject to 30 TAC 116.127 requirements and the basis for the projection identified in the Table 2F supplement.
[7] Proposed Potential to Emit (column B) or Projected Actual Emissions (Column C) minus Baseline Emissions (column A). New units must use Proposed Potential to Emit Emissions.
[8] Correction to be made to the Project Emission Increase for baseline actual emissions that could have accommodated or product demand growth during the baseline period, in accordance with 40 CFR 52.21(b)(41)(ii). Note, the could have accommodated or product demand growth correction may only be used with Projected Actual Emissions. The justification and basis for this estimate must be provided in the Table 2F supplement.
[9] Project Emissions Increase is obtained by subtracting the Correction column from the Difference column value. The number for each source may be positive or negative.

Table 2F
Project Emissions Increase Supplement
Texas Commission on Environmental Quality

Pollutant:	PM
Item Number:	N/A
Type[10]	N/A

Explanation:

[10] The type of note should provide additional clarifying information indicating if there was a baseline adjustment, the basis for projected actual, or the basis for correction (what could have been accommodated).

Table 2F
Project Emissions Increase Supplement
Texas Commission on Environmental Quality

Pollutant[1]:	CO
Permit Number:	TBD
Baseline Period (Month and Year):	
To Baseline Period (Month and Year):	

[1] Individual Table 2F's should be used to summarize the project emissions increase for each criteria pollutant using the EPA's "substantially related" test to determine the scope of the project.

Table 2F
Project Emissions Increase Supplement
Texas Commission on Environmental Quality

New, Affected, or Modified Facilities[2]

Item Number	FIN	EPN	Permit Number	Actual Emissions[3]	A Baseline Emissions[4]	B Proposed Potential to Emit Emissions[5]	C Projected Actual Emissions[6]	Difference, (B-A) or (C-A)[7]	Correction[8]	Project Emissions Increases[9]
1.	CT-A1 - CT-A6	CT-A1 - CT-A	TBD	N/A	N/A	398.53	N/A	N/A	N/A	398.53
2.	CT-B1 - CT-B6	CT-B1 - CT-B	TBD	N/A	N/A	295.90	N/A	N/A	N/A	295.90
3.	CT-C1 - CT-C7	CT-C1CT-C1	TBD	N/A	N/A	703.98	N/A	N/A	N/A	703.98
4.	CT-D1 - CT-D8	CT-D1 - CT-D	TBD	N/A	N/A	634.00	N/A	N/A	N/A	634.00
5.	CT-E1 - CT-E6	CT-E1 - CT-E	TBD	N/A	N/A	117.15	N/A	N/A	N/A	117.15
6.	GEN1 - GEN24	GEN1 - GEN2	TBD	N/A	N/A	154.55	N/A	N/A	N/A	154.55
7.	EGEN1 - EGEN6	EGEN1 - EGE	TBD	N/A	N/A	1.29	N/A	N/A	N/A	1.29
8.										
9.										
						Total	**Project**	**Emissions**	**Increase**	2305.43

[2] Facility Identification Number (FIN) and Emission Point Number (EPN) as designated in NSR permit application or emission inventory.
[3] All records and calculations for these values must be available upon request.
[4] Correct actual emissions for currently applicable rule or permit requirements, and periods of non-compliance. These corrections, as well as any MSS previously demonstrated under 30 TAC 101, should be explained in the Table 2F supplement.
[5] Potential to Emit emissions are the current or proposed allowable emission rate. If Projected Actual Emissions are used for the source, they must be noted in the next column.
[6] Projected Actual Emissions are subject to 30 TAC 116.127 requirements and the basis for the projection identified in the Table 2F supplement.
[7] Proposed Potential to Emit (column B) or Projected Actual Emissions (Column C) minus Baseline Emissions (column A). New units must use Proposed Potential to Emit Emissions.
[8] Correction to be made to the Project Emission Increase for baseline actual emissions that could have accommodated or product demand growth during the baseline period, in accordance with 40 CFR 52.21(b)(41)(ii). Note, the could have accommodated or product demand growth correction may only be used with Projected Actual Emissions. The justification and basis for this estimate must be provided in the Table 2F supplement.
[9] Project Emissions Increase is obtained by subtracting the Correction column from the Difference column value. The number for each source may be positive or negative.

Table 2F
Project Emissions Increase Supplement
Texas Commission on Environmental Quality

Pollutant:	CO
Item Number:	N/A
Type[10]	N/A

Explanation:

[10] The type of note should provide additional clarifying information indicating if there was a baseline adjustment, the basis for projected actual, or the basis for correction (what could have been accommodated).

Table 2F
Project Emissions Increase Supplement
Texas Commission on Environmental Quality

Pollutant[1]:	SO2
Permit Number:	TBD
Baseline Period (Month and Year):	
To Baseline Period (Month and Year):	

[1] Individual Table 2F's should be used to summarize the project emissions increase for each criteria pollutant using the EPA's "substantially related" test to determine the scope of the project.

Table 2F
Project Emissions Increase Supplement
Texas Commission on Environmental Quality

New, Affected, or Modified Facilities[2]

Item Number	FIN	EPN	Permit Number	Actual Emissions[3]	A Baseline Emissions[4]	B Proposed Potential to Emit Emissions[5]	C Projected Actual Emissions[6]	Difference, (B-A) or (C-A)[7]	Correction[8]	Project Emissions Increases[9]
1.	CT-A1 - CT-A6	CT-A1 - CT-A	TBD	N/A	N/A	62.26	N/A	N/A	N/A	62.26
2.	CT-B1 - CT-B6	CT-B1 - CT-B	TBD	N/A	N/A	46.23	N/A	N/A	N/A	46.23
3.	CT-C1 - CT-C7	CT-C1CT-C1	TBD	N/A	N/A	109.98	N/A	N/A	N/A	109.98
4.	CT-D1 - CT-D8	CT-D1 - CT-D	TBD	N/A	N/A	15.85	N/A	N/A	N/A	15.85
5.	CT-E1 - CT-E6	CT-E1 - CT-E	TBD	N/A	N/A	18.30	N/A	N/A	N/A	18.30
6.	GEN1 - GEN24	GEN1 - GEN2	TBD	N/A	N/A	11.39	N/A	N/A	N/A	11.39
7.	EGEN1 - EGEN6	EGEN1 - EGE	TBD	N/A	N/A	0.01	N/A	N/A	N/A	0.01
8.										
9.										
						Total	**Project**	**Emissions**	**Increase**	263.97

[2] Facility Identification Number (FIN) and Emission Point Number (EPN) as designated in NSR permit application or emission inventory.
[3] All records and calculations for these values must be available upon request.
[4] Correct actual emissions for currently applicable rule or permit requirements, and periods of non-compliance. These corrections, as well as any MSS previously demonstrated under 30 TAC 101, should be explained in the Table 2F supplement.
[5] Potential to Emit emissions are the current or proposed allowable emission rate. If Projected Actual Emissions are used for the source, they must be noted in the next column.
[6] Projected Actual Emissions are subject to 30 TAC 116.127 requirements and the basis for the projection identified in the Table 2F supplement.
[7] Proposed Potential to Emit (column B) or Projected Actual Emissions (Column C) minus Baseline Emissions (column A). New units must use Proposed Potential to Emit Emissions.
[8] Correction to be made to the Project Emission Increase for baseline actual emissions that could have accommodated or product demand growth during the baseline period, in accordance with 40 CFR 52.21(b)(41)(ii). Note, the could have accommodated or product demand growth correction may only be used with Projected Actual Emissions. The justification and basis for this estimate must be provided in the Table 2F supplement.
[9] Project Emissions Increase is obtained by subtracting the Correction column from the Difference column value. The number for each source may be positive or negative.

Table 2F
Project Emissions Increase Supplement
Texas Commission on Environmental Quality

Pollutant:	SO2
Item Number:	N/A
Type[10]	N/A

Explanation:

[10] The type of note should provide additional clarifying information indicating if there was a baseline adjustment, the basis for projected actual, or the basis for correction (what could have been accommodated).

Table 2F
Project Emissions Increase Supplement
Texas Commission on Environmental Quality

Pollutant[1]:	H2SO4
Permit Number:	TBD
Baseline Period (Month and Year):	
To Baseline Period (Month and Year):	

[1] Individual Table 2F's should be used to summarize the project emissions increase for each criteria pollutant using the EPA's "substantially related" test to determine the scope of the project.

Table 2F
Project Emissions Increase Supplement
Texas Commission on Environmental Quality

New, Affected, or Modified Facilities[2]

Item Number	FIN	EPN	Permit Number	Actual Emissions[3]	A Baseline Emissions[4]	B Proposed Potential to Emit Emissions[5]	C Projected Actual Emissions[6]	Difference, (B-A) or (C-A)[7]	Correction[8]	Project Emissions Increases[9]
1.	CT-A1 - CT-A6	CT-A1 - CT-A	TBD	N/A	N/A	9.53	N/A	N/A	N/A	9.53
2.	CT-B1 - CT-B6	CT-B1 - CT-B	TBD	N/A	N/A	7.07	N/A	N/A	N/A	7.07
3.	CT-C1 - CT-C7	CT-C1CT-C1	TBD	N/A	N/A	16.83	N/A	N/A	N/A	16.83
4.	CT-D1 - CT-D8	CT-D1 - CT-D	TBD	N/A	N/A	2.43	N/A	N/A	N/A	2.43
5.	CT-E1 - CT-E6	CT-E1 - CT-E	TBD	N/A	N/A	2.80	N/A	N/A	N/A	2.80
6.	GEN1 - GEN24	GEN1 - GEN2	TBD	N/A	N/A	1.74	N/A	N/A	N/A	1.74
7.	EGEN1 - EGEN6	EGEN1 - EGE	TBD	N/A	N/A	<0.01	N/A	N/A	N/A	<0.01
8.										
9.										
						Total	**Project**	**Emissions**	**Increase**	40.38

[2] Facility Identification Number (FIN) and Emission Point Number (EPN) as designated in NSR permit application or emission inventory.
[3] All records and calculations for these values must be available upon request.
[4] Correct actual emissions for currently applicable rule or permit requirements, and periods of non-compliance. These corrections, as well as any MSS previously demonstrated under 30 TAC 101, should be explained in the Table 2F supplement.
[5] Potential to Emit emissions are the current or proposed allowable emission rate. If Projected Actual Emissions are used for the source, they must be noted in the next column.
[6] Projected Actual Emissions are subject to 30 TAC 116.127 requirements and the basis for the projection identified in the Table 2F supplement.
[7] Proposed Potential to Emit (column B) or Projected Actual Emissions (Column C) minus Baseline Emissions (column A). New units must use Proposed Potential to Emit Emissions.
[8] Correction to be made to the Project Emission Increase for baseline actual emissions that could have accommodated or product demand growth during the baseline period, in accordance with 40 CFR 52.21(b)(41)(ii). Note, the could have accommodated or product demand growth correction may only be used with Projected Actual Emissions. The justification and basis for this estimate must be provided in the Table 2F supplement.
[9] Project Emissions Increase is obtained by subtracting the Correction column from the Difference column value. The number for each source may be positive or negative.

Table 2F
Project Emissions Increase Supplement
Texas Commission on Environmental Quality

Pollutant:	H2SO4
Item Number:	N/A
Type[10]	N/A

Explanation:

[10] The type of note should provide additional clarifying information indicating if there was a baseline adjustment, the basis for projected actual, or the basis for correction (what could have been accommodated).

Table 2F
Project Emissions Increase Supplement
Texas Commission on Environmental Quality

Pollutant[1]:	NOx
Permit Number:	TBD
Baseline Period (Month and Year):	
To Baseline Period (Month and Year):	

[1] Individual Table 2F's should be used to summarize the project emissions increase for each criteria pollutant using the EPA's "substantially related" test to determine the scope of the project.

Table 2F
Project Emissions Increase Supplement
Texas Commission on Environmental Quality

New, Affected, or Modified Facilities[2]

Item Number	FIN	EPN	Permit Number	Actual Emissions[3]	A Baseline Emissions[4]	B Proposed Potential to Emit Emissions[5]	C Projected Actual Emissions[6]	Difference, (B-A) or (C-A)[7]	Correction[8]	Project Emissions Increases[9]
1.	CT-A1 - CT-A6	CT-A1 - CT-A	TBD	N/A	N/A	327.32	N/A	N/A	N/A	327.32
2.	CT-B1 - CT-B6	CT-B1 - CT-B	TBD	N/A	N/A	243.03	N/A	N/A	N/A	243.03
3.	CT-C1 - CT-C7	CT-C1CT-C1	TBD	N/A	N/A	578.19	N/A	N/A	N/A	578.19
4.	CT-D1 - CT-D8	CT-D1 - CT-D	TBD	N/A	N/A	124.97	N/A	N/A	N/A	124.97
5.	CT-E1 - CT-E6	CT-E1 - CT-E	TBD	N/A	N/A	96.22	N/A	N/A	N/A	96.22
6.	GEN1 - GEN24	GEN1 - GEN2	TBD	N/A	N/A	178.33	N/A	N/A	N/A	178.33
7.	EGEN1 - EGEN6	EGEN1 - EGE	TBD	N/A	N/A	1.44	N/A	N/A	N/A	1.44
8.										
9.										
						Total	**Project**	**Emissions**	**Increase**	1549.50

[2] Facility Identification Number (FIN) and Emission Point Number (EPN) as designated in NSR permit application or emission inventory.
[3] All records and calculations for these values must be available upon request.
[4] Correct actual emissions for currently applicable rule or permit requirements, and periods of non-compliance. These corrections, as well as any MSS previously demonstrated under 30 TAC 101, should be explained in the Table 2F supplement.
[5] Potential to Emit emissions are the current or proposed allowable emission rate. If Projected Actual Emissions are used for the source, they must be noted in the next column.
[6] Projected Actual Emissions are subject to 30 TAC 116.127 requirements and the basis for the projection identified in the Table 2F supplement.
[7] Proposed Potential to Emit (column B) or Projected Actual Emissions (Column C) minus Baseline Emissions (column A). New units must use Proposed Potential to Emit Emissions.
[8] Correction to be made to the Project Emission Increase for baseline actual emissions that could have accommodated or product demand growth during the baseline period, in accordance with 40 CFR 52.21(b)(41)(ii). Note, the could have accommodated or product demand growth correction may only be used with Projected Actual Emissions. The justification and basis for this estimate must be provided in the Table 2F supplement.
[9] Project Emissions Increase is obtained by subtracting the Correction column from the Difference column value. The number for each source may be positive or negative.

Table 2F
Project Emissions Increase Supplement
Texas Commission on Environmental Quality

Pollutant:	NOx
Item Number:	N/A
Type[10]	N/A

Explanation:

[10] The type of note should provide additional clarifying information indicating if there was a baseline adjustment, the basis for projected actual, or the basis for correction (what could have been accommodated).

Table 2F
Project Emissions Increase Supplement
Texas Commission on Environmental Quality

Pollutant[1]:	NOx (as ozone)
Permit Number:	TBD
Baseline Period (Month and Year):	
To Baseline Period (Month and Year):	

[1] Individual Table 2F's should be used to summarize the project emissions increase for each criteria pollutant using the EPA's "substantially related" test to determine the scope of the project.

Table 2F
Project Emissions Increase Supplement
Texas Commission on Environmental Quality

New, Affected, or Modified Facilities[2]

Item Number	FIN	EPN	Permit Number	Actual Emissions[3]	A Baseline Emissions[4]	B Proposed Potential to Emit Emissions[5]	C Projected Actual Emissions[6]	Difference, (B-A) or (C-A)[7]	Correction[8]	Project Emissions Increases[9]
1.	CT-A1 - CT-A6	CT-A1 - CT-A	TBD	N/A	N/A	327.32	N/A	N/A	N/A	327.32
2.	CT-B1 - CT-B6	CT-B1 - CT-B	TBD	N/A	N/A	243.03	N/A	N/A	N/A	243.03
3.	CT-C1 - CT-C7	CT-C1CT-C1	TBD	N/A	N/A	578.19	N/A	N/A	N/A	578.19
4.	CT-D1 - CT-D8	CT-D1 - CT-D	TBD	N/A	N/A	124.97	N/A	N/A	N/A	124.97
5.	CT-E1 - CT-E6	CT-E1 - CT-E	TBD	N/A	N/A	96.22	N/A	N/A	N/A	96.22
6.	GEN1 - GEN24	GEN1 - GEN2	TBD	N/A	N/A	178.33	N/A	N/A	N/A	178.33
7.	EGEN1 - EGEN6	EGEN1 - EGE	TBD	N/A	N/A	1.44	N/A	N/A	N/A	1.44
8.										
9.										
						Total	**Project**	**Emissions**	**Increase**	1549.50

[2] Facility Identification Number (FIN) and Emission Point Number (EPN) as designated in NSR permit application or emission inventory.
[3] All records and calculations for these values must be available upon request.
[4] Correct actual emissions for currently applicable rule or permit requirements, and periods of non-compliance. These corrections, as well as any MSS previously demonstrated under 30 TAC 101, should be explained in the Table 2F supplement.
[5] Potential to Emit emissions are the current or proposed allowable emission rate. If Projected Actual Emissions are used for the source, they must be noted in the next column.
[6] Projected Actual Emissions are subject to 30 TAC 116.127 requirements and the basis for the projection identified in the Table 2F supplement.
[7] Proposed Potential to Emit (column B) or Projected Actual Emissions (Column C) minus Baseline Emissions (column A). New units must use Proposed Potential to Emit Emissions.
[8] Correction to be made to the Project Emission Increase for baseline actual emissions that could have accommodated or product demand growth during the baseline period, in accordance with 40 CFR 52.21(b)(41)(ii). Note, the could have accommodated or product demand growth correction may only be used with Projected Actual Emissions. The justification and basis for this estimate must be provided in the Table 2F supplement.
[9] Project Emissions Increase is obtained by subtracting the Correction column from the Difference column value. The number for each source may be positive or negative.

Table 2F
Project Emissions Increase Supplement
Texas Commission on Environmental Quality

Pollutant:	NOx (as ozone)
Item Number:	N/A
Type[10]	N/A

Explanation:

[10] The type of note should provide additional clarifying information indicating if there was a baseline adjustment, the basis for projected actual, or the basis for correction (what could have been accommodated).

Table 2F
Project Emissions Increase Supplement
Texas Commission on Environmental Quality

Pollutant[1]:	VOC (as ozone)
Permit Number:	TBD
Baseline Period (Month and Year):	
To Baseline Period (Month and Year):	

[1] Individual Table 2F's should be used to summarize the project emissions increase for each criteria pollutant using the EPA's "substantially related" test to determine the scope of the project.

Table 2F
Project Emissions Increase Supplement
Texas Commission on Environmental Quality

New, Affected, or Modified Facilities[2]

Item Number	FIN	EPN	Permit Number	Actual Emissions[3]	A Baseline Emissions[4]	B Proposed Potential to Emit Emissions[5]	C Projected Actual Emissions[6]	Difference, (B-A) or (C-A)[7]	Correction[8]	Project Emissions Increases[9]
1.	CT-A1 - CT-A6	CT-A1 - CT-A	TBD	N/A	N/A	85.45	N/A	N/A	N/A	85.45
2.	CT-B1 - CT-B6	CT-B1 - CT-B	TBD	N/A	N/A	63.44	N/A	N/A	N/A	63.44
3.	CT-C1 - CT-C7	CT-C1CT-C1	TBD	N/A	N/A	150.94	N/A	N/A	N/A	150.94
4.	CT-D1 - CT-D8	CT-D1 - CT-D	TBD	N/A	N/A	21.75	N/A	N/A	N/A	21.75
5.	CT-E1 - CT-E6	CT-E1 - CT-E	TBD	N/A	N/A	25.12	N/A	N/A	N/A	25.12
6.	GEN1 - GEN24	GEN1 - GEN2	TBD	N/A	N/A	160.79	N/A	N/A	N/A	160.79
7.	EGEN1 - EGEN6	EGEN1 - EGE	TBD	N/A	N/A	0.07	N/A	N/A	N/A	0.40
8.	OILVENT1 - OILVENT31	OILVENT1 - (	TBD	N/A	N/A	0.37	N/A	N/A	N/A	0.37
9.	TANK-DSL-1	TANK-DSL-1	TBD	N/A	N/A	0.01	N/A	N/A	N/A	0.01
							Total Project Emissions Increase			508.85

[2] Facility Identification Number (FIN) and Emission Point Number (EPN) as designated in NSR permit application or emission inventory.
[3] All records and calculations for these values must be available upon request.
[4] Correct actual emissions for currently applicable rule or permit requirements, and periods of non-compliance. These corrections, as well as any MSS previously demonstrated under 30 TAC 101, should be explained in the Table 2F supplement.
[5] Potential to Emit emissions are the current or proposed allowable emission rate. If Projected Actual Emissions are used for the source, they must be noted in the next column.
[6] Projected Actual Emissions are subject to 30 TAC 116.127 requirements and the basis for the projection identified in the Table 2F supplement.
[7] Proposed Potential to Emit (column B) or Projected Actual Emissions (Column C) minus Baseline Emissions (column A). New units must use Proposed Potential to Emit Emissions.
[8] Correction to be made to the Project Emission Increase for baseline actual emissions that could have accommodated or product demand growth during the baseline period, in accordance with 40 CFR 52.21(b)(41)(ii). Note, the could have accommodated or product demand growth correction may only be used with Projected Actual Emissions. The justification and basis for this estimate must be provided in the Table 2F supplement.
[9] Project Emissions Increase is obtained by subtracting the Correction column from the Difference column value. The number for each source may be positive or negative.

Table 2F
Project Emissions Increase Supplement
Texas Commission on Environmental Quality

Pollutant:	VOC (as ozone)
Item Number:	N/A
Type[10]	N/A

Explanation:

[10] The type of note should provide additional clarifying information indicating if there was a baseline adjustment, the basis for projected actual, or the basis for correction (what could have been accommodated).

Appendix B Emission Calculations (Submitted Electronically)

Appendix C TCEQ Fugitive Emissions Workbook (Submitted Electronically)

Appendix D RBLC Results

RBLC Entries for NOx from Combined Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
PA-0306	TENASKA PA PARTNERS/WESTMORELAND GEN FAC	2/12/2016	Large combustion turbine	0		SCR, DLN, and good combustion practice	2	PPMVD@15% O2	
TX-0790	PORT ARTHUR LNG EXPORT TERMINAL	2/17/2016	Refrigeration Compression Turbines	10	M TONNES/YR	Dry low NOx burners and good combustion practices	9	PPM	ROLLING 24-HR AVERAGE
TX-0789	DECORDOVA STEAM ELECTRIC STATION	3/8/2016	Combined Cycle & Cogeneration	231	MW	Selective Catalytic Reduction	2	PPM	
TX-0788	NECHES STATION	3/24/2016	Combined Cycle & Cogeneration	231	MW	Selective Catalytic Reduction	2	PPM	
TX-0788	NECHES STATION	3/24/2016	Large Combustion Turbines > 25 MW	232	MW	Dry low-NOx burners (DLN), good combustion practices	9	PPM	
TN-0162	JOHNSONVILLE COGENERATION	4/19/2016	Natural Gas-Fired Combustion Turbine with HRSG	1339	MMBtu/hr	Good combustion design and practices, selective catalytic reduction (SCR)	2	PPMVD @ 15% O2	30 UNIT-OPERATING-DAY MOVING AVERAGE
VA-0325	GREENSVILLE POWER STATION	6/17/2016	COMBUSTION TURBINE GENERATOR WITH DUCT-FIRED HEAT RECOVERY STEAM GENERATORS (3)	3227	MMBTU/HR	SCR	2	PPMVD	1 HR AVG
NJ-0085	MIDDLESEX ENERGY CENTER, LLC	7/19/2016	Combined Cycle Combustion Turbine firing Natural Gas with Duct Burner	4000	h/yr	SELECTIVE CATALYTIC REDUCTION AND DRY LOW NOX	2	PPMVD@15%O2	3 H ROLLING AV BASED ON ONE H BLOCK AV
NJ-0085	MIDDLESEX ENERGY CENTER, LLC	7/19/2016	Combined Cycle Combustion Turbine firing Natural Gas without Duct Burner	8040	H/YR	Selective Catalytic Reduction System and Dry Low NOx	2	PPMVD@15%O2	3 H ROLLING AV BASED ON ONE H BLOCK AV
NJ-0085	MIDDLESEX ENERGY CENTER, LLC	7/19/2016	COMBINED CYCLE COMBUSTION TURBINE FIRING ULTRA LOW SULFUR DISTILLATE OIL	720	H/YR	Selective catalytic Reduction Systems and Dry Low NOx	4	PPMVD@15% O2	3 H ROLLING AV BASED ON ONE H BLOCK AV
PA-0310	CPV FAIRVIEW ENERGY CENTER	9/2/2016	Combustion turbine and HRSG with duct burner - firing NG blend with ethane	0			0		
PA-0310	CPV FAIRVIEW ENERGY CENTER	9/2/2016	Combustion turbine and HRSG without duct burner - firing NG blend with ethane	0			0		
PA-0310	CPV FAIRVIEW ENERGY CENTER	9/2/2016	Combustion turbine and HRSG with duct burner NG only	3338	MMBtu/hr	Dry Low NOx combustion technology, SCR at all steady state operating loads, good combustion and operating practices	2	PPMDV @ 15% O2	
PA-0310	CPV FAIRVIEW ENERGY CENTER	9/2/2016	Combustion turbine and HRSG without duct burner ULSD	0		Water/steam injection, SCR, good combustion practices	6	PPMDV @ 15% O2	
OH-0367	SOUTH FIELD ENERGY LLC	9/23/2016	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	3131	MMBTU/H	Dry low NOx (DLN) burners for natural gas firing, wet injection when firing ultra low sulfur diesel, and selective catalytic reduction (SCR) for both natural gas and ultra low sulfur diesel.	30.51	LB/H	WITH DUCT BURNER. SEE NOTES.
MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	12/5/2016	FGCTGHRSG (2 Combined cycle CTGs with HRSGs; EUCTGHRSG10 & EUCTGHRSG11)	554	MMBTU/H, each	Selective catalytic reduction with dry low NOx burners (SCR with DLNB).	3	PPM AT 15% O2	24-H ROLLING AVG; EACH EU
MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	12/5/2016	FGCTGHRSG--Startup/Shutdown (2 combined cycle CTGs with HRSGs; EUCTGHRSG10 & EUCTGHRSG11)	554	MMBTU/H; EACH	Selective catalytic reduction with dry low NOx burners (SCR with DLNB).	43.7	LB/H	OPERATING HOUR DURING STARTUP; EACH EU
MI-0423	INDECK NILES, LLC	1/4/2017	FGCTGHRSG (2 Combined Cycle CTGs with HRSGs)	8322	MMBTU/H	SCR with DLNB (selective catalytic reduction with dry low NOx burners)	38.1	LB/H	24-H ROLLING AVERAGE
*PA-0315	HILLTOP ENERGY CENTER, LLC	4/12/2017	Combustion Turbine without Duct Burner	3509	MMBtu/hr		2	PPMDV	CORRECTED TO 15% O2
TX-0819	GAINES COUNTY POWER PLANT	4/28/2017	Combined Cycle Turbine with Heat Recovery Steam Generator, fired Duct Burners, and Steam Turbine Generator	426	MW	Selective Catalytic Reduction (SCR) and Dry Low NOx burners	2	PPMVD	15% O2 3-H AVG
OH-0370	TRUMBULL ENERGY CENTER	9/7/2017	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	3025	MMBTU/H	dry low NOx combustors (DLN) and selective catalytic reduction (SCR)	25.3	LB/H	WITH DUCT BURNER. SEE NOTES.
OH-0372	OREGON ENERGY CENTER	9/27/2017	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	3055	MMBTU/H	Dry low NOX combustors and selective catalytic reduction (SCR)	25.3	LB/H	WITH DUCT BURNER. SEE NOTES.
OH-0374	GUERNSEY POWER STATION LLC	10/23/2017	Combined Cycle Combustion Turbines (3, identical) (P001 to P003)	3516	MMBTU/H	dry low NOx burners and SCR	33.85	LB/H	WITH DUCT BURNER. SEE NOTES.
OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	11/7/2017	Mitsubishi Combustion Turbine (P005)	3320	MMBTU/H	dry low NOx burners and an SCR system	25.1	LB/H	WITH DUCT BURNER. SEE NOTES.
OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	11/7/2017	General Electric Combustion Turbine (P004)	3544	MMBTU/H	dry low NOx burners and an SCR system	26.1	LB/H	EXCEPT STARTUP AND SHUTDOWN. SEE NOTES
OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	11/7/2017	Siemens Combustion Turbine (P006)	3602	MMBTU/H	dry low NOx burners and an SCR system	27.1	LB/H	WITH DUCT BURNER. SEE NOTES.
*PA-0316	RENOVO ENERGY CENTER, LLC	1/26/2018	Combustion Turbine Firing NG	0		SCR	2	PPMDV	CORRECTED TO 15% O2
*PA-0316	RENOVO ENERGY CENTER, LLC	1/26/2018	Combustion Turbine firing ULSD	0		SCR	4	PPMDV	CORRECTED TO 15% O2
*WV-0029	HARRISON COUNTY POWER PLANT	3/27/2018	GE 7HA.02 Turbine	3496.2	mmBtu/hr	Dry-Low NOx Burners, SCR	32.9	LB/HR	1-HOUR AVERAGE
TX-0834	MONTGOMERY COUNTY POWER STATIOIN	3/30/2018	Combined Cycle Turbine	2635	MMBTU/HR/UNIT	SCR and Dry Low NOx burners	2	PPMVD	15% O2 1-HOUR AVERAGE
TX-0834	MONTGOMERY COUNTY POWER STATIOIN	3/30/2018	COMBINED CYCLE TURBINE MSS REDUCED LOAD	0		minimizing duration of startup / shutdown events, engaging the pollution control equipment as soon as practicable (based on vendor recommendations and guarantees), and meeting the emissions limits on the MAERT	170	LB/H	

RBLC Entries for NOx from Combined Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
OH-0377	HARRISON POWER	4/19/2018	Mitsubishi Hitachi Power Systems (MHPS) Combustion Turbines (P007 & P008)	3231	MMBTU/H	dry low NOx burners and an SCR system	28	LB/H	WITH DUCT BURNER. SEE NOTES.
OH-0377	HARRISON POWER	4/19/2018	General Electric (GE) Combustion Turbines (P005 & P006)	3459.6	MMBTU/H	dry low NOx burners and an SCR system	29.5	LB/H	WITH DUCT BURNER. SEE NOTES.
CA-1251	PALMDALE ENERGY PROJECT	4/25/2018	Combustion Turbines (GEN1 and GEN2)	2217	MMBTU/H	Selective Catalytic Reduction, Dry Low NOx Burners	2	PPM @ 15% O2	1-HOUR
VA-0328	C4GT, LLC	4/26/2018	GE Combustion Turbine - Option 1 - Normal Operation	34000	MMCF/YR	dry, low NOx burners and selective catalytic reduction	2	PPMVD @ 15% O2	1 H AV
VA-0328	C4GT, LLC	4/26/2018	Siemens Combusion Turbine - Option 2 - Normal Operation	35000	MMCF/YR	DRY, LOW NOx BURNERS & SCR	2	PPMVD @ 15% O2	1 H AV
VA-0328	C4GT, LLC	4/26/2018	Siemens Combustion Turbine - Startup & Shutdown	35000	MMCF/YR	dry, low NOx burners and SCR	95	LB/TURBINE/EVENT	COLD START 55 MIN OR LESS
VA-0328	C4GT, LLC	4/26/2018	GE Combustion Turbine - Startup and Shutdown	34000	MMCF/YR	Dry, low NOx burners and SCR	273	LB/TURBINE/EVENT	COLD START 60 MIN OR LESS
VA-0328	C4GT, LLC	4/26/2018	Siemens Combustion Turbine - Tuning & Water Washing	35000	MMCF/YR	dry, low NOx burners and SCR	564	LB/TURBINE CAL DAY	24 HR AV
VA-0328	C4GT, LLC	4/26/2018	GE Combustion Turbine - Tuning & Water Washing	34000	MMCF/YR	dry, low NOx burners and SCR	638	LB/TURBINE/CAL DAY	24 HR AV
MI-0431	INDECK NILES LLC	6/26/2018	FGCTGHRSG (2 Combined Cycle CTG with HRSGs)	3421	MMBTU/H	SCR with DLNB (Selective Catalytic Reduction with Dry Low NOx Burners)	2	PPM	AT 15%O2; 24-HR ROLL AVG
MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUCTGHRSG (South Plant): A combined cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	500	MW	SCR with DLNB (Selective catalytic reduction with dry low NOx burners).	2	PPMV	AT 15%O2; 24-HR ROLL AVG NOT S.S.
MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUCTGHRSG (North Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	500	MW	SCR with DLNB (Selective catalytic reduction with Dry Low NOx burners).	2	PPMVD	AT 15%O2; 24-H ROLL AVG; NOT S.S.
MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	7/16/2018	FGCTGHRSG (EUCTGHRSG1 & EUCTGHRSG2)	0		SCR with DLNB (Selective catalytic reduction with dry low NOx burners).	2	PPMVD	AT 15%O2; 24-H ROLL AVG; EACH UNIT;
MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	7/16/2018	FGCTGHRSG (EUCTGHRSG1 & EUCTGHRSG2)--Startup & Shutdown	0		SCR with DLNB (Selective catalytic reduction with dry low NOx burners).	262.4	LB/H	EACH UNIT; OPERATING HOUR DURING S.S.
IL-0129	CPV THREE RIVERS ENERGY CENTER	7/30/2018	Combined Cycle Combustion Turbines	3474	mmBtu/hr	Selective catalytic reduction (SCR) and low-NOx combustion technology (dry low-NOx combustion technology for natural gas; water injection for ULSD)	2	PPMV @ 15% O2	3-UNIT OPERATING HOURS
MI-0432	NEW COVERT GENERATING FACILITY	7/30/2018	FG-TURB/DB1-3 (3 combined cycle combustion turbine and heat recovery steam generator trains)	1230	MW	Good combustion practices, DLN burners and SCR.	2	PPMVD	AT 15%O2; EACH INDIV. CT/HRSG TRAIN
MI-0432	NEW COVERT GENERATING FACILITY	7/30/2018	FG-TURB/DB1-3--Startup/Shutdown Operations	1230	MW	Good combustion practices, DLN burners and SCR.	249	LB/H	EACH CT/HRSG TRAIN;STARTUP/SHUTDOWN
*PA-0319	RENAISSANCE ENERGY CENTER	8/27/2018	COMBUSTION TURBINE UNIT w/o DUCT BURNERS UNIT	2665.9	MMBtu/hr	SCR	2	PPMDV	@15% O2
*WV-0032	BROOKE COUNTY POWER PLANT	9/18/2018	GE 7HA.01 Turbine	2737.7	mmBtu/hr	Dry-Low NOx Burners, SCR	23.2	LB/HR	
LA-0331	CALCASIEU PASS LNG PROJECT	9/21/2018	Combined Cycle Combustion Turbines (CCCT1 to CCCT5)	921	MM BTU/h	Low NOx Burners, SCR, and Good Combustion Practices	2.5	PPMV	30 DAY ROLLING AVERAGE
LA-0331	CALCASIEU PASS LNG PROJECT	9/21/2018	Aeroderivative Simple Cycle Combustion Turbine	263	MM BTU/h	Selective Catalytic Reduction (SCR), exclusive combustion of fuel gas, and good combustion practices.	25	PPMV	30 DAY ROLLING AVERAGE
MI-0441	LBWL--ERICKSON STATION	12/21/2018	EUCTGHRSG2--A 667 MMBTU/H natural gas fired CTG with a HRSG.	667	MMBTU/H	Dry low NOx burners and selective catalytic reduction for NOx control.	3	PPM	PPMVD@15%O2; 24-H AVG; SEE NOTES
MI-0441	LBWL--ERICKSON STATION	12/21/2018	EUCTGHRSG1--A 667 MMBTU/H NG fired combustion turbine generator coupled with a heat recovery steam generator (HRSG)	667	MMBTU/H	Dry low NOx burners and selective catalytic reduction for NOx control.	3	PPM	PPMVD@15%O2; 24-H ROLL AVG; SEE NOTES
IL-0130	JACKSON ENERGY CENTER	12/31/2018	Combined-Cycle Combustion Turbine	3864	mmBtu/hr	Selective Catalytic Reduction (SCR) and low-NOx technology (dry low-NOx combustion technology)	2	PPMV	3-UNIT OPERATING HOURS @ 15% O2
MI-0439	JACKSON GENERATING STATION	4/2/2019	FGLMDB1-6 (6 combined cycle natural gas fired CTG each equipped with a HRSG)	420	MW	Steam injection, good combustion practices and only combust natural gas.	25	PPM	AT 15% O2; 30 DAY ROLLING AVG; EACH UNIT
VA-0332	CHICKAHOMINY POWER LLC	6/24/2019	Three (3) Mitsubishi Hitachi Power Systems combustion turbine generators	35000	MMCF/YR	Controlled by dry, low NOx burners and selective catalytic reduction (SCR).	2	PPMVD 15% O2	1 HR AVG
VA-0332	CHICKAHOMINY POWER LLC	6/24/2019	Three (3) Mitsubishi Hitachi Power Systems combustion turbine generators	35000	MMCF/YR	dry, low NOx burners and selective catalytic reduction	60	LB/TURBINE/EVENT	COLD START-42 MINUTES OR LESS

RBLC Entries for NOx from Combined Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
VA-0332	CHICKAHOMINY POWER LLC	6/24/2019	Three (3) Mitsubishi Hitachi Power Systems Combustion	35000	MMCF/YR	dry, low NOx burners and selective catalytic reduction	703	LB/TURBINE/CAL. DAY	24 HR TOTAL
*LA-0365	BIG CAJUN I POWER PLANT	6/27/2019	Combustion Turbine #1 (EQT0002, CTG-1)	1679	MM BTU/hr	Dry low NOX Burners & water injection	23	PPMV	THREE HOUR ROLLING AVERAGE
*LA-0365	BIG CAJUN I POWER PLANT	6/27/2019	Combustion Turbine #2 (EQT0003, CTG-2)	1679	MM BTU/hr	Dry low NOX burners & water injection	23	PPMV	THREE HOUR ROLLING AVERAGE
NJ-0088	COGEN TECH LINDEN VENTURE LP	7/30/2019	250 MW COMBINED CYCLE COMBUSTION TURBINE FIRING NATURAL GAS	21042	MMCubic ft/yr	Selective Catalytic Reduction, Dry Low NOx, and use of Natural gas as Primary fuel	18.3	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR
NJ-0088	COGEN TECH LINDEN VENTURE LP	7/30/2019	250 MW COMBINED CYCLE COMBUSTION TURBINE FIRING ULTRA LOW SULFUR DISTILLATE OIL (ULSD)	14.78	MMGAL/YR	Selective Catalytic Reduction and Dry Low NOx; use of clean burning fuels.	40.4	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR
PA-0333	ESC TIOGA COUNTY POWER LLC/ELEC PWR GEN FAC	8/20/2019	COMBUSTION TURBINE/DUCT BURNER	4469	MMBtu/Hr	SCR, Catalytic Oxidizer	2	PPMVD	@ 15% O2 / 1 HR
LA-0364	FG LA COMPLEX	1/6/2020	Cogeneration Units	2222	mm btu/h	Dry low NOx combustor design along with SCR.	2	PPMVD	12-MONTH ROLLING AVERAGE
WI-0306	WPL- RIVERSIDE ENERGY CENTER	2/28/2020	Natural Gas Fired Combustion Turbine (P20, P21) Phase II Commissioning	2208	MMBTU/H		55	PPMVD, 15% OXYGEN	AVG. ANY 24-HR OPERATIONAL PERIOD
WI-0306	WPL- RIVERSIDE ENERGY CENTER	2/28/2020	Natural Gas Fired Combustion Turbine (P20, P21)-Startup operation during Phase II Commissioning	2208			55	PPMVD, 15% OXYGEN	AVG. ANY 24-HR OPERATIONAL PERIOD
WI-0306	WPL- RIVERSIDE ENERGY CENTER	2/28/2020	Natural Gas Fired Combustion Turbine (P20, P21) Phase I Commissioning	2208	MMBTU/H		110	PPMVD, 15% OXYGEN	AVG. ANY 24-HR OPERATIONAL PERIOD
WI-0306	WPL- RIVERSIDE ENERGY CENTER	2/28/2020	Natural Gas Fired Combustion Turbine (P20, P21)-Startup operation during Phase I Commissioning	2208	MMBTU/H		110	PPMVD, 15% OXYGEN	AVG. ANY 24-HR OPERATIONAL PERIOD
AK-0085	GAS TREATMENT PLANT	8/13/2020	Six (6) Simple Cycle Gas-Turbines (Power Generation)	386	MMBtu/hr	DLN combustors and Good Combustion Practices	15	PPMV @ 15% O2	3-HOUR AVERAGE
AK-0085	GAS TREATMENT PLANT	8/13/2020	Six (6) Cogeneration Gas-Fired Turbines (Treated Gas Compressor Turbines)	576	MMBtu/hr	DLN combustors and Good Combustion Practices	17	PPMV @ 15% O2	3-HOUR AVERAGE
AK-0085	GAS TREATMENT PLANT	8/13/2020	Six (6) Cogeneration Gas-Fired Turbines (CO2 Compressor Turbines))	431	MMBtu/hr	DLN combustors and good combustion practices	17	PPMV @ 15% O2	3-HOUR AVERAGE
WI-0300	NEMADJI TRAIL ENERGY CENTER	9/1/2020	Natural-Gas-Fired Combined-Cycle Turbine (P01)	4671	MMBTU/H	Selective Catalytic Reduction (SCR), low-NOx burners, Water injection when firing diesel fuel oil.	2	PPM AT 15% O2	24-HR ROLLING AVG., NATURAL GAS
WI-0300	NEMADJI TRAIL ENERGY CENTER	9/1/2020	Natural Gas-Fired Combined-Cycle Turbine (P01) Start-up and Shutdown (Natural Gas)	0			335	LB/START-UP	
WI-0300	NEMADJI TRAIL ENERGY CENTER	9/1/2020	Natural-Gas-Fired Combined-Cycle Turbine (P01) Start-Up and Shutdown (diesel)	0			860	LB/START-UP	
VA-0334	DOMINION ENERGY - BRUNSWICK	12/1/2020	COMBUSTION TURBINE GENERATORS, (3) with Alternate Operating Scenario - Turbine Tuning	3442	MMBTU/H	Dry, low NOx burners and selective catalytic reduction (SCR) with a NOx performance of 2.0 ppmvd at 15% O2.	604	LBS	CALENDAR DAY/PER TURBINE
VA-0334	DOMINION ENERGY - BRUNSWICK	12/1/2020	COMBUSTION TURBINE GENERATORS, (3) with Alternate Operating Scenario - Turbine Blade Water Washing	3442	MMBTU/H	Dry, low NOx burners and selective catalytic reduction (SCR) with a NOx performance of 2.0 ppmvd at 15% O2.	604	LBS	CALENDAR DAY/PER TURBINE
*VA-0335	PANDA STONEWALL LLC	12/18/2020	Combustion Turbines, Two (2) and HRSG Duct Burners	2.55	MMBTU/H	Selective Catalytic Reduction (SCR), with ammonia injection and dry low NOx combustion.	2	PPMVD @ 15% O2	W & W/O DUCT BURNING
MI-0447	LBWL--ERICKSON STATION	1/7/2021	EUCTGHRSG1	667	MMBTU/H	Dry low NOx burners and selective catalytic reduction for NOx control for each CTG/HRSG unit.	60	LB/H	HOURLY; INCL STRT/SHUT IN COMBINED CYCLE
MI-0447	LBWL--ERICKSON STATION	1/7/2021	EUCTGHRSG2	667	MMBTU/H	Dry low NOx burners and selective catalytic reduction for NOx control for each CTG/HRSG unit.	60	LB/H	HOURLY; INCL STRT/SHUT IN COMBINED CYCLE
PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	4/29/2021	COMBUSTION TURBINE w DUCT BURNER #2 (Natural Gas)	4546	MMBtu/Hr	SCR, CATALYTIC OXIDIZER	2	PPMVD	@ 15% O2 / 1 HR
PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	4/29/2021	COMBUSTION TURBINE w DUCT BURNER #1 (Natural Gas)	4546	MMBtu/Hr	SCR, Catalytic Oxidizer	2	PPMVD	@ 15% O2 / 1 HR
PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	4/29/2021	COMBUSTION TURBINE #2 (ULSD)	3940	MMBtu/Hr	selective catalytic reduction (SCR) system, oxidation catalyst.	4	PPMVD	@ 15% O2 / 1 HR
PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	4/29/2021	COMBUSTION TURBINE #1 (ULSD)	3940	MMBtu/Hr	selective catalytic reduction (SCR) system, oxidation catalyst.	4	PPMVD	@ 15% O2 / 1 HR
FL-0371	SHADY HILLS COMBINED CYCLE FACILITY	6/7/2021	GE 7HA.02 Combustion Turbine and HRSG with Duct Firing	3622.1	MMBtu/hour	Dry low-NOX combustors and Selective Catalytic Reduction (SCR)	2	PPMVD AT 15% O2	24-HOUR BLOCK AVERAGE BASIS (BACT)
*WV-0033	MAIDSVILLE	1/5/2022	Combustion Turbine & Duct Burner (CT-01/HRSG1 & CT-02/HRSG2)	1275	mw	Dry Low NOx Combustion w/ SCR	2	PPMDV @ 15% O2	3-HOUR ROLLING AVERAGE

RBLC Entries for NOx from Combined Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
*WV-0033	MAIDSVILLE	1/5/2022	Combustion Turbine & Duct Burner (CT-01/HRSG1 & CT-02/HRSG2)	1275	mw	Dry Low NOx Combustor with SCR	2	PPMDV @ 15% O2	3-HOUR ROLLING AVERAGE
LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	6/3/2022	Combined Cycle Gas Turbine w/ Duct Burners and HRSG	5081	mm BTU/h	Dry low-NOx combustor design, selective catalytic reduction (SCR), and good combustion practices.	2	PPMVD	24-HR ROLLING AVG BASED ON 1-HR AVG
LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	6/3/2022	Combined Cycle Gas Turbine Startup and Shutdown	5081	mm BTU/h	Good combustion practices.	260	LB/HR	
MI-0452	MEC SOUTH, LLC	6/23/2022	EUCTGHRSG (South Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	3064	MMBTU/H	SCR with DLNB [Selective Catalytic Reduction with Dry Low NOx Burners]	2	PPM	24-HR ROLLING AVG
MI-0451	MEC NORTH, LLC	6/23/2022	EUCTGHRSG (North Plant): A combined cycle natural gas fired combustion turbine generator with heat recovery steam generator	3064	MMBTU/H	SCR with DLNB (Selective catalytic reduction with Dry low NOx burners)	2.5	PPM	24-HR ROLLING AVG
AK-0088	LIQUEFACTION PLANT	7/7/2022	Four Combined Cycle Gas-Fired Turbines	384	MMBtu/hr	SCR, DLN combustors, and good combustion practices	2	PPMV @ 15% O2	3-HOURS
AK-0088	LIQUEFACTION PLANT	7/7/2022	Six Simle Cycle Gas-Fired Turbines	1113	MMBtu/hr	SCR, DLN combustors, and good combustion practices	2	PPMV @ 15% O2	3-HOURS
IL-0133	LINCOLN LAND ENERGY CENTER	7/29/2022	Combined-Cycle Combustion Turbines	3647	mmBtu/hour	Dry low-NOx combustion with ultra-low NOx combustors; low-NOx duct burners; and selective catalytic reduction (SCR)	2	PPMV @ 15% O2	SEE NOTES
TX-0878	LNG EXPORT TERMINAL	9/15/2022	Refrigeration Compression Turbines	26.92	MMTON/Y	Dry low NOx burners and good combustion practices.	0	PPM	24-HR AVG
MI-0454	LBWL-ERICKSON STATION	12/20/2022	EUCTGHRSG1	667	MMBTU/H	Dry low NOx burners and selective catalytic reduction for NOx control for each CTG/HRSG unit.	3	PPM	PPMVD AT 15%O2; 24-HR ROLL AVG EXC SU/SD
MI-0454	LBWL-ERICKSON STATION	12/20/2022	EUCTGHRSG2	667	MMBTU/H	Dry low NOx burners and selective catalytic reduction for NOx control for each CTG/HRSG unit.	3	PPM	@15%OX; 24-HR ROLL AVG EXCEPT START/SHUT
MI-0455	MIDLAND COGENERATION VENTURE LIMITED PARTNERSHIP	2/1/2023	EUCTGHRSG1	4197.6	MMBTU/H	Selective catalytic regeneration	2	PPM	PPMVD AT 15%O2; 24-HR ROLL AVG EXC SU/SD
*IN-0365	MAPLE CREEK ENERGY LLC	6/19/2023	Combined Cycle Turbine CTGA	3800	MMBtu per hour	Selective catalytic reduction system and dry-low-NOx combustors	0.0085	POUND PER MMBTU	
*IN-0365	MAPLE CREEK ENERGY LLC	6/19/2023	Combined Cycle Turbine CTGB	4200	MMBtu per hour	Selective Catalytic Reduction system and dry-low-NOx combustors.	2	PPMVD	15% O2 BASED ON A 3-HR AVERAGE
*IN-0365	MAPLE CREEK ENERGY LLC	6/19/2023	Combined Cycle Turbine CTGA SU/SD	3800	MMBtu per hour		20.7	TONS PER YEAR	FOR DURATION OF THE COMBINED SU/SD EVENT
*IN-0365	MAPLE CREEK ENERGY LLC	6/19/2023	Combined Cycle Turbine CTGB SU/SD	0			35.8	TONS YEAR	FOR DURATION OF COMBINED SU/SD EVENTS
*WI-0326	NEMADJI TRAIL ENERGY CENTER	9/19/2023	Combustion Turbine; S01/P01/C01a (SCR)/C01b (oxidation catalyst)	4671	MMBtu/hr	Except during start-up and shutdown, BACT has been determined to be: (a) A selective catalytic reduction (SCR) system shall be used to control emissions from P01 when P01 is in operation. (b) P01 shall be equipped with low-NOx burners. (c) Water injection shall be used when firing diesel fuel oil.	2	PPM	24-HOUR ROLLING AVE., FIRING NATURAL GAS
IN-0371	WABASH VALLEY RESOURCES, LLC	1/11/2024	Integrated Gasification Combined Cycle Combustion Turbine	2292	MMBtu/hr	Steam Injection/SCR and Good Combustion Practices	2	PPMV	15% OXYGEN WHEN COMBUSTING >50% NAT. GAS
*LA-0412	ENTERGY LOUISIANA, LLC - FRANKLIN FARMS POWER STATION	12/23/2025	Gas Turbines	4985.3	mm BTU/h	Dry low-NOx burners, selective catalytic reduction (SCR), and energy efficiency/waste heat recovery.	2	PPM	

RBLC Entries for CO from Combined Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
PA-0306	TENASKA PA PARTNERS/WESTMORELAND GEN FAC	2/12/2016	Large combustion turbine	0		Oxidation Catalyst and good combustion practice	15.9	LB/HR	3 HR AVERAGE
TX-0790	PORT ARTHUR LNG EXPORT TERMINAL	2/17/2016	Refrigeration Compression Turbines	10	M TONNES/YR	Dry low NOx burners and good combustion practices	25	PPM	ROLLING 3-HR AVERAGE
TX-0789	DECORDOVA STEAM ELECTRIC STATION	3/8/2016	Combined Cycle & Cogeneration	231	MW	OXIDATION CATALYST	4	PPM	
TX-0788	NECHES STATION	3/24/2016	Combined Cycle & Cogeneration	231	MW	OXIDATION CATALYST	4	PPM	HOURLY
TX-0788	NECHES STATION	3/24/2016	Large Combustion Turbines > 25 MW	232	MW	good combustion practices	9	PPM	
TN-0162	JOHNSONVILLE COGENERATION	4/19/2016	Natural Gas-Fired Combustion Turbine with HRSG	1339	MMBtu/hr	Good combustion design and practices, oxidation catalyst	2	PPMVD @ 15% O2	30 UNIT-OPERATING-DAY MOVING AVERAGE
VA-0325	GREENSVILLE POWER STATION	6/17/2016	COMBUSTION TURBINE GENERATOR WITH DUCT-FIRED HEAT RECOVERY STEAM GENERATORS (3)	3227	MMBTU/HR	Oxidation Catalyst	1.6	PPMVD	3 HR AVG
NJ-0085	MIDDLESEX ENERGY CENTER, LLC	7/19/2016	Combined Cycle Combustion Turbine firing Natural Gas with Duct Burner	4000	h/yr	Oxidation Catalyst and good combustion practices	2	PPMVD@15%O2	3 H ROLLING AV BASED ON ONE H BLOCK AV
NJ-0085	MIDDLESEX ENERGY CENTER, LLC	7/19/2016	Combined Cycle Combustion Turbine firing Natural Gas without Duct Burner	8040	H/YR	OXIDATION CATALYST AND GOOD COMBUSTION PRACTICES	2	PPMVD@15% O2	3 H ROLLING AV BASED ON ONE H BLOCK AV
NJ-0085	MIDDLESEX ENERGY CENTER, LLC	7/19/2016	COMBINED CYCLE COMBUSTION TURBINE FIRING ULTRA LOW SULFUR DISTILLATE OIL	720	H/YR	Oxidation Catalyst and good combustion practices	2	PPMVD@15%O2	3 H ROLLING AV BASED ON ONE H BLOCK AV
PA-0310	CPV FAIRVIEW ENERGY CENTER	9/2/2016	Combustion turbine and HRSG with duct burner - firing NG blend with ethane	0			0		
PA-0310	CPV FAIRVIEW ENERGY CENTER	9/2/2016	Combustion turbine and HRSG without duct burner - firing NG blend with ethane	0			0		
PA-0310	CPV FAIRVIEW ENERGY CENTER	9/2/2016	Combustion turbine and HRSG with duct burner NG only	3338	MMBtu/hr	Oxidation catalyst operated at all steady state operating loads and good combustion practices	2	PPMDV @ 15% O2	
OH-0367	SOUTH FIELD ENERGY LLC	9/23/2016	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	3131	MMBTU/H	Good combustion controls and oxidation catalyst	18.57	LB/H	WITH DUCT BURNER. SEE NOTES.
MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	12/5/2016	FGCTGHRSG (2 Combined cycle CTGs with HRSGs; EUCTGHRSG10 & EUCTGHRSG11)	554	MMBTU/H, each	Oxidation catalyst technology and good combustion practices.	4	PPM	EACH EU; 24-H ROLL AVG EXCEPT
MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	12/5/2016	FGCTGHRSG--Startup/Shutdown (2 combined cycle CTGs with HRSGs; EUCTGHRSG10 & EUCTGHRSG11)	554	MMBTU/H; EACH	Oxidation catalyst technology and good combustion practices.	247.3	LB/H	OPERATING HOUR DURING STARTUP
MI-0423	INDECK NILES, LLC	1/4/2017	FGCTGHRSG (2 Combined Cycle CTGs with HRSGs)	8322	MMBTU/H	Oxidation catalyst technology and good combustion practices.	24.7	LB/H	24-H ROLLING AVG
*PA-0315	HILLTOP ENERGY CENTER, LLC	4/12/2017	Combustion Turbine without Duct Burner	3509	MMBtu/hr	Oxidation Catalyst	2	PPMDV	CORRECTED TO 15% O2
TX-0819	GAINES COUNTY POWER PLANT	4/28/2017	Combined Cycle Turbine with Heat Recovery Steam Generator, fired Duct Burners, and Steam Turbine Generator	426	MW	Selective Catalytic Reduction (SCR) and Dry Low NOx burners	2	PPMVD	15% O2 3-H AVG
OH-0370	TRUMBULL ENERGY CENTER	9/7/2017	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	3025	MMBTU/H	Good combustion controls and oxidation catalyst	15.5	LB/H	WITH DUCT BURNER. SEE NOTES.
OH-0372	OREGON ENERGY CENTER	9/27/2017	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	3055	MMBTU/H	oxidation catalyst and good combustion control	15.5	LB/H	WITH DUCT BURNER. SEE NOTES.
OH-0374	GUERNSEY POWER STATION LLC	10/23/2017	Combined Cycle Combustion Turbines (3, identical) (P001 to P003)	3516	MMBTU/H	oxidation catalyst and good combustion practices as recommended by the manufacturer	20.76	LB/H	WITH DUCT BURNER. SEE NOTES.
OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	11/7/2017	Mitsubishi Combustion Turbine (P005)	3320	MMBTU/H	oxidation catalyst and shall operate the emissions unit in accordance with good combustion practices as recommended by the manufacturer	15.3	LB/H	WITH DUCT BURNER. SEE NOTES.
OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	11/7/2017	General Electric Combustion Turbine (P004)	3544	MMBTU/H	Oxidation catalyst and good combustion practices as recommended by the manufacturer.	15.9	LB/H	EXCEPT STARTUP AND SHUTDOWN. SEE NOTES
OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	11/7/2017	Siemens Combustion Turbine (P006)	3602	MMBTU/H	oxidation catalyst and shall operate the emissions unit in accordance with good combustion practices as recommended by the manufacturer	16.5	LB/H	WITH DUCT BURNER. SEE NOTES.
*WV-0029	HARRISON COUNTY POWER PLANT	3/27/2018	GE 7HA.02 Turbine	3496.2	mmBtu/hr	Oxidation Catalyst, Good Combustion Practices	20	LB/HR	1-HOUR AVERAGE
TX-0834	MONTGOMERY COUNTY POWER STATIOIN	3/30/2018	Combined Cycle Turbine	2635	MMBTU/HR/UNIT	OXIDATION CATALYST	2	PPMVD	15% O2 3 HOUR AVERAGE
TX-0834	MONTGOMERY COUNTY POWER STATIOIN	3/30/2018	COMBINED CYCLE TURBINE MSS REDUCED LOAD	0		minimizing duration of startup / shutdown events, engaging the pollution control equipment as soon as practicable (based on vendor recommendations and guarantees), and meeting the emissions limits on the MAERT	8000	LB/H	
OH-0377	HARRISON POWER	4/19/2018	Mitsubishi Hitachi Power Systems (MHPS) Combustion Turbines (P007 & P008)	3231	MMBTU/H	Good combustion practices and oxidation catalyst	17.1	LB/H	WITH DUCT BURNER. SEE NOTES.

RBLC Entries for CO from Combined Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
OH-0377	HARRISON POWER	4/19/2018	General Electric (GE) Combustion Turbines (P005 & P006)	3459.6	MMBTU/H	Good combustion practices and oxidation catalyst	17.9	LB/H	WITH DUCT BURNER. SEE NOTES.
CA-1251	PALMDALE ENERGY PROJECT	4/25/2018	Combustion Turbines (GEN1 and GEN2)	2217	MMBTU/H	Oxidation Catalyst	1.5	PPM @ 15% O2	1-HR, DEMO LIMIT, W/O DUCT FIRING
VA-0328	C4GT, LLC	4/26/2018	GE Combustion Turbine - Option 1 - Normal Operation	34000	MMCF/YR	Oxidation catalyst and good combustion practices	1	PPMVD@ 15% O2	3 HR AV/WITHOUT DB
VA-0328	C4GT, LLC	4/26/2018	Siemens Combusion Turbine - Option 2 - Normal Operation	35000	MMCF/YR	Oxidation catalyst & good combustion practice	1.8	PPMVD @ 15% O2	3 H AV/WITH OR WITHOUT DB
VA-0328	C4GT, LLC	4/26/2018	GE Combustion Turbine - Tuning & Water Washing	34000	MMCF/YR	Oxidation catalyst and good combustion practices	194	LB/TURBINE/DAY	24 HR AV
VA-0328	C4GT, LLC	4/26/2018	Siemens Combustion Turbine - Tuning & Water Washing	35000	MMCF/YR	Oxidation catalyst and good combustion practices	309	LB/TURBINE/DAY	24 HR AV
VA-0328	C4GT, LLC	4/26/2018	Siemens Combustion Turbine - Startup & Shutdown	35000	MMCF/YR	Oxidation catalyst and good combustion practices	434	LB/TURBINE/EVENT	COLD START 55 MIN OR LESS
VA-0328	C4GT, LLC	4/26/2018	GE Combustion Turbine - Startup and Shutdown	34000	MMCF/YR	Oxidation catalyst and good combustion practice	840	LB/TURBINE/EVENT	COLD START 60 MIN OR LESS
MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUCTGHRSG (South Plant): A combined cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	500	MW	Oxidation catalyst technology and good combustion practices.	4	PPMV	AT 15%O2; 240HR ROLL AVG; NOT S.S.
MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUCTGHRSG (North Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	500	MW	Oxidation catalyst technology and good combustion practices.	4	PPMVD	AT 15%O2; 24-H ROLL AVG; NOT INCL ST/SH
MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	7/16/2018	FGCTGHRSG (EUCTGHRSG1 & EUCTGHRSG2)	0		Oxidation catalyst technology and good combustion practices.	0.0045	LB/MMBTU	EACH UNIT; 24-H ROLL AVG; NOT S.S.
MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	7/16/2018	FGCTGHRSG (EUCTGHRSG1 & EUCTGHRSG2)--Startup & Shutdown	0		Oxidation catalyst technology and good combustion practices.	791.5	LB/H	EACH UNIT; OPERATING HOUR DURING S.S.
IL-0129	CPV THREE RIVERS ENERGY CENTER	7/30/2018	Combined Cycle Combustion Turbines	3474	mmBtu/hr	Oxidation catalyst	2	PPMV @ 15 % O2	3 OPERATING-HOUR, ROLLED HOURLY, AVERAGE
MI-0432	NEW COVERT GENERATING FACILITY	7/30/2018	FG-TURB/DB1-3 (3 combined cycle combustion turbine and heat recovery steam generator trains)	1230	MW	Oxidation catalyst technology and good combustion practices.	2	PPMVD	EACH CT/HRSG TRAIN; 24-HR ROLL AVG
MI-0432	NEW COVERT GENERATING FACILITY	7/30/2018	FG-TURB/DB1-3--Startup/Shutdown Operations	1230	MW	Oxidation catalyst technology and good combustion practices.	1164	LB/H	EACH CT/HRSG TRAIN; STARTUP/SHUTDOWN
*PA-0319	RENAISSANCE ENERGY CENTER	8/27/2018	COMBUSTION TURBINE UNIT w/o DUCT BURNERS UNIT	2665.9	MMBtu/hr	Oxidation Catalyst	2	PPPDV	@15% O2
*WV-0032	BROOKE COUNTY POWER PLANT	9/18/2018	GE 7HA.01 Turbine	2737.7	mmBtu/hr	Oxidation Catalyst, Good Combustion Practices	14.1	LB/HR	
LA-0331	CALCASIEU PASS LNG PROJECT	9/21/2018	Combined Cycle Combustion Turbines (CCCT1 to CCCT5)	921	MM BTU/h	Oxidation Catalyst, Proper Design, Good Combustion Practices.	5	PPMV	30 DAY ROLLING AVERAGE
LA-0331	CALCASIEU PASS LNG PROJECT	9/21/2018	Aeroderivative Simple Cycle Combustion Turbine	263	MM BTU/h	Proper Equipment Design, Proper Operation, and Good Combustion Practices.	36	PPMV	30 DAY ROLLING AVERAGE
MI-0441	LBWL--ERICKSON STATION	12/21/2018	EUCTGHRSG2--A 667 MMBTU/H natural gas fired CTG with a HRSG.	667	MMBTU/H	An oxidation catalyst for CO control for each CTG/HRSG unit, good combustion practices.	4	PPM	PPMVD@15%O2; 24-H AVG; SEE NOTES
MI-0441	LBWL--ERICKSON STATION	12/21/2018	EUCTGHRSG1--A 667 MMBTU/H NG fired combustion turbine generator coupled with a heat recovery steam generator (HRSG)	667	MMBTU/H	An oxidation catalyst for CO control for each CTG/HRSG unit; good combustion practices.	4	PPM	PPMVD@15%O2;24-H ROLL AVG; SEE NOTES
IL-0130	JACKSON ENERGY CENTER	12/31/2018	Combined-Cycle Combustion Turbine	3864	mmBtu/hr	Oxidation catalyst	2	PPMV	3 OPERATING HOUR AVERAGE @ 15% O2
VA-0332	CHICKAHOMINY POWER LLC	6/24/2019	Three (3) Mitsubishi Hitachi Power Systems combustion turbine generators	35000	MMCF/YR	Controlled by an oxidation catalyst and good combustion practices (e.g. controlled fuel/air mixing, adequate temperature, and gas residence time).	1	PPMVD @ 15% O2	3 HR AVG
VA-0332	CHICKAHOMINY POWER LLC	6/24/2019	Three (3) Mitsubishi Hitachi Power Systems Combustion	35000	MMCF/YR	Oxidation catalyst and good combustion practices	214	LB/TURBINE/DAY	24 HR TOTAL
VA-0332	CHICKAHOMINY POWER LLC	6/24/2019	Three (3) Mitsubishi Hitachi Power Systems combustion turbine generators	35000	MMCF/YR	Oxidation catalyst and good combustion practices	444	LB/TURBINE/EVENT	COLD START 42 MIN OR LESS
*LA-0365	BIG CAJUN I POWER PLANT	6/27/2019	Combustion Turbine #1 (EQT0002, CTG-1)	1679	MM BTU/hr		25	PPMV	THREE HOUR ROLLING AVERAGE
*LA-0365	BIG CAJUN I POWER PLANT	6/27/2019	Combustion Turbine #2 (EQT0003, CTG-2)	1679	MM BTU/hr		25	PPMV	THREE HOUR ROLLING AVERAGE

RBLC Entries for CO from Combined Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
NJ-0088	COGEN TECH LINDEN VENTURE LP	7/30/2019	250 MW COMBINED CYCLE COMBUSTION TURBINE FIRING NATURAL GAS	21042	MMCubic ft/yr	Oxidation catalyst and use of clean burning fuels, natural gas and ULSD	11.1	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR
NJ-0088	COGEN TECH LINDEN VENTURE LP	7/30/2019	250 MW COMBINED CYCLE COMBUSTION TURBINE FIRING ULTRA LOW SULFUR DISTILLATE OIL (ULSD)	14.78	MMGAL/YR	Oxidation Catalyst and use of clean burning fuels	18.4	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR
PA-0333	ESC TIOGA COUNTY POWER LLC/ELEC PWR GEN FAC	8/20/2019	COMBUSTION TURBINE/DUCT BURNER	4469	MMBtu/Hr		1.5	PPMVD	@ 15% O2 / 1 HR
LA-0364	FG LA COMPLEX	1/6/2020	Cogeneration Units	2222	mm btu/h	Good combustion practices and catalytic oxidation	4	PPMVD	
WI-0306	WPL- RIVERSIDE ENERGY CENTER	2/28/2020	Natural Gas Fired Combustion Turbine (P20, P21) Phase II Commissioning	2208	MMBTU/H		150	PPMVD, 15% OXYGEN	AVG. ANY 24-HR OPERATIONAL PERIOD
WI-0306	WPL- RIVERSIDE ENERGY CENTER	2/28/2020	Natural Gas Fired Combustion Turbine (P20, P21) Phase I Commissioning	2208	MMBTU/H		1750	PPMVD, 15% OXYGEN	AVG. ANY 24-HR OPERATIONAL
AK-0085	GAS TREATMENT PLANT	8/13/2020	Six (6) Cogeneration Gas-Fired Turbines (Treated Gas Compressor Turbines)	576	MMBtu/hr	Oxidation catalyst and good combustion practices	5	PPMV @ 15% O2	3-HOUR AVERAGE
AK-0085	GAS TREATMENT PLANT	8/13/2020	Six (6) Cogeneration Gas-Fired Turbines (CO2 Compressor Turbines))	431	MMBtu/hr	Oxidation catalyst and good combustion control practices	5	PPMV @ 15% O2	3-HOUR AVERAGE
AK-0085	GAS TREATMENT PLANT	8/13/2020	Six (6) Simple Cycle Gas-Turbines (Power Generation)	386	MMBtu/hr	Good Combustion Practices and burning clean fuels (NG)	15	PPMV @ 15% O2	3-HOUR AVERAGE
WI-0300	NEMADJI TRAIL ENERGY CENTER	9/1/2020	Natural-Gas-Fired Combined-Cycle Turbine (P01)	4671	MMBTU/H	Oxidation Catalyst and good combustion controls	1.5	PPM AT 15% O2	168-HR ROLLING AVG., NATURAL GAS
WI-0300	NEMADJI TRAIL ENERGY CENTER	9/1/2020	Natural Gas-Fired Combined-Cycle Turbine (P01) Start-up and Shutdown (Natural Gas)	0			11066	LB/START-UP	
WI-0300	NEMADJI TRAIL ENERGY CENTER	9/1/2020	Natural-Gas-Fired Combined-Cycle Turbine (P01) Start-Up and Shutdown (diesel)	0			25846	LB/START-UP	
VA-0334	DOMINION ENERGY - BRUNSWICK	12/1/2020	COMBUSTION TURBINE GENERATORS, (3) with Alternate Operating Scenario - Turbine Tuning	3442	MMBTU/H	Oxidation catalyst and good combustion practices.	416	LBS	CALENDAR DAY/PER TURBINE
VA-0334	DOMINION ENERGY - BRUNSWICK	12/1/2020	COMBUSTION TURBINE GENERATORS, (3) with Alternate Operating Scenario - Turbine Blade Water Washing	3442	MMBTU/H	Oxidation catalyst and good combustion practices.	416	LBS	CALENDAR DAY/PER TURBINE
*VA-0335	PANDA STONEWALL LLC	12/18/2020	Combustion Turbines, Two (2) and HRSG Duct Burners	2.55	MMBTU/H	Catalytic Oxidizer	2	PPMVD @ 15% O2	NORMAL OPERATION W & W/O DUCT BURNING
MI-0447	LBWL--ERICKSON STATION	1/7/2021	EUCTGHRSG1	667	MMBTU/H	An oxidation catalyst for CO control for each CTG/HRSG unit, good combustion practices.	4	PPM	24-HR ROLL AVG EXCEPT STARTUP/SHUTDOWN
MI-0447	LBWL--ERICKSON STATION	1/7/2021	EUCTGHRSG2	667	MMBTU/H	An oxidation catalyst for CO control for each CTG/HRSG unit, good combustion practices.	4	PPM	24-HR ROLL AVG EXCEPT STARTUP/SHUTDOWN
PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	4/29/2021	COMBUSTION TURBINE w DUCT BURNER #2 (Natural Gas)	4546	MMBtu/Hr	SCR, CATALYTIC OXIDIZER	1.5	PPMVD	@ 15% O2 / 1 HR
PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	4/29/2021	COMBUSTION TURBINE w DUCT BURNER #1 (Natural Gas)	4546	MMBtu/Hr	SCR, Catalytic Oxidizer	1.5	PPMVD	@ 15% O2 / 1 HR
PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	4/29/2021	COMBUSTION TURBINE #2 (ULSD)	3940	MMBtu/Hr	selective catalytic reduction (SCR) system, oxidation catalyst.	2	PPMVD	@ 15% O2 / 1 HR
PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	4/29/2021	COMBUSTION TURBINE #1 (ULSD)	3940	MMBtu/Hr	SCR, Catalytic Oxidizer	2	PPMVD	@ 15% O2 / 1 HR
FL-0371	SHADY HILLS COMBINED CYCLE FACILITY	6/7/2021	GE 7HA.02 Combustion Turbine and HRSG with Duct Firing	3622.1	MMBtu/hour	Clean burning fuel with good combustion practices	4.3	PPMVD AT 15% O2	(TURBINE LOADS â‰¥ 90%); THREE 1-HR
*WV-0033	MAIDSVILLE	1/5/2022	Combustion Turbine & Duct Burner (CT-01/HRSG1 & CT-02/HRSG2)	1275	mw	Good Combustion Practices and OxCat	2	PPMDV @ 15% O2	3-HOUR BLOCK AVERAGE
*WV-0033	MAIDSVILLE	1/5/2022	Combustion Turbine & Duct Burner (CT-01/HRSG1 & CT-02/HRSG2)	1275	mw	Good Combustion Practices and Oxidation catalyst	2	PPMDV @ 15% O2	3-HOUR BLOCK AVERAGE
LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	6/3/2022	Combined Cycle Gas Turbine w/ Duct Burners and HRSG	5081	mm BTU/h	Catalytic oxidation and good combustion practices.	2	PPMVD	24-HR ROLLING AVG BASED ON 1-HR AVG
LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	6/3/2022	Combined Cycle Gas Turbine Startup and Shutdown	5081	mm BTU/h	Good combustion practices.	1620	LB/HR	
MI-0451	MEC NORTH, LLC	6/23/2022	EUCTGHRSG (North Plant): A combined cycle natural gas fired combustion turbine generator with heat recovery steam generator	3064	MMBTU/H	Oxidation catalyst technology and good combustion practices.	2	PPM	24-HR ROLLING AVG
MI-0452	MEC SOUTH, LLC	6/23/2022	EUCTGHRSG (South Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	3064	MMBTU/H	Oxidation Catalyst Technology and Good Combustion Practices	2	PPM	24-HR ROLLING AVG

RBLC Entries for CO from Combined Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
AK-0088	LIQUEFACTION PLANT	7/7/2022	Four Combined Cycle Gas-Fired Turbines	384	MMBtu/hr	Oxidation Catalyst and good combustion practices	2	PPMV @ 15% O2	3-HOURS
AK-0088	LIQUEFACTION PLANT	7/7/2022	Six Simle Cycle Gas-Fired Turbines	1113	MMBtu/hr	Oxidation Catalyst and good combustion practices	5	PPMV @ 15% O2	3-HOURS
IL-0133	LINCOLN LAND ENERGY CENTER	7/29/2022	Combined-Cycle Combustion Turbines	3647	mmBtu/hour	Oxidation catalyst and good combustion practices	1.5	PPMV @ 15% O2	TURBINE LOAD > OR = 60% W/O DUCT BURNERS
TX-0878	LNG EXPORT TERMINAL	9/15/2022	Refrigeration Compression Turbines	26.92	MMTON/Y	good combustion practices.	25	PPM	24-HR AVG
MI-0454	LBWL-ERICKSON STATION	12/20/2022	EUCTGHRSG2	667	MMBTU/H	An oxidation catalyst for CO control for each CTG/HRSG unit, good combustion practices.	4	PPM	PPMVD AT 15%O2; 24-HR ROLL AVG EXC SU/SD
MI-0454	LBWL-ERICKSON STATION	12/20/2022	EUCTGHRSG1	667	MMBTU/H	An oxidation catalyst for CO control for each CTG/HRSG unit, good combustion practices.	9	LB/H	HOURLY EXCEPT DURING SU/SD
MI-0455	MIDLAND COGENERATION VENTURE LIMITED PARTNERSHIP	2/1/2023	EUCTGHRSG1	4197.6	MMBTU/H	Oxidation catalyst	2	PPM	PPMVD AT 15%O2; 24-HR ROLL AVG EXC SU/SD
*IN-0365	MAPLE CREEK ENERGY LLC	6/19/2023	Combined Cycle Turbine CTGB	4200	MMBtu per hour	oxidation catalyst	2	PPMVD	@ 15% O2 BASED ON A 3-HR AVERAGE
*IN-0365	MAPLE CREEK ENERGY LLC	6/19/2023	Combined Cycle Turbine CTGA	3800	MMBtu per hour	Oxidation catalyst	2	PPMVD	15% O2 BASED ON A 3-HR AVERAGE
*IN-0365	MAPLE CREEK ENERGY LLC	6/19/2023	Combined Cycle Turbine CTGB SU/SD	0			310	LB/EVENT	COLD START
*IN-0365	MAPLE CREEK ENERGY LLC	6/19/2023	Combined Cycle Turbine CTGA SU/SD	3800	MMBtu per hour		1724	LB PER EVENT	
*WI-0326	NEMADJI TRAIL ENERGY CENTER	9/19/2023	Combustion Turbine; S01/P01/C01a (SCR)/C01b (oxidation catalyst)	4671	MMBtu/hr	Except during start-up and shutdown, BACT has been determined to be: (a) An oxidation catalyst shall be used to control emissions from P01 while P01 is in operation. (b) The permittee shall use good combustion control according to the manufacturerâ€™s recommendations.	1.5	PPM	168-HOUR ROLLING AVE, FIRING NATURAL GAS
*LA-0412	ENTERGY LOUISIANA, LLC - FRANKLIN FARMS POWER STATION	12/23/2025	Gas Turbines	4985.3	mm BTU/h	Oxidation catalyst and energy efficiency/waste heat recovery.	2	PPM	

RBLC Entries for SO2 from Combined Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
TX-0790	PORT ARTHUR LNG EXPORT TERMINAL	2/17/2016	Refrigeration Compression Turbines	10	M TONNES/YR	Dry low NOx burners, good combustion practices, pipeline quality sweet natural gas fuel (low sulfur fuel)	5	GR/100 SCF	
TX-0789	DECORDOVA STEAM ELECTRIC STATION	3/8/2016	Combined Cycle & Cogeneration	231	MW	GOOD COMBUSTION PRACTICES AND LOW SULFUR FUEL	5	GR/100 SCF	HOURLY
TX-0788	NECHES STATION	3/24/2016	Large Combustion Turbines > 25 MW	232	MW	good combustion practices, low sulfur fuel	1	GR/100 SCF	HOURLY
TX-0788	NECHES STATION	3/24/2016	Combined Cycle & Cogeneration	231	MW	GOOD COMBUSTION PRACTICES, LOW SULFUR FUEL	1	GR/100 SCF	HOURLY
VA-0325	GREENSVILLE POWER STATION	6/17/2016	COMBUSTION TURBINE GENERATOR WITH DUCT-FIRED HEAT RECOVERY STEAM GENERATORS (3)	3227	MMBTU/HR	Low Sulfur fuel	0.0011	LB/MMBTU	DURING NORMAL OPERATION INCLUDING SU/SD
NJ-0085	MIDDLESEX ENERGY CENTER, LLC	7/19/2016	Combined Cycle Combustion Turbine firing Natural Gas without Duct Burner	8040	H/YR	USE OF NATURAL GAS A CLEAN BURNING LOW SULFUR FUEL	5.62		
NJ-0085	MIDDLESEX ENERGY CENTER, LLC	7/19/2016	Combined Cycle Combustion Turbine firing Natural Gas with Duct Burner	4000	h/yr	USE OF NATURAL GAS A LOW SULFUR FUEL CLEAN FUEL	6.64	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR
NJ-0085	MIDDLESEX ENERGY CENTER, LLC	7/19/2016	COMBINED CYCLE COMBUSTION TURBINE FIRING ULTRA LOW SULFUR DISTILLATE OIL	720	H/YR	USE OF ULSD A CLEAN BURNING LOW SULFUR FUEL	6.65	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR
OH-0367	SOUTH FIELD ENERGY LLC	9/23/2016	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	3131	MMBTU/H	Low sulfur fuels	5.64	LB/H	NAT GAS, WITH DUCT BURNER. SEE NOTES.
MI-0423	INDECK NILES, LLC	1/4/2017	FGCTGHRSG (2 Combined Cycle CTGs with HRSGs)	8322	MMBTU/H	Good Combustion Practices and the use of pipeline quality natural gas.	11.7	LB/H	TEST PROTOCOL WILL SPECIFY AVG TIME
TX-0819	GAINES COUNTY POWER PLANT	4/28/2017	Combined Cycle Turbine with Heat Recovery Steam Generator, fired Duct Burners, and Steam Turbine Generator	426	MW	Pipeline quality natural gas	1.54	GR/100 DSCF	
OH-0370	TRUMBULL ENERGY CENTER	9/7/2017	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	3025	MMBTU/H	Low sulfur fuel	5.1	LB/H	WITH DUCT BURNER. SEE NOTES.
OH-0372	OREGON ENERGY CENTER	9/27/2017	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	3055	MMBTU/H	low sulfur fuel	5.1	LB/H	WITH DUCT BURNER. SEE NOTES.
OH-0374	GUERNSEY POWER STATION LLC	10/23/2017	Combined Cycle Combustion Turbines (3, identical) (P001 to P003)	3516	MMBTU/H	pipeline quality natural gas with a maximum sulfur content not exceed 0.50 grain/100 scf	0.0015	LB/MMBTU	SEE NOTES.
TX-0834	MONTGOMERY COUNTY POWER STATIOIN	3/30/2018	Combined Cycle Turbine	2635	MMBTU/HR/UNIT	PIPELINE QUALITY NATURAL GAS	1	GR/100 DSCF	
OH-0377	HARRISON POWER	4/19/2018	General Electric (GE) Combustion Turbines (P005 & P006)	3459.6	MMBTU/H	Good combustion practices and pipeline quality natural gas	0.0017	LB/MMBTU	SEE NOTES.
OH-0377	HARRISON POWER	4/19/2018	Mitsubishi Hitachi Power Systems (MHPS) Combustion Turbines (P007 & P008)	3231	MMBTU/H	Good combustion practices and pipeline quality natural gas	0.0021	LB/MMBTU	
VA-0328	C4GT, LLC	4/26/2018	GE Combustion Turbine - Option 1 - Normal Operation	34000	MMCF/YR	use of pipeline quality natural gas with a maximum sulfur content of 0.4 gr/100 scf on a 12-month rolling average.	0.0011	LB/MMBTU	3 HR AVG
VA-0328	C4GT, LLC	4/26/2018	Siemens Combusion Turbine - Option 2 - Normal Operation	35000	MMCF/YR	use of pipeline quality natural gas with a maximum sulfur content of 0.4 gr/100 scf on a 12 mo rolling av.	0.0011	LB/MMBTU	3 H AV
MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUCTGHRSG (South Plant): A combined cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	500	MW	Good combustion practices and the use of pipeline quality natural gas.	6.6	LB/H	HOURLY
MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUCTGHRSG (North Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	500	MW	Good combustion practices and the use of pipeline quality natural gas.	6.6	LB/H	HOURLY
MI-0432	NEW COVERT GENERATING FACILITY	7/30/2018	FG-TURB/DB1-3 (3 combined cycle combustion turbine and heat recovery steam generator trains)	1230	MW	Use of clean fuel (natural gas) with a fuel sulfur limit of 0.8 grains per 100 standard cubic feet of natural gas.	0.8	GR/100 SCF	NAT.GAS BURNED IN FG-TURB/DB1-3
LA-0331	CALCASIEU PASS LNG PROJECT	9/21/2018	Combined Cycle Combustion Turbines (CCCT1 to CCCT5)	921	MM BTU/h	Exclusive Combustion of Low Sulfur Fuel and Proper Engineering Practices	4	PPMV	ANNUAL AVERAGE
LA-0331	CALCASIEU PASS LNG PROJECT	9/21/2018	Aeroderivative Simple Cycle Combustion Turbine	263	MM BTU/h	Exclusive Combustion of Low Sulfur Fuel	4	PPMV	ANNUAL AVERAGE
VA-0332	CHICKAHOMINY POWER LLC	6/24/2019	Three (3) Mitsubishi Hitachi Power Systems combustion turbine generators	35000	MMCF/YR	Controlled by the use of pipeline-quality natural gas with a maximum sulfur content of 0.4 grains per 100 standard cubic feet (scf), on a 12-month rolling average.	0.0011	LB/MMBTU	3 HR AVG
NJ-0088	COGEN TECH LINDEN VENTURE LP	7/30/2019	250 MW COMBINED CYCLE COMBUSTION TURBINE FIRING NATURAL GAS	21042	MMCubic ft/yr	USE OF NATURAL GAS AND ULSD; BOTH CLEAN BURNING FUELS	3.45	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR
NJ-0088	COGEN TECH LINDEN VENTURE LP	7/30/2019	250 MW COMBINED CYCLE COMBUSTION TURBINE FIRING ULTRA LOW SULFUR DISTILLATE OIL (ULSD)	14.78	MMGAL/YR	USE OF NATURAL GAS AND ULSD; BOTH CLEAN BURNING FUELS	4.8	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR
LA-0364	FG LA COMPLEX	1/6/2020	Cogeneration Units	2222	mm btu/h	Use of pipeline quality natural gas or fuel gas.	1.24	LB/H	

RBLC Entries for SO2 from Combined Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
AK-0085	GAS TREATMENT PLANT	8/13/2020	Six (6) Cogeneration Gas-Fired Turbines (Treated Gas Compressor Turbines)	576	MMBtu/hr	Good combustion practices and clean burning fuel low sulfur natural gas	96	PPMV SULFUR IN FUEL	PRIOR TO COMPLETING TREATMENT TRAINS
AK-0085	GAS TREATMENT PLANT	8/13/2020	Six (6) Cogeneration Gas-Fired Turbines (CO2 Compressor Turbines))	431	MMBtu/hr	Good combustion practices and clean burning fuel low sulfur natural gas	96	PPMV SULFUR IN FUEL	PRIOR TO COMPLETING TREATMENT TRAINS
AK-0085	GAS TREATMENT PLANT	8/13/2020	Six (6) Simple Cycle Gas-Turbines (Power Generation)	386	MMBtu/hr	Good combustion practices and clean burning fuel low sulfur natural gas	96	PPMV SULFUR IN FUEL	PRIOR TO COMPLETING TREATMENT TRAINS
WI-0300	NEMADJI TRAIL ENERGY CENTER	9/1/2020	Natural-Gas-Fired Combined-Cycle Turbine (P01)	4671	MMBTU/H	Only use pipeline quality natural gas and diesel fuel, and use good combustion control	0		
PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	4/29/2021	COMBUSTION TURBINE w DUCT BURNER #2 (Natural Gas)	4546	MMBtu/Hr	SCR, CATALYTIC OXIDIZER	0.0012	LB/MMBTU	
PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	4/29/2021	COMBUSTION TURBINE w DUCT BURNER #1 (Natural Gas)	4546	MMBtu/Hr	SCR, Catalytic Oxidizer	0.0012	LB/MMBTU	
PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	4/29/2021	COMBUSTION TURBINE #2 (ULSD)	3940	MMBtu/Hr	selective catalytic reduction (SCR) system, oxidation catalyst.	0.0018	LB/MMBTU	
PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	4/29/2021	COMBUSTION TURBINE #1 (ULSD)	3940	MMBtu/Hr	SCR, Catalytic Oxidizer	0.0018	LB/MMBTU	
FL-0371	SHADY HILLS COMBINED CYCLE FACILITY	6/7/2021	GE 7HA.02 Combustion Turbine and HRSG with Duct Firing	3622.1	MMBtu/hour	Low sulfur fuel	1.4	GR. S/100 SCF NG	
*WV-0033	MAIDSVILLE	1/5/2022	Combustion Turbine & Duct Burner (CT-01/HRSG1 & CT-02/HRSG2)	1275	mw	Low Sulfur Fuel	0.4	GR-S/100 SCF	SEE APPENDIX D OF 40CFR75
*WV-0033	MAIDSVILLE	1/5/2022	Combustion Turbine & Duct Burner (CT-01/HRSG1 & CT-02/HRSG2)	1275	mw	Low Sulfur Fuel	0.4	GR-S/100 SCF	SEE APPENDIX D OF 40CFR75
MI-0451	MEC NORTH, LLC	6/23/2022	EUCTGHRSG (North Plant): A combined cycle natural gas fired combustion turbine generator with heat recovery steam generator	3064	MMBTU/H	Good combustion practices and the use of pipeline quality natural gas.	6.6	LB/H	HOURLY
MI-0452	MEC SOUTH, LLC	6/23/2022	EUCTGHRSG (South Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	3064	MMBTU/H	Good Combustion Practices and the use of pipeline quality natural gas	6.6	LB/H	HOURLY
AK-0088	LIQUEFACTION PLANT	7/7/2022	Four Combined Cycle Gas-Fired Turbines	384	MMBtu/hr	pipeline quality natural gas and good combustion practices	16	PPMV SULFUR IN FUEL	
AK-0088	LIQUEFACTION PLANT	7/7/2022	Six Simle Cycle Gas-Fired Turbines	1113	MMBtu/hr	pipeline quality natural gas and good combustion practices	16	PPMV SULFUR IN FUEL	
IL-0133	LINCOLN LAND ENERGY CENTER	7/29/2022	Combined-Cycle Combustion Turbines	3647	mmBtu/hour	Good combustion practices and use of natural gas with a sulfur content of no more than 0.5 grains (gr)/100 standard cubic feet (scf).	5.5	POUNDS/HOUR	ROLLING 3-OPERATING HOUR
TX-0878	LNG EXPORT TERMINAL	9/15/2022	Refrigeration Compression Turbines	26.92	MMTON/Y	Good combustion practices and use of pipeline quality natural gas	0		
*IN-0365	MAPLE CREEK ENERGY LLC	6/19/2023	Combined Cycle Turbine CTGA	3800	MMBtu per hour		0.0017	POUND PER MMBTU	3-HR AVERAGE
*IN-0365	MAPLE CREEK ENERGY LLC	6/19/2023	Combined Cycle Turbine CTGB	4200	MMBtu per hour		0.0019	LB PER MMBTU	BASED ON 3-HR AVERAGE
*LA-0412	ENTERGY LOUISIANA, LLC - FRANKLIN FARMS POWER STATION	12/23/2025	Gas Turbines	4985.3	mm BTU/h	Use of natural gas fuel and energy efficiency and waste heat recovery.	1	GR/100 SCF	

RBLC Entries for PM10 from Combined Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
PA-0306	TENASKA PA PARTNERS/WESTMORELAND GEN FAC	2/12/2016	Large combustion turbine	0		Good combustion practices with the use of low ash/sulfer fuels	0.0039	LB/MMBTU	
TX-0790	PORT ARTHUR LNG EXPORT TERMINAL	2/17/2016	Refrigeration Compression Turbines	10	M TONNES/YR		11.07	LB/H	
TX-0789	DECORDOVA STEAM ELECTRIC STATION	3/8/2016	Combined Cycle & Cogeneration	231	MW	GOOD COMBUSTION PRACTICES AND LOW SULFUR FUEL	35.47	LB/H	
TX-0788	NECHES STATION	3/24/2016	Large Combustion Turbines > 25 MW	232	MW	good combustion practices, low sulfur fuel	13.4	LB/H	
TX-0788	NECHES STATION	3/24/2016	Combined Cycle & Cogeneration	231	MW	GOOD COMBUSTION PRACTICES, LOW SULFUR FUEL	19.35	LB/H	
VA-0325	GREENSVILLE POWER STATION	6/17/2016	COMBUSTION TURBINE GENERATOR WITH DUCT-FIRED HEAT RECOVERY STEAM GENERATORS (3)	3227	MMBTU/HR	Low sulfur/carbon fuel and good combustion pratices	0.0039	LB/MMBTU	AVG OF 3 TEST RUNS
NJ-0085	MIDDLESEX ENERGY CENTER, LLC	7/19/2016	Combined Cycle Combustion Turbine firing Natural Gas with Duct Burner	4000	h/yr	COMPLIANCE BY STACK TESTING	18.3	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR
NJ-0085	MIDDLESEX ENERGY CENTER, LLC	7/19/2016	Combined Cycle Combustion Turbine firing Natural Gas without Duct Burner	8040	H/YR	USE OF NATURAL GAS A CLEAN BURNING FUEL	11.7	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR
NJ-0085	MIDDLESEX ENERGY CENTER, LLC	7/19/2016	COMBINED CYCLE COMBUSTION TURBINE FIRING ULTRA LOW SULFUR DISTILLATE OIL	720	H/YR	use of ULSD a low sulfur and clean fuel	72	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR
PA-0310	CPV FAIRVIEW ENERGY CENTER	9/2/2016	Combustion turbine and HRSG with duct burner NG only	3338	MMBtu/hr	Low sulfur fuel, good combustion practices	0.005	LB/MMBTU	
PA-0310	CPV FAIRVIEW ENERGY CENTER	9/2/2016	Combustion turbine and HRSG without duct burner NG only	0		Low sulfur fuels and good combustion practices	0.0068	LB/MMBTU	
PA-0310	CPV FAIRVIEW ENERGY CENTER	9/2/2016	Combustion turbine and HRSG without duct burner ULSD	0		Water/steam injection, ULSD fuel (CCCT only - duct burner is not fired with ULSD), good combustion practices	0.0415	LB/MMBTU	
PA-0310	CPV FAIRVIEW ENERGY CENTER	9/2/2016	Combustion turbine and HRSG with duct burner - firing NG blend with ethane	0			0		
PA-0310	CPV FAIRVIEW ENERGY CENTER	9/2/2016	Combustion turbine and HRSG without duct burner - firing NG blend with ethane	0			0		
OH-0367	SOUTH FIELD ENERGY LLC	9/23/2016	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	3131	MMBTU/H	Good combustion controls	25	LB/H	NAT GAS, WITH DUCT BURNER. SEE NOTES.
MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	12/5/2016	FGCTGHRSG (2 Combined cycle CTGs with HRSGs; EUCTGHRSG10 & EUCTGHRSG11)	554	MMBTU/H, each	Good combustion practices and the use of pipeline quality natural gas.	0.014	LB/MMBTU	TEST PROTOCOL WILL SPECIFY AVG TIME
MI-0423	INDECK NILES, LLC	1/4/2017	FGCTGHRSG (2 Combined Cycle CTGs with HRSGs)	8322	MMBTU/H	Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.	19.8	LB/H	TEST PROTOCOL WILL SPECIFY AVG TIME
*PA-0315	HILLTOP ENERGY CENTER, LLC	4/12/2017	Combustion Turbine without Duct Burner	3509	MMBtu/hr		0.0072	LB	MMBTU
TX-0819	GAINES COUNTY POWER PLANT	4/28/2017	Combined Cycle Turbine with Heat Recovery Steam Generator, fired Duct Burners, and Steam Turbine Generator	426	MW	Pipeline quality natural gas; good combustion practices	0		
OH-0370	TRUMBULL ENERGY CENTER	9/7/2017	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	3025	MMBTU/H	Good combustion controls and low sulfur fuel	15.2	LB/H	WITH DUCT BURNER. SEE NOTES.

RBLC Entries for PM10 from Combined Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
OH-0372	OREGON ENERGY CENTER	9/27/2017	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	3055	MMBTU/H	good combustion practices and pipeline quality natural gas	15.4	LB/H	WITH DUCT BURNER. SEE NOTES.
OH-0374	GUERNSEY POWER STATION LLC	10/23/2017	Combined Cycle Combustion Turbines (3, identical) (P001 to P003)	3516	MMBTU/H	pipeline quality natural gas	0.0073	LB/MMBTU	SEE NOTES.
OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	11/7/2017	General Electric Combustion Turbine (P004)	3544	MMBTU/H	natural gas or a natural gas and ethane mixture only	0.0036	LB/MMBTU	
OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	11/7/2017	Mitsubishi Combustion Turbine (P005)	3320	MMBTU/H	natural gas or a natural gas and ethane mixture only	0.004	LB/MMBTU	WITH DUCT BURNER. SEE NOTES.
OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	11/7/2017	Siemens Combustion Turbine (P006)	3602	MMBTU/H	natural gas or a natural gas and ethane mixture only	0.0057	LB/MMBTU	WITH DUCT BURNER. SEE NOTES.
TX-0834	MONTGOMERY COUNTY POWER STATIOIN	3/30/2018	Combined Cycle Turbine	2635	MMBTU/HR/UNIT	PIPELINE NATURAL GAS, GOOD COMBUSTION	125.7	TON/YR	
OH-0377	HARRISON POWER	4/19/2018	General Electric (GE) Combustion Turbines (P005 & P006)	3459.6	MMBTU/H	Good combustion practices and pipeline quality natural gas	0.0052	LB/MMBTU	WITH DUCT BURNER. SEE NOTES.
OH-0377	HARRISON POWER	4/19/2018	Mitsubishi Hitachi Power Systems (MHPS) Combustion Turbines (P007 & P008)	3231	MMBTU/H	Good combustion practices and pipeline quality natural gas	0.005	LB/MMBTU	WITH DUCT BURNER. SEE NOTES.
CA-1251	PALMDALE ENERGY PROJECT	4/25/2018	Combustion Turbines (GEN1 and GEN2)	2217	MMBTU/H	Clean fuel and good combustion practices	0.0048	LB/MMBTU	TEST AVERAGE
VA-0328	C4GT, LLC	4/26/2018	GE Combustion Turbine - Option 1 - Normal Operation	34000	MMCF/YR	good combustion practices and the use of pipeline quality natural gas with a maximum sulfur content of 0.4 gr/100 scf on a 12-month rolling average.	0.0069	LB/MMBTU WITHOUT DUC	AV OF 3 TEST RUNS
VA-0328	C4GT, LLC	4/26/2018	Siemens Combusion Turbine - Option 2 - Normal Operation	35000	MMCF/YR	good combustion practices and the use of pipeline quality natural gas with a maximum sulfur content of 0.4 gr/100 scf on a 12 mo rolling av.	0.0065	LB/MMBTU	AV OF 3 TEST RUNS/WITHOUT DUCT BURNING
MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUCTGHRSG (South Plant): A combined cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	500	MW	Good combustion practices, inlet air conditioning and the use of pipeline quality natural gas.	19.1	LB/H	HOURLY
MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUCTGHRSG (North Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	500	MW	Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.	19.1	LB/H	HOURLY
MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	7/16/2018	FGCTGHRSG (EUCTGHRSG1 & EUCTGHRSG2)	0		Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.	16	LB/H	HOURLY; EACH UNIT
IL-0129	CPV THREE RIVERS ENERGY CENTER	7/30/2018	Combined Cycle Combustion Turbines	3474	mmBtu/hr	Good combustion practice	0.0069	LB/MMBTU	3-HOUR BLOCK AVERAGE
MI-0432	NEW COVERT GENERATING FACILITY	7/30/2018	FG-TURB/DB1-3 (3 combined cycle combustion turbine and heat recovery steam generator trains)	1230	MW	Use clean fuel (natural gas) and good combustion practices.	10.7	LB/H	HOURLY; EACH CT/HRSG TRAIN
*PA-0319	RENAISSANCE ENERGY CENTER	8/27/2018	COMBUSTION TURBINE UNIT w/o DUCT BURNERS UNIT	2665.9	MMBtu/hr		0.0043	LB/MMBTU	HR
LA-0331	CALCASIEU PASS LNG PROJECT	9/21/2018	Combined Cycle Combustion Turbines (CCCT1 to CCCT5)	921	MM BTU/h	Exclusive Combustion of Fuel Gas and Good Combustion Practices.	9.53	LB/H	3 HOUR AVERAGE
LA-0331	CALCASIEU PASS LNG PROJECT	9/21/2018	Aeroderivative Simple Cycle Combustion Turbine	263	MM BTU/h	Exclusive Combustion of Fuel Gas, Good Combustion Practices Including Proper Burner Design.	4.5	LB/H	3 HOUR AVERAGE
MI-0441	LBWL--ERICKSON STATION	12/21/2018	EUCTGHRSG2--A 667 MMBTU/H natural gas fired CTG with a HRSG.	667	MMBTU/H	Pipeline quality natural gas, inlet air conditioning, and good combustion practices.	6.02	LB/H	HOURLY

RBLC Entries for PM10 from Combined Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
MI-0441	LBWL--ERICKSON STATION	12/21/2018	EUCTGHRSG1--A 667 MMBTU/H NG fired combustion turbine generator coupled with a heat recovery steam generator (HRSG)	667	MMBTU/H	Pipeline quality natural gas, inlet air conditioning, and good combustion practices.	6.02	LB/H	HOURLY
MI-0439	JACKSON GENERATING STATION	4/2/2019	FGLMDB1-6 (6 combined cycle natural gas fired CTG each equipped with a HRSG)	420	MW	Combustion inlet air filters, good combustion practices and only combust natural gas.	4.9	LB/H	24-HR AVG, EACH HR UNIT OPERATES, EACH
VA-0332	CHICKAHOMINY POWER LLC	6/24/2019	Three (3) Mitsubishi Hitachi Power Systems combustion turbine generators	35000	MMCF/YR	Controlled by good combustion practices (e.g. controlled fuel/air mixing, adequate temperature, and gas residence time) and the use of pipeline-quality natural gas with a maximum sulfur content of 0.4 grains per 100 scf, on a 12-month rolling average.	0.0052	LB/MMBTU	AVG OF 3 TEST RUNS
*LA-0365	BIG CAJUN I POWER PLANT	6/27/2019	Combustion Turbine #1 (EQT0002, CTG-1)	1679	MM BTU/hr	Good Combustion Controls	19	LB/HR	HOURLY MAXIMUM
*LA-0365	BIG CAJUN I POWER PLANT	6/27/2019	Combustion Turbine #2 (EQT0003, CTG-2)	1679	MM BTU/hr	Good Combustion Controls	19	LB/HR	HOURLY MAXIMUM
NJ-0088	COGEN TECH LINDEN VENTURE LP	7/30/2019	250 MW COMBINED CYCLE COMBUSTION TURBINE FIRING NATURAL GAS	21042	MMCubic ft/yr	USE OF NATURAL GAS AND ULSD; BOTH CLEAN BURNING FUELS	11.58	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR
NJ-0088	COGEN TECH LINDEN VENTURE LP	7/30/2019	250 MW COMBINED CYCLE COMBUSTION TURBINE FIRING ULTRA LOW SULFUR DISTILLATE OIL (ULSD)	14.78	MMGAL/YR	Use of clean burning fuel - ULSD	49.17	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR
LA-0364	FG LA COMPLEX	1/6/2020	Cogeneration Units	2222	mm btu/h	Use of pipeline quality natural gas or fuel gas and good combustion practices.	12.46	LB/H	
AK-0085	GAS TREATMENT PLANT	8/13/2020	Six (6) Cogeneration Gas-Fired Turbines (Treated Gas Compressor Turbines)	576	MMBtu/hr	Good combustion practices and clean burning fuel (NG)	0.0063	LB/MMBTU	3-HOUR AVERAGE
AK-0085	GAS TREATMENT PLANT	8/13/2020	Six (6) Cogeneration Gas-Fired Turbines (CO2 Compressor Turbines))	431	MMBtu/hr	Good Combustion Practices and burning clean fuels (NG)	0.0063	LB/MMBTU	3-HOUR AVERAGE
AK-0085	GAS TREATMENT PLANT	8/13/2020	Six (6) Simple Cycle Gas-Turbines (Power Generation)	386	MMBtu/hr	Good Combustion Practices and burning clean fuels (NG)	0.007	LB/MMBTU	3-HOUR AVERAGE
WI-0300	NEMADJI TRAIL ENERGY CENTER	9/1/2020	Natural-Gas-Fired Combined-Cycle Turbine (P01)	4671	MMBTU/H	Only pipeline quality natural gas and diesel fuel oil may be combusted and use good combustion control according to the manufacturerâ€™s recommendations.	36.3	LB/H	NATURAL GAS, DUCT FIRING
WI-0300	NEMADJI TRAIL ENERGY CENTER	9/1/2020	Natural Gas-Fired Combined-Cycle Turbine (P01) Start-up and Shutdown (Natural Gas)	0			43.6	LB/START-UP	
WI-0300	NEMADJI TRAIL ENERGY CENTER	9/1/2020	Natural-Gas-Fired Combined-Cycle Turbine (P01) Start-Up and Shutdown (diesel)	0			78.9	LB/START-UP	
MI-0447	LBWL--ERICKSON STATION	1/7/2021	EUCTGHRSG1	667	MMBTU/H	Pipeline quality natural gas, inlet air conditioning, and good combustion practices.	6.02	LB/H	HOURLY; APPLIES DURING ALL OPERAT. MODES
MI-0447	LBWL--ERICKSON STATION	1/7/2021	EUCTGHRSG2	667	MMBTU/H	Pipeline quality natural gas, inlet air conditioning, and good combustion practices.	6.02	LB/H	HOURLY; APPLIES DURING ALL OPERAT. MODES
FL-0371	SHADY HILLS COMBINED CYCLE FACILITY	6/7/2021	GE 7HA.02 Combustion Turbine and HRSG with Duct Firing	3622.1	MMBtu/hour	Clean fuels	1.4	GR. S/100 SCF NG	
LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	6/3/2022	Combined Cycle Gas Turbine w/ Duct Burners and HRSG	5081	mm BTU/h	Use of gaseous fuel (pipeline-quality natural gas) and good combustion practices.	0.008	LB/MM BTU	3 ONE-HOUR TEST AVERAGE
LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	6/3/2022	Combined Cycle Gas Turbine Startup and Shutdown	5081	mm BTU/h	Good combustion practices.	18	LB/HR	
MI-0451	MEC NORTH, LLC	6/23/2022	EUCTGHRSG (North Plant): A combined cycle natural gas fired combustion turbine generator with heat recovery steam generator	3064	MMBTU/H	Good combustion practices, inlet air conditioning and the use of pipeline quality natural gas.	19.1	LB/H	HOURLY

RBLC Entries for PM10 from Combined Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
MI-0452	MEC SOUTH, LLC	6/23/2022	EUCTGHRSG (South Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	3064	MMBTU/H	Good Combustion Practices, inlet air conditioning, and the use of pipeline quality natural gas	19.1	LB/H	HOURLY
AK-0088	LIQUEFACTION PLANT	7/7/2022	Four Combined Cycle Gas-Fired Turbines	384	MMBtu/hr	Good combustion practices and burning clean fuel (natural gas)	0.007	LB/MMBTU	3-HOURS
AK-0088	LIQUEFACTION PLANT	7/7/2022	Six Simle Cycle Gas-Fired Turbines	1113	MMBtu/hr	Good combustion practices and burning clean fuel (natural gas)	0.007	LB/MMBTU	3-HOURS
IL-0133	LINCOLN LAND ENERGY CENTER	7/29/2022	Combined-Cycle Combustion Turbines	3647	mmBtu/hour	Good combustion practices.	0.0041	POUNDS/MMBTU	ROLLING 3-OPERATING HOUR
TX-0878	LNG EXPORT TERMINAL	9/15/2022	Refrigeration Compression Turbines	26.92	MMTON/Y	Good combustion practices and use of pipeline quality natural gas	0		
MI-0454	LBWL-ERICKSON STATION	12/20/2022	EUCTGHRSG1	667	MMBTU/H	Pipeline quality natural gas, inlet air conditioning, and good combustion practices.	6.02	LB/H	HOURLY; APPLIES DURING ALL OPER. MODES
MI-0454	LBWL-ERICKSON STATION	12/20/2022	EUCTGHRSG2	667	MMBTU/H	Pipeline quality natural gas, inlet air conditioning, and good combustion practices.	6.02	LB/H	HOURLY; APPLIES DURING ALL MODES
MI-0455	MIDLAND COGENERATION VENTURE LIMITED PARTNERSHIP	2/1/2023	EUCTGHRSG1	4197.6	MMBTU/H	Use of pipeline quality natural gas and good combustion practices.	34.4	LB/H	HOURLY
*IN-0365	MAPLE CREEK ENERGY LLC	6/19/2023	Combined Cycle Turbine CTGB	4200	MMBtu per hour		0.0074	LB PER MMBTU	
*IN-0365	MAPLE CREEK ENERGY LLC	6/19/2023	Combined Cycle Turbine CTGA SU/SD	3800	MMBtu per hour		5.3	LB/EVENT	
*IN-0365	MAPLE CREEK ENERGY LLC	6/19/2023	Combined Cycle Turbine CTGB SU/SD	0			14	LB/EVENT	HOT START
*IN-0365	MAPLE CREEK ENERGY LLC	6/19/2023	Combined Cycle Turbine CTGA	3800	MMBtu per hour		0.0049	LB PER MMBTU	
*LA-0412	ENTERGY LOUISIANA, LLC - FRANKLIN FARMS POWER STATION	12/23/2025	Gas Turbines	4985.3	mm BTU/h	Good combustion practices, energy efficiency and waste heat recovery, and use of natural gas as fuel.	0.01	LB/MM BTU	

RBLC Entries for PM2.5 from Combined Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
PA-0306	TENASKA PA PARTNERS/WESTMORELAND GEN FAC	2/12/2016	Large combustion turbine	0		Good combustion practices	0.0039	LB/MMBTU	
TX-0790	PORT ARTHUR LNG EXPORT TERMINAL	2/17/2016	Refrigeration Compression Turbines	10	M TONNES/YR		11.07	LB/H	
TX-0789	DECORDOVA STEAM ELECTRIC STATION	3/8/2016	Combined Cycle & Cogeneration	231	MW	GOOD COMBUSTION PRACTICES AND LOW SULFUR FUEL	35.47	LB/H	
TX-0788	NECHES STATION	3/24/2016	Large Combustion Turbines > 25 MW	232	MW	good combustion practices, low sulfur fuel	13.4	LB/H	
TX-0788	NECHES STATION	3/24/2016	Combined Cycle & Cogeneration	231	MW	GOOD COMBUSTION PRACTICES AND LOW SULFUR FUEL	19.35	LB/H	
VA-0325	GREENSVILLE POWER STATION	6/17/2016	COMBUSTION TURBINE GENERATOR WITH DUCT-FIRED HEAT RECOVERY STEAM GENERATORS (3)	3227	MMBTU/HR	Pipeline Quality Natural Gas	0.0039	LB/MMBTU	AVG OF 3 TEST RUNS
NJ-0085	MIDDLESEX ENERGY CENTER, LLC	7/19/2016	Combined Cycle Combustion Turbine firing Natural Gas with Duct Burner	4000	h/yr	COMPLIANCE BY STACK TESTING	18.3	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR
NJ-0085	MIDDLESEX ENERGY CENTER, LLC	7/19/2016	Combined Cycle Combustion Turbine firing Natural Gas without Duct Burner	8040	H/YR	USE OF NATURAL GAS A CLEAN BURNING FUEL	11.7	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR
NJ-0085	MIDDLESEX ENERGY CENTER, LLC	7/19/2016	COMBINED CYCLE COMBUSTION TURBINE FIRING ULTRA LOW SULFUR DISTILLATE OIL	720	H/YR	Use of ULSD a low sulfur and clean fuel	72	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR
PA-0310	CPV FAIRVIEW ENERGY CENTER	9/2/2016	Combustion turbine and HRSG with duct burner NG only	3338	MMBtu/hr	Low sulfur fuel, good combustion practices	0.005	LB/MMBTU	
PA-0310	CPV FAIRVIEW ENERGY CENTER	9/2/2016	Combustion turbine and HRSG without duct burner NG only	0		Low sulfur fuels and good combustion practices	0.0068	LB/MMBTU	
PA-0310	CPV FAIRVIEW ENERGY CENTER	9/2/2016	Combustion turbine and HRSG without duct burner ULSD	0		Water/steam injection, ULSD fuel (CCCT only - duct burner is not fired with ULSD), good combustion practices	0.0415	LB/MMBTU	
PA-0310	CPV FAIRVIEW ENERGY CENTER	9/2/2016	Combustion turbine and HRSG with duct burner - firing NG blend with ethane	0			0		
PA-0310	CPV FAIRVIEW ENERGY CENTER	9/2/2016	Combustion turbine and HRSG without duct burner - firing NG blend with ethane	0			0		
OH-0367	SOUTH FIELD ENERGY LLC	9/23/2016	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	3131	MMBTU/H	Good combustion controls	25	LB/H	NAT GAS, WITH DUCT BURNER. SEE NOTES.
MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	12/5/2016	FGCTGHRSG (2 Combined cycle CTGs with HRSGs; EUCTGHRSG10 & EUCTGHRSG11)	554	MMBTU/H, each	Good combustion practices and the use of pipeline quality natural gas.	0.014	LB/MMBTU	TEST PROTOCOL WILL SPECIFY AVG TIME
MI-0423	INDECK NILES, LLC	1/4/2017	FGCTGHRSG (2 Combined Cycle CTGs with HRSGs)	8322	MMBTU/H	Good Combustion Practices, inlet air conditioning, and the use of pipeline quality natural gas.	19.8	LB/H	TEST PROTOCOL WILL SPECIFY AVG TIME
*PA-0315	HILLTOP ENERGY CENTER, LLC	4/12/2017	Combustion Turbine without Duct Burner	3509	MMBtu/hr		0.0072	LB	MMBTU
TX-0819	GAINES COUNTY POWER PLANT	4/28/2017	Combined Cycle Turbine with Heat Recovery Steam Generator, fired Duct Burners, and Steam Turbine Generator	426	MW	Pipeline quality natural gas; good combustion practices	0		
OH-0370	TRUMBULL ENERGY CENTER	9/7/2017	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	3025	MMBTU/H	Good combustion controls and low sulfur fuel	15.2	LB/H	WITH DUCT BURNER. SEE NOTES.

RBLC Entries for PM2.5 from Combined Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
OH-0372	OREGON ENERGY CENTER	9/27/2017	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	3055	MMBTU/H	good combustion practices and pipeline quality natural gas	15.4	LB/H	WITH DUCT BURNER. SEE NOTES.
OH-0374	GUERNSEY POWER STATION LLC	10/23/2017	Combined Cycle Combustion Turbines (3, identical) (P001 to P003)	3516	MMBTU/H	pipeline quality natural gas	0.0073	LB/MMBTU	SEE NOTES.
OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	11/7/2017	General Electric Combustion Turbine (P004)	3544	MMBTU/H	natural gas or a natural gas and ethane mixture only	0.0036	LB/MMBTU	
OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	11/7/2017	Mitsubishi Combustion Turbine (P005)	3320	MMBTU/H	natural gas or a natural gas and ethane mixture only	0.004	LB/MMBTU	WITH DUCT BURNER. SEE NOTES.
OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	11/7/2017	Siemens Combustion Turbine (P006)	3602	MMBTU/H	natural gas or a natural gas and ethane mixture only	0.0057	LB/MMBTU	WITH DUCT BURNER. SEE NOTES.
TX-0834	MONTGOMERY COUNTY POWER STATIOIN	3/30/2018	Combined Cycle Turbine	2635	MMBTU/HR/UNIT	PIPELINE NATURAL GAS, GOOD COMBUSTION	125.7	TON/YR	
OH-0377	HARRISON POWER	4/19/2018	General Electric (GE) Combustion Turbines (P005 & P006)	3459.6	MMBTU/H	Good combustion practices and pipeline quality natural gas	0.0052	LB/MMBTU	WITH DUCT BURNER. SEE NOTES.
OH-0377	HARRISON POWER	4/19/2018	Mitsubishi Hitachi Power Systems (MHPS) Combustion Turbines (P007 & P008)	3231	MMBTU/H	Good combustion practices and pipeline quality natural gas	0.005	LB/MMBTU	WITH DUCT BURNER. SEE NOTES.
CA-1251	PALMDALE ENERGY PROJECT	4/25/2018	Combustion Turbines (GEN1 and GEN2)	2217	MMBTU/H	Clean fuel and good combustion practices	0.0048	LB/MMBTU	TEST AVERAGE
VA-0328	C4GT, LLC	4/26/2018	GE Combustion Turbine - Option 1 - Normal Operation	34000	MMCF/YR	good combustion practices and the use of pipeline quality natural gas with a maximum sulfur content of 0.4 gr/100 scf on a 12-month rolling average.	0.0069	LB/MMBTU WITHOUT DUC	AV OF 3 TEST RUNS
VA-0328	C4GT, LLC	4/26/2018	Siemens Combusion Turbine - Option 2 - Normal Operation	35000	MMCF/YR	good combustion practices and the use of pipeline quality natural gas with a maximum sulfur content of 0.4 gr/100 scf on a 12-month rolling average.	0.0065	LB/MMBTU	AV OF 3 TEST RUNS/WITHOUT DUCT BURNING
MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUCTGHRSG (South Plant): A combined cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	500	MW	Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.	19.1	LB/H	HOURLY
MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUCTGHRSG (North Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	500	MW	Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.	19.1	LB/H	HOURLY
MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	7/16/2018	FGCTGHRSG (EUCTGHRSG1 & EUCTGHRSG2)	0		Good combustion practices, inlet air conditioning and the use of pipeline quality natural gas.	16	LB/H	HOURLY; EACH UNIT
MI-0432	NEW COVERT GENERATING FACILITY	7/30/2018	FG-TURB/DB1-3 (3 combined cycle combustion turbine and heat recovery steam generator trains)	1230	MW	Use clean fuel (natural gas) and good combustion practices.	10.7	LB/H	HOURLY; EACH CT/HRSG TRAIN
*PA-0319	RENAISSANCE ENERGY CENTER	8/27/2018	COMBUSTION TURBINE UNIT w/o DUCT BURNERS UNIT	2665.9	MMBtu/hr		0.0043	LB/MMBTU	HR
LA-0331	CALCASIEU PASS LNG PROJECT	9/21/2018	Combined Cycle Combustion Turbines (CCCT1 to CCCT5)	921	MM BTU/h	Exclusive Combustion of Fuel Gas and Good Combustion Practices.	9.53	LB/H	3 HOUR AVERAGE
LA-0331	CALCASIEU PASS LNG PROJECT	9/21/2018	Aeroderivative Simple Cycle Combustion Turbine	263	MM BTU/h	Exclusive Combustion of Fuel Gas, Good Combustion Practices Including Proper Burner Design.	4.5	LB/H	3 HOUR AVERAGE
MI-0441	LBWL--ERICKSON STATION	12/21/2018	EUCTGHRSG2--A 667 MMBTU/H natural gas fired CTG with a HRSG.	667	MMBTU/H	Pipeline quality natural gas, inlet air conditioning, and good combustion practices.	6.02	LB/H	HOURLY
MI-0441	LBWL--ERICKSON STATION	12/21/2018	EUCTGHRSG1--A 667 MMBTU/H NG fired combustion turbine generator coupled with a heat recovery steam generator (HRSG)	667	MMBTU/H	Pipeline quality natural gas, inlet air conditioning and good combustion practices.	6.02	LB/H	HOURLY

RBLC Entries for PM2.5 from Combined Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
MI-0439	JACKSON GENERATING STATION	4/2/2019	FGLMDB1-6 (6 combined cycle natural gas fired CTG each equipped with a HRSG)	420	MW	Combustion inlet air filters, good combustion practices and only combust natural gas.	4.9	LB/HR	24 HR AVG DET.EACH OPERATING HR; EACH
VA-0332	CHICKAHOMINY POWER LLC	6/24/2019	Three (3) Mitsubishi Hitachi Power Systems combustion turbine generators	35000	MMCF/YR	Controlled by good combustion practices (e.g. controlled fuel/air mixing, adequate temperature, and gas residence time) and the use of pipeline-quality natural gas with a maximum sulfur content of 0.4 grains per 100 scf, on a 12-month rolling average.	0.0052	LB/MMBTU	AVG OF 3 TEST RUNS
NJ-0088	COGEN TECH LINDEN VENTURE LP	7/30/2019	250 MW COMBINED CYCLE COMBUSTION TURBINE FIRING NATURAL GAS	21042	MMCubic ft/yr	USE OF NATURAL GAS AND ULSD; BOTH CLEAN BURNING FUELS	11.58	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR
NJ-0088	COGEN TECH LINDEN VENTURE LP	7/30/2019	250 MW COMBINED CYCLE COMBUSTION TURBINE FIRING ULTRA LOW SULFUR DISTILLATE OIL (ULSD)	14.78	MMGAL/YR	Use of clean burning fuel - ULSD	49.17	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR
LA-0364	FG LA COMPLEX	1/6/2020	Cogeneration Units	2222	mm btu/h	Use of pipeline quality natural gas or fuel gas and good combustion practices.	12.46	LB/H	
AK-0085	GAS TREATMENT PLANT	8/13/2020	Six (6) Cogeneration Gas-Fired Turbines (Treated Gas Compressor Turbines)	576	MMBtu/hr	Good combustion practices and burning clean fuel (NG)	0.0063	LB/MMBTU	3-HOUR AVERAGE
AK-0085	GAS TREATMENT PLANT	8/13/2020	Six (6) Cogeneration Gas-Fired Turbines (CO2 Compressor Turbines))	431	MMBtu/hr	Good Combustion Practices and burning clean fuels (NG)	0.0063	LB/MMBTU	3-HOUR AVERAGE
AK-0085	GAS TREATMENT PLANT	8/13/2020	Six (6) Simple Cycle Gas-Turbines (Power Generation)	386	MMBtu/hr	Good Combustion Practices and burning clean fuels (NG)	0.007	LB/MMBTU	3-HOUR AVERAGE
WI-0300	NEMADJI TRAIL ENERGY CENTER	9/1/2020	Natural-Gas-Fired Combined-Cycle Turbine (P01)	4671	MMBTU/H	Only combust pipeline quality natural gas and diesel fuel oil and use good combustion control according to the manufacturerâ€™s recommendations.	36.3	LB/H	NATURAL GAS, DUCT FIRING
WI-0300	NEMADJI TRAIL ENERGY CENTER	9/1/2020	Natural Gas-Fired Combined-Cycle Turbine (P01) Start-up and Shutdown (Natural Gas)	0			43.6	LB/START-UP	
WI-0300	NEMADJI TRAIL ENERGY CENTER	9/1/2020	Natural-Gas-Fired Combined-Cycle Turbine (P01) Start-Up and Shutdown (diesel)	0			78.9	LB/START-UP	
*VA-0335	PANDA STONEWALL LLC	12/18/2020	Combustion Turbines, Two (2) and HRSG Duct Burners	2.55	MMBTU/H	Good combustion practices and use of low-sulfur fuels	0.0037	LB/MMBTU	AT FULL LOAD W & W/O DB
MI-0447	LBWL--ERICKSON STATION	1/7/2021	EUCTGHRSG1	667	MMBTU/H	Pipeline quality natural gas, inlet air conditioning, and good combustion practices.	6.02	LB/H	HOURLY; APPLIES DURING ALL OPERAT. MODES
MI-0447	LBWL--ERICKSON STATION	1/7/2021	EUCTGHRSG2	667	MMBTU/H	Pipeline quality natural gas, inlet air conditioning, and good combustion practices.	6.02	LB/H	HOURLY; APPLIES DURING ALL OPERAT. MODES
FL-0371	SHADY HILLS COMBINED CYCLE FACILITY	6/7/2021	GE 7HA.02 Combustion Turbine and HRSG with Duct Firing	3622.1	MMBtu/hour	Clean fuels	1.4	GR. S/100 SCF NG	
LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	6/3/2022	Combined Cycle Gas Turbine w/ Duct Burners and HRSG	5081	mm BTU/h	Use of gaseous fuel (pipeline-quality natural gas) and good combustion practices.	0.008	LB/MM BTU	3 ONE-HOUR TEST AVERAGE
LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	6/3/2022	Combined Cycle Gas Turbine Startup and Shutdown	5081	mm BTU/h	Good combustion practices	18	LB/HR	
MI-0451	MEC NORTH, LLC	6/23/2022	EUCTGHRSG (North Plant): A combined cycle natural gas fired combustion turbine generator with heat recovery steam generator	3064	MMBTU/H	Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.	19.1	LB/H	HOURLY
MI-0452	MEC SOUTH, LLC	6/23/2022	EUCTGHRSG (South Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	3064	MMBTU/H	Good Combustion Practices, inlet air conditioning, and the use of pipeline quality natural gas	19.1	LB/H	HOURLY
AK-0088	LIQUEFACTION PLANT	7/7/2022	Four Combined Cycle Gas-Fired Turbines	384	MMBtu/hr	Good combustion practices and burning clean fuel (natural gas)	0.007	LB/MMBTU	3-HOURS

RBLC Entries for PM2.5 from Combined Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
AK-0088	LIQUEFACTION PLANT	7/7/2022	Six Simle Cycle Gas-Fired Turbines	1113	MMBtu/hr	Good combustion practices and burning clean fuel (natural gas)	0.007	LB/MMBTU	3-HOURS
TX-0878	LNG EXPORT TERMINAL	9/15/2022	Refrigeration Compression Turbines	26.92	MMTON/Y	Good combustion practices and use of pipeline quality natural gas	0		
MI-0454	LBWL-ERICKSON STATION	12/20/2022	EUCTGHRSG1	667	MMBTU/H	Pipeline quality natural gas, inlet air conditioning, and good combustion practices.	6.02	LB/H	HOURLY; APPLIES DURING ALL OPERAT. MODES
MI-0454	LBWL-ERICKSON STATION	12/20/2022	EUCTGHRSG2	667	MMBTU/H	Pipeline quality natural gas, inlet air conditioning, and good combustion practices.	6.02	LB/H	HOURLY, APPLY DURING ALL OPERATING MODES
MI-0455	MIDLAND COGENERATION VENTURE LIMITED PARTNERSHIP	2/1/2023	EUCTGHRSG1	4197.6	MMBTU/H	Use of pipeline quality natural gas and good combustion practices.	34.4	LB/H	HOURLY
*IN-0365	MAPLE CREEK ENERGY LLC	6/19/2023	Combined Cycle Turbine CTGB	4200	MMBtu per hour		0.0074	LB PER MMBTU	
*IN-0365	MAPLE CREEK ENERGY LLC	6/19/2023	Combined Cycle Turbine CTGA SU/SD	3800	MMBtu per hour		5.3	LB/EVENT	
*IN-0365	MAPLE CREEK ENERGY LLC	6/19/2023	Combined Cycle Turbine CTGB SU/SD	0			14	LB/EVENT	HOT START
*IN-0365	MAPLE CREEK ENERGY LLC	6/19/2023	Combined Cycle Turbine CTGA	3800	MMBtu per hour		0.0049	LB PER MMBTU	
*LA-0412	ENTERGY LOUISIANA, LLC - FRANKLIN FARMS POWER STATION	12/23/2025	Gas Turbines	4985.3	mm BTU/h	Good combustion practices, energy efficiency and waste heat recovery, and use of natural gas as fuel.	0.01	LB/MM BTU	

RBLC Entries for VOC from Combined Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
PA-0306	TENASKA PA PARTNERS/WESTMORELAND GEN FAC	2/12/2016	Large Combustion turbine	0		Ox Cat and good combustion practices	1.4	PPMVD @ 15% O2	
PA-0306	TENASKA PA PARTNERS/WESTMORELAND GEN FAC	2/12/2016	Large combustion turbine	0		Ox Cat and good combustion practices	2.4	PPMDV@15% O2	
TX-0790	PORT ARTHUR LNG EXPORT TERMINAL	2/17/2016	Refrigeration Compression Turbines	10	M TONNES/YR	Dry low NOx burners and good combustion practices	2	PPM	3-HR AVG
TX-0789	DECORDOVA STEAM ELECTRIC STATION	3/8/2016	Combined Cycle & Cogeneration	231	MW	OXIDATION CATALYST	2	PPM	
TX-0788	NECHES STATION	3/24/2016	Large Combustion Turbines > 25 MW	232	MW	good combustion practices	2	PPM	
TX-0788	NECHES STATION	3/24/2016	Combined Cycle & Cogeneration	231	MW	OXIDATION CATALYST	2	PPM	
VA-0325	GREENSVILLE POWER STATION	6/17/2016	COMBUSTION TURBINE GENERATOR WITH DUCT-FIRED HEAT RECOVERY STEAM GENERATORS (3)	3227	MMBTU/HR	Oxidation Catalyst and good combustion practices	1.4	PPMVD	
NJ-0085	MIDDLESEX ENERGY CENTER, LLC	7/19/2016	Combined Cycle Combustion Turbine firing Natural Gas without Duct Burner	8040	H/YR	Oxidation catalyst and good combustion practices	1	PPMVD@15%O2	AV OF THREE ONE H STACK TESTS EVERY 5 YR
NJ-0085	MIDDLESEX ENERGY CENTER, LLC	7/19/2016	Combined Cycle Combustion Turbine firing Natural Gas with Duct Burner	4000	h/yr	Oxidation Catalyst and good combustion practices	2	PPMVD@15%O2	AV OF THREE ONE H STACK TESTS EVERY 5 YR
NJ-0085	MIDDLESEX ENERGY CENTER, LLC	7/19/2016	COMBINED CYCLE COMBUSTION TURBINE FIRING ULTRA LOW SULFUR DISTILLATE OIL	720	H/YR	oxidation catalyst and good combustion practices	2	PPMVD@15%O2	AV OF THREE ONE H STACK TESTS EVERY 5 YR
PA-0310	CPV FAIRVIEW ENERGY CENTER	9/2/2016	Combustion turbine and HRSG with duct burner - firing NG blend with ethane	0			0		
PA-0310	CPV FAIRVIEW ENERGY CENTER	9/2/2016	Combustion turbine and HRSG without duct burner - firing NG blend with ethane	0			0		
PA-0310	CPV FAIRVIEW ENERGY CENTER	9/2/2016	Combustion turbine and HRSG without duct burner NG only	0			1	PPMDV @ 15% O2	
PA-0310	CPV FAIRVIEW ENERGY CENTER	9/2/2016	Combustion turbine and HRSG with duct burner NG only	3338	MMBtu/hr	Oxidation catalyst and good combustion practices	1.5	PPMDV @ 15% O2	
PA-0310	CPV FAIRVIEW ENERGY CENTER	9/2/2016	Combustion turbine and HRSG without duct burner ULSD	0		Oxidation catalyst, water/steam injection, good combustion practices	2	PPMDV @ 15% O2	
OH-0367	SOUTH FIELD ENERGY LLC	9/23/2016	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	3131	MMBTU/H	Good combustion controls and oxidation catalyst	10.64	LB/H	WITH DUCT BURNER. SEE NOTES.
MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	12/5/2016	FGCTGHRSG (2 Combined cycle CTGs with HRSGs; EUCTGHRSG10 & EUCTGHRSG11)	554	MMBTU/H, each	Oxidation catalyst technology and good combustion practices.	4	PPM AT 15% O2	TEST PROTOCOL WILL SPECIFY AVG TIME
MI-0423	INDECK NILES, LLC	1/4/2017	FGCTGHRSG (2 Combined Cycle CTGs with HRSGs)	8322	MMBTU/H	Oxidation Catalyst Technology and Good Combustion Practices	4	PPM	TEST PROTOCOL WILL SPECIFY
*PA-0315	HILLTOP ENERGY CENTER, LLC	4/12/2017	Combustion Turbine without Duct Burner	3509	MMBtu/hr		1	PPMDV	CORRECTED TO 15% O2
*PA-0315	HILLTOP ENERGY CENTER, LLC	4/12/2017	Combustion Turbine With Duct Burner	4367	MMBtu/hr		2	PPMDV	CORRECTED TO 15% O2
TX-0819	GAINES COUNTY POWER PLANT	4/28/2017	Combined Cycle Turbine with Heat Recovery Steam Generator, fired Duct Burners, and Steam Turbine Generator	426	MW	Oxidation catalyst and good combustion practices	3.5	PPMVD	15% O2
OH-0370	TRUMBULL ENERGY CENTER	9/7/2017	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	3025	MMBTU/H	Good combustion controls and oxidation catalyst	8.8	LB/H	WITH DUCT BURNER. SEE NOTES.
OH-0372	OREGON ENERGY CENTER	9/27/2017	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	3055	MMBTU/H	oxidation catalyst and good combustion control	8.8	LB/H	WITH DUCT BURNER. SEE NOTES.
OH-0374	GUERNSEY POWER STATION LLC	10/23/2017	Combined Cycle Combustion Turbines (3, identical) (P001 to P003)	3516	MMBTU/H	oxidation catalyst and good combustion practices as recommended by the manufacturer	11.73	LB/H	WITH DUCT BURNER. SEE NOTES.
OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	11/7/2017	General Electric Combustion Turbine (P004)	3544	MMBTU/H	Oxidation catalyst and good combustion practices as recommended by the manufacturer.	4.54	LB/H	EXCEPT STARTUP AND SHUTDOWN. SEE NOTES
OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	11/7/2017	Mitsubishi Combustion Turbine (P005)	3320	MMBTU/H	oxidation catalyst and shall operate the emissions unit in accordance with good combustion practices as recommended by the manufacturer	8.8	LB/H	WITH DUCT BURNER. SEE NOTES.
OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	11/7/2017	Siemens Combustion Turbine (P006)	3602	MMBTU/H	oxidation catalyst and shall operate the emissions unit in accordance with good combustion practices as recommended by the manufacturer	9.5	LB/H	WITH DUCT BURNER. SEE NOTES.

RBLC Entries for VOC from Combined Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
*PA-0316	RENOVO ENERGY CENTER, LLC	1/26/2018	Combustion Turbine Firing NG	0			1	PPMDV	CORRTECTED TO 15% O2
*PA-0316	RENOVO ENERGY CENTER, LLC	1/26/2018	Combustion Turbine firing ULSD	0			2	PPMDV	CORRECTED TO 15% O2
*WV-0029	HARRISON COUNTY POWER PLANT	3/27/2018	GE 7HA.02 Turbine	3496.2	mmBtu/hr	Oxidation Catalyst, Good Combustion Practices	11.4	LB/HR	
TX-0834	MONTGOMERY COUNTY POWER STATIOIN	3/30/2018	Combined Cycle Turbine	2635	MMBTU/HR/UNIT	Oxidation catalyst	2	PPMVD	15% O2 3 HOUR AVERAGE
TX-0834	MONTGOMERY COUNTY POWER STATIOIN	3/30/2018	COMBINED CYCLE TURBINE MSS REDUCED LOAD	0		minimizing duration of startup / shutdown events, engaging the pollution control equipment as soon as practicable (based on vendor recommendations and guarantees), and meeting the emissions limits on the MAERT	2000	LB/H	
OH-0377	HARRISON POWER	4/19/2018	General Electric (GE) Combustion Turbines (P005 & P006)	3459.6	MMBTU/H	Good combustion practices and oxidation catalyst	4.36	LB/H	WITH DUCT BURNER. SEE NOTES.
OH-0377	HARRISON POWER	4/19/2018	Mitsubishi Hitachi Power Systems (MHPS) Combustion Turbines (P007 & P008)	3231	MMBTU/H	Good combustion practices and oxidation catalyst	9.8	LB/H	WITH DUCT BURNER. SEE NOTES.
VA-0328	C4GT, LLC	4/26/2018	GE Combustion Turbine - Option 1 - Normal Operation	34000	MMCF/YR	Oxidation catalyst and good combustion practices	0.7	PPMVD @ 15% O2	3 HR AV/WITHOUT DB
VA-0328	C4GT, LLC	4/26/2018	Siemens Combusion Turbine - Option 2 - Normal Operation	35000	MMCF/YR	Oxidation catalyst and good combustion practice	1	PPMVD @ 15% O2	3 H AV/WITHOUT DB
VA-0328	C4GT, LLC	4/26/2018	Siemens Combustion Turbine - Startup & Shutdown	35000	MMCF/YR	Oxidation catalyst and good combustion practices	37	LB/TURBINE/EVENT	COLD START 55 MIN OR LESS
VA-0328	C4GT, LLC	4/26/2018	GE Combustion Turbine - Startup and Shutdown	34000	MMCF/YR	Oxidation catalyst and good combustion practices	60	LB/TURBINE/EVENT	COLD START 60 MIN OR LESS
MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUCTGHRSG (South Plant): A combined cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	500	MW	Oxidation catalyst technology and good combustion practices.	4	PPMVD	AT 15%O2; NOT INCL. STARTUP/SHUTDOWN
MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUCTGHRSG (North Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	500	MW	Oxidation catalyst technology and good combustion practices.	4	PPMVD	AT 15%O2; HOURLY
MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	7/16/2018	FGCTGHRSG (EUCTGHRSG1 & EUCTGHRSG2)	0		Oxidation catalyst technology and good combustion practices.	0.0026	LB/MMBTU	EACH UNIT; HOURLY EXCEPT S.S.
MI-0432	NEW COVERT GENERATING FACILITY	7/30/2018	FG-TURB/DB1-3 (3 combined cycle combustion turbine and heat recovery steam generator trains)	1230	MW	An oxidation catalyst and good combustion practices.	1	PPMVD	HOURLY; EACH CT/HRSG TRAIN
*PA-0319	RENAISSANCE ENERGY CENTER	8/27/2018	COMBUSTION TURBINE UNIT w/o DUCT BURNERS UNIT	2665.9	MMBtu/hr	Oxidation Catalyst	1	PPMDV	@15% O2
*PA-0319	RENAISSANCE ENERGY CENTER	8/27/2018	COMBUSTION TURBINE UNIT with DUCT BURNERS UNIT	0			1.4	PPMDV	@15% O2
*WV-0032	BROOKE COUNTY POWER PLANT	9/18/2018	GE 7HA.01 Turbine	2737.7	mmBtu/hr	Oxidation Catalyst, Good Combustion Practices	8.1	LB/HR	
LA-0331	CALCASIEU PASS LNG PROJECT	9/21/2018	Combined Cycle Combustion Turbines (CCCT1 to CCCT5)	921	MM BTU/h	Catalytic Oxidation, Proper Equipment Design and Good Combustion Practices.	1.1	PPMV	3 HOUR AVERAGE
LA-0331	CALCASIEU PASS LNG PROJECT	9/21/2018	Aeroderivative Simple Cycle Combustion Turbine	263	MM BTU/h	Proper Equipment Design, Proper Operation, and Good Combustion Practices.	1.5	PPMV	3 HOUR AVERAGE
MI-0441	LBWL--ERICKSON STATION	12/21/2018	EUCTGHRSG2--A 667 MMBTU/H natural gas fired CTG with a HRSG.	667	MMBTU/H	An oxidation catalyst for VOC control and good combustion practices.	3	PPM	PPMVD@15%O2; HOURLY; SEE NOTES
MI-0441	LBWL--ERICKSON STATION	12/21/2018	EUCTGHRSG1--A 667 MMBTU/H NG fired combustion turbine generator coupled with a heat recovery steam generator (HRSG)	667	MMBTU/H	An oxidation catalyst for VOC control for each CTG/HRSG unit, good combustion practices.	3	PPM	PPMVD@15%O2; HOURLY EXC.START/SHUT; NOTE
VA-0332	CHICKAHOMINY POWER LLC	6/24/2019	Three (3) Mitsubishi Hitachi Power Systems combustion turbine generators	35000	MMCF/YR	Controlled by an oxidation catalyst and good combustion practices (e.g. controlled fuel/air mixing, adequate temperature, and gas residence time)	0.7	PPMVD @ 15% O2	3 HR AVG
VA-0332	CHICKAHOMINY POWER LLC	6/24/2019	Three (3) Mitsubishi Hitachi Power Systems combustion turbine generators	35000	MMCF/YR	Oxidation catalyst and good combustion practices	216	LB/TURBINE/EVENT	COLD START 42 MIN OR LESS
NJ-0088	COGEN TECH LINDEN VENTURE LP	7/30/2019	250 MW COMBINED CYCLE COMBUSTION TURBINE FIRING NATURAL GAS	21042	MMCubic ft/yr	Add on Oxidation Catalyst and use of Natural Gas as primary fuel for pollution prevention	3.2	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR

RBLC Entries for VOC from Combined Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
NJ-0088	COGEN TECH LINDEN VENTURE LP	7/30/2019	250 MW COMBINED CYCLE COMBUSTION TURBINE FIRING ULTRA LOW SULFUR DISTILLATE OIL (ULSD)	14.78	MMGAL/YR	Oxidation Catalyst and Clean burning fuel - ULSD	7	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR
LA-0364	FG LA COMPLEX	1/6/2020	Cogeneration Units	2222	mm btu/h	Good combustion practices and catalytic oxidation	4	PPMVD	
WI-0306	WPL- RIVERSIDE ENERGY CENTER	2/28/2020	Natural Gas Fired Combustion Turbine (P20, P21) Phase I Commissioning	2208	MMBTU/H		0	SEE NOTES	
WI-0306	WPL- RIVERSIDE ENERGY CENTER	2/28/2020	Natural Gas Fired Combustion Turbine (P20, P21) Phase II Commissioning	2208	MMBTU/H		0	(SEE NOTES)	
AK-0085	GAS TREATMENT PLANT	8/13/2020	Six (6) Cogeneration Gas-Fired Turbines (Treated Gas Compressor Turbines)	576	MMBtu/hr	Oxidation catalyst and good combustion practices	0.0022	LB/MMBTU	3-HOUR AVERAGE
AK-0085	GAS TREATMENT PLANT	8/13/2020	Six (6) Cogeneration Gas-Fired Turbines (CO2 Compressor Turbines))	431	MMBtu/hr	Oxidation catalyst and good combustion control practices	0.0022	LB/MMBTU	3-HOUR AVERAGE
AK-0085	GAS TREATMENT PLANT	8/13/2020	Six (6) Simple Cycle Gas-Turbines (Power Generation)	386	MMBtu/hr	Good Combustion Practices and burning clean fuels (NG)	0.0022	LB/MMBTU	3-HOUR AVERAGE
WI-0300	NEMADJI TRAIL ENERGY CENTER	9/1/2020	Natural-Gas-Fired Combined-Cycle Turbine (P01)	4671	MMBTU/H	Oxidation Catalyst, good combustion control	2.7	PPM AT 15% O2	168-HR AVG., NAT. GAS, DUCT FIRING
WI-0300	NEMADJI TRAIL ENERGY CENTER	9/1/2020	Natural Gas-Fired Combined-Cycle Turbine (P01) Start-up and Shutdown (Natural Gas)	0			950	LB/START-UP	
WI-0300	NEMADJI TRAIL ENERGY CENTER	9/1/2020	Natural-Gas-Fired Combined-Cycle Turbine (P01) Start-Up and Shutdown (diesel)	0			2951	LB/START-UP	
*VA-0335	PANDA STONEWALL LLC	12/18/2020	Combustion Turbines, Two (2) and HRSG Duct Burners	2.55	MMBTU/H	Catalytic Oxidizer	1.5	PPMVD AT 15% O2	NORMAL OPERATIONS W DUCT BURNER/W/O DB
MI-0447	LBWL--ERICKSON STATION	1/7/2021	EUCTGHRSG1	667	MMBTU/H	An oxidation catalyst for VOC control for each CTG/HRSG unit, good combustion practices.	3	PPM	HOURLY EXCEPT STARTUP SHUTDOWN
MI-0447	LBWL--ERICKSON STATION	1/7/2021	EUCTGHRSG2	667	MMBTU/H	An oxidation catalyst for VOC control for each CTG/HRSG unit, good combustion practices.	3	PPM	HOURLY; EXCEPT DURING STARTUP/SHUTDOWN
PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	4/29/2021	COMBUSTION TURBINE w DUCT BURNER #2 (Natural Gas)	4546	MMBtu/Hr	SCR, CATALYTIC OXIDIZER	1.6	PPMVD	@ 15% O2 / 1 HR
PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	4/29/2021	COMBUSTION TURBINE w DUCT BURNER #1 (Natural Gas)	4546	MMBtu/Hr	SCR, Catalytic Oxidizer	1.6	PPMVD	@ 15% O2 / 1 HR
PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	4/29/2021	COMBUSTION TURBINE #2 (ULSD)	3940	MMBtu/Hr	selective catalytic reduction (SCR) system, oxidation catalyst.	2	PPMVD	@ 15% O2 / 1 HR
PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	4/29/2021	COMBUSTION TURBINE #1 (ULSD)	3940	MMBtu/Hr	SCR, Catalytic Oxidizer	2	PPMVD	@ 15% O2 / 1 HR
*WV-0033	MAIDSVILLE	1/5/2022	Combustion Turbine & Duct Burner (CT-01/HRSG1 & CT-02/HRSG2)	1275	mw	good combustion practices and oxidation catalyst	1	PPMDV @ 15% O2	AVG OF 3 1-HR TEST RUNS (W/O DUCT FIRING
*WV-0033	MAIDSVILLE	1/5/2022	Combustion Turbine & Duct Burner (CT-01/HRSG1 & CT-02/HRSG2)	1275	mw	good combustion practices and oxidation catalyst	1	PPMDV @ 15% O2	AVG OF 3 1-HR TEST RUNS (W/O DUCT FIRING
LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	6/3/2022	Combined Cycle Gas Turbine w/ Duct Burners and HRSG	5081	mm BTU/h	Catalytic oxidation and good combustion practices.	1	PPMVD	3 1-HR TEST AVERAGE
LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	6/3/2022	Combined Cycle Gas Turbine Startup and Shutdown	5081	mm BTU/h	Good combustion practices.	520	LB/HR	
MI-0451	MEC NORTH, LLC	6/23/2022	EUCTGHRSG (North Plant): A combined cycle natural gas fired combustion turbine generator with heat recovery steam generator	3064	MMBTU/H	Oxidation catalyst technology and good combustion practices.	2	PPM	HOURLY
MI-0452	MEC SOUTH, LLC	6/23/2022	EUCTGHRSG (South Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	3064	MMBTU/H	Oxidation Catalyst Technology and Good Combustion Practices	2	PPM	HOURLY
AK-0088	LIQUEFACTION PLANT	7/7/2022	Four Combined Cycle Gas-Fired Turbines	384	MMBtu/hr	Oxidation catalyst and good combustion practices	2	PPMV @ 15% O2	3-HOURS
AK-0088	LIQUEFACTION PLANT	7/7/2022	Six Simle Cycle Gas-Fired Turbines	1113	MMBtu/hr	Oxidation catalyst and good combustion practices	2	PPMV @ 15% O2	3-HOURS
IL-0133	LINCOLN LAND ENERGY CENTER	7/29/2022	Combined-Cycle Combustion Turbines	3647	mmBtu/hour	Oxidation catalyst and good combustion practices.	1	PPMV, ADJ. TO 15% O2	ROLLING 3-OPERATING HOUR
TX-0878	LNG EXPORT TERMINAL	9/15/2022	Refrigeration Compression Turbines	26.92	MMTON/Y	good combustion practices.	2	PPM	3-HR AVG

RBLC Entries for VOC from Combined Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
MI-0454	LBWL-ERICKSON STATION	12/20/2022	EUCTGHRSG1	667	MMBTU/H	An oxidation catalyst for VOC control for each CTG/HRSG unit, good combustion practices.	3	PPM	PPMVD AT 15%O2; HOURLY EXC SU/SD
MI-0454	LBWL-ERICKSON STATION	12/20/2022	EUCTGHRSG2	667	MMBTU/H	An oxidation catalyst for VOC control for each CTG/HRSG unit, good combustion practices.	3	PPM	PPMVD AT 15%O2; HOURLY EXC SU/SD. CC MOD
MI-0455	MIDLAND COGENERATION VENTURE LIMITED PARTNERSHIP	2/1/2023	EUCTGHRSG1	4197.6	MMBTU/H	Oxidation catalyst	2.4	PPM	PPMVD AT 15%O2; HOURLY EXC SU/SD
*IN-0365	MAPLE CREEK ENERGY LLC	6/19/2023	Combined Cycle Turbine CTGB	4200	MMBtu per hour	catalytic oxidation	0.0013	POUNDS PER MMBTU	
*IN-0365	MAPLE CREEK ENERGY LLC	6/19/2023	Combined Cycle Turbine CTGA	3800	MMBtu per hour	Oxidation catalyst	0.0015	POUNDS PER MMBTU	
*IN-0365	MAPLE CREEK ENERGY LLC	6/19/2023	Combined Cycle Turbine CTGB SU/SD	0			18.8	TONS PER YEAR	FOR DURATION OF COMBINED SU/SD EVENTS
*IN-0365	MAPLE CREEK ENERGY LLC	6/19/2023	Combined Cycle Turbine CTGA SU/SD	3800	MMBtu per hour		29.3	TONS PER YEAR	FOR DURATION OF COMBINED SU/SD EVENTS
*WI-0326	NEMADJI TRAIL ENERGY CENTER	9/19/2023	Combustion Turbine; S01/P01/C01a (SCR)/C01b (oxidation catalyst)	4671	MMBtu/hr	Except during start-up and shutdown, BACT has been determined to be: (a) An oxidation catalyst shall be used to control emissions from P01 while P01 is in operation. (b) The permittee shall use good combustion control according to the manufacturerâ€™s recommendations.	2.7	PPM	168-HOUR ROLLING, NATURAL GAS W/ DUCT
*LA-0412	ENTERGY LOUISIANA, LLC - FRANKLIN FARMS POWER STATION	12/23/2025	Gas Turbines	4985.3	mm BTU/h	Oxidation catalyst and energy efficiency/waste heat recovery.	1.5	PPM	

RBLC Entries for GHG from Simple Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
PA-0306	TENASKA PA PARTNERS/WESTMORELAND GEN FAC	2/12/2016	Large combustion turbine	0		Good combustion practices	1881905	TPY	
TX-0790	PORT ARTHUR LNG EXPORT TERMINAL	2/17/2016	Refrigeration Compression Turbines	10	M TONNES/YR	Equipment specifications & work practices - Good combustion practices and use of low carbon fuel	504517	T/YR	
TX-0788	NECHES STATION	3/24/2016	Large Combustion Turbines > 25 MW	232	MW	good combustion practiceS	1341	LB/MW H	
TX-0788	NECHES STATION	3/24/2016	Combined Cycle & Cogeneration	231	MW	GOOD COMBUSTION PRACTICES	924	LB/MWH	
TN-0162	JOHNSONVILLE COGENERATION	4/19/2016	Natural Gas-Fired Combustion Turbine with HRSG	1339	MMBtu/hr	Good combustion design and practices	1800	LB/MWH	12-MONTH MOVING AVERAGE
VA-0325	GREENSVILLE POWER STATION	6/17/2016	COMBUSTION TURBINE GENERATOR WITH DUCT-FIRED HEAT RECOVERY STEAM GENERATORS (3)	3227	MMBTU/HR		890	LB/MWH	NET OUTPUT AFTER 30 YEARS OF OPERATION
NJ-0085	MIDDLESEX ENERGY CENTER, LLC	7/19/2016	Combined Cycle Combustion Turbine firing Natural Gas with Duct Burner	4000	h/yr	USE OS NATURAL GAS A CLEAN BURNING FUEL	888	LB/MW-H	BASED ON CONSECUTIVE 12 MONTH ROLLING
NJ-0085	MIDDLESEX ENERGY CENTER, LLC	7/19/2016	Combined Cycle Combustion Turbine firing Natural Gas without Duct Burner	8040	H/YR	USE OF NATURAL GAS A CLEAN BURNING FUEL	888	LB/MW-H	BASED ON CONSECUTIVE 12 MONTH ROLLING
NJ-0085	MIDDLESEX ENERGY CENTER, LLC	7/19/2016	COMBINED CYCLE COMBUSTION TURBINE FIRING ULTRA LOW SULFUR DISTILLATE OIL	720	H/YR	use of ULSD a low sulfur fuel	888	LB/MW-H	BASED ON CONSECUTIVE 12 MONTH ROLLING
PA-0310	CPV FAIRVIEW ENERGY CENTER	9/2/2016	Combustion turbine and HRSG with duct burner NG only	3338	MMBtu/hr	low sulfur fuel and good combustion practices	3352086	TONS	12-MONTH ROLLING BASIS
OH-0367	SOUTH FIELD ENERGY LLC	9/23/2016	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	3131	MMBTU/H	High efficient combustion technology	481301	LB/H	NAT GAS, WITH DUCT BURNER. SEE NOTES.
MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	12/5/2016	FGCTGHRSG (2 Combined cycle CTGs with HRSGs; EUCTGHRSG10 & EUCTGHRSG11)	554	MMBTU/H, each	Energy efficiency measures and the use of a low carbon fuel (pipeline quality natural gas).	312321	T/YR	12-MO. ROLLING TIME PERIOD; EACH EU.
MI-0423	INDECK NILES, LLC	1/4/2017	FGCTGHRSG (2 Combined Cycle CTGs with HRSGs)	8322	MMBTU/H	Energy efficiency measures and the use of a low carbon fuel (pipeline quality natural gas).	2097001	T/YR	12-MONTH ROLLING TIME PERIOD
*PA-0315	HILLTOP ENERGY CENTER, LLC	4/12/2017	Combustion Turbine without Duct Burner	3509	MMBtu/hr		879	LB	MWH (GROSS)
TX-0819	GAINES COUNTY POWER PLANT	4/28/2017	Combined Cycle Turbine with Heat Recovery Steam Generator, fired Duct Burners, and Steam Turbine Generator	426	MW	Pipeline quality natural gas	960	LB / MW H	
OH-0370	TRUMBULL ENERGY CENTER	9/7/2017	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	3025	MMBTU/H	High efficient combustion technology	833	LB/MW-H	SEE NOTES.
OH-0372	OREGON ENERGY CENTER	9/27/2017	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	3055	MMBTU/H	high efficiency combustion design	401921	LB/H	SEE NOTES.
OH-0374	GUERNSEY POWER STATION LLC	10/23/2017	Combined Cycle Combustion Turbines (3, identical) (P001 to P003)	3516	MMBTU/H	high efficiency combustion practices as recommended by the manufacturer	846	LB/MW-H	WITHOUT DUCT BURNER. SEE NOTES.
OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	11/7/2017	General Electric Combustion Turbine (P004)	3544	MMBTU/H	high efficiency combustion practices as recommended by the manufacturer	775	LB/MW-H	SEE NOTES.
OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	11/7/2017	Mitsubishi Combustion Turbine (P005)	3320	MMBTU/H	high efficiency combustion practices as recommended by the manufacturer	1000	LB/MW-H	WITH DUCT BURNER. SEE NOTES.
OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	11/7/2017	Siemens Combustion Turbine (P006)	3602	MMBTU/H	high efficiency combustion practices as recommended by the manufacturer	1000	LB/MW-H	WITH DUCT BURNER. SEE NOTES.
*WV-0029	HARRISON COUNTY POWER PLANT	3/27/2018	GE 7HA.02 Turbine	3496.2	mmBtu/hr	Use of Natural Gas, Model GE7HA	528543	LB/HR	
TX-0834	MONTGOMERY COUNTY POWER STATIOIN	3/30/2018	Combined Cycle Turbine	2635	MMBTU/HR/UNIT	PIPELINE QUALITY NATURAL GAS, GOOD COMBUSTION PRACTICES	884	LB/MWH	
TX-0834	MONTGOMERY COUNTY POWER STATIOIN	3/30/2018	COMBINED CYCLE TURBINE MSS REDUCED LOAD	0		minimizing duration of startup / shutdown events, engaging the pollution control equipment as soon as practicable (based on vendor recommendations and guarantees), and meeting the emissions limits on the MAERT	223	TON/H	
OH-0377	HARRISON POWER	4/19/2018	General Electric (GE) Combustion Turbines (P005 & P006)	3459.6	MMBTU/H	High efficient combustion technology	1000	LB/MW-H	WITH DUCT BURNER. SEE NOTES.
OH-0377	HARRISON POWER	4/19/2018	Mitsubishi Hitachi Power Systems (MHPS) Combustion Turbines (P007 & P008)	3231	MMBTU/H	High efficient combustion technology	1000	LB/MW-H	WITH DUCT BURNER. SEE NOTES.
VA-0328	C4GT, LLC	4/26/2018	GE Combustion Turbine - Option 1 - Normal Operation	34000	MMCF/YR	Energy efficient combustion practices and low GHG fuels	883	LB CO2E/MW-H	12 MO ROLLING TOTAL

RBLC Entries for GHG from Simple Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
VA-0328	C4GT, LLC	4/26/2018	Siemens Combusion Turbine - Option 2 - Normal Operation	35000	MMCF/YR	Energy efficient combustion practices and low GHG fuels	883	LB CO2E/MW H	12 MO ROLLING TOTAL
MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUCTGHRSG (South Plant): A combined cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	500	MW	Energy efficiency measures and the use of a low carbon fuel (pipeline quality natural gas).	1978297	T/YR	12-MO ROLLING TIME PERIOD
MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUCTGHRSG (North Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	500	MW	Energy efficiency measures and the use of a low carbon fuel (pipeline quality natural gas).	1978297	T/YR	12-MO ROLL TIME PERIOD
MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	7/16/2018	FGCTGHRSG (EUCTGHRSG1 & EUCTGHRSG2)	0		Energy efficiency measures	2042773	T/YR	12-MO ROLLING TIME PERIOD; EACH UNIT
IL-0129	CPV THREE RIVERS ENERGY CENTER	7/30/2018	Combined Cycle Combustion Turbines	3474	mmBtu/hr	Equipment design and proper operation	0		
MI-0432	NEW COVERT GENERATING FACILITY	7/30/2018	FG-TURB/DB1-3 (3 combined cycle combustion turbine and heat recovery steam generator trains)	1230	MW	Several energy efficiency measures and the use of natural gas.	1425081	T/YR	EACH CT/HRSG TRAIN; 12-MO. ROLL TIME PER
*WV-0032	BROOKE COUNTY POWER PLANT	9/18/2018	GE 7HA.01 Turbine	2737.7	mmBtu/hr	Use of Natural Gas, Model GE7HA	417382	LB/HR	
LA-0331	CALCASIEU PASS LNG PROJECT	9/21/2018	Combined Cycle Combustion Turbines (CCCT1 to CCCT5)	921	MM BTU/h	Combust low carbon fuel gas and good combustion practices	2602275	T/YR	ANNUAL TOTAL
LA-0331	CALCASIEU PASS LNG PROJECT	9/21/2018	Aeroderivative Simple Cycle Combustion Turbine	263	MM BTU/h	Combust low carbon fuel gas, good combustion practices, good operation and maintenance practices and insulation.	134907	T/YR	ANNUAL TOTAL
MI-0441	LBWL--ERICKSON STATION	12/21/2018	EUCTGHRSG2--A 667 MMBTU/H natural gas fired CTG with a HRSG.	667	MMBTU/H	low carbon fuel (pipeline quality natural gas), good combustion practices and energy efficiency measures.	430349	T/YR	12-MO ROLLING TIME PERIOD
MI-0441	LBWL--ERICKSON STATION	12/21/2018	EUCTGHRSG2--A 667 MMBTU/H natural gas fired CTG with a HRSG.	667	MMBTU/H	low carbon fuel (pipeline quality natural gas), good combustion practices and energy efficiency measures.	1000	LB/MW-H	GROSS ENERGY OUTPUT; 12-OPERATING MO AVG
MI-0441	LBWL--ERICKSON STATION	12/21/2018	EUCTGHRSG1--A 667 MMBTU/H NG fired combustion turbine generator coupled with a heat recovery steam generator (HRSG)	667	MMBTU/H	Low carbon fuel (pipeline quality natural gas), good combustion practices and energy efficiency measures.	430349	T/YR	12-MO ROLLING TIME PERIOD
MI-0441	LBWL--ERICKSON STATION	12/21/2018	EUCTGHRSG1--A 667 MMBTU/H NG fired combustion turbine generator coupled with a heat recovery steam generator (HRSG)	667	MMBTU/H	Low carbon fuel (pipeline quality natural gas), good combustion practices and energy efficiency measures.	1000	LB/MW-H	12-OPERATING MO. AVG; SEE NOTES
IL-0130	JACKSON ENERGY CENTER	12/31/2018	Combined-Cycle Combustion Turbine	3864	mmBtu/hr	Equipment design and proper operation	4733910	TONS/YEAR	12-MONTH ROLLING AVERAGE
MI-0439	JACKSON GENERATING STATION	4/2/2019	FGLMDB1-6 (6 combined cycle natural gas fired CTG each equipped with a HRSG)	420	MW	Use of low carbon fuel (natural gas), good combustion practices, and energy efficiency measures.	1000257	T/YR	12-MONTH ROLLING TIME PERIOD
VA-0332	CHICKAHOMINY POWER LLC	6/24/2019	Three (3) Mitsubishi Hitachi Power Systems combustion turbine generators	35000	MMCF/YR	Energy efficient combustion practices and low GHG fuels	812	LB/CO2E/MW-H	12 MO ROLLING TOTAL
LA-0364	FG LA COMPLEX	1/6/2020	Cogeneration Units	2222	mm btu/h	Use of natural gas as fuel, energy-efficient design options, and operational/maintenance practices.	1096666	TONS/YR	
WI-0306	WPL- RIVERSIDE ENERGY CENTER	2/28/2020	Natural Gas Fired Combustion Turbine (P20, P21) Phase I Commissioning	2208	MMBTU/H		118	LB CO2/MMBTU	HEAT INPUT
AK-0085	GAS TREATMENT PLANT	8/13/2020	Six (6) Cogeneration Gas-Fired Turbines (Treated Gas Compressor Turbines)	576	MMBtu/hr	Good combustion practices and clean burning fuel (NG)	117.1	LB/MMBTU	3-HOUR AVERAGE
AK-0085	GAS TREATMENT PLANT	8/13/2020	Six (6) Cogeneration Gas-Fired Turbines (CO2 Compressor Turbines))	431	MMBtu/hr	Good combustion practices and clean burning fuel (NG)	117.1	LB/MMBTU	3-HOUR AVERAGE
AK-0085	GAS TREATMENT PLANT	8/13/2020	Six (6) Simple Cycle Gas-Turbines (Power Generation)	386	MMBtu/hr	Good combustion practices and clean burning fuel (NG)	117.1	LB/MMBTU	3-HOUR AVERAGE
WI-0300	NEMADJI TRAIL ENERGY CENTER	9/1/2020	Natural-Gas-Fired Combined-Cycle Turbine (P01)	4671	MMBTU/H	Efficient turbine design, only combust pipeline quality natural gas and diesel fuel oil, Oxidation Catalyst	850	LB CO2/MW-H	12-MO ROLLING AVG., NATURAL GAS
WI-0300	NEMADJI TRAIL ENERGY CENTER	9/1/2020	Natural Gas-Fired Combined-Cycle Turbine (P01) Start-up and Shutdown (Natural Gas)	0			939573	LB/START-UP	
WI-0300	NEMADJI TRAIL ENERGY CENTER	9/1/2020	Natural-Gas-Fired Combined-Cycle Turbine (P01) Start-Up and Shutdown (diesel)	0			1639929	LB/START-UP	
MI-0447	LBWL--ERICKSON STATION	1/7/2021	EUCTGHRSG1	667	MMBTU/H	Low carbon fuel (pipeline quality natural gas), good combustion practices, and energy efficiency measures.	430349	T/YR	12-MO ROLLING TIME PERIOD
MI-0447	LBWL--ERICKSON STATION	1/7/2021	EUCTGHRSG2	667	MMBTU/H	Low carbon fuel (pipeline quality natural gas), good combustion practices, and energy efficiency measures.	430349	T/YR	12-MO ROLLING TIME PERIOD
FL-0371	SHADY HILLS COMBINED CYCLE FACILITY	6/7/2021	GE 7HA.02 Combustion Turbine and HRSG with Duct Firing	3622.1	MMBtu/hour	Low-emitting fuel	875	LB/MWH	12-MO ROLLING (PRIMARY BACT)

RBLC Entries for GHG from Simple Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
*WV-0033	MAIDSVILLE	1/5/2022	Combustion Turbine & Duct Burner (CT-01/HRSG1 & CT-02/HRSG2)	1275	mw	Thermal efficiency/combustion air cooling and use of lower carbon fuels.	852	LB/MWH GROSS	12 MONTH ROLLING AVG
*WV-0033	MAIDSVILLE	1/5/2022	Combustion Turbine & Duct Burner (CT-01/HRSG1 & CT-02/HRSG2)	1275	mw	Thermal efficiency/combustion air cooling and use of lower carbon fuels	852	LB/MWH GROSS	12 MONTH ROLLING AVG
LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	6/3/2022	Combined Cycle Gas Turbine w/ Duct Burners and HRSG	5081	mm BTU/h	Use of gaseous fuel (pipeline-quality natural gas), thermally efficient turbines, and good combustion practices.	875	LB/MW-H	ANNUAL AVERAGE
LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	6/3/2022	Combined Cycle Gas Turbine Startup and Shutdown	5081	mm BTU/h	Good combustion practices.	2528349	T/YR	
MI-0451	MEC NORTH, LLC	6/23/2022	EUCTGHRSG (North Plant): A combined cycle natural gas fired combustion turbine generator with heat recovery steam generator	3064	MMBTU/H	Energy efficiency measures and the use of a low carbon fuel (pipeline quality natural gas)	2001019	T/YR	12-MO ROLLING TIME PERIOD
MI-0452	MEC SOUTH, LLC	6/23/2022	EUCTGHRSG (South Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	3064	MMBTU/H	Energy Efficiency Measures and the use of a low carbon fuel (pipeline quality natural gas)	2001019	T/YR	12-MO ROLLING TIME PERIOD
AK-0088	LIQUEFACTION PLANT	7/7/2022	Four Combined Cycle Gas-Fired Turbines	384	MMBtu/hr	Good combustion practices and burning clean fuels (natural gas)	117.1	LB/MMBTU	3-HOURS
AK-0088	LIQUEFACTION PLANT	7/7/2022	Six Simle Cycle Gas-Fired Turbines	1113	MMBtu/hr	Good combustion practices and burning clean fuels (natural gas)	117.1	LB/MMBTU	3-HOURS
IL-0133	LINCOLN LAND ENERGY CENTER	7/29/2022	Combined-Cycle Combustion Turbines	3647	mmBtu/hour	Inherently lower-polluting design, good combustion practices and operational energy efficiency	850	LB/MW-HR (GROSS)	12 CONSECUTIVE OPERATING MONTHS
TX-0878	LNG EXPORT TERMINAL	9/15/2022	Refrigeration Compression Turbines	26.92	MMTON/Y	Equipment specifications & work practices - Good combustion practices and use of low carbon fuel	504000	TON/Y	
MI-0454	LBWL-ERICKSON STATION	12/20/2022	EUCTGHRSG1	667	MMBTU/H	low carbon fuel (pipeline quality natural gas), good combustion practices, and energy efficiency measures.	430349	T/YR	12-MO ROLLING TIME PERIOD; DUR. ALL MODE
MI-0454	LBWL-ERICKSON STATION	12/20/2022	EUCTGHRSG2	667	MMBTU/H	Low carbon fuel (pipeline quality natural gas), good combustion practices, and energy efficiency measures.	430349	T/YR	12-MO ROLLING TIME PERIOD
MI-0454	LBWL-ERICKSON STATION	12/20/2022	EUCTGHRSG2	667	MMBTU/H	Low carbon fuel (pipeline quality natural gas), good combustion practices, and energy efficiency measures.	1000	LB/MWH	12-OPERATING MO. ROLL.AVG DUR. ALL MODES
MI-0455	MIDLAND COGENERATION VENTURE LIMITED PARTNERSHIP	2/1/2023	EUCTGHRSG1	4197.6	MMBTU/H	Low carbon fuel, good combustion practices, energy efficiency measures.	2375313	T/YR	12-MO ROLLING TIME PERIOD
*IN-0365	MAPLE CREEK ENERGY LLC	6/19/2023	Combined Cycle Turbine CTGB	4200	MMBtu per hour		826	LB/MW-HR (GROSS)	CORRECTED TO ISO CONDITIONS
*IN-0365	MAPLE CREEK ENERGY LLC	6/19/2023	Combined Cycle Turbine CTGA	3800	MMBtu per hour		726	LB/MW-HR (GROSS)	CORRECTED TO ISO CONDITIONS
*WI-0326	NEMADJI TRAIL ENERGY CENTER	9/19/2023	Combustion Turbine; S01/P01/C01a (SCR)/C01b (oxidation catalyst)	4671	MMBtu/hr	(a) Efficient turbine design. (b) Only pipeline quality natural gas and diesel fuel oil may be combusted in P01. (c) An oxidation catalyst shall be used to control emissions from P01 while P01 is in operation. (d) The combustion turbine is to be equipped with oxygen monitors as part of a continuous emissions monitoring (CEM) system.	850	LB CO2/MW-HR	12-MONTH ROLLING, FIRING NATURAL GAS
IN-0371	WABASH VALLEY RESOURCES, LLC	1/11/2024	Integrated Gasification Combined Cycle Combustion Turbine	2292	MMBtu/hr	Good Combustion Practices	110	LB/MMBTU	
*LA-0412	ENTERGY LOUISIANA, LLC - FRANKLIN FARMS POWER STATION	12/23/2025	Gas Turbines	4985.3	mm BTU/h	Good combustion practices, proper O&M practices, use of natural gas, energy efficiency and waste heat recovery.	2596711	T/YR	

RBLC Entries for NH3 from Combined Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
NJ-0085	MIDDLESEX ENERGY CENTER, LLC	7/19/2016	Combined Cycle Combustion Turbine firing Natural Gas with Duct Burner	4000	h/yr	USE OF NATURAL GAS A CLEAN BURNING FUEL	27.4	LB/H	AV OF THREE ONE H STACK TESTS INITIALLY
NJ-0085	MIDDLESEX ENERGY CENTER, LLC	7/19/2016	Combined Cycle Combustion Turbine firing Natural Gas without Duct Burner	8040	H/YR	USE OF NATURAL GAS A CLEAN BURNING FUEL	5	PPMVD@15%O2	3 H ROLLING AV BASED ON ONE H BLOCK AV
NJ-0085	MIDDLESEX ENERGY CENTER, LLC	7/19/2016	COMBINED CYCLE COMBUSTION TURBINE FIRING ULTRA LOW SULFUR DISTILLATE OIL	720	H/YR	USE OF ULSD OIL A CLEAN BURNING FUEL	25.9	LB/H	3 H ROLLING AV BASED ON ONE H BLOCK AV
*PA-0319	RENAISSANCE ENERGY CENTER	8/27/2018	COMBUSTION TURBINE UNIT w/o DUCT BURNERS UNIT	2665.9	MMBtu/hr		5	PPMDV	
PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	4/29/2021	COMBUSTION TURBINE #2 (ULSD)	3940	MMBtu/Hr	selective catalytic reduction (SCR) system, oxidation catalyst.	5	PPMVD	@ 15% O2 / 1 HR
PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	4/29/2021	COMBUSTION TURBINE #1 (ULSD)	3940	MMBtu/Hr	SCR, Catalytic Oxidizer	5	PPMVD	@ 15% O2 / 1 HR
PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	4/29/2021	COMBUSTION TURBINE w DUCT BURNER #2 (Natural Gas)	4546	MMBtu/Hr	SCR, oxidation catalyst	5	PPMVD	@ 15% O2 / 1 HR
PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	4/29/2021	COMBUSTION TURBINE w DUCT BURNER #1 (Natural Gas)	4546	MMBtu/Hr	SCR, Catalytic Oxidizer	5	PPMVD	@ 15% O2 / 1 HR
*IN-0365	MAPLE CREEK ENERGY LLC	6/19/2023	Combined Cycle Turbine CTGB	4200	MMBtu per hour		5	PPMVD	
*IN-0365	MAPLE CREEK ENERGY LLC	6/19/2023	Combined Cycle Turbine CTGA	3800	MMBtu per hour		5	PPMVDC	

RBLC Entries for H2SO4 from Combined Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
PA-0306	TENASKA PA PARTNERS/WESTMORELAND GEN FAC	2/12/2016	Large combustion turbine	0		Low sulfur fuel and good combustion practices	0.0006	LB/MMBTU	HHV
TX-0789	DECORDOVA STEAM ELECTRIC STATION	3/8/2016	Combined Cycle & Cogeneration	231	MW	GOOD COMBUSTION PRACTICES AND LOW SULFUR FUEL	5	GR/100 SCF	HOURLY
TX-0788	NECHES STATION	3/24/2016	Large Combustion Turbines > 25 MW	232	MW	good combustion practices, low sulfur fuel	1	GR/100 SCF	HOURLY
TX-0788	NECHES STATION	3/24/2016	Combined Cycle & Cogeneration	231	MW	GOOD COMBUSTION PRACTICES AND LOW SULFUR FUEL	1	GR/100 SCF	HOURLY
VA-0325	GREENSVILLE POWER STATION	6/17/2016	COMBUSTION TURBINE GENERATOR WITH DUCT-FIRED HEAT RECOVERY STEAM GENERATORS (3)	3227	MMBTU/HR	Low Sulfur fuel	0.0006	LB/MMBTU	
NJ-0085	MIDDLESEX ENERGY CENTER, LLC	7/19/2016	Combined Cycle Combustion Turbine firing Natural Gas with Duct Burner	4000	h/yr	USE OF NATURAL GAS A LOW SULFUR FUEL	4.26	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR
NJ-0085	MIDDLESEX ENERGY CENTER, LLC	7/19/2016	Combined Cycle Combustion Turbine firing Natural Gas without Duct Burner	8040	H/YR	USE OF NATURAL GAS A CLEAN BURNING FUEL	3.61	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR
NJ-0085	MIDDLESEX ENERGY CENTER, LLC	7/19/2016	COMBINED CYCLE COMBUSTION TURBINE FIRING ULTRA LOW SULFUR DISTILLATE OIL	720	H/YR	use of ULSD a low sulfur fuel	4.27	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR
PA-0310	CPV FAIRVIEW ENERGY CENTER	9/2/2016	Combustion turbine and HRSG with duct burner NG only	3338	MMBtu/hr	ULSD fuel (CCCT only - duct burner is not fired with ULSD), good combustion practices	0.0014	LB/MMBTU	
PA-0310	CPV FAIRVIEW ENERGY CENTER	9/2/2016	Combustion turbine and HRSG without duct burner NG only	0		Low sulfur fuels and good combustion practices	0.0014	LB/MMBTU	
PA-0310	CPV FAIRVIEW ENERGY CENTER	9/2/2016	Combustion turbine and HRSG without duct burner ULSD	0		Water/steam injection, ULSD fuel (CCCT only - duct burner is not fired with ULSD), good combustion practices	0.0013	LB/MMBTU	
PA-0310	CPV FAIRVIEW ENERGY CENTER	9/2/2016	Combustion turbine and HRSG with duct burner - firing NG blend with ethane	0			0		
PA-0310	CPV FAIRVIEW ENERGY CENTER	9/2/2016	Combustion turbine and HRSG without duct burner - firing NG blend with ethane	0			0		
OH-0367	SOUTH FIELD ENERGY LLC	9/23/2016	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	3131	MMBTU/H	Low sulfur fuels	6.96	LB/H	WITH DUCT BURNER. SEE NOTES.
MI-0423	INDECK NILES, LLC	1/4/2017	FGCTGHRSG (2 Combined Cycle CTGs with HRSGs)	8322	MMBTU/H	Good Combustion Practices and the use of pipeline quality natural gas.	4.6	LB/H	TEST PROTOCOL WILL SPECIFY AVG TIME
*PA-0315	HILLTOP ENERGY CENTER, LLC	4/12/2017	Combustion Turbine without Duct Burner	3509	MMBtu/hr		0.0011	LB	MMBTU
OH-0370	TRUMBULL ENERGY CENTER	9/7/2017	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	3025	MMBTU/H	Low sulfur fuel	3.7	LB/H	WITH DUCT BURNER. SEE NOTES.
OH-0372	OREGON ENERGY CENTER	9/27/2017	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	3055	MMBTU/H	Low sulfur fuel	3.7	LB/H	WITH DUCT BURNER. SEE NOTES.
OH-0374	GUERNSEY POWER STATION LLC	10/23/2017	Combined Cycle Combustion Turbines (3, identical) (P001 to P003)	3516	MMBTU/H	pipeline quality natural gas with a maximum sulfur content not exceed 0.50 grain/100 scf	0.0011	LB/MMBTU	SEE NOTES.
OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	11/7/2017	General Electric Combustion Turbine (P004)	3544	MMBTU/H	natural gas or a natural gas and ethane mixture only	0.0011	LB/MMBTU	
OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	11/7/2017	Mitsubishi Combustion Turbine (P005)	3320	MMBTU/H	natural gas or a natural gas and ethane mixture only	0.0009	LB/MMBTU	
OH-0375	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	11/7/2017	Siemens Combustion Turbine (P006)	3602	MMBTU/H	natural gas or a natural gas and ethane mixture only	5.2	X10-4 LB/MMBTU	WITH DUCT BURNER. SEE NOTES.
*WV-0029	HARRISON COUNTY POWER PLANT	3/27/2018	GE 7HA.02 Turbine	3496.2	mmBtu/hr	Use of Natural Gas	3.8	LB/HR	
TX-0834	MONTGOMERY COUNTY POWER STATIOIN	3/30/2018	Combined Cycle Turbine	2635	MMBTU/HR/UNIT	PIPELINE QUALITY NATURAL GAS	1	GR/100 DSCF	
OH-0377	HARRISON POWER	4/19/2018	General Electric (GE) Combustion Turbines (P005 & P006)	3459.6	MMBTU/H	Good combustion practices and pipeline quality natural gas	0.001	LB/MMBTU	WITH DUCT BURNER. SEE NOTES.
OH-0377	HARRISON POWER	4/19/2018	Mitsubishi Hitachi Power Systems (MHPS) Combustion Turbines (P007 & P008)	3231	MMBTU/H	Good combustion practices and pipeline quality natural gas	0.0022	LB/MMBTU	
VA-0328	C4GT, LLC	4/26/2018	GE Combustion Turbine - Option 1 - Normal Operation	34000	MMCF/YR	use of natural gas with a sulfur content of no more than 0.4 gr/100scf, 12-mo rolling av	2.5	LB/H	3 H AV/WITHOUT DUCT BURNING
VA-0328	C4GT, LLC	4/26/2018	Siemens Combusion Turbine - Option 2 - Normal Operation	35000	MMCF/YR	use of natural gas with a sulfur content of no more than 0.4 gr/100scf, 12 mo rolling av.	2.2	LB/H	3 H AV/WITHOUT DB
MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUCTGHRSG (South Plant): A combined cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	500	MW	Good combustion practices and the use of pipeline quality natural gas.	2.7	LB/H	HOURLY

RBLC Entries for H2SO4 from Combined Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUCTGHRSG (North Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	500	MW	Good combustion practices and the use of pipeline quality natural gas.	2.7	LB/H	HOURLY
MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	7/16/2018	FGCTGHRSG (EUCTGHRSG1 & EUCTGHRSG2)	0		Good combustion practices and the use of pipeline quality natural gas.	0.0013	LB/MMBTU	HOURLY; EACH UNIT
IL-0129	CPV THREE RIVERS ENERGY CENTER	7/30/2018	Combined Cycle Combustion Turbines	3474	mmBtu/hr	No controls feasible for use of natural gas. For ULSD, use ultra-low sulfur diesel as a backup fuel	0		
MI-0432	NEW COVERT GENERATING FACILITY	7/30/2018	FG-TURB/DB1-3 (3 combined cycle combustion turbine and heat recovery steam generator trains)	1230	MW	Use of clean fuel (natural gas) with a fuel sulfur limit of 0.8 grains per 100 standard cubic feet of natural gas.	1	LB/H	HOURLY; EACH CT/HRSG TRAIN
*PA-0319	RENAISSANCE ENERGY CENTER	8/27/2018	COMBUSTION TURBINE UNIT w/o DUCT BURNERS UNIT	2665.9	MMBtu/hr		5.98	TPY	
*WV-0032	BROOKE COUNTY POWER PLANT	9/18/2018	GE 7HA.01 Turbine	2737.7	mmBtu/hr	Use of Natural Gas	2.6	LB/HR	
IL-0130	JACKSON ENERGY CENTER	12/31/2018	Combined-Cycle Combustion Turbine	3864	mmBtu/hr		5	POUNDS/HOUR	3-HR BLOCK AVG
VA-0332	CHICKAHOMINY POWER LLC	6/24/2019	Three (3) Mitsubishi Hitachi Power Systems combustion turbine generators	35000	MMCF/YR	Controlled by the use of pipeline-quality natural gas with a maximum sulfur content of 0.4 grains per 100 standard cubic feet (scf), on a 12-month rolling average.	0.0012	LB/MMBTU	3 HR AVG
NJ-0088	COGEN TECH LINDEN VENTURE LP	7/30/2019	250 MW COMBINED CYCLE COMBUSTION TURBINE FIRING NATURAL GAS	21042	MMCubic ft/yr	Use of clean burning fuels Natural gas	3.45	LB/H	
NJ-0088	COGEN TECH LINDEN VENTURE LP	7/30/2019	250 MW COMBINED CYCLE COMBUSTION TURBINE FIRING ULTRA LOW SULFUR DISTILLATE OIL (ULSD)	14.78	MMGAL/YR	USE OF NATURAL GAS AND ULSD; BOTH CLEAN BURNING FUELS	4.8	LB/H	
WI-0300	NEMADJI TRAIL ENERGY CENTER	9/1/2020	Natural-Gas-Fired Combined-Cycle Turbine (P01)	4671	MMBTU/H	Only use pipeline quality natural gas and diesel fuel and use good combustion control.	9.9	LB/H	NATURAL GAS, DUCT FIRING
WI-0300	NEMADJI TRAIL ENERGY CENTER	9/1/2020	Natural Gas-Fired Combined-Cycle Turbine (P01) Start-up and Shutdown (Natural Gas)	0			15.6	LB/START-UP	
WI-0300	NEMADJI TRAIL ENERGY CENTER	9/1/2020	Natural-Gas-Fired Combined-Cycle Turbine (P01) Start-Up and Shutdown (diesel)	0			14	LB/START-UP	
PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	4/29/2021	COMBUSTION TURBINE #2 (ULSD)	3940	MMBtu/Hr		0.0012	LB/MMBTU	
PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	4/29/2021	COMBUSTION TURBINE #1 (ULSD)	3940	MMBtu/Hr	SCR, Catalytic Oxidizer	0.0012	LB/MMBTU	
PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	4/29/2021	COMBUSTION TURBINE w DUCT BURNER #2 (Natural Gas)	4546	MMBtu/Hr	SCR, CATALYTIC OXIDIZER	0.0009	LB/MMBTU	
PA-0334	RENOVO ENERGY CENTER LLC/RENOVO PLT	4/29/2021	COMBUSTION TURBINE w DUCT BURNER #1 (Natural Gas)	4546	MMBtu/Hr	SCR, Catalytic Oxidizer	0.0009	LB/MMBTU	
FL-0371	SHADY HILLS COMBINED CYCLE FACILITY	6/7/2021	GE 7HA.02 Combustion Turbine and HRSG with Duct Firing	3622.1	MMBtu/hour	Low sulfur fuel	1.4	GR. S/100 SCF NG	
*WV-0033	MAIDSVILLE	1/5/2022	Combustion Turbine & Duct Burner (CT-01/HRSG1 & CT-02/HRSG2)	1275	mw	Low Sulfur Fuel	0.4	GR-S/100 SCF	SEE APPENDIX D OF 40CFR75
*WV-0033	MAIDSVILLE	1/5/2022	Combustion Turbine & Duct Burner (CT-01/HRSG1 & CT-02/HRSG2)	1275	mw	Low Sulfur Fuel	0.4	GR-S/100 SCF	SEE APPENDIX D OF 40CFR75
LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	6/3/2022	Combined Cycle Gas Turbine w/ Duct Burners and HRSG	5081	mm BTU/h	Use of gaseous fuel (pipeline-quality natural gas) and good combustion practices.	0.0062	GR/DSCF	
LA-0391	MAGNOLIA POWER GENERATING STATION UNIT 1	6/3/2022	Combined Cycle Gas Turbine Startup and Shutdown	5081	mm BTU/h	Good combustion practices.	2.28	LB/HR	
MI-0451	MEC NORTH, LLC	6/23/2022	EUCTGHRSG (North Plant): A combined cycle natural gas fired combustion turbine generator with heat recovery steam generator	3064	MMBTU/H	Good combustion practices and the use of pipeline quality natural gas.	2.6	LB/H	HOURLY
MI-0452	MEC SOUTH, LLC	6/23/2022	EUCTGHRSG (South Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	3064	MMBTU/H	Good Combustion Practices and the use of pipeline quality natural gas	2.6	LB/H	HOURLY
IL-0133	LINCOLN LAND ENERGY CENTER	7/29/2022	Combined-Cycle Combustion Turbines	3647	mmBtu/hour	Good combustion practices and use of only natural gas with a sulfur content no greater than 0.5 grains (gr)/100 standard cubic feet (scf).	2	POUNDS/MMBTU	ROLLING 3-OPERATING HOUR
*IN-0365	MAPLE CREEK ENERGY LLC	6/19/2023	Combined Cycle Turbine CTGB	4200	MMBtu per hour		0.0013	LB PER MMBTU	
*IN-0365	MAPLE CREEK ENERGY LLC	6/19/2023	Combined Cycle Turbine CTGA	3800	MMBtu per hour		0.0004	POUND PER MMBTU	

RBLC Entries for H2SO4 from Combined Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
*LA-0412	ENTERGY LOUISIANA, LLC - FRANKLIN FARMS POWER STATION	12/23/2025	Gas Turbines	4985.3	mm BTU/h	Use of natural gas fuel and energy efficiency and waste heat recovery.	0.0043	LB/MM BTU	

RBLC Entries for NOx from Simple Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
NY-0103	CRICKET VALLEY ENERGY CENTER	2/3/2016	Turbines and duct burners	228	mw	dry low NOx burners in combination with selective catalytic reduction	2	PPMVD @ 15% O2	1 H
LA-0307	MAGNOLIA LNG FACILITY	3/21/2016	Gas Turbines (8 units)	333	mm btu/hr	Dry Low NOX burners and good combustion practices	25	PPMVD	@15 %O2
TX-0788	NECHES STATION	3/24/2016	Large Combustion Turbines > 25 MW	232	MW	Dry low-NOx burners (DLN), good combustion practices	9	PPM	
TX-0794	HILL COUNTY GENERATING FACILITY	4/7/2016	Simple cycle turbine	171	MW	Emission controls consist of dry low-NOx combustors (DLN). DLN combustors use two stages of combustion, transitioning from initial startup with fuel and flame in the primary nozzles only, through a lean lean stage with fuel and flame in the primary and secondary nozzles, to fuel in the secondary stage only, extinguishing the primary flame, and in full operation, premix mode, with fuel to both nozzles, but flame only in the second stage. When natural gas and air are well-mixed before combustion, the flame temperature and resulting NOx emissions are greatly reduced compared to conventional diffusion flame combustion.	9	PPMVD @ 15% O2	3-HR ROLLING AVERAGE
TX-0794	HILL COUNTY GENERATING FACILITY	4/7/2016	Simple Cycle Turbine	171	MW	DLN, WATER INJECTION	42	PPMVD @ 15% O2	3-HR ROLLING AVERAGE
NJ-0086	BAYONNNE ENERGY CENTER	8/26/2016	Simple Cycle Stationary Turbines firing Natural gas	2143980	MMBTU/YR	Selective Catalytic Reduction, water injection, use of natural gas a low NOx emitting fuel	2.5	PPMVD@15%O2	3 H ROLLING AV BASED ON ONE H BLOCK AV
NY-0106	GREENIDGE STATION	9/7/2016	Turbine - natural gas	107	MW	Advanced low NOx burners, closed-coupled and staged over-fire air, Selective Non-Catalytic Reduction, and Selective Catalytic Reduction.	0.03	LB/MMBTU	12 MO
IL-0121	INVENERGY NELSON EXPANSION LLC	9/27/2016	Two Simple Cycle Combustion Turbines	190	MW	Dry low-NOx combustion technology for natural gas and low-NOx combustion technology and water injection for ULSD.	0.033	LB/MMBTU	
VA-0326	DOSWELL ENERGY CENTER	10/4/2016	Two (2) GE 7FA simple cycle combustion turbines	1961	MMBTU/HR	Low NOx Burners/Combustion Technology	9	PPM	VD/12 MO ROLLING TOTAL
CA-1238	PUENTE POWER	10/13/2016	Gas turbine	262	MW		2.5	PPMVD	1 HOUR@15%O2
IN-0264	MONTPELIER GENERATING STATION	1/6/2017	PRATT & TWIN-PAC SIMPLE CYCLE TURBINES	270.9	MMBTU/H	WATER INJECTION	25	PPMV	AT 15% O2 FOR NATURAL GAS
WV-0026	WAVERLY FACILITY	1/23/2017	GE Model 7FA Turbine	1571	mmbtu/hr	Dry Low-NOx Combustion System (DLNB), Water Injection	9	PPM	NATURAL GAS
TX-0816	CORPUS CHRISTI LIQUEFACTION	2/14/2017	Refrigeration compressor turbines	40000	HP	Dry low emission burners	25	PPMDV	@ 15% O2
LA-0316	CAMERON LNG FACILITY	2/17/2017	Gas turbines (9 units)	1069	mm btu/hr	good combustion practices and dry low nox burners	15	PPMVD	@15%O2
IN-0261	VERMILLION GENERATING STATION	2/28/2017	SIMPLE CYCLE, NATURAL GAS FIRED COMBUSTION TURBINES	80	MW	GOOD COMBUSTION PRACTICES	250	LB/H	EACH TURBINE
TX-0819	GAINES COUNTY POWER PLANT	4/28/2017	Simple Cycle Turbine	227.5	MW	Dry Low NOx burners (control), natural gas, good combustion practices, limited operating hours (prevention)	9	PPMV	15% O2 3-H AVG
TX-0826	MUSTANG STATION	8/16/2017	Simple Cycle Turbine	162.8	MW	Dry low-NOx burners	9	PPMVD	
TX-0833	JACKSON COUNTY GENERATORS	1/26/2018	Combustion Turbines MSS	0		Minimizing duration of startup/shutdown, using good air pollution control practices and safe operating practices.	0.01	TON/YR	
TX-0833	JACKSON COUNTY GENERATORS	1/26/2018	Combustion Turbines	920	MW	Dry low NOx burners	9	PPMVD	
WV-0028	WAVERLY POWER PLANT	3/13/2018	GE 7FA.004 Turbine	167.8	MW	Dry LNB	69	LB/HR	
*LA-0327	WASHINGTON PARISH ENERGY CENTER	5/23/2018	CTG01 NO - Simple-Cycle Combustion Turbine 1 (Normal Operations) [EQT0017]	2201	MM BTU/hr	Pipeline quality natural gas & dry-low-NOX burners	9	PPMVD @15%O2	30-DAY ROLLING AVERAGE
*LA-0327	WASHINGTON PARISH ENERGY CENTER	5/23/2018	CTG02 NO - Simple-Cycle Combustion Turbine 2 (Normal Operations) [EQT0018]	2201	MM BTU/hr	Pipeline quality natural gas & dry-low-NOX burners	9	PPMVD @15%O2	30-DAY ROLLING AVERAGE
*LA-0327	WASHINGTON PARISH ENERGY CENTER	5/23/2018	CTG01 SUSD - Simple-Cycle Combustion Turbine 1 (Startup/Shutdown/ Maintenance/Tuning/Runback) [EQT0019]	2201	MM BTU/hR	Pipeline quality natural gas & dry-low-NOX burners	86.38	LB/HR	HOURLY MAXIMUM
*LA-0327	WASHINGTON PARISH ENERGY CENTER	5/23/2018	CTG02 SUSD - Simple-Cycle Combustion Turbine 2 (Startup/Shutdown/ Maintenance/Tuning/Runback) [EQT0020]	2201	MM BTU/hr	Pipeline quality natural gas & dry-low-NOX burners	86.38	LB/HR	HOURLY MAXIMUM
*LA-0327	WASHINGTON PARISH ENERGY CENTER	5/23/2018	CTG01 CO - Simple-Cycle Combustion Turbine 1 (Commissioning) [SCN0005]	2201	MM BTU/hr	Pipeline quality natural gas & dry-low-NOX burners	240	LB/HR	HOURLY MAXIMUM
*LA-0327	WASHINGTON PARISH ENERGY CENTER	5/23/2018	CTG02 CO - Simple-Cycle Combustion Turbine 2 (Commissioning) [SCN0006]	2201	MM BTU/hr	Pipeline quality natural gas & dry-low-NOX burners	240	LB/HR	HOURLY MAXIMUM
LA-0349	DRIFTWOOD LNG FACILITY	7/10/2018	Compressor Turbines (20)	540	mm btu/hr	DLN and SCR	5	PPMVD	@ 15% O2
LA-0331	CALCASIEU PASS LNG PROJECT	9/21/2018	Simple Cycle Combustion Turbines (SCCT1 to SCCT3)	927	MM BTU/h	Dry Low NOx Combustor Design, Good Combustion Practices, and Natural Gas Combustion.	9	PPMV	30 DAY ROLLING AVERAGE
LA-0331	CALCASIEU PASS LNG PROJECT	9/21/2018	Aeroderivative Simple Cycle Combustion Turbine	263	MM BTU/h	Selective Catalytic Reduction (SCR), exclusive combustion of fuel gas, and good combustion practices.	25	PPMV	30 DAY ROLLING AVERAGE
TX-0851	RIO BRAVO PIPELINE FACILITY	12/17/2018	Refrigeration Compression Turbines	967	MMBTU/HR	Dry Low NOx burners. Good combustion practices	9	PPMVD	15% O2

RBLC Entries for NOx from Simple Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
MI-0441	LBWL--ERICKSON STATION	12/21/2018	EUCTGSC1-A nominally rated 667 MMBTU/hr natural gas-fired simple cycle CTG	667	MMBTU/H	Dry low NOx burners (DLNB) and good combustion practices.	25	PPM	AT 15%O2;4-HR ROLL AVG; SEE NOTES BELOW
LA-0343	SABINE PASS LNG TERMINAL	9/6/2019	gas turbines during startups, shutdowns, and maintenance	0		good combustion practices	96	PPMV	@ 15% O2
AK-0085	GAS TREATMENT PLANT	8/13/2020	Six (6) Simple Cycle Gas-Turbines (Power Generation)	386	MMBtu/hr	DLN combustors and Good Combustion Practices	15	PPMV @ 15% O2	3-HOUR AVERAGE
TX-0900	ECTOR COUNTY ENERGY CENTER	8/17/2020	Simple Cycle Turbines	0		Equipped with dry-low NOx burners with best management practices and good combustion practices. Minimize the duration of startup and shutdown events to less than 60 minutes per event. Limit MSS by 140 lb/hr maximum allowable emission rate for each turbine.	9	PPMVD	3% O2 3 HR AVG
LA-0383	LAKE CHARLES LNG EXPORT TERMINAL	9/3/2020	Turbines (EQT0020 - EQT0031)	0		LNB + SCR	3.1	PPMVD @15%O2	3-HOUR AVERAGE
MI-0447	LBWL--ERICKSON STATION	1/7/2021	EUCTGSC1-natural gas fired simple cycle CTG	667	MMBTU/H	DLNB and good combustion practices.	25	PPM	4-HR ROLL AVG EXCEPT LESS THAN 75% PEAK
AL-0329	COLBERT COMBUSTION TURBINE PLANT	9/21/2021	Three 229 MW Simple Cycle Combustion Turbines	229	MW		9	PPMVD	3 HOUR AVG @ 15% O2
TX-0933	NACERO PENWELL FACILITY	11/17/2021	TURBINE	0		LOW NOX BURNERS AND SCR	9	PPMVD	15% O2
AK-0088	LIQUEFACTION PLANT	7/7/2022	Six Simle Cycle Gas-Fired Turbines	1113	MMBtu/hr	SCR, DLN combustors, and good combustion practices	2	PPMV @ 15% O2	3-HOURS
*TN-0187	TENNESSEE VALLEY AUTHORITY - JOHNSONVILLE COMBUSTION TURBINE	8/31/2022	Ten Simple Cycle NG Turbines	465.8	MMBtu/hr	dry low-NOx burners selective catalytic reduction	5	PPMVD @ 15% O2	4-HOUR ROLLING AVERAGE EXCLUDING STA/SHU
MI-0454	LBWL-ERICKSON STATION	12/20/2022	EUCTGSC1--A nominally rated 667 MMBTU/H natural gas-fired simple cycle CTG	667	MMBTU/H	DLNB and good combustion practices.	25	PPM	4-HR ROLLING AVG EXCEPT <75% PEAK LOAD
LA-0324	COMMONWEALTH LNG FACILITY	3/28/2023	Refrgeration Turbines and Generator Turbines (EQT0001 - EQT0006 and EQT0013 - EQT0015)	575	mm btu/hr	Good combustion practices and use clean fuel. Dry low-NOx and selective catalytic reduction.	2.5	PPMVD	@15% O2
TX-0975	FREESTONE PEAKERS PLANT	6/13/2024	Simple Cycle Gas Turbines	221	MW	Dry low-NOx burners (DLNB) and good combustion practices.	9	PPMVD	15% O2
TX-0986	JACK COUNTY GENERATION FACILITY	12/27/2024	COMBUSTION TURBINES	180.2	MW	Each turbine is limited to 15 ppmvd concentration at 15% O2 on a 3-hour average through an upgrade to â€¯HR3â€™ Dry Low-NOx (DLN) burners. 14 ppmvd at 15% O2 is achieved on an annual average and also includes during periods when wet compression (evaporative air cooling) is applied. MSS - Limited to 50 startups and 50 shutdowns per year for each turbine. Startup and shutdown events are each expected to last less than an hour in duration.	15	PPMVD	15% O2
*TX-0989	LONE STAR POWER STATION	3/17/2025	Simple Cycle Gas Turbines	0		Dry-low NOx (DLN) combustors and an aqueous ammonia-based SCR system	2.5	PPMVD	15% O2 1-HR
IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	3/31/2025	Four GE 7FA.05 simple cycle combustion turbines	240	MW Each	dry low-NOx combustors, water injection when using ULSD, good combustion practices, clean fuels	9	PPMVD	@ 15% O2 (NG) STEADY STATE OPERATIONS

RBLC Entries for NOx from Simple Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time

RBLC Entries for CO from Simple Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
NY-0103	CRICKET VALLEY ENERGY CENTER	2/3/2016	Turbines and duct burners	228	mw	good combustion practice and oxidation catalyst	2	PPMVD @ 15% O2	1 H
LA-0307	MAGNOLIA LNG FACILITY	3/21/2016	Gas Turbines (8 units)	333	mm btu/hr	good combustion practices and fueled by natural gas	0.062	LB/MM BTU	THREE ONE-HOUR TEST AVERAGE
TX-0788	NECHES STATION	3/24/2016	Large Combustion Turbines > 25 MW	232	MW	good combustion practices	9	PPM	
TX-0794	HILL COUNTY GENERATING FACILITY	4/7/2016	Simple cycle turbine	171	MW	Premixing of fuel and air enhances combustion efficiency and minimizes emissions.	9	PPMVD @ 15% O2	3-HR AVERAGE
TX-0794	HILL COUNTY GENERATING FACILITY	4/7/2016	Simple Cycle Turbine	171	MW	combustor designed for complete combustion and therefore minimizes emissions	20	PPMVD @ 15% O2	3-HR ROLLING AVERAGE
NJ-0086	BAYONNNE ENERGY CENTER	8/26/2016	Simple Cycle Stationary Turbines firing Natural gas	2143980	MMBTU/YR	Add-on control is CO Oxidation Catalyst, and use of natural gas as fuel for pollution prevention	5	PPMVD@15%O2	3 H ROLLING AV BASED ON ONE H BLOCK AV
NJ-0086	BAYONNNE ENERGY CENTER	8/26/2016	Simple Cycle Stationary Turbines firing Ultra Low Sulfur Distillate Oil	720	H/YR	Oxidation Catalyst	5	PPMVD@15%O2	3 H ROLLING AV BASED ON ONE H BLOCK AV
NY-0106	GREENIDGE STATION	9/7/2016	Turbine - natural gas	107	MW		0.095	LB/MMBTU	12 MO
VA-0326	DOSWELL ENERGY CENTER	10/4/2016	Two (2) GE 7FA simple cycle combustion turbines	1961	MMBTU/HR	Pipeline Quality Natural Gas	13.99	LB	H/12 MO ROLLING TOTAL
IN-0264	MONTPELIER GENERATING STATION	1/6/2017	PRATT & TWIN-PAC SIMPLE CYCLE TURBINES	270.9	MMBTU/H	NATURAL GAS AS PRIMARY FUEL; GOOD COMBUSTION PRACTICES	0.2	LB/MMBTU	NATURAL GAS
WV-0026	WAVERLY FACILITY	1/23/2017	GE Model 7FA Turbine	1571	mmbtu/hr	Good Combustion Practices	9	PPM	NATURAL GAS
TX-0816	CORPUS CHRISTI LIQUEFACTION	2/14/2017	Refrigeration compressor turbines	40000	HP	Dry low emission burners	29	PPMDV	@ 15% O2
LA-0316	CAMERON LNG FACILITY	2/17/2017	Gas turbines (9 units)	1069	mm btu/hr	good combustion practices and fueled by natural gas	15	PPMVD	@15%O2
IN-0261	VERMILLION GENERATING STATION	2/28/2017	SIMPLE CYCLE, NATURAL GAS FIRED COMBUSTION TURBINES	80	MW	GOOD COMBUSTION PRACTICES	525	LB/H	EACH TURBINE
TX-0819	GAINES COUNTY POWER PLANT	4/28/2017	Simple Cycle Turbine	227.5	MW	Good combustion practices; limited operating hours	9	PPMVD	3% O2 3-H AVG
TX-0833	JACKSON COUNTY GENERATORS	1/26/2018	Combustion Turbines MSS	0		Minimizing duration of startup/shutdown, using good air pollution control practices and safe operating practices.	0.01	TON/YR	
TX-0833	JACKSON COUNTY GENERATORS	1/26/2018	Combustion Turbines	920	MW	Dry low NOx burners	9	PPMVD	
WV-0028	WAVERLY POWER PLANT	3/13/2018	GE 7FA.004 Turbine	167.8	MW	Combustion Controls	33.9	LB/HR	
*LA-0327	WASHINGTON PARISH ENERGY CENTER	5/23/2018	CTG01 NO - Simple-Cycle Combustion Turbine 1 (Normal Operations) [EQT0017]	2201	MM BTU/hr	Good combustion practices & use of pipeline quality natural gas	6	PPMVD AT 15% OXYGEN	ANNUAL AVERAGE
*LA-0327	WASHINGTON PARISH ENERGY CENTER	5/23/2018	CTG02 NO - Simple-Cycle Combustion Turbine 2 (Normal Operations) [EQT0018]	2201	MM BTU/hr	Good combustion practices & use of pipeline quality natural gas	6	PPMVD AT 15% O2	ANNUAL AVERAGE
*LA-0327	WASHINGTON PARISH ENERGY CENTER	5/23/2018	CTG01 SUSD - Simple-Cycle Combustion Turbine 1 (Startup/Shutdown/ Maintenance/Tuning/Runback) [EQT0019]	2201	MM BTU/hR	Good combustion practices & use of pipeline quality natural gas	800.08	LB/HR	HOURLY MAXIMUM
*LA-0327	WASHINGTON PARISH ENERGY CENTER	5/23/2018	CTG02 SUSD - Simple-Cycle Combustion Turbine 2 (Startup/Shutdown/ Maintenance/Tuning/Runback) [EQT0020]	2201	MM BTU/hr	Good combustion practices & use of pipeline quality natural gas	800.08	LB/HR	HOURLY MAXIMUM
*LA-0327	WASHINGTON PARISH ENERGY CENTER	5/23/2018	CTG01 CO - Simple-Cycle Combustion Turbine 1 (Commissioning) [SCN0005]	2201	MM BTU/hr	Good combustion practices & use of pipeline quality natural gas	2000	LB/HR	HOURLY MAXIMUM
*LA-0327	WASHINGTON PARISH ENERGY CENTER	5/23/2018	CTG02 CO - Simple-Cycle Combustion Turbine 2 (Commissioning) [SCN0006]	2201	MM BTU/hr	Good combustion practices & use of pipeline quality natural gas	2000	LB/HR	HOURLY MAXIMUM
LA-0349	DRIFTWOOD LNG FACILITY	7/10/2018	Compressor Turbines (20)	540	mm btu/hr	Good Combustion Practices	25	PPMVD	@ 15% O2
LA-0331	CALCASIEU PASS LNG PROJECT	9/21/2018	Simple Cycle Combustion Turbines (SCCT1 to SCCT3)	927	MM BTU/h	Proper Equipment Design, Proper Operation, and Good Combustion Practices.	25	PPMV	30 DAY ROLLING AVERAGE
LA-0331	CALCASIEU PASS LNG PROJECT	9/21/2018	Aeroderivative Simple Cycle Combustion Turbine	263	MM BTU/h	Proper Equipment Design, Proper Operation, and Good Combustion Practices.	36	PPMV	30 DAY ROLLING AVERAGE
TX-0851	RIO BRAVO PIPELINE FACILITY	12/17/2018	Refrigeration Compression Turbines	967	MMBTU/HR	Dry Low NOx burners. Good combustion practices	25	PPMVD	15% O2
MI-0441	LBWL--ERICKSON STATION	12/21/2018	EUCTGSC1-A nominally rated 667 MMBTU/hr natural gas-fired simple cycle CTG	667	MMBTU/H	Dry low NOx burners and good combustion practices.	9	LB/H	HOURLY EXCEPT DURING STARTUP/SHUTDOWN
AK-0085	GAS TREATMENT PLANT	8/13/2020	Six (6) Simple Cycle Gas-Turbines (Power Generation)	386	MMBtu/hr	Good Combustion Practices and burning clean fuels (NG)	15	PPMV @ 15% O2	3-HOUR AVERAGE
LA-0383	LAKE CHARLES LNG EXPORT TERMINAL	9/3/2020	Turbines (EQT0020 - EQT0031)	0		catalytic oxidation and carbon monoxide turndown	10	PPMVD @15%O2	3-HOUR AVERAGE, @ LOAD =>50%
MI-0447	LBWL--ERICKSON STATION	1/7/2021	EUCTGSC1-natural gas fired simple cycle CTG	667	MMBTU/H	Dry low NOx burners and good combustion practices	9	LB/H	HOURLY; EXCEPT DURING STARTUP/SHUTDOWN
AL-0329	COLBERT COMBUSTION TURBINE PLANT	9/21/2021	Three 229 MW Simple Cycle Combustion Turbines	229	MW		9	PPMVD	3 HOUR AVG / @15% O2
TX-0933	NACERO PENWELL FACILITY	11/17/2021	TURBINE	0		Oxidization catalyst, good combustion practices and the use of gaseous fuel	9	PPMVD	15% O2

RBLC Entries for CO from Simple Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
AK-0088	LIQUEFACTION PLANT	7/7/2022	Six Simle Cycle Gas-Fired Turbines	1113	MMBtu/hr	Oxidation Catalyst and good combustion practices	5	PPMV @ 15% O2	3-HOURS
*TN-0187	TENNESSEE VALLEY AUTHORITY - JOHNSONVILLE COMBUSTION TURBINE	8/31/2022	Ten Simple Cycle NG Turbines	465.8	MMBtu/hr	oxidation catalyst	5	PPMVD @ 15% O2	4-HOUR ROLLING AVERAGE EXCLUDING STA/SHU
MI-0454	LBWL-ERICKSON STATION	12/20/2022	EUCTGSC1--A nominally rated 667 MMBTU/H natural gas-fired simple cycle CTG	667	MMBTU/H	Dry low NOx burners and good combustion practices.	9	LB/H	HOURLY EXCEPT DURING SU/SD
LA-0324	COMMONWEALTH LNG FACILITY	3/28/2023	Refrgeration Turbines and Generator Turbines (EQT0001 - EQT0006 and EQT0013 - EQT0015)	575	mm btu/hr	Good combustion practices and use of clean fuel.	1.7	PPMVD	@15% O2
TX-0975	FREESTONE PEAKERS PLANT	6/13/2024	Simple Cycle Gas Turbines	221	MW	Good combustion practices	9	PPMVD	15% O2
TX-0986	JACK COUNTY GENERATION FACILITY	12/27/2024	COMBUSTION TURBINES	180.2	MW	Each turbine is limited to 9 ppmvd at 15% O2 on a 3-hour average, which meets Tier I BACT. Good combustion practices are used. MSS - Limited to 50 startups and 50 shutdowns per year for each turbine. Startup and shutdown events are each expected to last less than an hour in duration.	9	PPMVD	15% O2, 3-HR AVG
IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	3/31/2025	Four GE 7FA.05 simple cycle combustion turbines	240	MW Each		9	PPMVD	@ 15% O2 (NG) STEADY STATE OPERATIONS

RBLC Entries for SO2 from Simple Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
TX-0788	NECHES STATION	3/24/2016	Large Combustion Turbines > 25 MW	232	MW	good combustion practices, low sulfur fuel	1	GR/100 SCF	HOURLY
NJ-0086	BAYONNNE ENERGY CENTER	8/26/2016	Simple Cycle Stationary Turbines firing Natural gas	2143980	MMBTU/YR	Use of natural gas a low sulfur fuel	0.77	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR
NJ-0086	BAYONNNE ENERGY CENTER	8/26/2016	Simple Cycle Stationary Turbines firing Ultra Low Sulfur Distillate Oil	720	H/YR	Use of ULSD a very low sulfur fuel	0.8	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR
IN-0261	VERMILLION GENERATING STATION	2/28/2017	SIMPLE CYCLE, NATURAL GAS FIRED COMBUSTION TURBINES	80	MW	GOOD COMBUSTION PRACTICES	0.6	LB/H	EACH TURBINE
TX-0819	GAINES COUNTY POWER PLANT	4/28/2017	Simple Cycle Turbine	227.5	MW	Pipeline quality natural gas; limited hours; good combustion practices	1.54	GR/100 DSCF	
LA-0349	DRIFTWOOD LNG FACILITY	7/10/2018	Compressor Turbines (20)	540	mm btu/hr	Good Combustion Practices and Use of low sulfur facility fuel gas	0		
LA-0331	CALCASIEU PASS LNG PROJECT	9/21/2018	Aeroderivative Simple Cycle Combustion Turbine	263	MM BTU/h	Exclusive Combustion of Low Sulfur Fuel	4	PPMV	ANNUAL AVERAGE
LA-0331	CALCASIEU PASS LNG PROJECT	9/21/2018	Simple Cycle Combustion Turbines (SCCT1 to SCCT3)	927	MM BTU/h	Exclusive Combustion of low sulfur fuel - Fuel sulfur content <4 ppm, proper engineering practices.	4	PPMV	ANNUAL AVERAGE
AK-0085	GAS TREATMENT PLANT	8/13/2020	Six (6) Simple Cycle Gas-Turbines (Power Generation)	386	MMBtu/hr	Good combustion practices and clean burning fuel low sulfur natural gas	96	PPMV SULFUR IN FUEL	PRIOR TO COMPLETING TREATMENT TRAINS
TX-0933	NACERO PENWELL FACILITY	11/17/2021	TURBINE	0		Low sulfur content in fuel	0		
AK-0088	LIQUEFACTION PLANT	7/7/2022	Six Simle Cycle Gas-Fired Turbines	1113	MMBtu/hr	pipeline quality natural gas and good combustion practices	16	PPMV SULFUR IN FUEL	
LA-0324	COMMONWEALTH LNG FACILITY	3/28/2023	Refrgeration Turbines and Generator Turbines (EQT0001 - EQT0006 and EQT0013 - EQT0015)	575	mm btu/hr	Good combustion practices and use of low sulfur fuels	0.0134	LB/MM BTU	
TX-0986	JACK COUNTY GENERATION FACILITY	12/27/2024	COMBUSTION TURBINES	180.2	MW	Pipeline quality natural gas containing no more than 2 grains sulfur per 100 dry standard cubic foot natural gas (gr S/100 dscf) is used. Tier I BACT for simple cycle natural gas fired turbines is good combustion practices and pipeline quality natural gas with a maximum sulfur content of 2 to 5 gr S/100 dscf on an hourly basis and between 0.5 to 1 gr S/100 dscf on an annual basis. While the hourly value is met, the annual Tier I BACT guideline is exceeded. As justification for the annual Tier I BACT guideline, the limited hours of operation authorized at no more than 2,500 hours per year per turbine results in an effective annual sulfur content of 0.57 gr S/100 dscf when compared to continuous operation of 2 gr S/100 scf at 8,760 hours per year	0		

RBLC Entries for PM10 from Simple Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
LA-0307	MAGNOLIA LNG FACILITY	3/21/2016	Gas Turbines (8 units)	333	mm btu/hr	good combustion practices and fueled by natural gas	0		
TX-0788	NECHES STATION	3/24/2016	Large Combustion Turbines > 25 MW	232	MW	good combustion practices, low sulfur fuel	13.4	LB/H	
TX-0794	HILL COUNTY GENERATING FACILITY	4/7/2016	Simple cycle turbine	171	MW	Premixing of fuel and air enhances combustion efficiency and minimizes emissions.	14	LB/H	
TX-0794	HILL COUNTY GENERATING FACILITY	4/7/2016	Simple Cycle Turbine	171	MW	combustor designed for complete combustion and therefore minimizes emissions	9.8	LB/H	
NJ-0086	BAYONNNE ENERGY CENTER	8/26/2016	Simple Cycle Stationary Turbines firing Natural gas	2143980	MMBTU/YR	Use of Natural gas a clean burning fuel	5	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR
NJ-0086	BAYONNNE ENERGY CENTER	8/26/2016	Simple Cycle Stationary Turbines firing Ultra Low Sulfur Distillate Oil	720	H/YR	Use of ULSD a clean burning fuel	14	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR
NY-0106	GREENIDGE STATION	9/7/2016	Turbine - natural gas	107	MW	Baghouse with leak detection system.	8.25	E-3 LB/MMBTU	1 H
IL-0121	INVENERGY NELSON EXPANSION LLC	9/27/2016	Two Simple Cycle Combustion Turbines	190	MW	turbine design and good combustion practices	0.005	LB/MMBTU	3-HOUR BLOCK AVERAGE
VA-0326	DOSWELL ENERGY CENTER	10/4/2016	Two (2) GE 7FA simple cycle combustion turbines	1961	MMBTU/HR	Good combustion, operation and maintenance practices and use of pipeline quality natural gas	12	LB	H/12 MO ROLLING TOTAL
IN-0264	MONTPELIER GENERATING STATION	1/6/2017	PRATT & TWIN-PAC SIMPLE CYCLE TURBINES	270.9	MMBTU/H	USE NATURAL GAS AS PRIMARY FUEL; GOOD COMBUSTION PRACTICES	0.0066	LB/MMBTU	3-HR AVG FOR NATURAL GAS
LA-0316	CAMERON LNG FACILITY	2/17/2017	Gas turbines (9 units)	1069	mm btu/hr	good combustion practices and fueled by natural gas	0.0076	LB/MM BTU	THREE ONE-HOUR TEST AVERAGE
IN-0261	VERMILLION GENERATING STATION	2/28/2017	SIMPLE CYCLE, NATURAL GAS FIRED COMBUSTION TURBINES	80	MW	GOOD COMBUSTION PRACTICES	5	LB/H	EACH TURBINE
TX-0819	GAINES COUNTY POWER PLANT	4/28/2017	Simple Cycle Turbine	227.5	MW	Pipeline quality natural gas; limited hours; good combustion practices	8.5	T/YR	
TX-0826	MUSTANG STATION	8/16/2017	Simple Cycle Turbine	162.8	MW	Pipeline quality natural gas and good combustion practices	27	T/YR	
TX-0833	JACKSON COUNTY GENERATORS	1/26/2018	Combustion Turbines	920	MW	Use of pipeline quality natural gas and good combustion practices.	11.81	TON/YR	
TX-0833	JACKSON COUNTY GENERATORS	1/26/2018	Combustion Turbines MSS	0		Minimizing duration of startup/shutdown, using good air pollution control practices and safe operating practices.	0.01	TON/YR	
*LA-0327	WASHINGTON PARISH ENERGY CENTER	5/23/2018	CTG01 CO - Simple-Cycle Combustion Turbine 1 (Commissioning) [SCN0005]	2201	MM BTU/hr	Good combustion practices and the use of low sulfur fuels (pipeline quality natural gas)	6.3	LB/HR	HOURLY MAXIMUM
*LA-0327	WASHINGTON PARISH ENERGY CENTER	5/23/2018	CTG02 CO - Simple-Cycle Combustion Turbine 2 (Commissioning) [SCN0006]	2201	MM BTU/hr	Good combustion practices and the use of low sulfur fuels (pipeline quality natural gas)	6.3	LB/HR	HOURLY MAXIMUM
*LA-0327	WASHINGTON PARISH ENERGY CENTER	5/23/2018	CTG01 SUSD - Simple-Cycle Combustion Turbine 1 (Startup/Shutdown/ Maintenance/Tuning/Runback) [EQT0019]	2201	MM BTU/hR	Good combustion practices and the use of low sulfur fuels (pipeline quality natural gas)	6.3	LB/HR	HOURLY MAXIMUM
*LA-0327	WASHINGTON PARISH ENERGY CENTER	5/23/2018	CTG02 SUSD - Simple-Cycle Combustion Turbine 2 (Startup/Shutdown/ Maintenance/Tuning/Runback) [EQT0020]	2201	MM BTU/hr	Good combustion practices and the use of low sulfur fuels (pipeline quality natural gas)	6.3	LB/HR	HOURLY MAXIMUM

RBLC Entries for PM10 from Simple Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
*LA-0327	WASHINGTON PARISH ENERGY CENTER	5/23/2018	CTG01 NO - Simple-Cycle Combustion Turbine 1 (Normal Operations) [EQT0017]	2201	MM BTU/hr	Good combustion practices and the use of low sulfur fuels (pipeline quality natural gas)	6.3	LB/HR	HOURLY MAXIMUM
*LA-0327	WASHINGTON PARISH ENERGY CENTER	5/23/2018	CTG02 NO - Simple-Cycle Combustion Turbine 2 (Normal Operations) [EQT0018]	2201	MM BTU/hr	Good combustion practices and the use of low sulfur fuels (pipeline quality natural gas)	6.3	LB/HR	HOURLY MAXIMUM
LA-0349	DRIFTWOOD LNG FACILITY	7/10/2018	Compressor Turbines (20)	540	mm btu/hr	Good Combustion Practices and Use of low sulfur facility fuel gas	0.0066	LB/MM BTU	
LA-0331	CALCASIEU PASS LNG PROJECT	9/21/2018	Aeroderivative Simple Cycle Combustion Turbine	263	MM BTU/h	Exclusive Combustion of Fuel Gas, Good Combustion Practices Including Proper Burner Design.	4.5	LB/H	3 HOUR AVERAGE
LA-0331	CALCASIEU PASS LNG PROJECT	9/21/2018	Simple Cycle Combustion Turbines (SCCT1 to SCCT3)	927	MM BTU/h	Exclusive Combustion of Fuel Gas and Good Combustion Practices, Including Proper Burner Design.	8	LB/H	3 HOUR AVERAGE
TX-0851	RIO BRAVO PIPELINE FACILITY	12/17/2018	Refrigeration Compression Turbines	967	MMBTU/HR	Good combustion practices and use of pipeline quality natural gas.	7	LB/HR	
MI-0441	LBWL--ERICKSON STATION	12/21/2018	EUCTGSC1-A nominally rated 667 MMBTU/hr natural gas-fired simple cycle CTG	667	MMBTU/H	Pipeline quality natural gas, inlet air conditioning and good combustion practices.	4.5	LB/H	HOURLY
AK-0085	GAS TREATMENT PLANT	8/13/2020	Six (6) Simple Cycle Gas-Turbines (Power Generation)	386	MMBtu/hr	Good Combustion Practices and burning clean fuels (NG)	0.007	LB/MMBTU	3-HOUR AVERAGE
LA-0383	LAKE CHARLES LNG EXPORT TERMINAL	9/3/2020	Turbines (EQT0020 - EQT0031)	0		Good combustion practices and clean natural gas	0		
MI-0447	LBWL--ERICKSON STATION	1/7/2021	EUCTGSC1-natural gas fired simple cycle CTG	667	MMBTU/H	Pipeline quality natural gas, inlet air conditioning and good combustion practices.	4.5	LB/H	HOURLY
AL-0329	COLBERT COMBUSTION TURBINE PLANT	9/21/2021	Three 229 MW Simple Cycle Combustion Turbines	229	MW		0.008	LB/MMBTU	3 HOUR AVG
TX-0933	NACERO PENWELL FACILITY	11/17/2021	TURBINE	0		good combustion practices and the use of gaseous fuel	0.0075	LB/MMBTU	
AK-0088	LIQUEFACTION PLANT	7/7/2022	Six Simle Cycle Gas-Fired Turbines	1113	MMBtu/hr	Good combustion practices and burning clean fuel (natural gas)	0.007	LB/MMBTU	3-HOURS
MI-0454	LBWL-ERICKSON STATION	12/20/2022	EUCTGSC1--A nominally rated 667 MMBTU/H natural gas-fired simple cycle CTG	667	MMBTU/H	Pipeline quality natural gas, inlet air conditioning and good combustion practices.	4.5	LB/H	HOURLY
LA-0324	COMMONWEALTH LNG FACILITY	3/28/2023	Refrgeration Turbines and Generator Turbines (EQT0001 - EQT0006 and EQT0013 - EQT0015)	575	mm btu/hr	Good combustion practices.	0.0183	LB/MMBTU	
TX-0975	FREESTONE PEAKERS PLANT	6/13/2024	Simple Cycle Gas Turbines	221	MW	Good combustion practices	0		
TX-0986	JACK COUNTY GENERATION FACILITY	12/27/2024	COMBUSTION TURBINES	180.2	MW	Pipeline quality natural gas and good combustion practices are used, which meets Tier I BACT. The turbines are proposed to meet 0.0075 lb/MMBtu total particulate matter. It is assumed that emissions of PM2.5 are equal to PM10, which are equal to total PM. No technically feasible post-combustion control technologies are available to reduce particulate matter emissions from gas turbines due to the large amount of excess air inherent to the turbine operation and would create an unacceptable amount of backpressure.	0		
IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	3/31/2025	Four GE 7FA.05 simple cycle combustion turbines	240	MW Each	good combustion practices and low sulfur fuel content	0.0031	LB	MMBTU NG STEADY STATE

RBLC Entries for PM10 from Simple Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time

RBLC Entries for PM2.5 from Simple Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
LA-0307	MAGNOLIA LNG FACILITY	3/21/2016	Gas Turbines (8 units)	333	mm btu/hr	good combustion practices and fueled by natural gas	0		
TX-0788	NECHES STATION	3/24/2016	Large Combustion Turbines > 25 MW	232	MW	good combustion practices, low sulfur fuel	13.4	LB/H	
TX-0794	HILL COUNTY GENERATING FACILITY	4/7/2016	Simple cycle turbine	171	MW	Premixing of fuel and air enhances combustion efficiency and minimizes emissions.	14	LB/H	
TX-0794	HILL COUNTY GENERATING FACILITY	4/7/2016	Simple Cycle Turbine	171	MW	combustor designed for complete combustion and therefore minimizes emissions	9.8	LB/H	3-HR ROLLING AVERAGE
NJ-0086	BAYONNNE ENERGY CENTER	8/26/2016	Simple Cycle Stationary Turbines firing Natural gas	2143980	MMBTU/YR	Use of natural gas a clean burning fuel	5	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR
NJ-0086	BAYONNNE ENERGY CENTER	8/26/2016	Simple Cycle Stationary Turbines firing Ultra Low Sulfur Distillate Oil	720	H/YR	Use of ULSD, a clean burning fuel	14	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR
NY-0106	GREENIDGE STATION	9/7/2016	Turbine - natural gas	107	MW	Baghouse with leak detection system.	8.25	E-3 LB/MMBTU	1 H
IL-0121	INVENERGY NELSON EXPANSION LLC	9/27/2016	Two Simple Cycle Combustion Turbines	190	MW	turbine design and good combustion practices	0.005	LB/MMBTU	3-HOUR BLOCK AVERAGE
VA-0326	DOSWELL ENERGY CENTER	10/4/2016	Two (2) GE 7FA simple cycle combustion turbines	1961	MMBTU/HR	Good combustion, operation and maintenance practices and use of pipeline quality natural gas	12	LB	H/12 MO ROLLING TOTAL
IN-0264	MONTPELIER GENERATING STATION	1/6/2017	PRATT & TWIN-PAC SIMPLE CYCLE TURBINES	270.9	MMBTU/H	NATURAL GAS PRIMARY FUEL; GOOD COMBUSTION PRACTICES	0.0066	LB/MMBTU	3-HR AVG FOR NATURAL GAS
WV-0026	WAVERLY FACILITY	1/23/2017	GE Model 7FA Turbine	1571	mmbtu/hr	Inlet Air Filtration, Use of Natural Gas, Ultra-Low Sulfur Diesel	15	LB/HR	NATURAL GAS
TX-0816	CORPUS CHRISTI LIQUEFACTION	2/14/2017	Refrigeration compressor turbines	40000	HP		0.75	LB/H	
LA-0316	CAMERON LNG FACILITY	2/17/2017	Gas turbines (9 units)	1069	mm btu/hr	good combustion practices and fueled by natural gas	0.0076	LB/MM BTU	THREE ONE-HOUR TEST AVERAGE
IN-0261	VERMILLION GENERATING STATION	2/28/2017	SIMPLE CYCLE, NATURAL GAS FIRED COMBUSTION TURBINES	80	MW	GOOD COMBUSTION PRACTICES	5	LB/H	EACH TURBINE
TX-0819	GAINES COUNTY POWER PLANT	4/28/2017	Simple Cycle Turbine	227.5	MW	Pipeline quality natural gas; limited hours; good combustion practices	8.5	T/YR	
TX-0826	MUSTANG STATION	8/16/2017	Simple Cycle Turbine	162.8	MW	Pipeline quality natural gas and good combustion practices	27	T/YR	
TX-0833	JACKSON COUNTY GENERATORS	1/26/2018	Combustion Turbines	920	MW	Use of pipeline quality natural gas and good combustion practices.	11.81	TON/YR	
TX-0833	JACKSON COUNTY GENERATORS	1/26/2018	Combustion Turbines MSS	0		Minimizing duration of startup/shutdown, using good air pollution control practices and safe operating practices.	0.01	TON/YR	
WV-0028	WAVERLY POWER PLANT	3/13/2018	GE 7FA.004 Turbine	167.8	MW	Inlet air filtration.	15.09	LB/HR	
*LA-0327	WASHINGTON PARISH ENERGY CENTER	5/23/2018	CTG01 CO - Simple-Cycle Combustion Turbine 1 (Commissioning) [SCN0005]	2201	MM BTU/hr	Good combustion practices and the use of low sulfur fuels (pipeline quality natural gas)	6.3	LB/HR	HOURLY MAXIMUM

RBLC Entries for PM2.5 from Simple Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
*LA-0327	WASHINGTON PARISH ENERGY CENTER	5/23/2018	CTG02 CO - Simple-Cycle Combustion Turbine 2 (Commissioning) [SCN0006]	2201	MM BTU/hr	Good combustion practices and the use of low sulfur fuels (pipeline quality natural gas)	6.3	LB/HR	HOURLY MAXIMUM
*LA-0327	WASHINGTON PARISH ENERGY CENTER	5/23/2018	CTG01 SUSD - Simple-Cycle Combustion Turbine 1 (Startup/Shutdown/ Maintenance/Tuning/Runback) [EQT0019]	2201	MM BTU/hR	Good combustion practices and the use of low sulfur fuels (pipeline quality natural gas)	6.3	LB/HR	HOURLY MAXIMUM
*LA-0327	WASHINGTON PARISH ENERGY CENTER	5/23/2018	CTG02 SUSD - Simple-Cycle Combustion Turbine 2 (Startup/Shutdown/ Maintenance/Tuning/Runback) [EQT0020]	2201	MM BTU/hr	Good combustion practices and the use of low sulfur fuels (pipeline quality natural gas)	6.3	LB/HR	HOURLY MAXIMUM
*LA-0327	WASHINGTON PARISH ENERGY CENTER	5/23/2018	CTG01 NO - Simple-Cycle Combustion Turbine 1 (Normal Operations) [EQT0017]	2201	MM BTU/hr	Good combustion practices & use of low sulfur fuels (pipeline quality natural gas)	6.3	LB/HR	HOURLY MAXIMUM
*LA-0327	WASHINGTON PARISH ENERGY CENTER	5/23/2018	CTG02 NO - Simple-Cycle Combustion Turbine 2 (Normal Operations) [EQT0018]	2201	MM BTU/hr	Good combustion practices & use of low sulfur fuels (pipeline quality natural gas)	6.3	LB/HR	HOULY MAXIMUM
LA-0349	DRIFTWOOD LNG FACILITY	7/10/2018	Compressor Turbines (20)	540	mm btu/hr	Good Combustion Practices and Use of low sulfur facility fuel gas	0.0066	LB/MM BTU	
LA-0331	CALCASIEU PASS LNG PROJECT	9/21/2018	Aeroderivative Simple Cycle Combustion Turbine	263	MM BTU/h	Exclusive Combustion of Fuel Gas, Good Combustion Practices Including Proper Burner Design.	4.5	LB/H	3 HOUR AVERAGE
LA-0331	CALCASIEU PASS LNG PROJECT	9/21/2018	Simple Cycle Combustion Turbines (SCCT1 to SCCT3)	927	MM BTU/h	Exclusive Combustion of Fuel Gas and Good Combustion Practices, Including Proper Burner Design.	8	LB/H	3 HOUR AVERAGE
TX-0851	RIO BRAVO PIPELINE FACILITY	12/17/2018	Refrigeration Compression Turbines	967	MMBTU/HR	Good combustion practices and use of pipeline quality natural gas.	7	LB/HR	
MI-0441	LBWL--ERICKSON STATION	12/21/2018	EUCTGSC1-A nominally rated 667 MMBTU/hr natural gas-fired simple cycle CTG	667	MMBTU/H	Pipeline quality natural gas, inlet air conditioning and good combustion practices.	4.5	LB/H	HOURLY
AK-0085	GAS TREATMENT PLANT	8/13/2020	Six (6) Simple Cycle Gas-Turbines (Power Generation)	386	MMBtu/hr	Good Combustion Practices and burning clean fuels (NG)	0.007	LB/MMBTU	3-HOUR AVERAGE
LA-0383	LAKE CHARLES LNG EXPORT TERMINAL	9/3/2020	Turbines (EQT0020 - EQT0031)	0		Good combustion practices and clean natural gas	0		
MI-0447	LBWL--ERICKSON STATION	1/7/2021	EUCTGSC1-natural gas fired simple cycle CTG	667	MMBTU/H	Pipeline quality natural gas, inlet air conditioning and good combustion practices.	4.5	LB/H	HOURLY
AL-0329	COLBERT COMBUSTION TURBINE PLANT	9/21/2021	Three 229 MW Simple Cycle Combustion Turbines	229	MW		0.008	LB/MMBTU	3 HOUR AVG
TX-0933	NACERO PENWELL FACILITY	11/17/2021	TURBINE	0		good combustion practices and the use of gaseous fuel	0.0075	LB/MMBTU	
AK-0088	LIQUEFACTION PLANT	7/7/2022	Six Simle Cycle Gas-Fired Turbines	1113	MMBtu/hr	Good combustion practices and burning clean fuel (natural gas)	0.007	LB/MMBTU	3-HOURS
MI-0454	LBWL-ERICKSON STATION	12/20/2022	EUCTGSC1--A nominally rated 667 MMBTU/H natural gas-fired simple cycle CTG	667	MMBTU/H	Pipeline quality natural gas, inlet air conditioning and good combustion practices.	4.5	LB/H	HOURLY
LA-0324	COMMONWEALTH LNG FACILITY	3/28/2023	Refrgeration Turbines and Generator Turbines (EQT0001 - EQT0006 and EQT0013 - EQT0015)	575	mm btu/hr	Good combustion practices.	0.0183	LB/MM BTU	
TX-0975	FREESTONE PEAKERS PLANT	6/13/2024	Simple Cycle Gas Turbines	221	MW	Good combustion practices	0		

RBLC Entries for PM2.5 from Simple Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
TX-0986	JACK COUNTY GENERATION FACILITY	12/27/2024	COMBUSTION TURBINES	180.2	MW	Pipeline quality natural gas and good combustion practices are used, which meets Tier I BACT. The turbines are proposed to meet 0.0075 lb/MMBtu total particulate matter. It is assumed that emissions of PM2.5 are equal to PM10, which are equal to total PM. No technically feasible post-combustion control technologies are available to reduce particulate matter emissions from gas turbines due to the large amount of excess air inherent to the turbine operation and would create an unacceptable amount of backpressure.	0		
IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	3/31/2025	Four GE 7FA.05 simple cycle combustion turbines	240	MW Each	good combustion practices and low sulfur fuel content.	0.0031	LB	MMBTU NG STEADY STATE

RBLC Entries for VOC from Simple Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
NY-0103	CRICKET VALLEY ENERGY CENTER	2/3/2016	Turbines and duct burners	228	mw	good combustion practices and oxidation catalyst	0.7	PPMVD @ 15% O2	1 H
LA-0307	MAGNOLIA LNG FACILITY	3/21/2016	Gas Turbines (8 units)	333	mm btu/hr	good combustion practices and fueled by natural gas	0		
TX-0788	NECHES STATION	3/24/2016	Large Combustion Turbines > 25 MW	232	MW	good combustion practices	2	PPM	
TX-0794	HILL COUNTY GENERATING FACILITY	4/7/2016	Simple Cycle Turbine	171	MW	combustor designed for complete combustion and therefore minimizes emissions	3.3	LB/H	
TX-0794	HILL COUNTY GENERATING FACILITY	4/7/2016	Simple cycle turbine	171	MW	Premixing of fuel and air enhances combustion efficiency and minimizes emissions.	5.4	LB/H	
NJ-0086	BAYONNNE ENERGY CENTER	8/26/2016	Simple Cycle Stationary Turbines firing Natural gas	2143980	MMBTU/YR	Add-on VOC control is Oxidation Catalyst, and use of natural gas as fuel for pollution prevention	2	PPMVD@15%O2	3 H ROLLING AV BASED ON ONE H BLOCK AV
NJ-0086	BAYONNNE ENERGY CENTER	8/26/2016	Simple Cycle Stationary Turbines firing Ultra Low Sulfur Distillate Oil	720	H/YR	Oxidation catalyst	4.5	PPMVD@15%O2	3 H ROLLING AV BASED ON ONE H BLOCK AV
CA-1238	PUENTE POWER	10/13/2016	Gas turbine	262	MW		2	PPMVD AS METHANE	1 HOUR@15%O2
TX-0816	CORPUS CHRISTI LIQUEFACTION	2/14/2017	Refrigeration compressor turbines	40000	HP	Good combustion practices	0.68	LB/H	
LA-0316	CAMERON LNG FACILITY	2/17/2017	Gas turbines (9 units)	1069	mm btu/hr	good combustion practices and fueled by natural gas	1.6	PPMVD	@15%O2
IN-0261	VERMILLION GENERATING STATION	2/28/2017	SIMPLE CYCLE, NATURAL GAS FIRED COMBUSTION TURBINES	80	MW	GOOD COMBUSTION PRACTICES	17.6	LB/H	EACH TURBINE
TX-0819	GAINES COUNTY POWER PLANT	4/28/2017	Simple Cycle Turbine	227.5	MW	Pipeline quality natural gas; limited hours; good combustion practices	2	PPMVD	145% O2
TX-0833	JACKSON COUNTY GENERATORS	1/26/2018	Combustion Turbines MSS	0		Minimizing duration of startup/shutdown, using good air pollution control practices and safe operating practices.	0.06	TON/YR	
TX-0833	JACKSON COUNTY GENERATORS	1/26/2018	Combustion Turbines	920	MW	Good combustion practices	2	PPMVD	
*LA-0327	WASHINGTON PARISH ENERGY CENTER	5/23/2018	CTG01 CO - Simple-Cycle Combustion Turbine 1 (Commissioning) [SCN0005]	2201	MM BTU/hr	Good combustion practices & use of pipeline quality natural gas	0		
*LA-0327	WASHINGTON PARISH ENERGY CENTER	5/23/2018	CTG02 CO - Simple-Cycle Combustion Turbine 2 (Commissioning) [SCN0006]	2201	MM BTU/hr	Good combustion practices & use of pipeline quality natural gas	0		
*LA-0327	WASHINGTON PARISH ENERGY CENTER	5/23/2018	CTG01 SUSD - Simple-Cycle Combustion Turbine 1 (Startup/Shutdown/ Maintenance/Tuning/Runback) [EQT0019]	2201	MM BTU/hR	Good combustion practices & use of pipeline quality natural gas	0		
*LA-0327	WASHINGTON PARISH ENERGY CENTER	5/23/2018	CTG02 SUSD - Simple-Cycle Combustion Turbine 2 (Startup/Shutdown/ Maintenance/Tuning/Runback) [EQT0020]	2201	MM BTU/hr	Good combustion practices & use of pipeline quality natural gas	0		
*LA-0327	WASHINGTON PARISH ENERGY CENTER	5/23/2018	CTG01 NO - Simple-Cycle Combustion Turbine 1 (Normal Operations) [EQT0017]	2201	MM BTU/hr	Good combustion practices & use of pipeline quality natural gas	0		
*LA-0327	WASHINGTON PARISH ENERGY CENTER	5/23/2018	CTG02 NO - Simple-Cycle Combustion Turbine 2 (Normal Operations) [EQT0018]	2201	MM BTU/hr	Good combustion practices & use of pipeline quality natural gas	0		
LA-0349	DRIFTWOOD LNG FACILITY	7/10/2018	Compressor Turbines (20)	540	mm btu/hr	Good Combustion Practices and Use of low sulfur facility fuel gas	0.002	LB/MM BTU	HHV
LA-0331	CALCASIEU PASS LNG PROJECT	9/21/2018	Simple Cycle Combustion Turbines (SCCT1 to SCCT3)	927	MM BTU/h	Proper Equipment Design, Proper Operation, and Good Combustion Practices.	1.4	PPMV	3 HOUR AVERAGE
LA-0331	CALCASIEU PASS LNG PROJECT	9/21/2018	Aeroderivative Simple Cycle Combustion Turbine	263	MM BTU/h	Proper Equipment Design, Proper Operation, and Good Combustion Practices.	1.5	PPMV	3 HOUR AVERAGE
TX-0851	RIO BRAVO PIPELINE FACILITY	12/17/2018	Refrigeration Compression Turbines	967	MMBTU/HR	Good combustion practices	2	PPMVD	15% O2
MI-0441	LBWL--ERICKSON STATION	12/21/2018	EUCTGSC1-A nominally rated 667 MMBTU/hr natural gas-fired simple cycle CTG	667	MMBTU/H	Good combustion practices.	5	LB/H	HOURLY EXCEPT DURING STARTUP/SHUTDOWN
AK-0085	GAS TREATMENT PLANT	8/13/2020	Six (6) Simple Cycle Gas-Turbines (Power Generation)	386	MMBtu/hr	Good Combustion Practices and burning clean fuels (NG)	0.0022	LB/MMBTU	3-HOUR AVERAGE
LA-0383	LAKE CHARLES LNG EXPORT TERMINAL	9/3/2020	Turbines (EQT0020 - EQT0031)	0		Good combustion practices	0		
MI-0447	LBWL--ERICKSON STATION	1/7/2021	EUCTGSC1-natural gas fired simple cycle CTG	667	MMBTU/H	Good combustion practices	5	LB/H	HOURLY; EXCEPT DURING STARTUP/SHUTDOWN

RBLC Entries for VOC from Simple Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
TX-0933	NACERO PENWELL FACILITY	11/17/2021	TURBINE	0		Oxidization catalyst, good combustion practices and the use of gaseous fuel	1.7	PPMVD	
AK-0088	LIQUEFACTION PLANT	7/7/2022	Six Simle Cycle Gas-Fired Turbines	1113	MMBtu/hr	Oxidation catalyst and good combustion practices	2	PPMV @ 15% O2	3-HOURS
MI-0454	LBWL-ERICKSON STATION	12/20/2022	EUCTGSC1--A nominally rated 667 MMBTU/H natural gas-fired simple cycle CTG	667	MMBTU/H	Good combustion practices.	5	LB/H	HOURLY EXCEPT DURING SU/SD
LA-0324	COMMONWEALTH LNG FACILITY	3/28/2023	Refrgeration Turbines and Generator Turbines (EQT0001 - EQT0006 and EQT0013 - EQT0015)	575	mm btu/hr	Good combustion practices and use of clean fuel.	3	PPMVD	@15% O2
TX-0975	FREESTONE PEAKERS PLANT	6/13/2024	Simple Cycle Gas Turbines	221	MW	Good combustion practices	2	PPMVD	15% O2
TX-0986	JACK COUNTY GENERATION FACILITY	12/27/2024	COMBUSTION TURBINES	180.2	MW	Each turbine is limited to 2 ppmvd at 15% O2, which meets Tier I BACT. Good combustion practices are used. MSS - Limited to 50 startups and 50 shutdowns per year for each turbine. Startup and shutdown events are each expected to last less than an hour in duration.	2	PPMVD	15% O2
*TX-0989	LONE STAR POWER STATION	3/17/2025	Simple Cycle Gas Turbines	0		Oxidation catalyst and good combustion practices	1	PPMVD	15% O2 3-HR
IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	3/31/2025	Four GE 7FA.05 simple cycle combustion turbines	240	MW Each	CLEAN FUELS AND GOOD COMBUSTION PRACTICES	1.4	PPMVD	@ 15% O2 (NG) STEADY STATE OPERATIONS

RBLC Entries for GHG from Simple Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
NY-0103	CRICKET VALLEY ENERGY CENTER	2/3/2016	Turbines and duct burners	228	mw	max heat rate 7,604 btu/kw-h HHV without duct firing good combustion practice and burning natural gas	0		
LA-0307	MAGNOLIA LNG FACILITY	3/21/2016	Gas Turbines (8 units)	333	mm btu/hr	good combustion/operating/maintenance practices and fueled by natural gas; use intake air chiller	0		
TX-0788	NECHES STATION	3/24/2016	Large Combustion Turbines > 25 MW	232	MW	good combustion practiceS	1341	LB/MW H	
TX-0794	HILL COUNTY GENERATING FACILITY	4/7/2016	Simple cycle turbine	171	MW		1434	LB/MWH	
TX-0794	HILL COUNTY GENERATING FACILITY	4/7/2016	Simple Cycle Turbine	171	MW		1434	LB/MWH	
NY-0106	GREENIDGE STATION	9/7/2016	Turbine - natural gas	107	MW		130.17	LB/MMBTU	1 H
IL-0121	INVENERGY NELSON EXPANSION LLC	9/27/2016	Two Simple Cycle Combustion Turbines	190	MW	Turbine-generator design and proper operation	0		
VA-0326	DOSWELL ENERGY CENTER	10/4/2016	Two (2) GE 7FA simple cycle combustion turbines	1961	MMBTU/HR	Good combustion, maintenance and use of active combustion dynamic monitoring systems.	0		
IN-0264	MONTPELIER GENERATING STATION	1/6/2017	PRATT & TWIN-PAC SIMPLE CYCLE TURBINES	270.9	MMBTU/H	NATURAL GAS AS PRIMARY FUEL; GOOD COMBUSTION PRACTICES	118	LB/MMBTU	FOR NATURAL GAS
WV-0026	WAVERLY FACILITY	1/23/2017	GE Model 7FA Turbine	1571	mmbtu/hr	Use of Natural Gas, Selection of GE7FA	1300	LB/MW-HR	NATURAL GAS
TX-0816	CORPUS CHRISTI LIQUEFACTION	2/14/2017	Refrigeration compressor turbines	40000	HP		1793574	T/YR	
LA-0316	CAMERON LNG FACILITY	2/17/2017	Gas turbines (9 units)	1069	mm btu/hr	good combustion practices and fueled by natural gas; Use high thermal efficiency turbines	0		
TX-0819	GAINES COUNTY POWER PLANT	4/28/2017	Simple Cycle Turbine	227.5	MW	Pipeline quality natural gas; limited hours; good combustion practices	1300	LB/MW H	
TX-0826	MUSTANG STATION	8/16/2017	Simple Cycle Turbine	162.8	MW	Pipeline quality natural gas and good combustion practices	120	LB/MMBTU	
WV-0028	WAVERLY POWER PLANT	3/13/2018	GE 7FA.004 Turbine	167.8	MW	Use of natural gas & use of GE 7FA.004	0		
*LA-0327	WASHINGTON PARISH ENERGY CENTER	5/23/2018	CTG01 NO - Simple-Cycle Combustion Turbine 1 (Normal Operations) [EQT0017]	2201	MM BTU/hr	Facility-wide energy efficiency measures , such as improved combustion measures, and use of pipeline quality natural gas.	50	KG/GJ	ANNUAL AVERAGE
*LA-0327	WASHINGTON PARISH ENERGY CENTER	5/23/2018	CTG02 NO - Simple-Cycle Combustion Turbine 2 (Normal Operations) [EQT0018]	2201	MM BTU/hr	Facility-wide energy efficiency measures , such as improved combustion measures, and use of pipeline quality natural gas.	50	KG/GJ	ANNUAL AVERAGE
*LA-0327	WASHINGTON PARISH ENERGY CENTER	5/23/2018	CTG01 SUSD - Simple-Cycle Combustion Turbine 1 (Startup/Shutdown/ Maintenance/Tuning/Runback) [EQT0019]	2201	MM BTU/hR	Facility-wide energy efficiency measures , such as improved combustion measures, and use of pipeline quality natural gas.	120	LB/MM BTU	ANNUAL AVERAGE
*LA-0327	WASHINGTON PARISH ENERGY CENTER	5/23/2018	CTG02 SUSD - Simple-Cycle Combustion Turbine 2 (Startup/Shutdown/ Maintenance/Tuning/Runback) [EQT0020]	2201	MM BTU/hr	Facility-wide energy efficiency measures , such as improved combustion measures, and use of pipeline quality natural gas.	120	LB/MM BTU	ANNUAL AVERAGE
LA-0349	DRIFTWOOD LNG FACILITY	7/10/2018	Compressor Turbines (20)	540	mm btu/hr	Use Low Carbon Fuel, Energy Efficiency Measures, and Good Combustion Practices	0		
LA-0331	CALCASIEU PASS LNG PROJECT	9/21/2018	Aeroderivative Simple Cycle Combustion Turbine	263	MM BTU/h	Combust low carbon fuel gas, good combustion practices, good operation and maintenance practices and insulation.	134907	T/YR	ANNUAL TOTAL
LA-0331	CALCASIEU PASS LNG PROJECT	9/21/2018	Simple Cycle Combustion Turbines (SCCT1 to SCCT3)	927	MM BTU/h	Exclusively combust low carbon fuel gas, good combustion practices, good operation and maintenance practices, and insulation	1426146	T/YR	ANNUAL TOTAL
TX-0851	RIO BRAVO PIPELINE FACILITY	12/17/2018	Refrigeration Compression Turbines	967	MMBTU/HR	Good combustion practices and use of pipeline quality natural gas.	0		
AK-0085	GAS TREATMENT PLANT	8/13/2020	Six (6) Simple Cycle Gas-Turbines (Power Generation)	386	MMBtu/hr	Good combustion practices and clean burning fuel (NG)	117.1	LB/MMBTU	3-HOUR AVERAGE
TX-0900	ECTOR COUNTY ENERGY CENTER	8/17/2020	Simple Cycle Turbines	0		Best management practices and good combustion practices, clean fuel	1514	LB/MWHR	
LA-0383	LAKE CHARLES LNG EXPORT TERMINAL	9/3/2020	Turbines (EQT0020 - EQT0031)	0		Low carbon fuels Energy efficient designs and operation	0		
AL-0329	COLBERT COMBUSTION TURBINE PLANT	9/21/2021	Three 229 MW Simple Cycle Combustion Turbines	229	MW		120	LB/MMBTU	
TX-0933	NACERO PENWELL FACILITY	11/17/2021	TURBINE	0		good combustion practices and the use of gaseous fuel	0		
AK-0088	LIQUEFACTION PLANT	7/7/2022	Six Simle Cycle Gas-Fired Turbines	1113	MMBtu/hr	Good combustion practices and burning clean fuels (natural gas)	117.1	LB/MMBTU	3-HOURS
*TN-0187	TENNESSEE VALLEY AUTHORITY - JOHNSONVILLE COMBUSTION TURBINE	8/31/2022	Ten Simple Cycle NG Turbines	465.8	MMBtu/hr	Efficient turbine operation and good combustion practices	120	LB/MMBTU	

RBLC Entries for GHG from Simple Cycle Turbines

RBLC ID	Facility Name	Permit Issuance Date	Process Name	Throughput	Throughput Unit	Control Method Description	Limit No. 1	Emissions Limit Unit	Emissions Limit Averaging Time
MI-0454	LBWL-ERICKSON STATION	12/20/2022	EUCTGSC1--A nominally rated 667 MMBTU/H natural gas-fired simple cycle CTG	667	MMBTU/H	Low carbon fuel (pipeline quality natural gas), good combustion practices, and energy efficiency measures.	318404	T/YR	12-MO ROLLING TIME PERIOD
TX-0975	FREESTONE PEAKERS PLANT	6/13/2024	Simple Cycle Gas Turbines	221	MW	Good combustion practices	800	LB/MWH	BASE LOAD
TX-0986	JACK COUNTY GENERATION FACILITY	12/27/2024	COMBUSTION TURBINES	180.2	MW	JCP proposes an output-based standard of 1,400 lb/MW-hr on an annual average, or an input-based standard of 120 lb CO2/MMBtu on an annual average, achieved through energy efficient design and use of low carbon fuels. As stated above, the gas turbines are not subject to 40 CFR 60 Subpart TTTT or 40 CFR 60 Subpart TTTTa, which would require more stringent CO2e emission standards. An RBLC search was conducted to evaluate the applicant-proposed BACT, which showed that previous determinations for natural gas fired simple cycle turbines were between 800 and 1,707 lb/MW-hr, with most in the range of 1,300 and 1,450 lb/MW-hr.	0		
IN-0384	SYCAMORE RIVERSIDE ENERGY LLC	3/31/2025	Four GE 7FA.05 simple cycle combustion turbines	240	MW Each	GOOD COMBUSTION PRACTICES	15420	BTU	KWH

Appendix E Modeling Protocol

Air Quality Analysis Protocol

Nexus Data Center, Hubbard, Texas

Nexus Hubbard Power, LLC

880 State Highway 171, Hubbard, TX 76648-2847

Prepared by:

SLR International Corporation

14011 Park Drive, Suite 100, Tomball, Texas, 77377

SLR Project No.: 120.021834.00001

February 13, 2026

Revision: 00

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Appendices

Appendix A Source Data and Emissions

Acronyms and Abbreviations

ADMT	TCEQ air dispersion modeling team
AOI	Area of influence
APAD	Air Permits Allowable Database
AQA	Air quality analysis
AQS	USEPA Air Quality System
ARM2	Ambient ratio method 2
CO	Carbon monoxide
CO_2	Carbon dioxide
GEP	Good Engineering Practice
GHG	Greenhouse Gas
H_2S	Hydrogen sulfide
H2SO4	Sulfuric acid
HAP	Hazardous air pollutant
IRD	TCEQ Information Resource Division
K	Kelvin
km	Kilometers
m	Meter
m/s	Meters per second
MERP	Modeled Emission Rate for Precursor
NAAQS	National Ambient Air Quality Standards
NAD83	North American Datum 1983
NED	National Elevation Dataset
NLCD	National Land Cover Data
NO	Nitrogen oxide
NO_2	Nitrogen dioxide
NO_X	Nitrogen oxides
NSR	New Source Review
NWS	National Weather Service
O_3	Ozone
OLM	Ozone limiting method
$PM_{2.5}$	Particulate matter with an aerodynamic diameter less than 2.5 microns
PM_{10}	Particulate matter with an aerodynamic diameter less than 10 microns
PSD	Prevention of Significant Deterioration

PVMRM	Plume volume molar ration method
SIL	Significant impact level
SO_2	Sulfur dioxide
TCEQ	Texas Commission on Environmental Quality
tpy	Tons per year
USEPA	U.S. Environmental Protection Agency
USGS	United States Geological Survey
UTM	Universal Transverse Mercator



1.0 Introduction

1.1 Overview

Nexus Data Centers (Nexus) is proposing to construct a data center in Hubbard, Texas. The Site features its own dedicated power generation, ensuring reliable and independent energy supply. Power generation includes natural gas-fired combustion turbines and natural gas-fired reciprocating engines. Support systems on site include emergency generator engines. The design incorporates advanced cooling technologies such as chilled water loops, ensuring thermal efficiency and resilience under high computational loads. The Site's power generation will be used onsite and will not sell electricity.

Based on preliminary emissions estimates, the data center will be considered a major source and thus must be permitted through the Major New Source Review (NSR) program contained Title I of the Federal Clean Air Act. The proposed facility is located in Hill County, Texas. Per 40 C.F.R. 81.344, the attainment status for Hill County is classified as attainment or unclassifiable for all pollutants. Therefore, the data center will be permitted through the major NSR program for areas in attainment called the Prevention of Significant Deterioration (PSD) program. **Figure 1-1** provides an area map for the facility. The figure includes a 3,000 foot (ft) and one mile radius around the proposed facility. There are no schools located within 3,000 ft of the proposed facility.

1.2 PSD Applicability and Requirements

Based on preliminary emission estimates, the proposed facility will undergo PSD review for carbon monoxide (CO), nitrogen oxides (NO_x), particulate matter less than 10 micrometers (µm) in diameter (PM_{10}) and less than 2.5 µm in diameter ($PM_{2.5}$), sulfur dioxide (SO_2), volatile organic compounds (VOC), and greenhouse gases (GHG). As part of the PSD permitting process, the applicant must demonstrate that the proposed action does not cause or contribute to a violation of the National Ambient Air Quality Standards (NAAQS) or PSD increments and will be protective of public health, general welfare, and physical property. This demonstration, termed as the PSD Air Quality Analysis (AQA), is an evaluation of the potential impact on the environment associated with increased emissions from a new or modified facility. Note that evaluation of VOCs will be conducted via an analysis of ozone (O_3) and no AQA is required for GHGs. The applicable NAAQS, and Class II PSD increments are presented in **Table 1-1**.

The AQA consists of the following analyses:

- NAAQS analysis
- PSD increment analysis
- State property line standard analysis
- State health effects analysis
- Pre-application analysis
- Additional impacts analysis
- Class I Area analysis

This protocol defines the regulatory framework and technical methods to be used for the AQA to support the PSD permit application. The intent of this protocol is to provide the Texas Commission on Environmental Quality (TCEQ) and U.S. Environmental Protection Agency (USEPA) with a description of the proposed dispersion modeling methodology and ambient monitoring data prior

to submitting the application. The dispersion modeling analysis will be conducted in accordance with guidance provided by TCEQ and the EPA as outlined in the following documents:

- TCEQ Air Permits Division Air Quality Modeling Guidelines APDG 6232 (TCEQ 2025) hereafter referred to as TCEQ Modeling Guideline

- Guideline on Air Quality Models; Enhancements to the AERMOD Dispersion Modeling System [published as 40 CFR 51, Appendix W] (USEPA 2024) hereafter referred to as Appendix W

Figure 1-1 Area Map



Table 1-1 Applicable Air Quality Standards and Thresholds

Pollutant	Averaging period	NAAQS (µg/m³)	Class II PSD Increment (µg/m³)
CO	1-hour	40,000	--
	8-hour	10,000	--
NO_2	1-hour	188	--
	Annual	100	25
PM_{10}	24-hour	150	30
	Annual	--	17
$PM_{2.5}$	24-hour	35	9
	Annual	9	4
Ozone	8-hour	70 ppb	--
SO_2	1-hour	196	N/A
	3-hour	--	512
	24-hour	--	91
	Annual	26[1]	20

1. The SO_2 annual NAAQS is a secondary standard

2.0 Project Description

Power will be generated by an inventory of natural-gas-fired combustion turbines and engines.

Nexus has not yet finalized combustion turbine selection due to uncertainty in availability of gas-fired turbines. Nexus will secure previously manufactured combustion turbines. The permit application and modeling analysis reflect the initial turbine configuration. The combustion turbines will be installed and begin operations in phases. The Site will consist of the following:

- Six GE Frame 7F.03 Simple Cycle Turbines, which will be converted to Combined Cycle Turbines prior to the last phase of the project. As such, the worst-case potential to emit (PTE) for the project will be with all combustion turbines listed below installed and the GE Frame 7F.03 turbines converted to combined cycle;
- Four GE Frame 7F.04 combined cycle turbines;
- Seven GE Grame 7HA.01 combined cycle turbines;
- Eight GE LM6000 PC simple cycle turbines;
- Six GE LM6000 PF+ combined cycle turbines;
- 24 Everllence 18V51/60G engines;
- Six emergency generator engines;
- One ULSD storage tank;
- Lube oil recirculation systems for each combustion turbine;
- Piping components from natural gas system and aqueous ammonia; and

3.0 Dispersion Modeling Methodology

3.1 Model Selection

To meet the dispersion modeling requirements for the AQA, the current version of the American Meteorological Society/EPA Regulatory Model (AERMOD) modeling system, the EPA-preferred regulatory modeling system, will be used. AERMOD is recommended for use in modeling multi-source emissions, and can account for plume downwash, stack tip downwash, and point, area, buoyant line, and volume sources.

Current versions of the AERMOD model and pre-processors will be used. If a model version is updated prior to approval of this protocol, the newest version will be used. These include:

- AERMAP version 24142
- BPIPPRM version 04274
- AERMOD version 24142

3.2 Model Input Options

All TCEQ and EPA regulatory default dispersion options will be used.

3.2.1 Urban Source Classification

An Auer land-use analysis, as described in 40 CFR 51 Appendix W was conducted to determine whether the project area should be classified as urban. Less than 50 percent of the area within a 3-kilometer (km) radius of the facility could be classified as urban land use types I1, I2, C1, R2, or R3 (heavy industrial, light/moderate industrial, commercial, compact residential [single family], or compact residential [multi-family], respectively). Therefore, the urban option in AERMOD (URBANOPT) will not be used and the default, rural dispersion coefficients will be used in the modeling analysis.

3.2.2 NO_2 Model Option

Appendix W presents a three-tiered approach that may be applied to modeling NO_2 impacts:

- Tier 1 – assume 100% conversion of nitrogen oxide (NO) to NO_2
- Tier 2 – Invoke the Ambient Ratio Method 2 (ARM2) option in AERMOD, which provides representative equilibrium ratios of NO_2/NO_X based on measured ambient levels of NO_2 and NO_X derived from national data from the USEPA Air Quality System (AQS). Based on the project's NO_x impacts, a pre-defined portion of NO_x is converted to NO_2
- Tier 3 – The ozone limiting method (OLM), the plume volume molar ratio method (PVMRM), or the Generic Reaction Set Method (GRSM) as the most refined screening technique

Preliminary analyses show that the Tier 2, ARM2 option run in regulatory mode with a 0.9 and 0.5 upper and lower ratio limits will be sufficient to show compliance with the NO_2 NAAQS. However, if a Tier 3 option becomes necessary to show compliance, Nexus will consult with TCEQ modeling staff to develop the necessary data.

3.3 Meteorological Data

Hourly meteorological data used for air quality modeling must be spatially and climatologically representative of the area of interest. Appendix W recommends a minimum of one year of site-specific meteorological data or five consecutive years from the most recent, readily available data collected at a representative National Weather Service (NWS) station. Required surface meteorological data inputs to the AERMOD meteorological processor (AERMET) include, at minimum, hourly observations of wind speed, wind direction, temperature, and cloud cover (or solar radiation and low-level vertical temperature difference data in lieu of cloud cover). The meteorological processor also requires morning upper air sounding data from a representative NWS station.

TCEQ provides pre-processed meteorological data available for download at the *Meteorological Data for Refined Screening with AERMOD* website[1]. Since the proposed project is located in Hill County, TCEQ recommends the dataset with surface data from Waco Regional Airport (WBAN 13959) for 2017 – 2021 with concurrent upper air data from Fort Worth (WBAN 3990).

Meteorological datasets are processed by TCEQ using three surface roughness categories, low, medium and high, corresponding to the following length ranges:

- Low – 0.001 meters (m) to 0.1 m
- Medium – 0.1 m to 0.7 m
- High – 0.7 m to 1.5 m

The surface roughness then needs to be developed for the project area to determine which surface roughness category is appropriate for the project area. The AERMOD Implementation Guide (AIG; USEPA, 2024a) recommends that the surface characteristics be determined based on digitized land cover data using the latest version of the EPA land use processor, AERSURFACE (version 24042). The current version of AERSURFACE supports the use land cover data from the United States Geological Survey (USGS) National Land Cover Data (NLCD) archive for various years from 1992 through 2024. The NLCD2021 dataset is the most recent that includes imperviousness or tree canopy data and was used in the processing of surface characteristics. AERSURFACE was used to calculate the average surface characteristics for a 1-km radius around the proposed facility location. The resultant surface roughness was determined to be 0.078 m. Therefore, the meteorological dataset processed with low surface roughness will be used in the modeling.

3.4 Receptor Network and Ambient Air Boundary

The receptor grid will be designed in accordance with TCEQ receptor grid design criteria provided in Appendix M of the TCEQ Modeling Guideline to determine the maximum predicted ground-level concentration at offsite (ambient air) locations. Cartesian receptor grids will be centered on the plant and defined using Universal Transverse Mercator (UTM) Zone 14 NAD83 coordinates. The grids are designed to accurately resolve the highest predicted pollutant impacts while at the same time minimizing model execution time. The ambient air boundary is defined by a fence surrounding the proposed facility. The grids consist of a set of nested receptors placed at:

- Tight receptors: 25-meter resolution along and extending from the facility's ambient air boundary out to 250 meters.

[1] https://www.tceq.texas.gov/permitting/air/modeling/aermod-datasets.html

- Fine receptors: 100-meter resolution from the extent of the tight receptor grid to 1,000 meters from the facility's ambient air boundary.
- Medium receptors: 500-meter resolution from the extent of the fine receptor grid to 5,000 meters from the facility's ambient air boundary.
- Coarse receptors: 1,000-meter resolution from the extent of the medium receptor grid to 50 kilometers from the facility's ambient air boundary.

Receptor elevations and hill height scales will be obtained using the AERMAP terrain processor. The digital terrain dataset to be used as input to AERMAP is the National Elevation Dataset (NED) digital terrain data at 1/3 arc-second resolution, which is equivalent to approximately 10 m in the project area.

All AERMAP input and output files will be included in the model file archive submitted with the application. **Figure 3-1** shows a far-field view of the receptors while **Figure 3-2** shows a near-field view of the receptors and the ambient air boundary.

Figure 3-1 Far-Field View of the Receptors

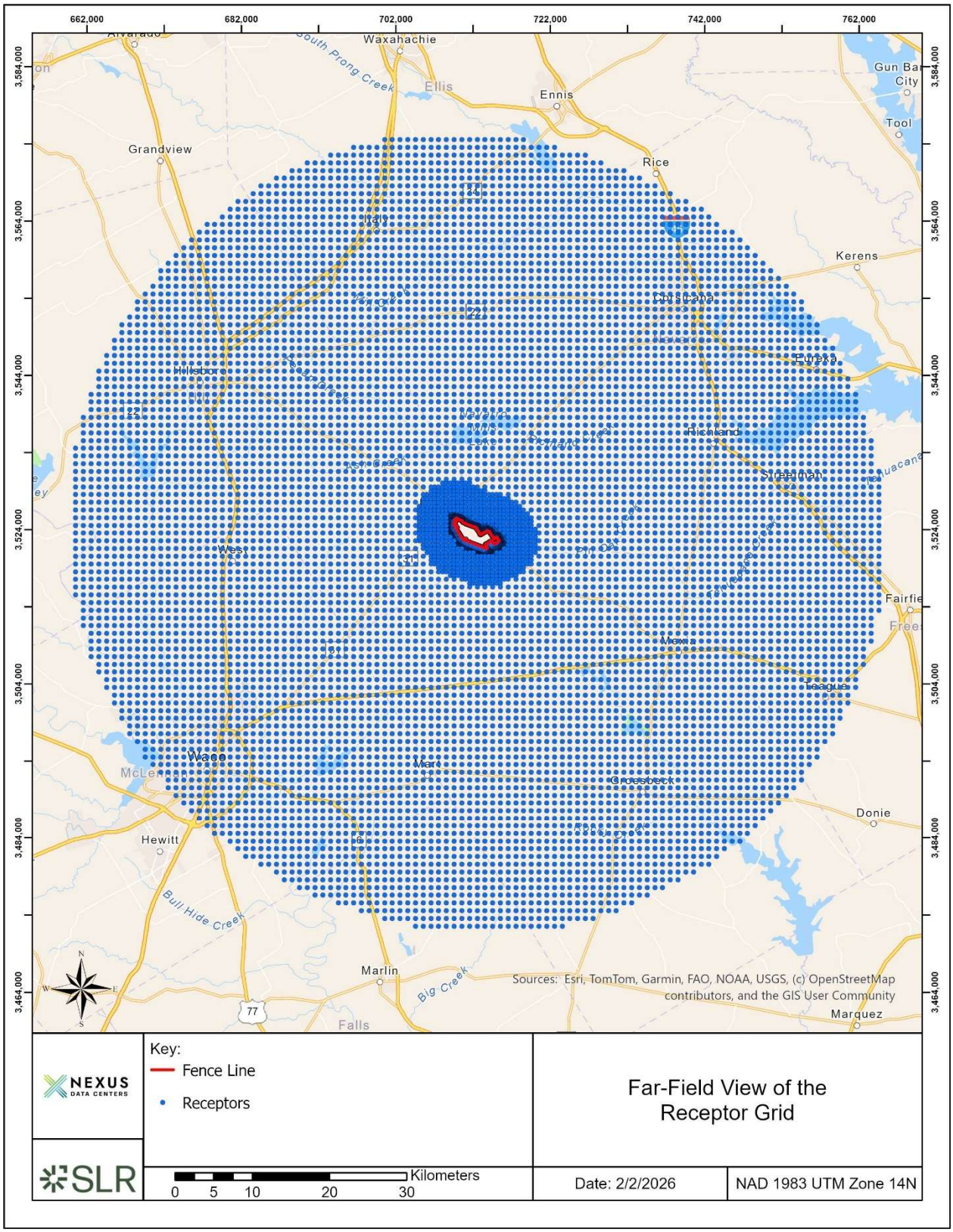
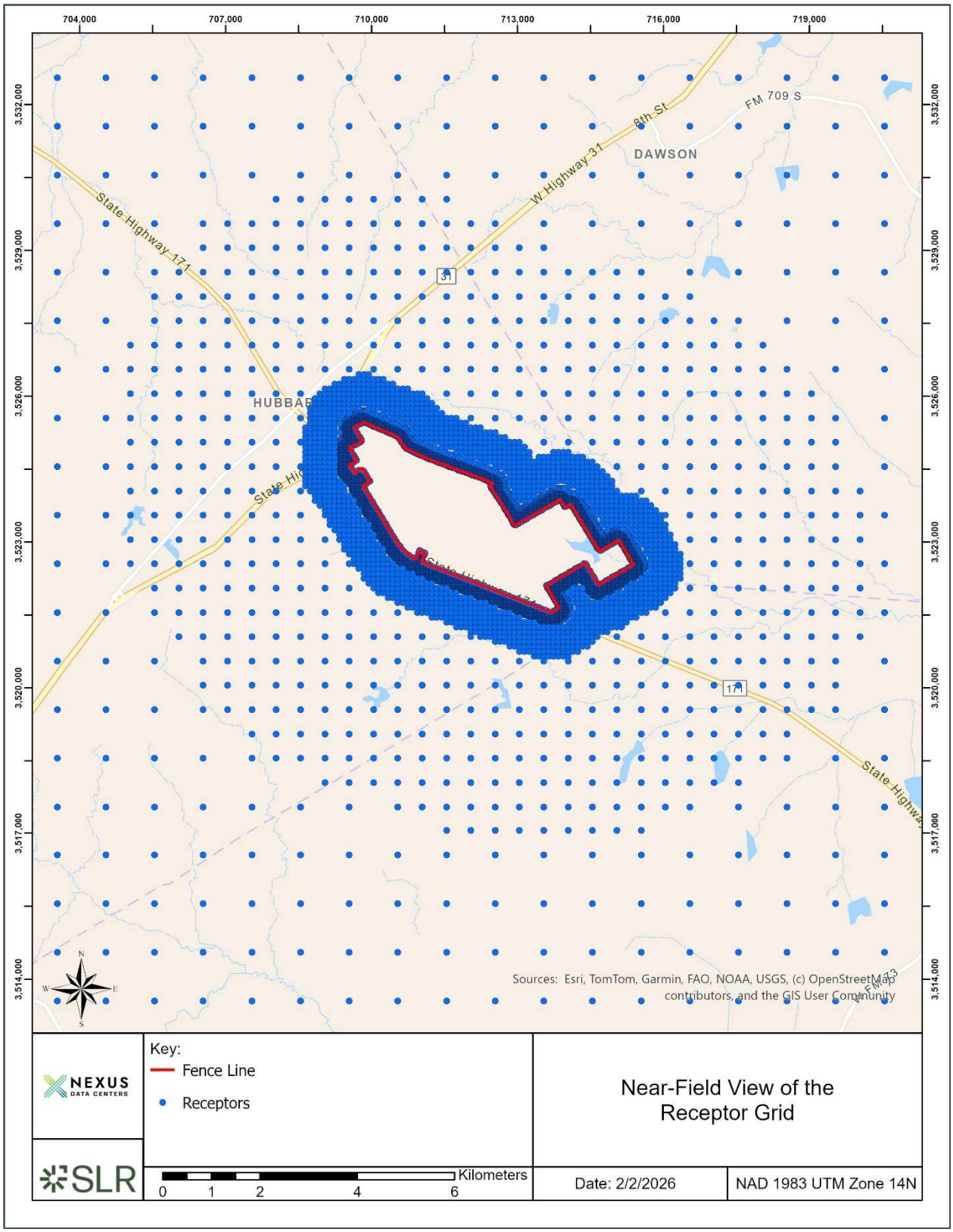


Figure 3-2 Near-Field View of the Receptors and the Ambient Air Boundary



3.5 Emission Source Inventory

The Nexus emission source inventory consists of new project sources associated with onsite natural gas power generation and ancillary equipment to support data center operations. All emission units have vertical stacks and thus will be characterized as POINT sources in the modeling analysis.

The worst-case potential to emit (PTE) for the project corresponds to the final buildout of the data center, when all planned combustion turbines are installed and the GE Frame 7F.03 units have been converted from simple-cycle to combined-cycle configuration. Groups of turbines and engines will be installed in defined phases throughout the project, with the conversion of the 7F.03 turbines occurring before the operation of the GC LM6000 PF+, GE Frame 7F.04, and the GE Frame 7HA.01 turbines. Because the conversion of the 7F.03 turbines to combined cycle will take place prior to the operation of these turbines, the maximum PTE is represented by this fully built and upgraded configuration of generation equipment.

Two modeling scenarios will be evaluated. The first, pre-conversion scenario will conservatively consist of the following:

- Six (6) GE Frame 7F.03 Simple Cycle gas turbines
  - 171 Mega Watts (MW) per turbine (total capacity of 1,026 MW)
  - Continuous operation (8,760 hours per year)
- Four (4) GE Frame 7F.04 Combined Cycle gas turbines
  - 309 MW per turbine (total capacity of 1,236 MW)
  - Continuous operation (8,424 hours per year)
- Seven (7) GE Frame 7HA.01 Combined Cycle gas turbines
  - 438 MW per turbine (total capacity of 3,066 MW)
  - Continuous operation (8,424 hours per year)
- Eight (8) GE LM6000 PC Simple Cycle gas turbines
  - 51.1 MW per turbine (total capacity of 408.8 MW)
  - Continuous operation (5,750 hours per year)
- Six (6) GE LM6000 PF+ Combined Cycle gas turbines
  - 76.2 MW per turbine (total capacity of 457.2 MW)
  - Continuous operation (8,424 hours per year)
- Twenty-four (24) Everllence 18V51/60G generators.
  - 20.286 MW per generator
  - Continuous operation (8,256 hours per year)
- Six (6) Emergency generators.
  - Emissions from the 6 generators will be routed through three exhaust stacks, with each stack serving two engines
  - Intermittently operated



The second, post-conversion scenario will consist of the same inventory except the six GE Frame 7F.03 Simple Cycle gas turbines will be replaced with GE Frame 7F.03 Combined Cycle gas turbines. The combined cycle turbine stacks will be at the same location as the simple cycle turbine stacks. Each Combined Cycle turbine will have a capacity of 262 MW for a total capacity of 1,572 MW and operate for a period of 8,424 hours per year. The post-conversion emission source configuration will otherwise be the same as listed above for the initial configuration.

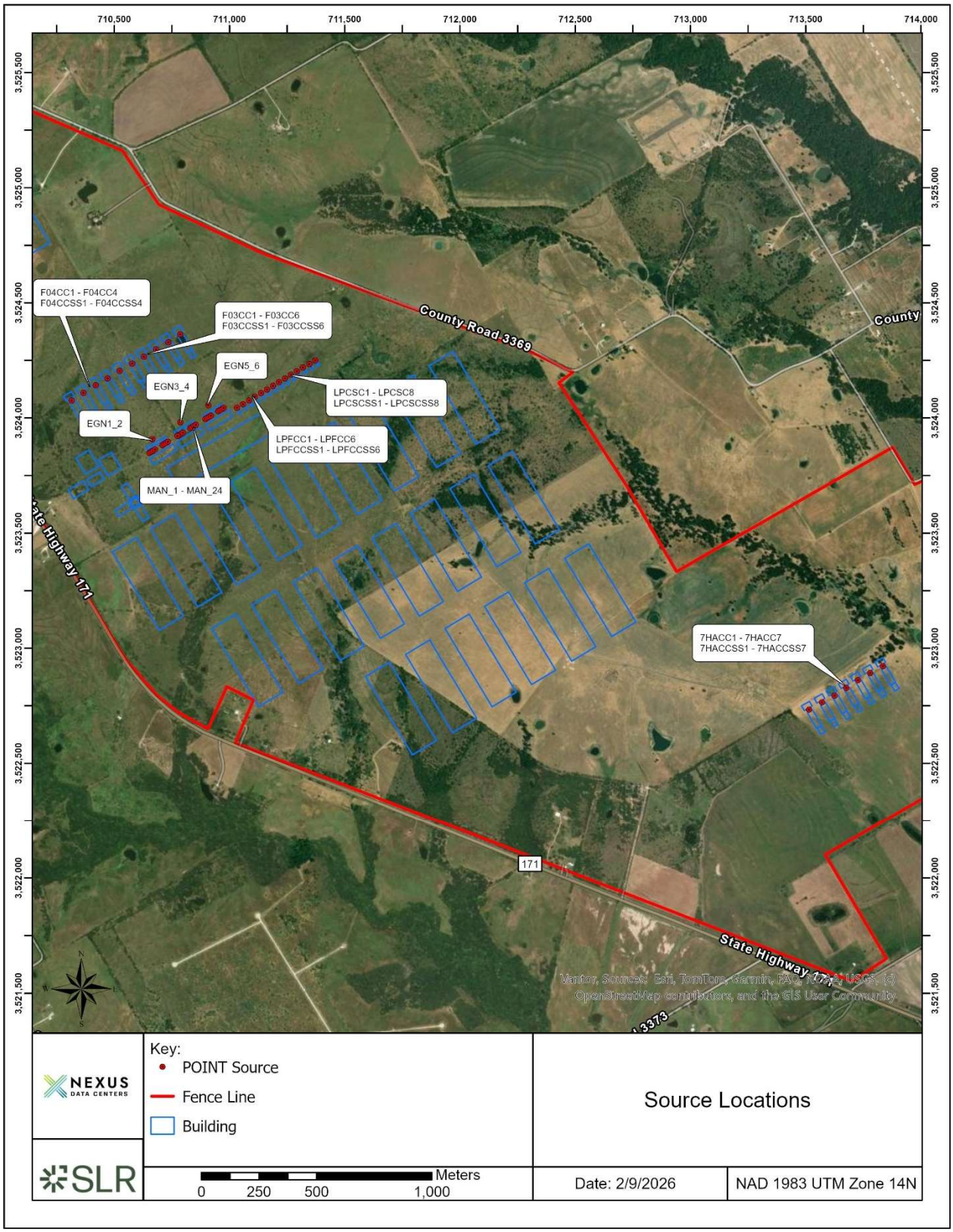
Emissions for each turbine are based on the heat input in million British thermal units per hour (MMBtu/hr) and an emission factor. NO_X and CO emission factors are dictated by the Best Available Control Technology (BACT) analysis while emission factors for SO_2, PM_{10} and $PM_{2.5}$ are based on AP-42 Section 3.1 *Stationary Gas Turbines* Table 3-1-2a. Detailed emissions calculations are provided in the permit application.

Startup/shutdown (SUSD) emissions will also be evaluated for all turbines. To be conservative, SUSD operations will be assumed to occur concurrently with normal operations. SUSD operations will be treated as intermittent and short-term NO_2 and SO_2 emissions will be scaled by the annual hours of operation to calculate an average hourly rate rather than a maximum hourly rate. This methodology is consistent with guidance recommended in the USEPA guidance memo *Additional Clarification Regarding Application of Appendix W Modeling Guidance for the 1-hour NO_2 National Ambient Air Quality Standard* (USEPA 2011) and referenced in Appendix S of the TCEQ Modeling Guidance.

The six emergency generators will exhaust through three stacks where generators 1 and 2 will share a stack, generators 3 and 4 will share a stack, and generators 5 and 6 will share a stack. The emergency generators will be considered intermittent and short-term NO_x and SO_2 emissions will be scaled by the annual hours of operation to calculate an average hourly rate rather than a maximum hourly rate. Short-term $PM_{2.5}$ emissions will be scaled by 1/24 assuming that testing and maintenance will occur for 1 hour on any given day.

Figure 3-3 shows the location of all emission sources. Preliminary source parameters and emissions for both configurations are presented in **Appendix A**.

Figure 3-3 Location of Emission Sources



3.6 Plume Downwash

The effects of plume downwash will be considered for all POINT sources, based on building locations and heights relative to facility emission POINT sources. Direction-specific downwash parameters will be calculated using the current version of the USEPA-approved Building Profile Input Program (BPIPPRM Version 04274). Location and dimensions were developed from engineering drawings. **Figure 3-4** shows the location of all POINT sources and structures to be included in the plume downwash analysis. **Table 3-1** provides the dimensions of the buildings and structures for both configurations included in the analysis. BPIPPRM input and output files will be included in the model file archive submitted electronically with the permit application.

In addition to calculating direction-specific building dimensions, the BPIPPRM program also calculates the Good Engineering Practice (GEP) stack height. The GEP stack height for each POINT source will be calculated pursuant to the USEPA's methodology to determine "the height necessary to ensure that emissions from the stack do not result in excessive concentrations of any air pollutant in the immediate vicinity of the source as a result of atmospheric downwash, eddies or wakes which may be created by the source itself, nearby structures or nearby terrain obstacles."

Per 40 CFR 51.1(ii), the GEP stack height is defined as the greater of:

- 65 meters, measured from the ground-level elevation at the base of the stack; or
- Hg = H + 1.5L, where:
    - Hg = good engineering practice stack height, measured from the ground-level elevation at the base of the stack,
    - H = height of nearby structure(s) measured from the ground-level elevation at the base for the stack,
    - L = lesser dimension of the height or projected width of nearby structures.

All facility stack heights will be checked to verify that they are within the GEP stack height limit.

Figure 3-4 POINT Sources and Buildings Included in the Building Downwash Analysis

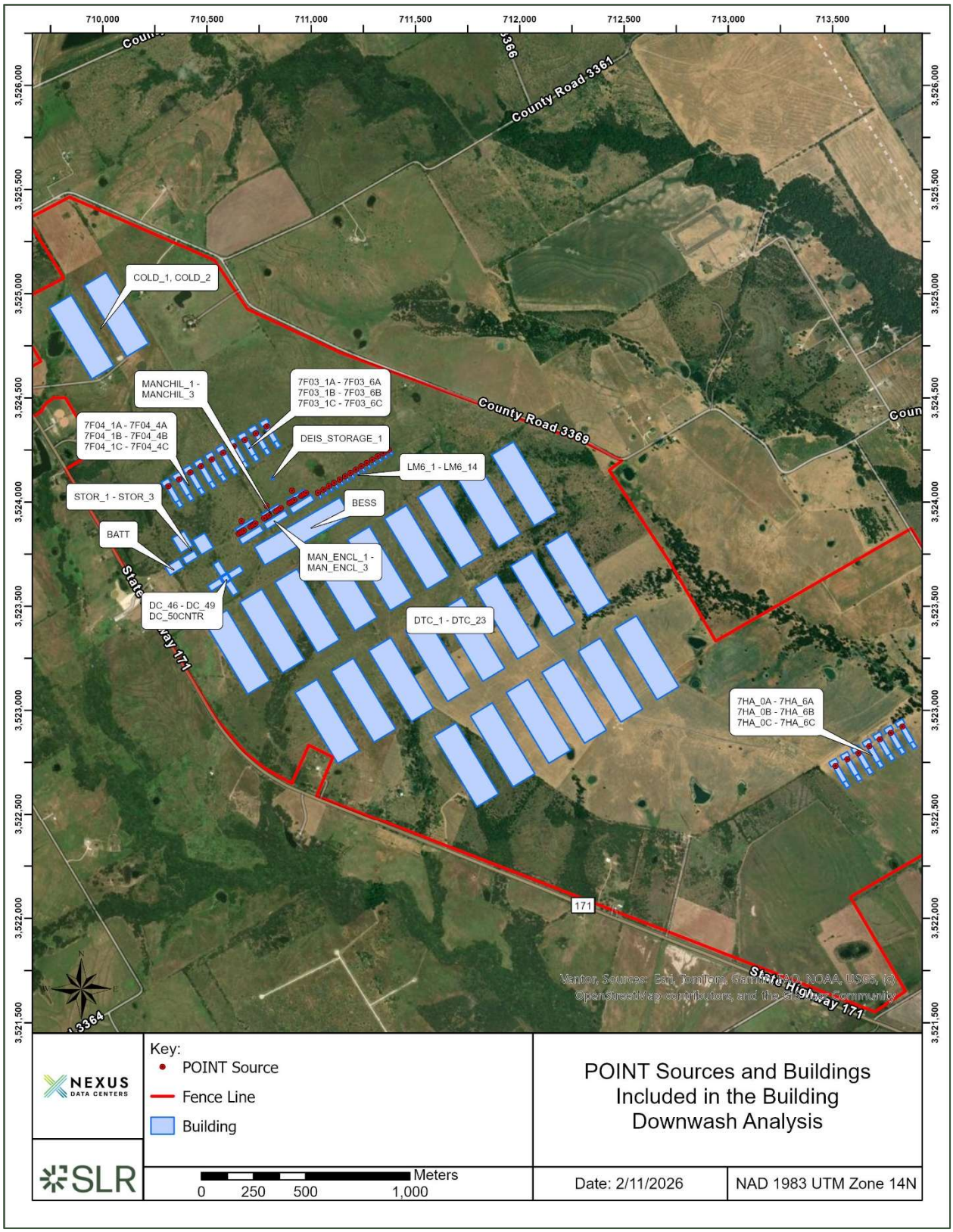


Table 3-1 Building Dimensions

ID	Tier Number	Tier Height (m)	Diameter (m)	X-Length (m)	Y-Length (m)
DEIS_STORAGE_1	1	9.21	15.01	--	--
7F04_1A	1	25.00	--	23.78	39.62
7F04_1B	1	25.00	--	23.45	31.40
7F04_1C	1	25.00	--	25.00	78.00
7F04_2A	1	25.00	--	23.76	39.63
7F04_2B	1	25.00	--	23.45	31.40
7F04_2C	1	25.00	--	25.00	78.00
7F04_3A	1	25.00	--	23.76	39.62
7F04_3B	1	25.00	--	23.45	31.40
7F04_3C	1	25.00	--	25.00	78.00
7F04_4A	1	25.00	--	23.76	39.62
7F04_4B	1	25.00	--	23.45	31.40
7F04_4C	1	25.00	--	25.00	78.00
7F03_1A	1	25.00	--	23.76	39.62
7F03_1B	1	25.00	--	23.45	31.40
7F03_1C	1	25.00	--	25.00	78.00
7F03_2A	1	25.00	--	23.76	39.62
7F03_2B	1	25.00	--	23.45	31.40
7F03_2C	1	25.00	--	25.00	78.00
7F03_3A	1	25.00	--	23.78	39.62
7F03_3B	1	25.00	--	23.45	31.40
7F03_3C	1	25.00	--	25.00	78.00
7F03_4A	1	25.00	--	23.78	39.62
7F03_4B	1	25.00	--	23.45	31.40
7F03_4C	1	25.00	--	25.00	78.00
7F03_5A	1	25.00	--	23.78	39.62
7F03_5B	1	25.00	--	23.45	31.40
7F03_5C	1	25.00	--	25.00	78.00
7F03_6A	1	25.00	--	23.78	39.62
7F03_6B	1	25.00	--	23.45	31.40
7F03_6C	1	25.00	--	25.00	78.00
MAN_ENCL_1	1	19.81	--	31.01	120
MAN_ENCL_2	1	19.81	--	31.01	120
MAN_ENCL_3	1	19.81	--	31.01	120
7HA_1A	1	25.00	--	23.76	39.62



ID	Tier Number	Tier Height (m)	Diameter (m)	X-Length (m)	Y-Length (m)
7HA_1B	1	25.00	--	25.00	78.00
7HA_1C	1	25.00	--	23.26	30.31
7HA_2A	1	25.00	--	23.76	39.62
7HA_3A	1	25.00	--	23.76	39.63
7HA_4A	1	25.00	--	23.78	39.62
7HA_5A	1	25.00	--	23.78	39.62
7HA_2B	1	25.00	--	25.00	78.00
7HA_3B	1	25.00	--	25.00	78.00
7HA_4B	1	25.00	--	25.00	78.00
7HA_5B	1	25.00	--	25.00	78.00
7HA_3C	1	25.00	--	23.26	30.31
7HA_2C	1	25.00	--	23.26	30.31
7HA_4C	1	25.00	--	23.26	30.31
7HA_5C	1	25.00	--	23.26	30.31
LM6_1	1	15.24	--	11.00	24.00
LM6_2	1	15.24	--	10.99	23.99
LM6_3	1	15.24	--	10.99	23.99
LM6_4	1	15.24	--	10.99	23.99
LM6_5	1	15.24	--	11.00	24.00
LM6_6	1	15.24	--	11.02	23.99
LM6_7	1	15.24	--	11.00	24.00
LM6_8	1	15.24	--	11.00	23.99
LM6_9	1	15.24	--	11.00	24.00
LM6_10	1	15.24	--	11.00	24.00
LM6_11	1	15.24	--	11.00	24.00
LM6_12	1	15.24	--	11.00	24.00
LM6_13	1	15.24	--	11.00	24.00
LM6_14	1	15.24	--	10.99	24.01
MANCHIL_1	1	12.19	--	96.01	11.58
MANCHIL_2	1	12.19	--	96.02	11.58
MANCHIL_3	1	12.19	--	96.02	11.58
DTC_8	1	10.67	--	121.92	396.24
DTC_9	1	10.67	--	121.92	396.24
DTC_7	1	10.67	--	121.92	396.24
DTC_6	1	10.67	--	121.92	396.24
DTC_5	1	10.67	--	121.92	396.24



ID	Tier Number	Tier Height (m)	Diameter (m)	X-Length (m)	Y-Length (m)
DTC_4	1	10.67	--	121.92	396.24
DTC_3	1	10.67	--	121.92	396.24
DTC_2	1	10.67	--	121.92	396.24
DTC_1	1	10.67	--	121.92	396.24
DTC_10	1	10.67	--	121.92	396.24
DTC_11	1	10.67	--	121.92	396.24
DTC_12	1	10.67	--	121.92	396.24
DTC_13	1	10.67	--	121.92	396.24
DTC_14	1	10.67	--	121.92	396.24
DTC_15	1	10.67	--	121.92	396.24
DTC_16	1	10.67	--	121.92	396.24
DTC_17	1	10.67	--	121.92	396.24
DTC_19	1	10.67	--	121.92	396.24
DTC_20	1	10.67	--	121.92	396.24
DTC_21	1	10.67	--	121.92	396.24
DTC_22	1	10.67	--	121.92	396.24
DTC_18	1	10.67	--	121.92	396.24
DTC_23	1	10.67	--	121.92	396.24
BESS	1	6.10	--	472.44	100.58
DC_46	1	10.67	--	67.84	30.70
DC_47	1	10.67	--	67.84	30.70
DC_48	1	10.67	--	67.84	30.70
DC_49	1	10.67	--	67.84	30.70
DC_50CNTR	1	10.67	--	30.7	30.70
STOR_1	1	6.10	--	65.68	81.54
STOR_2	1	6.10	--	65.68	81.54
STOR_3	1	6.10	--	65.68	35.00
BATT	1	5.00	--	75.99	44.53
COLD_1	1	10.67	--	121.92	396.24
COLD_2	1	10.67	--	121.92	396.24
7HA_0A	1	25.00	--	23.76	39.62
7HA_6A	1	5.00	--	23.76	39.62
7HA_0B	1	5.00	--	25.00	78.00
7HA_6B	1	5.00	--	25.00	78.00
7HA_0C	1	5.00	--	23.26	30.31
7HA_6C	1	5.00	--	23.26	30.31



ID	Tier Number	Tier Height (m)	Diameter (m)	X-Length (m)	Y-Length (m)
Note: Several buildings are polygons and X-Y lengths were approximated using GIS software					

4.0 Modeling Analysis Procedures

4.1 Preliminary Impact Determination

A preliminary impact determination will be conducted to determine whether project impacts could potentially cause or contribute to a violation of a NAAQS or PSD increment; that is, exceed the significant impact levels (SILs). Maximum model concentrations due to project emissions will be compared to the applicable SILs for CO, NO_2, PM_{10}, $PM_{2.5}$, O_3, and SO_2. **Table 4-1** presents the relevant Class II SILs.

If the maximum modeled concentration for a pollutant and averaging period is less than the applicable SIL, then no additional analysis is required for that pollutant and averaging period. If the maximum modeled concentration is equal to or above the SIL, then a cumulative NAAQS and/or PSD increment analysis is required for that pollutant and averaging period.

The preliminary impact determination is also used to determine the area of influence (AOI) for each pollutant and averaging period. Per the TCEQ Modeling Guidance, the AOI is defined as the set of receptors at which maximum model concentrations are greater than the Class II area SILs. AOI receptors will be defined for each pollutant and averaging period that requires a cumulative analysis.

Table 4-1 Class II Significant Impact Levels

Pollutant	Averaging Period	Class II SIL ($\mu g/m^3$)
CO	1-hour	2,000
	8-hour	500
NO_2	1-hour	7.5
	Annual	1
PM_{10}	24-hour	5
	Annual	1
$PM_{2.5}$	24-hour	1.2
	Annual	0.13
SO_2	1-hour	7.8
	3-hour	25
	24-hour	5
	Annual	1

4.1.1 Analysis of Secondarily Formed O_3 and $PM_{2.5}$

The USEPA document *Guidance for Ozone and Fine Particulate Matter Permit Modeling* (USEPA 2022) was used to develop an evaluation of the potential impacts of Project-related VOC, SO_2, and NO_X emissions on the secondary formation of O_3 and $PM_{2.5}$. Project emissions were assessed using the information provided in the EPA document *Clarification on the Development of Modeled Emission Rates for Precursors (MERPs) as a Tier 1 Demonstration Tool Under the PSD Permitting* Program (USEPA 2024c).

The first step in the guidance is to compare project emissions to the MERPs. A MERP represents a level of precursor emissions that is expected to result in ambient impacts less than the applicable SIL for O_3 or $PM_{2.5}$ and is calculated as:

$$MERP = SIL\,Value \times \frac{Modeled\ emission\ rate\ from\ hypothetical\ source}{Modeled\ air\ quality\ impact\ from\ hypothetical\ source}$$

The comparison is accomplished by summing the ratios of the project emissions and the appropriate MERP for each precursor. The project emissions for the secondary impacts analysis are the increases of NO_X, SO_2, and VOC associated with the permit amendment. If the combined ratios of the precursors are greater than one hundred percent of the SIL, then significant secondary formation is possible and needs to be quantified. The comparison for a single precursor can be represented as:

$$Percent\ SIL = \left[\frac{Project\ Emissions\ (tpy)}{MERP\ (tpy)}\right] \times 100$$

where the increased project emissions are those of a single precursor and the MERP represents the associated emission rate that is expected to result in ambient impacts less than the applicable SIL.

The USEPA MERPs View Qlik website[2] was reviewed to find a source-impact relationship that is representative of the project area. Data from the hypothetical source in Parker County was chosen as most representative since it's the closest hypothetical source to the project area and the land use in the area surrounding the hypothetical source consisting of open fields (pasture, crops), small areas of forested land, and low-density populated areas is similar to the land use around the project site. Hypothetical source impact data was used assuming 3,000 tpy of NO_X, 500 tpy for VOC, and 500 tpy for SO_2. These hypothetical source emissions best represent the worst-case, post-conversion project emissions of 1,599.66 tpy of NO_X, 515.65 tpy of VOC, and 264.69 tpy of SO_2.

The data from the MERPs Qlik website used to calculate the MERPs is provided in **Table 4-2**. The data used to calculate the secondary impacts of O_3 and $PM_{2.5}$ as percent of the SIL are provided in **Table 4-3**.

[2] https://www.epa.gov/scram/merps-view-qlik



As shown in **Table 4-3,** the calculated value for O_3 is greater than 100% demonstrating that the secondary formation of O_3 from precursor pollutants could potentially cause or contribute to a violation of the NAAQS for O_3 and quantification of secondary impacts is necessary.

For daily $PM_{2.5}$, the calculated value in **Table 4-3** is greater than 100% demonstrating that the secondary formation of daily $PM_{2.5}$ from precursor pollutants could potentially cause or contribute to a violation of the NAAQS. For annual $PM_{2.5}$, the calculated values are less than 100% for annual $PM_{2.5}$ showing that secondary formation of annual $PM_{2.5}$ will not alone cause or contribute to a violation of the NAAQS. However, primary $PM_{2.5}$ impacts calculated by AERMOD must be added to secondary and total $PM_{2.5}$ is compared to the SIL.

Table 4-2 MERPs Calculation Data

Pollutant/ Averaging Period	Precursor	Modeled Emissions from Hypothetical Source (tpy)	Modeled Air Quality Impact from Hypothetical Source	Resulting MERP (tpy)
8-hour O_3	NO_x	3000	5.14 ppb	584
	VOC	500	0.16 ppb	3,216
24-hour $PM_{2.5}$	NO_x	3000	0.59 µg/m3	6,142
	SO_2	500	0.53 µg/m3	1,141
Annual $PM_{2.5}$	NO_x	3000	0.01 µg/m3	30,058
	SO_2	500	0.01 µg/m3	8,158

Table 4-3 Secondary Impacts of O_3 and $PM_{2.5}$ as Percent of the SIL

Pollutant/ Averaging Period	Precursor	Increased Project Emissions (tpy)	MERP (tpy)	Secondary Impact[1] (% SIL)
O_3	NO_x	1,599.66	584	289.9
	VOC	515.65	3,216	
24-hour $PM_{2.5}$	NO_x	1,599.66	6,142	49.2
	SO_2	264.69	1,141	
Annual $PM_{2.5}$	NO_x	1,599.66	30,058	8.6
	SO_2	264.69	8,158	

1. The secondary impact as a percentage of the SIL is based on the combined impact of the individual precursors.

The second step of the guidance allows for quantification of the secondary formation. The MERPs guidance provides methodology to calculate concentrations due to secondary impacts. Equation 2 of the MERPs guidance is given as:

$$Project\ Impact\ (\mu g \cdot m^{-3}) = Project\ emission\ rate\ (tpy) \times \frac{Modeled\ impact\ from\ hypothetical\ source\ (\mu g \cdot m^{-3})}{Modeled\ emission\ from\ hypothetical\ source\ (tpy)}$$

This methodology uses the model impacts from the photochemical modeling used to develop the MERPs to estimate project impacts. The USEPA MERPs Qlik website provides modeled impacts associated with each MERP value. **Table 4-4** presents the data used to calculate secondary impacts for both O_3 and $PM_{2.5}$ (24-hour and annual).

For 24-hour and annual $PM_{2.5}$, the secondary impacts will be added to the primary impacts calculated using AERMOD and compared to the NAAQS and PSD increments.

For O_3, since the secondary impacts are greater than the SIL, a cumulative analysis will be conducted where the secondary impacts will be summed with an ambient monitor concentration and compared to the NAAQS of 70 ppb. An O_3 monitor is located in Italy in McLennan County, Texas (AQS ID: 48-139-1044). According to the USEPA 2024 Design Value Report[3] for O_3, the 2024 design value is 67 ppb. The project related O_3 secondary impact is 2.90 ppb. If this impact is added to the monitor concentration, the overall concentration would still be lower than the O_3 NAAQS of 70 ppb showing that the project does not cause or contribute to a violation of the NAAQS.

Table 4-4 Data Used to Calculate Secondary Impacts

Pollutant/ Averaging Period	Precursor	Project Emissions (tpy)	Modeled Emissions from Hypothetical Source (tpy)	Modeled Air Quality Impact from Hypothetical Source	Secondary Impact
O3	NOx	1,599.66	3,000	5.14 ppb	2.90 ppb
	VOC	515.65	500	0.16 ppb	
24-hour $PM_{2.5}$	NOx	1,599.66	3,000	0.59 µg/m^3	0.59 µg/m^3
	SO_2	264.69	500	0.53 µg/m^3	
Annual $PM_{2.5}$	NOx	1,599.66	3,000	0.01 µg/m^3	0.01 µg/m^3
	SO_2	264.69	500	0.01 µg/m^3	

4.2 Cumulative NAAQS Analysis

A cumulative NAAQS analysis will be performed for all pollutants and averaging periods with project impacts greater than the respective SIL. The NAAQS represents the maximum concentration allowed in ambient air for a given pollutant. Cumulative modeling will include only AOI receptors for the respective pollutant and averaging period.

Compliance with the applicable NAAQS is based on the design concentration, which consists of model concentrations resulting from emissions from all facility sources operating with potential emissions and emissions from nearby inventory sources, summed with an ambient background concentration.

[3] https://www.epa.gov/air-trends/air-quality-design-values

4.2.1 Background Concentrations

Per Appendix W Section 8.3, the criteria pollutant background concentrations should include:

- Nearby sources – defined as sources located in the vicinity of the project source that are not adequately represented by ambient monitoring data. These are sources that may cause a significant concentration gradient in the vicinity of the project and are explicitly included in the cumulative modeling analysis.
- Other Sources – defined as the portion of the background attributable to natural sources, unidentified sources, and regional transport captured in adequately representative ambient monitoring data.

4.2.1.1 Nearby Source Inventory

The cumulative NAAQS analysis must account for nearby sources located in the vicinity of the project area. These sources will be explicitly included in the modeling analysis.

A regional inventory for all criteria pollutants was requested from TCEQ on December 4, 2025 by submitting an Air Permits Allowable Database (APAD) Modeling Retrieval Request Form to the TCEQ Information Resource Division (IRD). The IRD provided a summary report that included emission rates for each pollutant and source parameters for POINT and AREA sources listed in the APAD. A detailed Microsoft Excel workbook that includes the nearby source inventory provided by TCEQ and any changes made by SLR will be included in the model file archive submitted with the final modeling report.

4.2.1.2 Ambient Background Concentrations

The cumulative NAAQS analysis will include an appropriate ambient monitor concentration that represents “Other Sources” attributable to natural sources, unidentified sources and regional transport. Appendix D of the TCEQ Modeling Guideline provides procedures to determine an appropriate monitor to represent ambient conditions at the project site. The guidance recommends using existing monitoring data from the same county in which the project is located and justify why that monitoring data are representative of the project site. If no monitor is available in the county where the project is located, monitoring data from an adjacent county may be used, again with justification of why the monitor is representative of ambient conditions at the project area. If there is no monitor in an adjacent count, data from another county can be used.

Background concentrations were acquired for the years 2022 through 2024 from the 2024 Design Values Reports available at the EPA Air Quality Design Values website[4]. **Table** 4-5 presents the proposed monitor locations and concentrations for each pollutant. The following paragraphs present justification for the selection of the monitor for each pollutant.

As part of the monitor justification, for each proposed monitor, county population, county emissions, and emissions within 10 km of the monitor were compared with those of the project site. Emissions data was derived from site level summary emissions data contained in *2010-2023statesum.xlsx* available at the TCEQ Point Source Emissions Data website[5]. Emissions data from 2023 was used for the comparison. County population data reflects 2024 1-year estimates

[4] https://www.epa.gov/air-trends/air-quality-design-values#report

[5] https://www.tceq.texas.gov/airquality/point-source-ei/point-source-emissions-data

from U.S. Census Bureau website[6]. A summary of the emissions and population data is presented in **Table 4-6** and **Table 4-7**, respectively.

In general, the county population for each monitor location is at least a factor of 5 higher than the population in Hill County where the Project is located. Similarly, the county emissions for each monitor location are between 5 and 726 times higher than the emissions in Hill County. There are no significant emission sources of any pollutant within 10 km of the Project site. These factors indicate that the monitors described below are located in more developed areas relative to the Project site and will provide a conservative estimate of ambient concentrations in the Project area.

CO

There are no CO monitors located in Hill County. However, the Waco Mazanec monitor is in adjacent McLennan County, approximately 35 km southwest of the project. The monitor is situated in a much more developed area compared to the project site and therefore will be a conservative representation of ambient concentrations of CO in the project area.

NO_2

There are no NO_2 monitors located in Hill County. There are three monitors in adjacent counties; the Corsicana monitor in Navarro County, and the Italy and Midlothian monitors in Ellis County. However, each of these monitors is invalid due to poor data capture. The next closest monitor with valid data is the Kaufman monitor in Kaufman County approximately 91 km to the northeast of the project. The Kaufman monitor is located in an area similar to the project site in that it is located in a small town and not proximate to significant industrial activity. Since the monitor location is surrounded by similar land use as the project site, ambient concentrations from the Kaufman monitor will adequately represent ambient concentrations surrounding the project area.

O_3

There are no O_3 monitors located in Hill County. There are three monitors in adjacent counties; the Waco Mazanec monitor in McLennan County, approximately 35 km southwest of the project, the Italy monitor in Ellis County, approximately 40 km north-northwest of the project, and the Corsicana monitor in Navarro County, approximately 42 km northeast of the project. The Italy monitor is situated in a similar location as the project area in that it is located to the south of a small town and not proximate to any significant commercial or industrial sources. Both the Waco and Corsicana are located at airports and may be unduly influenced by vehicle and airplane traffic. Therefore, of the three monitors, the Italy monitor will best represent the ambient O3 concentrations in the project area.

PM_{10}

There are no PM_{10} monitors in Hill County or in any adjacent county. The closest monitors are in the Dallas area, the closest of which is the Dallas Bexar Street monitor approximately 100 km to the north of the project. The Bexar Street monitor is situated in a much more developed area compared to the project site and therefore will be a conservative representation of ambient concentrations of PM_{10} in the project area.

[6] https://data.census.gov/table?g=050XX00US48061,48255

$PM_{2.5}$

There are no $PM_{2.5}$ monitors located in Hill County. There is a monitor in the adjacent Navarro County. However, the monitor is invalid due to poor data capture. The Temple-Georgia monitor in Bell County is located approximately 100 km southwest of the project. The Temple-Georgia monitor is situated in a much more developed area compared to the project site and therefore will be a conservative representation of ambient concentrations of $PM_{2.5}$ in the project area.

SO_2

There are no SO_2 monitors located in Hill County. However, the Waco Mazanec monitor is in adjacent McLennan County, approximately 35 km southwest of the project. The monitor is situated in a much more developed area compared to the project site and therefore will be a conservative representation of ambient concentrations of SO_2 in the project area.

Table 4-5 Ambient Monitor Concentrations

Pollutant	Averaging Period	Monitor Concentration (µg/m³)			Design Value[1] (µg/m³)	Monitoring Site
		2022	2023	2024		
CO	1-hour	--	--	--	1,260	Waco Mazanec (AQS ID: 48-309-1037)
	8-hour	--	--	--	687	
NO_2	1-hour	56.4	53.6	47.4	52.6	Kaufman (AQS ID: 48-257-0005)
	Annual	5.4	4.9	3.5	4.6	
O_3	8-hour	66 ppb	70 ppb	67 ppb	67 ppb	Italy (AQS ID: 48-139-1044)
PM_{10}	24-hour	68	51	53	68.0	Dallas Bexar (AQS ID: 48-113-1096)
$PM_{2.5}$	24-hour	22.50	22.00	19.90	21.00	Temple Georgia (AQS ID: 48-027-1045)
	Annual	7.00	7.70	7.70	7.41	
SO_2	1-hour	18.30	13.10	13.10	15.70	Waco Mazanec (AQS ID: 48-309-1037)
	Annual	1.20	0.80	1.20	1.07	

1. Design Values
   1hr & 8hr CO: H2H for the most recent year of data (2024)
   1-hour NO_2: 98th percentile of the daily maximum 1-hour average
   8-hour O_3: 3-year average of the 4th highest monitor concentration
   24hr PM_{10}: Maximum H2H over the most recent 3-year period (2022 - 2024)
   24-hour $PM_{2.5}$: 3-year average of the 98th percentile of the maximum daily average
   Annual $PM_{2.5}$: Annual arithmetic mean
   1-hour SO_2: 3-year average of the 99th percentile of the daily maximum 1-hour average



Table 4-6 County and 10 km Emissions Summary for Monitor and Project Sites

Emissions Case	Emissions (tpy)				
	CO	NO_2	PM_{10}	$PM_{2.5}$	SO_2
Within 10 km of Project[1]	0.0	0.0	0.0	0.0	0.0
Within 10 km of Monitor	22.1	0.0	139.5	7.3	7.1

1. CO Monitor – Waco Mazanec (AQS ID: 48-309-1037)
NO_2 Monitor – Kaufman (AQS ID: 48-257-0005)
PM_{10} Monitor – Dallas Bexar (AQS ID: 48-113-1096)
$PM_{2.5}$ Monitor – Temple Georgia (AQS ID: 48-027-1045)
SO_2 Monitor – Waco Mazanec (AQS ID: 48-309-1037)

Emissions Case	Emissions (tpy)				
	CO	NO_2	PM_{10}	$PM_{2.5}$	SO_2
Project County (Hill County)	44.1	9.6	27.1	15.9	2.4
Monitor County	2,809	1,327	521	90	1,743

1. CO Monitor – McLennan County
2. NO_2 Monitor – Kaufman County
3. PM_{10} Monitor – Dallas County
4. $PM_{2.5}$ Monitor – Bell County
5. SO_2 Monitor – McLennan County

Table 4-7 County Population Summary

County	Population
Hill Project Location	35,874
McLennan CO and SO_2 Monitors	270,358
Kaufman NO_2 Monitor	197,829
Dallas PM_{10} Monitor	2,656,028
Bell $PM_{2.5}$ Monitor	399,578



4.3 PSD Increment Analysis

A PSD increment analysis will be performed for all pollutants and averaging periods with project impacts greater than the respective SIL as determined by the preliminary impact determination for the NAAQS analysis. The PSD increment represents the maximum amount the concentration of a given pollutant is allowed to increase above a baseline concentration for a pollutant. Cumulative modeling will include only AOI receptors for the respective pollutant and averaging period developed for the NAAQS analysis. Note that an alternate preliminary impact determination analysis will be performed for pollutants with statistically based NAAQS if needed.

Compliance with the applicable PSD increment is based on the model concentration considering emissions from all facility sources and nearby increment consuming and expanding inventory sources.

4.3.1.1 Nearby Source Inventory

The cumulative PSD increment analysis must account for nearby increment consuming and expanding sources located in the vicinity of the project area. These sources will be explicitly included in the modeling analysis.

The nearby source inventory provided by IRD contain a PSD increment-specific inventory that will be used in the increment analysis. A detailed Microsoft Excel workbook that includes the nearby source inventory provided by TCEQ and any changes made by SLR will be included in the model file archive submitted with final modeling report.

5.0 Pre-Application Analysis

The PSD regulation contained in 40 CFR 52.21(m)(1) requires a PSD permit application to establish existing air quality representative of conditions in the vicinity of the Project for at least a year preceding receipt of the application. An exemption to this requirement can be made if project-related model concentrations are less than the significant monitor concentrations (SMCs) listed in 40 CFR 52.21 (i)(5)(i). **Table 5-1** presents the SMC. The federal PSD regulations no longer list a SMC for $PM_{2.5}$. For $PM_{2.5}$, existing air quality can be characterized by using data from existing ambient monitors that are considered representative of the Project area. Therefore, ambient concentrations from the Temple-Georgia ambient monitor are proposed to satisfy the pre-construction monitoring requirement for $PM_{2.5}$. For the remaining triggered pollutants, it is anticipated that Project-related impacts will be below the level of the SMC removing the need to provide pre-construction monitoring data for those pollutants. If the Project-related impacts are greater than the respective SMC, existing monitoring data will be used to establish the existing air quality conditions in the vicinity of the project.

Table 5-1 Significant Monitoring Concentrations

Pollutant	Averaging Period	SMC ($\mu g/m^3$)
CO	8-hour	575
NO_2	Annual	14
PM_{10}	24-hour	10
SO_2	24-hour	13

6.0 Additional Impacts Analysis

6.1 Growth Analysis

The growth analysis consists of a projection of the associated industrial, commercial, and residential growth that is likely to occur in the area due to the proposed project, and an estimate of the emissions generated by that associated growth.

6.2 Soils and Vegetation Analysis

PSD regulations require an analysis of the potential impairment to soils and vegetation due to source emissions and general commercial, residential, industrial and other growth associated with the project. The vegetation analysis need not include an analysis of the impact on vegetation having no significant commercial or recreation value. Generally, if ambient concentrations of criteria pollutants comply with the secondary NAAQS, the project will not result in harmful effects.

6.3 Visibility Analysis

PSD regulations require an analysis of the potential impairment to visibility due to the project emissions and general commercial, residential, industrial and other growth associated with the project. The facility intends to meet the visibility and opacity requirements set forth in 30 TAC Chapter 111. The TCEQ Modeling Guidance states that it is sufficient to satisfy the visibility impairment analysis by acknowledging compliance with this state regulation.

7.0 Class I Area Analyses

Class I areas are defined as those areas of the nation that are of special natural, scenic, recreational, or historic interest to the public and as such are afforded the greatest degree of air quality protection. A separate set of more stringent PSD increments are defined for these areas. Federal and state regulations require a Class I Area Impact Analysis if a new major source would be located within 100 kilometers of a Class I Area. Since the nearest Class I Areas is more than 300 km from the project site, a Class I Area Impact Analysis is not required.

8.0 State Analyses

8.1 State Property Line Standard Analysis

The State Property Line Standard Analysis is done to demonstrate compliance with state standards for SO_2, hydrogen sulfide (H_2S) and sulfuric acid (H_2SO_4). Modeling will be conducted using the modeling methodologies presented in Section 3.0 and compared to the State Property Line Standards presented in **Table 8-1**.

Table 8-1 State Property Line Standards

Pollutant	Avg Period	Standard ($\mu g/m^3$)
H_2S	30-minute	108
SO_2	30-minute	1,021
H_2SO_4	1-hour	50

Pollutant	Avg Period	Standard ($\mu g/m^3$)
	24-hour	15

8.2 Health Effects Analysis

A Health Effects Analysis will be conducted to show that project emissions of non-criteria pollutants are protective of the public's health and welfare. The analysis will be conducted in accordance with methodology presented in the TCEQ guidance document APDG 5874 Modeling and Effects Review Applicability (TCEQ 2018). The MERA guidance provides a stepwise process (MERA Process) to evaluate the health effects of non-criteria pollutants. Non-criteria pollutant emissions and source characterization are under development and details will be provided with the final modeling analysis and report.



9.0 References

Texas Commission on Environmental Quality (TCEQ). 2025. Air Quality Modeling Guidelines APDG 6232. December 2025.

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United States Environmental Protection Agency (USEPA). 2024. Guideline on Air Quality Models, Enhancements to the AERMOD Dispersion Modeling System. Published as 40 CFR 58 Appendix W. November 29, 2024

_____. 2024b. AERMOD Implementation Guide. (EPA-454/B-24-009). Office of Air Quality Planning and Standards. November 2024.

_____. 2024c. Clarification on the *Development of Modeled Emission Rates for Precursors (MERPs) as a Tier 1 Demonstration Tool under the PSD Permitting Program*. Memorandum from Tyler Fox (Air Quality Assessment Division). April 30, 2024.

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_____. 2020. User's Guide for AERSURFACE Tool. (EPA-454/B-20-008). Office of Air Quality Planning and Standards. February 2020

_____. 2011. Additional Clarification Regarding Application of Appendix W Modeling Guidance for the 1-hour NO2 National Ambient Air Quality Standard. March 2011.



Appendix A Source Data and Emissions

Air Quality Analysis Protocol

Nexus Data Center, Hubbard, Texas

SLR Project No.: 120.021834.00001

February 13, 2026

Table A-1: Source Data

Model ID	Source Type	Source Description	UTM X (m)	UTM Y (m)	Base Elevation (m)	Stack Height (m)	Exhaust Temperature (K)	Exit Velocity (m)	Stack Diameter (m)
LPCSC1	POINT	GE LM6000 PC Simple Cycle	711188.34	3524139.09	176.00	28.73	727.60	26.52	1.829
LPCSC2	POINT	GE LM6000 PC Simple Cycle	711214.12	3524155.85	176.00	28.73	727.60	26.52	1.829
LPCSC3	POINT	GE LM6000 PC Simple Cycle	711240.28	3524171.81	176.00	28.73	727.60	26.52	1.829
LPCSC4	POINT	GE LM6000 PC Simple Cycle	711265.98	3524187.76	176.00	28.73	727.60	26.52	1.829
LPCSC5	POINT	GE LM6000 PC Simple Cycle	711292.51	3524203.00	176.00	28.73	727.60	26.52	1.829
LPCSC6	POINT	GE LM6000 PC Simple Cycle	711318.43	3524219.13	176.00	28.73	727.60	26.52	1.829
LPCSC7	POINT	GE LM6000 PC Simple Cycle	711345.71	3524233.98	176.00	28.73	727.60	26.52	1.829
LPCSC8	POINT	GE LM6000 PC Simple Cycle	711371.77	3524249.81	176.00	28.73	727.60	26.52	1.829
LPCSCSS1	POINT	GE LM6000 PC Simple Cycle SUSD	711188.34	3524139.09	176.00	28.73	727.60	26.52	1.829
LPCSCSS2	POINT	GE LM6000 PC Simple Cycle SUSD	711214.12	3524155.85	176.00	28.73	727.60	26.52	1.829
LPCSCSS3	POINT	GE LM6000 PC Simple Cycle SUSD	711240.28	3524171.81	176.00	28.73	727.60	26.52	1.829
LPCSCSS4	POINT	GE LM6000 PC Simple Cycle SUSD	711265.98	3524187.76	176.00	28.73	727.60	26.52	1.829
LPCSCSS5	POINT	GE LM6000 PC Simple Cycle SUSD	711292.51	3524203.00	176.00	28.73	727.60	26.52	1.829

Model ID	Source Type	Source Description	UTM X (m)	UTM Y (m)	Base Elevation (m)	Stack Height (m)	Exhaust Temperature (K)	Exit Velocity (m)	Stack Diameter (m)
LPCSCSS6	POINT	GE LM6000 PC Simple Cycle SUSD	711318.43	3524219.13	176.00	28.73	727.60	26.52	1.829
LPCSCSS7	POINT	GE LM6000 PC Simple Cycle SUSD	711345.71	3524233.98	176.00	28.73	727.60	26.52	1.829
LPCSCSS8	POINT	GE LM6000 PC Simple Cycle SUSD	711371.77	3524249.81	176.00	28.73	727.60	26.52	1.829
LPFCC1	POINT	GE LM6000 PF+	711032.48	3524044.20	176.00	38.10	349.82	22.86	4.572
LPFCC2	POINT	GE LM6000 PF+	711058.63	3524059.81	176.00	38.10	349.82	22.86	4.572
LPFCC3	POINT	GE LM6000 PF+	711084.78	3524076.00	176.00	38.10	349.82	22.86	4.572
LPFCC4	POINT	GE LM6000 PF+	711109.97	3524091.61	176.00	38.10	349.82	22.86	4.572
LPFCC5	POINT	GE LM6000 PF+	711136.70	3524107.99	176.00	38.10	349.82	22.86	4.572
LPFCC6	POINT	GE LM6000 PF+	711162.45	3524123.33	176.00	38.10	349.82	22.86	4.572
LPFCCSS1	POINT	GE LM6000 PF+ SUSD	711032.48	3524044.20	176.00	38.10	349.82	22.86	4.572
LPFCCSS2	POINT	GE LM6000 PF+ SUSD	711058.63	3524059.81	176.00	38.10	349.82	22.86	4.572
LPFCCSS3	POINT	GE LM6000 PF+ SUSD	711084.78	3524076.00	176.00	38.10	349.82	22.86	4.572
LPFCCSS4	POINT	GE LM6000 PF+ SUSD	711109.97	3524091.61	176.00	38.10	349.82	22.86	4.572
LPFCCSS5	POINT	GE LM6000 PF+ SUSD	711136.70	3524107.99	176.00	38.10	349.82	22.86	4.572



Model ID	Source Type	Source Description	UTM X (m)	UTM Y (m)	Base Elevation (m)	Stack Height (m)	Exhaust Temperature (K)	Exit Velocity (m)	Stack Diameter (m)
LPFCCSS6	POINT	GE LM6000 PF+ SUSD	711162.45	3524123.33	176.00	38.10	349.82	22.86	4.572
F03SC1	POINT	Pre-Conv ONLY (INITIAL)	710523.14	3524204.55	176.00	45.00	800.00	18.00	8.755
F03SC2	POINT	Pre-Conv ONLY (INITIAL)	710577.49	3524236.07	176.00	45.00	800.00	18.00	8.755
F03SC3	POINT	Pre-Conv ONLY (INITIAL)	710628.60	3524266.33	176.00	45.00	800.00	18.00	8.755
F03SC4	POINT	Pre-Conv ONLY (INITIAL)	710681.32	3524298.07	176.00	45.00	800.00	18.00	8.755
F03SC5	POINT	Pre-Conv ONLY (INITIAL)	710734.63	3524328.65	176.00	45.00	800.00	18.00	8.755
F03SC6	POINT	Pre-Conv ONLY (INITIAL)	710786.28	3524363.11	176.00	45.00	800.00	18.00	8.755
F03SCSS1	POINT	Pre-Conv ONLY (INITIAL)	710523.14	3524204.55	176.00	45.00	800.00	18.00	8.755
F03SCSS2	POINT	Pre-Conv ONLY (INITIAL)	710577.49	3524236.07	176.00	45.00	800.00	18.00	8.755
F03SCSS3	POINT	Pre-Conv ONLY (INITIAL)	710628.60	3524266.33	176.00	45.00	800.00	18.00	8.755
F03SCSS4	POINT	Pre-Conv ONLY (INITIAL)	710681.32	3524298.07	176.00	45.00	800.00	18.00	8.755
F03SCSS5	POINT	Pre-Conv ONLY (INITIAL)	710734.63	3524328.65	176.00	45.00	800.00	18.00	8.755
F03SCSS6	POINT	Pre-Conv ONLY (INITIAL)	710786.28	3524363.11	176.00	45.00	800.00	18.00	8.755
F03CC1	POINT	Post-Conv ONLY (FINAL)	710523.14	3524204.55	176.00	45.00	460.00	16.00	8.760



Model ID	Source Type	Source Description	UTM X (m)	UTM Y (m)	Base Elevation (m)	Stack Height (m)	Exhaust Temperature (K)	Exit Velocity (m)	Stack Diameter (m)
F03CC2	POINT	Post-Conv ONLY (FINAL)	710577.49	3524236.07	176.00	45.00	460.00	16.00	8.760
F03CC3	POINT	Post-Conv ONLY (FINAL)	710628.60	3524266.33	176.00	45.00	460.00	16.00	8.760
F03CC4	POINT	Post-Conv ONLY (FINAL)	710681.32	3524298.07	176.00	45.00	460.00	16.00	8.760
F03CC5	POINT	Post-Conv ONLY (FINAL)	710734.63	3524328.65	176.00	45.00	460.00	16.00	8.760
F03CC6	POINT	Post-Conv ONLY (FINAL)	710786.28	3524363.11	176.00	45.00	460.00	16.00	8.760
F03CCSS1	POINT	Post-Conv ONLY (FINAL)	710523.14	3524204.55	176.00	45.00	460.00	16.00	8.760
F03CCSS2	POINT	Post-Conv ONLY (FINAL)	710577.49	3524236.07	176.00	45.00	460.00	16.00	8.760
F03CCSS3	POINT	Post-Conv ONLY (FINAL)	710628.60	3524266.33	176.00	45.00	460.00	16.00	8.760
F03CCSS4	POINT	Post-Conv ONLY (FINAL)	710681.32	3524298.07	176.00	45.00	460.00	16.00	8.760
F03CCSS5	POINT	Post-Conv ONLY (FINAL)	710734.63	3524328.65	176.00	45.00	460.00	16.00	8.760
F03CCSS6	POINT	Post-Conv ONLY (FINAL)	710786.28	3524363.11	176.00	45.00	460.00	16.00	8.760
F04CC1	POINT	GE 7F.04 1x1 Combined Cycle Gas Turbines	710315.02	3524075.77	176.00	45.00	444.26	15.24	8.755
F04CC2	POINT	GE 7F.04 1x1 Combined Cycle Gas Turbines	710366.58	3524109.00	176.00	45.00	444.26	15.24	8.755



Model ID	Source Type	Source Description	UTM X (m)	UTM Y (m)	Base Elevation (m)	Stack Height (m)	Exhaust Temperature (K)	Exit Velocity (m)	Stack Diameter (m)
F04CC3	POINT	GE 7F.04 1x1 Combined Cycle Gas Turbines	710419.69	3524141.86	176.00	45.00	444.26	15.24	8.755
F04CC4	POINT	GE 7F.04 1x1 Combined Cycle Gas Turbines	710471.04	3524172.01	176.00	45.00	444.26	15.24	8.755
F04CCSS1	POINT	GE 7F.04 1x1 Combined Cycle Gas Turbines SUSD	710315.02	3524075.77	176.00	45.00	444.26	15.24	8.755
F04CCSS2	POINT	GE 7F.04 1x1 Combined Cycle Gas Turbines SUSD	710366.58	3524109.00	176.00	45.00	444.26	15.24	8.755
F04CCSS3	POINT	GE 7F.04 1x1 Combined Cycle Gas Turbines SUSD	710419.69	3524141.86	176.00	45.00	444.26	15.24	8.755
F04CCSS4	POINT	GE 7F.04 1x1 Combined Cycle Gas Turbines SUSD	710471.04	3524172.01	176.00	45.00	444.26	15.24	8.755
7HACC1	POINT	7HA Combined Cycle	713514.46	3522733.42	162.28	55.00	422.04	13.72	8.760
7HACC2	POINT	7HA Combined Cycle	713570.79	3522765.26	162.28	55.00	422.04	13.72	8.760
7HACC3	POINT	7HA Combined Cycle	713624.53	3522794.25	162.28	55.00	422.04	13.72	8.760
7HACC4	POINT	7HA Combined Cycle	713675.95	3522827.75	162.28	55.00	422.04	13.72	8.760
7HACC5	POINT	7HA Combined Cycle	713726.97	3522861.23	162.28	55.00	422.04	13.72	8.760
7HACC6	POINT	7HA Combined Cycle	713779.56	3522892.12	162.28	55.00	422.04	13.72	8.760



Model ID	Source Type	Source Description	UTM X (m)	UTM Y (m)	Base Elevation (m)	Stack Height (m)	Exhaust Temperature (K)	Exit Velocity (m)	Stack Diameter (m)
7HACC7	POINT	7HA Combined Cycle	713834.80	3522922.16	162.28	55.00	422.04	13.72	8.760
7HACCSS1	POINT	7HA Combined Cycle SUSD	713514.46	3522733.42	162.28	55.00	422.04	13.72	8.760
7HACCSS2	POINT	7HA Combined Cycle SUSD	713570.79	3522765.26	162.28	55.00	422.04	13.72	8.760
7HACCSS3	POINT	7HA Combined Cycle SUSD	713624.53	3522794.25	162.28	55.00	422.04	13.72	8.760
7HACCSS4	POINT	7HA Combined Cycle SUSD	713675.95	3522827.75	162.28	55.00	422.04	13.72	8.760
7HACCSS5	POINT	7HA Combined Cycle SUSD	713726.97	3522861.23	162.28	55.00	422.04	13.72	8.760
7HACCSS6	POINT	7HA Combined Cycle SUSD	713779.56	3522892.12	162.28	55.00	422.04	13.72	8.760
7HACCSS7	POINT	7HA Combined Cycle SUSD	713834.80	3522922.16	162.28	55.00	422.04	13.72	8.760
MAN_1	POINT	Everllance RICE 18V51/60G generator	710652.83	3523848.55	176.00	24.99	453.15	25.09	2.796
MAN_2	POINT	Everllance RICE 18V51/60G generator	710659.95	3523852.86	176.00	24.99	453.15	25.09	2.796
MAN_3	POINT	Everllance RICE 18V51/60G generator	710666.88	3523857.06	176.00	24.99	453.15	25.09	2.796
MAN_4	POINT	Everllance RICE 18V51/60G generator	710676.35	3523862.98	176.00	24.99	453.15	25.09	2.796
MAN_5	POINT	Everllance RICE 18V51/60G generator	710708.99	3523882.35	176.00	24.99	453.15	25.09	2.796
MAN_6	POINT	Everllance RICE 18V51/60G generator	710717.80	3523887.95	176.00	24.99	453.15	25.09	2.796



Model ID	Source Type	Source Description	UTM X (m)	UTM Y (m)	Base Elevation (m)	Stack Height (m)	Exhaust Temperature (K)	Exit Velocity (m)	Stack Diameter (m)
MAN_7	POINT	Everllance RICE 18V51/60G generator	710724.65	3523892.10	176.00	24.99	453.15	25.09	2.796
MAN_8	POINT	Everllance RICE 18V51/60G generator	710732.55	3523897.00	176.00	24.99	453.15	25.09	2.796
MAN_9	POINT	Everllance RICE 18V51/60G generator	710774.01	3523922.20	176.00	24.99	453.15	25.09	2.796
MAN_10	POINT	Everllance RICE 18V51/60G generator	710782.07	3523926.97	176.00	24.99	453.15	25.09	2.796
MAN_11	POINT	Everllance RICE 18V51/60G generator	710789.82	3523931.73	176.00	24.99	453.15	25.09	2.796
MAN_12	POINT	Everllance RICE 18V51/60G generator	710797.88	3523936.19	176.00	24.99	453.15	25.09	2.796
MAN_13	POINT	Everllance RICE 18V51/60G generator	710829.92	3523956.22	176.00	24.99	453.15	25.09	2.796
MAN_14	POINT	Everllance RICE 18V51/60G generator	710837.98	3523960.68	176.00	24.99	453.15	25.09	2.796
MAN_15	POINT	Everllance RICE 18V51/60G generator	710845.73	3523965.75	176.00	24.99	453.15	25.09	2.796
MAN_16	POINT	Everllance RICE 18V51/60G generator	710853.77	3523970.20	176.00	24.99	453.15	25.09	2.796
MAN_17	POINT	Everllance RICE 18V51/60G generator	710895.24	3523995.41	176.00	24.99	453.15	25.09	2.796
MAN_18	POINT	Everllance RICE 18V51/60G generator	710903.02	3524000.49	176.00	24.99	453.15	25.09	2.796
MAN_19	POINT	Everllance RICE 18V51/60G generator	710910.74	3524004.93	176.00	24.99	453.15	25.09	2.796
MAN_20	POINT	Everllance RICE 18V51/60G generator	710918.81	3524010.00	176.00	24.99	453.15	25.09	2.796



Model ID	Source Type	Source Description	UTM X (m)	UTM Y (m)	Base Elevation (m)	Stack Height (m)	Exhaust Temperature (K)	Exit Velocity (m)	Stack Diameter (m)
MAN_21	POINT	Everllance RICE 18V51/60G generator	710951.45	3524029.43	176.00	24.99	453.15	25.09	2.796
MAN_22	POINT	Everllance RICE 18V51/60G generator	710958.90	3524034.19	176.00	24.99	453.15	25.09	2.796
MAN_23	POINT	Everllance RICE 18V51/60G generator	710966.96	3524038.95	176.00	24.99	453.15	25.09	2.796
MAN_24	POINT	Everllance RICE 18V51/60G generator	710974.71	3524043.71	176.00	24.99	453.15	25.09	2.796
EGN1_2	POINT	Emergency Generator 1 - 2	710665.66	3523908.25	176.00	18.29	623.15	28.16	0.530
EGN3_4	POINT	Emergency Generator 3 - 4	710786.76	3523981.68	176.00	18.29	623.15	28.16	0.530
EGN5_6	POINT	Emergency Generator 5 - 6	710907.86	3524055.11	176.00	18.29	623.15	28.16	0.530

Table A-2: Criteria Pollutant Emissions (g/s)

Model ID	Source Description	NOx 1-Hr	NOx Ann	PM2.5 24-Hr	PM2.5 Ann	PM10 24-Hr	PM10 Ann	SO2 1-Hr	SO2 3 & 24-Hr	SO2 Ann	CO 1&8-Hr
LPCSC1	GE LM6000 PC Simple Cycle	6.85E-01	5.43E-01	4.22E-01	2.80E-01	4.22E-01	2.80E-01	8.68E-02	8.68E-02	5.70E-02	3.47E+00
LPCSC2	GE LM6000 PC Simple Cycle	6.85E-01	5.43E-01	4.22E-01	2.80E-01	4.22E-01	2.80E-01	8.68E-02	8.68E-02	5.70E-02	3.47E+00
LPCSC3	GE LM6000 PC Simple Cycle	6.85E-01	5.43E-01	4.22E-01	2.80E-01	4.22E-01	2.80E-01	8.68E-02	8.68E-02	5.70E-02	3.47E+00

Model ID	Source Description	NOx 1-Hr	NOx Ann	PM2.5 24-Hr	PM2.5 Ann	PM10 24-Hr	PM10 Ann	SO2 1-Hr	SO2 3 & 24-Hr	SO2 Ann	CO 1&8-Hr
LPCSC4	GE LM6000 PC Simple Cycle	6.85E-01	5.43E-01	4.22E-01	2.80E-01	4.22E-01	2.80E-01	8.68E-02	8.68E-02	5.70E-02	3.47E+00
LPCSC5	GE LM6000 PC Simple Cycle	6.85E-01	5.43E-01	4.22E-01	2.80E-01	4.22E-01	2.80E-01	8.68E-02	8.68E-02	5.70E-02	3.47E+00
LPCSC6	GE LM6000 PC Simple Cycle	6.85E-01	5.43E-01	4.22E-01	2.80E-01	4.22E-01	2.80E-01	8.68E-02	8.68E-02	5.70E-02	3.47E+00
LPCSC7	GE LM6000 PC Simple Cycle	6.85E-01	5.43E-01	4.22E-01	2.80E-01	4.22E-01	2.80E-01	8.68E-02	8.68E-02	5.70E-02	3.47E+00
LPCSC8	GE LM6000 PC Simple Cycle	6.85E-01	5.43E-01	4.22E-01	2.80E-01	4.22E-01	2.80E-01	8.68E-02	8.68E-02	5.70E-02	3.47E+00
LPCSCSS1	GE LM6000 PC Simple Cycle SUSD	3.44E-02	1.72E-02	1.23E-01	7.27E-04	1.23E-01	7.27E-04	7.49E-04	7.49E-04	3.75E-04	3.34E+00
LPCSCSS2	GE LM6000 PC Simple Cycle SUSD	3.44E-02	1.72E-02	1.23E-01	7.27E-04	1.23E-01	7.27E-04	7.49E-04	7.49E-04	3.75E-04	3.34E+00
LPCSCSS3	GE LM6000 PC Simple Cycle SUSD	3.44E-02	1.72E-02	1.23E-01	7.27E-04	1.23E-01	7.27E-04	7.49E-04	7.49E-04	3.75E-04	3.34E+00
LPCSCSS4	GE LM6000 PC Simple Cycle SUSD	3.44E-02	1.72E-02	1.23E-01	7.27E-04	1.23E-01	7.27E-04	7.49E-04	7.49E-04	3.75E-04	3.34E+00
LPCSCSS5	GE LM6000 PC Simple Cycle SUSD	3.44E-02	1.72E-02	1.23E-01	7.27E-04	1.23E-01	7.27E-04	7.49E-04	7.49E-04	3.75E-04	3.34E+00



Model ID	Source Description	NOx 1-Hr	NOx Ann	PM2.5 24-Hr	PM2.5 Ann	PM10 24-Hr	PM10 Ann	SO2 1-Hr	SO2 3 & 24-Hr	SO2 Ann	CO 1&8-Hr
LPCSCSS6	GE LM6000 PC Simple Cycle SUSD	3.44E-02	1.72E-02	1.23E-01	7.27E-04	1.23E-01	7.27E-04	7.49E-04	7.49E-04	3.75E-04	3.34E+00
LPCSCSS7	GE LM6000 PC Simple Cycle SUSD	3.44E-02	1.72E-02	1.23E-01	7.27E-04	1.23E-01	7.27E-04	7.49E-04	7.49E-04	3.75E-04	3.34E+00
LPCSCSS8	GE LM6000 PC Simple Cycle SUSD	3.44E-02	1.72E-02	1.23E-01	7.27E-04	1.23E-01	7.27E-04	7.49E-04	7.49E-04	3.75E-04	3.34E+00
LPFCC1	GE LM6000 PF+ Sprint 1x1	4.80E-01	4.61E-01	4.43E-01	4.31E-01	4.43E-01	4.31E-01	9.12E-02	9.12E-02	8.77E-02	5.84E-01
LPFCC2	GE LM6000 PF+ Sprint 1x1	4.80E-01	4.61E-01	4.43E-01	4.31E-01	4.43E-01	4.31E-01	9.12E-02	9.12E-02	8.77E-02	5.84E-01
LPFCC3	GE LM6000 PF+ Sprint 1x1	4.80E-01	4.61E-01	4.43E-01	4.31E-01	4.43E-01	4.31E-01	9.12E-02	9.12E-02	8.77E-02	5.84E-01
LPFCC4	GE LM6000 PF+ Sprint 1x1	4.80E-01	4.61E-01	4.43E-01	4.31E-01	4.43E-01	4.31E-01	9.12E-02	9.12E-02	8.77E-02	5.84E-01
LPFCC5	GE LM6000 PF+ Sprint 1x1	4.80E-01	4.61E-01	4.43E-01	4.31E-01	4.43E-01	4.31E-01	9.12E-02	9.12E-02	8.77E-02	5.84E-01
LPFCC6	GE LM6000 PF+ Sprint 1x1	4.80E-01	4.61E-01	4.43E-01	4.31E-01	4.43E-01	4.31E-01	9.12E-02	9.12E-02	8.77E-02	5.84E-01
LPFCCSS1	GE LM6000 PF+ Sprint 1x1 SUSD	3.44E-02	1.72E-02	1.29E-01	7.65E-04	1.29E-01	7.65E-04	7.88E-04	7.88E-04	3.94E-04	3.34E+00
LPFCCSS2	GE LM6000 PF+ Sprint 1x1 SUSD	3.44E-02	1.72E-02	1.29E-01	7.65E-04	1.29E-01	7.65E-04	7.88E-04	7.88E-04	3.94E-04	3.34E+00



Model ID	Source Description	NOx 1-Hr	NOx Ann	PM2.5 24-Hr	PM2.5 Ann	PM10 24-Hr	PM10 Ann	SO2 1-Hr	SO2 3 & 24-Hr	SO2 Ann	CO 1&8-Hr
LPFCCSS3	GE LM6000 PF+ Sprint 1x1 SUSD	3.44E-02	1.72E-02	1.29E-01	7.65E-04	1.29E-01	7.65E-04	7.88E-04	7.88E-04	3.94E-04	3.34E+00
LPFCCSS4	GE LM6000 PF+ Sprint 1x1 SUSD	3.44E-02	1.72E-02	1.29E-01	7.65E-04	1.29E-01	7.65E-04	7.88E-04	7.88E-04	3.94E-04	3.34E+00
LPFCCSS5	GE LM6000 PF+ Sprint 1x1 SUSD	3.44E-02	1.72E-02	1.29E-01	7.65E-04	1.29E-01	7.65E-04	7.88E-04	7.88E-04	3.94E-04	3.34E+00
LPFCCSS6	GE LM6000 PF+ Sprint 1x1 SUSD	3.44E-02	1.72E-02	1.29E-01	7.65E-04	1.29E-01	7.65E-04	7.88E-04	7.88E-04	3.94E-04	3.34E+00
F03SC1	Pre-Conv ONLY (INITIAL)	7.87E+00	7.87E+00	1.57E+00	1.51E+00	1.57E+00	1.51E+00	3.33E-01	3.33E-01	3.20E-01	1.33E+01
F03SC2	Pre-Conv ONLY (INITIAL)	7.87E+00	7.87E+00	1.57E+00	1.51E+00	1.57E+00	1.51E+00	3.33E-01	3.33E-01	3.20E-01	1.33E+01
F03SC3	Pre-Conv ONLY (INITIAL)	7.87E+00	7.87E+00	1.57E+00	1.51E+00	1.57E+00	1.51E+00	3.33E-01	3.33E-01	3.20E-01	1.33E+01
F03SC4	Pre-Conv ONLY (INITIAL)	7.87E+00	7.87E+00	1.57E+00	1.51E+00	1.57E+00	1.51E+00	3.33E-01	3.33E-01	3.20E-01	1.33E+01
F03SC5	Pre-Conv ONLY (INITIAL)	7.87E+00	7.87E+00	1.57E+00	1.51E+00	1.57E+00	1.51E+00	3.33E-01	3.33E-01	3.20E-01	1.33E+01
F03SC6	Pre-Conv ONLY (INITIAL)	7.87E+00	7.87E+00	1.57E+00	1.51E+00	1.57E+00	1.51E+00	3.33E-01	3.33E-01	3.20E-01	1.33E+01
F03SCSS1	Pre-Conv ONLY (INITIAL)	1.42E-01	7.11E-02	1.04E+00	3.10E-03	1.04E+00	3.10E-03	3.19E-03	3.19E-03	1.60E-03	4.16E+01
F03SCSS2	Pre-Conv ONLY (INITIAL)	1.42E-01	7.11E-02	1.04E+00	3.10E-03	1.04E+00	3.10E-03	3.19E-03	3.19E-03	1.60E-03	4.16E+01



Model ID	Source Description	NOx 1-Hr	NOx Ann	PM2.5 24-Hr	PM2.5 Ann	PM10 24-Hr	PM10 Ann	SO2 1-Hr	SO2 3 & 24-Hr	SO2 Ann	CO 1&8-Hr
F03SCSS3	Pre-Conv ONLY (INITIAL)	1.42E-01	7.11E-02	1.04E+00	3.10E-03	1.04E+00	3.10E-03	3.19E-03	3.19E-03	1.60E-03	4.16E+01
F03SCSS4	Pre-Conv ONLY (INITIAL)	1.42E-01	7.11E-02	1.04E+00	3.10E-03	1.04E+00	3.10E-03	3.19E-03	3.19E-03	1.60E-03	4.16E+01
F03SCSS5	Pre-Conv ONLY (INITIAL)	1.42E-01	7.11E-02	1.04E+00	3.10E-03	1.04E+00	3.10E-03	3.19E-03	3.19E-03	1.60E-03	4.16E+01
F03SCSS6	Pre-Conv ONLY (INITIAL)	1.42E-01	7.11E-02	1.04E+00	3.10E-03	1.04E+00	3.10E-03	3.19E-03	3.19E-03	1.60E-03	4.16E+01
F03CC1	Post-Conv ONLY (FINAL)	1.63E+00	1.57E+00	1.51E+00	1.47E+00	1.51E+00	1.47E+00	3.10E-01	3.10E-01	2.98E-01	1.99E+00
F03CC2	Post-Conv ONLY (FINAL)	1.63E+00	1.57E+00	1.51E+00	1.47E+00	1.51E+00	1.47E+00	3.10E-01	3.10E-01	2.98E-01	1.99E+00
F03CC3	Post-Conv ONLY (FINAL)	1.63E+00	1.57E+00	1.51E+00	1.47E+00	1.51E+00	1.47E+00	3.10E-01	3.10E-01	2.98E-01	1.99E+00
F03CC4	Post-Conv ONLY (FINAL)	1.63E+00	1.57E+00	1.51E+00	1.47E+00	1.51E+00	1.47E+00	3.10E-01	3.10E-01	2.98E-01	1.99E+00
F03CC5	Post-Conv ONLY (FINAL)	1.63E+00	1.57E+00	1.51E+00	1.47E+00	1.51E+00	1.47E+00	3.10E-01	3.10E-01	2.98E-01	1.99E+00
F03CC6	Post-Conv ONLY (FINAL)	1.63E+00	1.57E+00	1.51E+00	1.47E+00	1.51E+00	1.47E+00	3.10E-01	3.10E-01	2.98E-01	1.99E+00
F03CCSS1	Post-Conv ONLY (FINAL)	3.28E-02	1.64E-02	9.74E-01	6.67E-04	9.74E-01	6.67E-04	6.87E-04	6.87E-04	3.44E-04	4.16E+01
F03CCSS2	Post-Conv ONLY (FINAL)	3.28E-02	1.64E-02	9.74E-01	6.67E-04	9.74E-01	6.67E-04	6.87E-04	6.87E-04	3.44E-04	4.16E+01



Model ID	Source Description	NOx 1-Hr	NOx Ann	PM2.5 24-Hr	PM2.5 Ann	PM10 24-Hr	PM10 Ann	SO2 1-Hr	SO2 3 & 24-Hr	SO2 Ann	CO 1&8-Hr
F03CCSS3	Post-Conv ONLY (FINAL)	3.28E-02	1.64E-02	9.74E-01	6.67E-04	9.74E-01	6.67E-04	6.87E-04	6.87E-04	3.44E-04	4.16E+01
F03CCSS4	Post-Conv ONLY (FINAL)	3.28E-02	1.64E-02	9.74E-01	6.67E-04	9.74E-01	6.67E-04	6.87E-04	6.87E-04	3.44E-04	4.16E+01
F03CCSS5	Post-Conv ONLY (FINAL)	3.28E-02	1.64E-02	9.74E-01	6.67E-04	9.74E-01	6.67E-04	6.87E-04	6.87E-04	3.44E-04	4.16E+01
F03CCSS6	Post-Conv ONLY (FINAL)	3.28E-02	1.64E-02	9.74E-01	6.67E-04	9.74E-01	6.67E-04	6.87E-04	6.87E-04	3.44E-04	4.16E+01
F04CC1	GE 7F.04 1x1 Combined Cycle Gas Turbines	1.82E+00	1.75E+00	1.68E+00	1.63E+00	1.68E+00	1.63E+00	3.46E-01	3.46E-01	3.32E-01	2.21E+00
F04CC2	GE 7F.04 1x1 Combined Cycle Gas Turbines	1.82E+00	1.75E+00	1.68E+00	1.63E+00	1.68E+00	1.63E+00	3.46E-01	3.46E-01	3.32E-01	2.21E+00
F04CC3	GE 7F.04 1x1 Combined Cycle Gas Turbines	1.82E+00	1.75E+00	1.68E+00	1.63E+00	1.68E+00	1.63E+00	3.46E-01	3.46E-01	3.32E-01	2.21E+00
F04CC4	GE 7F.04 1x1 Combined Cycle Gas Turbines	1.82E+00	1.75E+00	1.68E+00	1.63E+00	1.68E+00	1.63E+00	3.46E-01	3.46E-01	3.32E-01	2.21E+00
F04CCSS1	GE 7F.04 1x1 Combined Cycle Gas Turbines SUSD	3.45E-02	1.72E-02	1.08E+00	7.43E-04	1.08E+00	7.43E-04	7.65E-04	7.65E-04	3.83E-04	4.37E+01
F04CCSS2	GE 7F.04 1x1 Combined Cycle Gas Turbines SUSD	3.45E-02	1.72E-02	1.08E+00	7.43E-04	1.08E+00	7.43E-04	7.65E-04	7.65E-04	3.83E-04	4.37E+01



Model ID	Source Description	NOx 1-Hr	NOx Ann	PM2.5 24-Hr	PM2.5 Ann	PM10 24-Hr	PM10 Ann	SO2 1-Hr	SO2 3 & 24-Hr	SO2 Ann	CO 1&8-Hr
F04CCSS3	GE 7F.04 1x1 Combined Cycle Gas Turbines SUSD	3.45E-02	1.72E-02	1.08E+00	7.43E-04	1.08E+00	7.43E-04	7.65E-04	7.65E-04	3.83E-04	4.37E+01
F04CCSS4	GE 7F.04 1x1 Combined Cycle Gas Turbines SUSD	3.45E-02	1.72E-02	1.08E+00	7.43E-04	1.08E+00	7.43E-04	7.65E-04	7.65E-04	3.83E-04	4.37E+01
7HACC1	7HA Combined Cycle	2.47E+00	2.28E+00	2.22E+00	2.28E+00	2.22E+00	2.13E+00	4.70E-01	4.70E-01	4.52E-01	3.01E+00
7HACC2	7HA Combined Cycle	2.47E+00	2.28E+00	2.22E+00	2.28E+00	2.22E+00	2.13E+00	4.70E-01	4.70E-01	4.52E-01	3.01E+00
7HACC3	7HA Combined Cycle	2.47E+00	2.28E+00	2.22E+00	2.28E+00	2.22E+00	2.13E+00	4.70E-01	4.70E-01	4.52E-01	3.01E+00
7HACC4	7HA Combined Cycle	2.47E+00	2.28E+00	2.22E+00	2.28E+00	2.22E+00	2.13E+00	4.70E-01	4.70E-01	4.52E-01	3.01E+00
7HACC5	7HA Combined Cycle	2.47E+00	2.28E+00	2.22E+00	2.28E+00	2.22E+00	2.13E+00	4.70E-01	4.70E-01	4.52E-01	3.01E+00
7HACC6	7HA Combined Cycle	2.47E+00	2.28E+00	2.22E+00	2.28E+00	2.22E+00	2.13E+00	4.70E-01	4.70E-01	4.52E-01	3.01E+00
7HACC7	7HA Combined Cycle	2.47E+00	2.28E+00	2.22E+00	2.28E+00	2.22E+00	2.13E+00	4.70E-01	4.70E-01	4.52E-01	3.01E+00
7HACCSS1	7HA Combined Cycle SUSD	1.07E-01	5.35E-02	4.24E+00	2.90E-03	4.24E+00	2.90E-03	2.99E-03	2.99E-03	1.50E-03	1.21E+02
7HACCSS2	7HA Combined Cycle SUSD	1.07E-01	5.35E-02	4.24E+00	2.90E-03	4.24E+00	2.90E-03	2.99E-03	2.99E-03	1.50E-03	1.21E+02



Model ID	Source Description	NOx 1-Hr	NOx Ann	PM2.5 24-Hr	PM2.5 Ann	PM10 24-Hr	PM10 Ann	SO2 1-Hr	SO2 3 & 24-Hr	SO2 Ann	CO 1&8-Hr
7HACCSS3	7HA Combined Cycle SUSD	1.07E-01	5.35E-02	4.24E+00	2.90E-03	4.24E+00	2.90E-03	2.99E-03	2.99E-03	1.50E-03	1.21E+02
7HACCSS4	7HA Combined Cycle SUSD	1.07E-01	5.35E-02	4.24E+00	2.90E-03	4.24E+00	2.90E-03	2.99E-03	2.99E-03	1.50E-03	1.21E+02
7HACCSS5	7HA Combined Cycle SUSD	1.07E-01	5.35E-02	4.24E+00	2.90E-03	4.24E+00	2.90E-03	2.99E-03	2.99E-03	1.50E-03	1.21E+02
7HACCSS6	7HA Combined Cycle SUSD	1.07E-01	5.35E-02	4.24E+00	2.90E-03	4.24E+00	2.90E-03	2.99E-03	2.99E-03	1.50E-03	1.21E+02
7HACCSS7	7HA Combined Cycle SUSD	1.07E-01	5.35E-02	4.24E+00	2.90E-03	4.24E+00	2.90E-03	2.99E-03	2.99E-03	1.50E-03	1.21E+02
MAN_1	MAN 18V51/60G generator	2.27E-01	2.14E-01	8.93E-02	8.42E-02	8.93E-02	8.42E-02	1.45E-02	1.45E-02	1.37E-02	1.97E-01
MAN_2	MAN 18V51/60G generator	2.27E-01	2.14E-01	8.93E-02	8.42E-02	8.93E-02	8.42E-02	1.45E-02	1.45E-02	1.37E-02	1.97E-01
MAN_3	MAN 18V51/60G generator	2.27E-01	2.14E-01	8.93E-02	8.42E-02	8.93E-02	8.42E-02	1.45E-02	1.45E-02	1.37E-02	1.97E-01
MAN_4	MAN 18V51/60G generator	2.27E-01	2.14E-01	8.93E-02	8.42E-02	8.93E-02	8.42E-02	1.45E-02	1.45E-02	1.37E-02	1.97E-01
MAN_5	MAN 18V51/60G generator	2.27E-01	2.14E-01	8.93E-02	8.42E-02	8.93E-02	8.42E-02	1.45E-02	1.45E-02	1.37E-02	1.97E-01
MAN_6	MAN 18V51/60G generator	2.27E-01	2.14E-01	8.93E-02	8.42E-02	8.93E-02	8.42E-02	1.45E-02	1.45E-02	1.37E-02	1.97E-01
MAN_7	MAN 18V51/60G generator	2.27E-01	2.14E-01	8.93E-02	8.42E-02	8.93E-02	8.42E-02	1.45E-02	1.45E-02	1.37E-02	1.97E-01

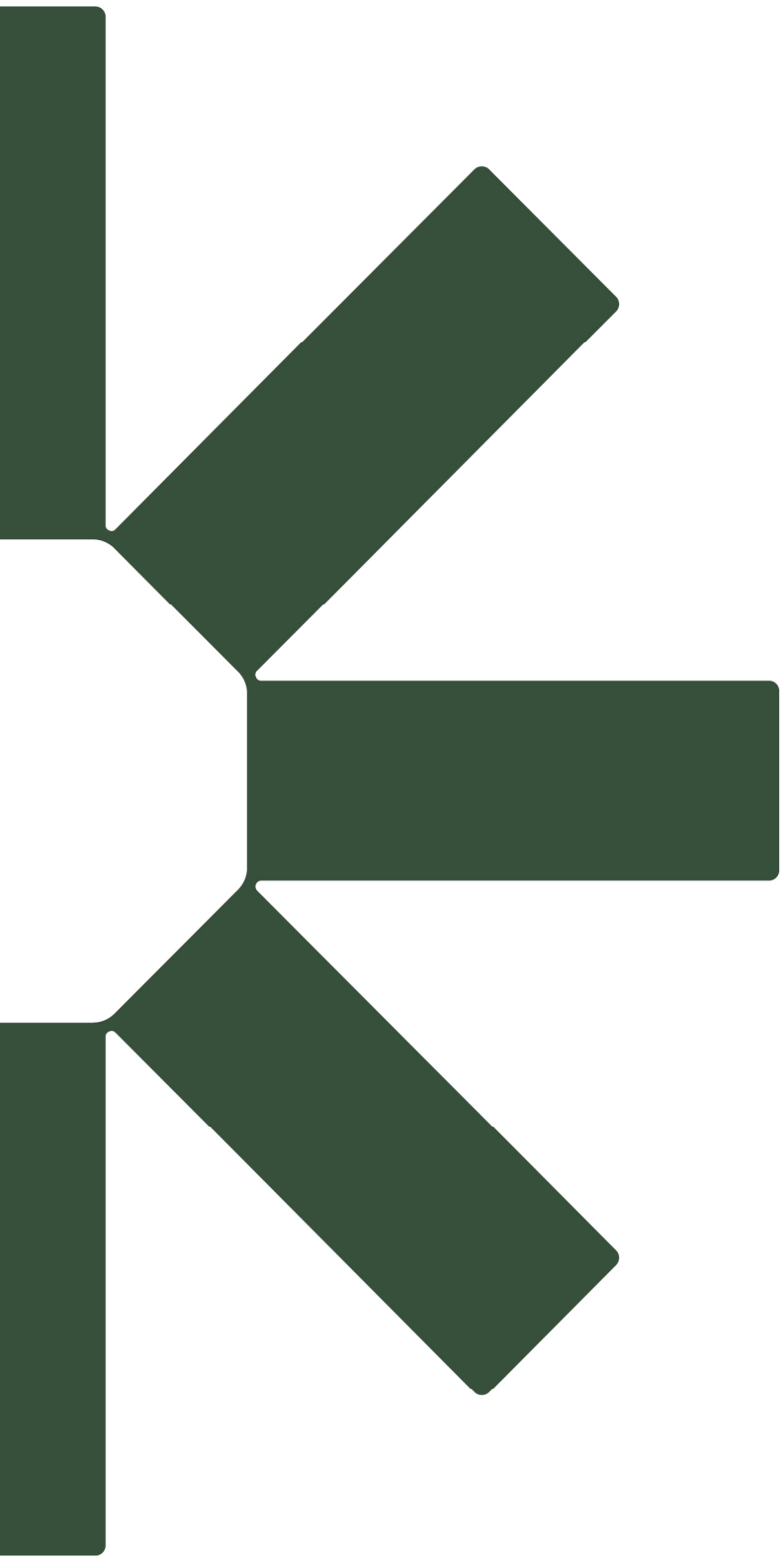


Model ID	Source Description	NOx 1-Hr	NOx Ann	PM2.5 24-Hr	PM2.5 Ann	PM10 24-Hr	PM10 Ann	SO2 1-Hr	SO2 3 & 24-Hr	SO2 Ann	CO 1&8-Hr
MAN_8	MAN 18V51/60G generator	2.27E-01	2.14E-01	8.93E-02	8.42E-02	8.93E-02	8.42E-02	1.45E-02	1.45E-02	1.37E-02	1.97E-01
MAN_9	MAN 18V51/60G generator	2.27E-01	2.14E-01	8.93E-02	8.42E-02	8.93E-02	8.42E-02	1.45E-02	1.45E-02	1.37E-02	1.97E-01
MAN_10	MAN 18V51/60G generator	2.27E-01	2.14E-01	8.93E-02	8.42E-02	8.93E-02	8.42E-02	1.45E-02	1.45E-02	1.37E-02	1.97E-01
MAN_11	MAN 18V51/60G generator	2.27E-01	2.14E-01	8.93E-02	8.42E-02	8.93E-02	8.42E-02	1.45E-02	1.45E-02	1.37E-02	1.97E-01
MAN_12	MAN 18V51/60G generator	2.27E-01	2.14E-01	8.93E-02	8.42E-02	8.93E-02	8.42E-02	1.45E-02	1.45E-02	1.37E-02	1.97E-01
MAN_13	MAN 18V51/60G generator	2.27E-01	2.14E-01	8.93E-02	8.42E-02	8.93E-02	8.42E-02	1.45E-02	1.45E-02	1.37E-02	1.97E-01
MAN_14	MAN 18V51/60G generator	2.27E-01	2.14E-01	8.93E-02	8.42E-02	8.93E-02	8.42E-02	1.45E-02	1.45E-02	1.37E-02	1.97E-01
MAN_15	MAN 18V51/60G generator	2.27E-01	2.14E-01	8.93E-02	8.42E-02	8.93E-02	8.42E-02	1.45E-02	1.45E-02	1.37E-02	1.97E-01
MAN_16	MAN 18V51/60G generator	2.27E-01	2.14E-01	8.93E-02	8.42E-02	8.93E-02	8.42E-02	1.45E-02	1.45E-02	1.37E-02	1.97E-01
MAN_17	MAN 18V51/60G generator	2.27E-01	2.14E-01	8.93E-02	8.42E-02	8.93E-02	8.42E-02	1.45E-02	1.45E-02	1.37E-02	1.97E-01
MAN_18	MAN 18V51/60G generator	2.27E-01	2.14E-01	8.93E-02	8.42E-02	8.93E-02	8.42E-02	1.45E-02	1.45E-02	1.37E-02	1.97E-01
MAN_19	MAN 18V51/60G generator	2.27E-01	2.14E-01	8.93E-02	8.42E-02	8.93E-02	8.42E-02	1.45E-02	1.45E-02	1.37E-02	1.97E-01



Model ID	Source Description	NOx 1-Hr	NOx Ann	PM2.5 24-Hr	PM2.5 Ann	PM10 24-Hr	PM10 Ann	SO2 1-Hr	SO2 3 & 24-Hr	SO2 Ann	CO 1&8-Hr
MAN_20	MAN 18V51/60G generator	2.27E-01	2.14E-01	8.93E-02	8.42E-02	8.93E-02	8.42E-02	1.45E-02	1.45E-02	1.37E-02	1.97E-01
MAN_21	MAN 18V51/60G generator	2.27E-01	2.14E-01	8.93E-02	8.42E-02	8.93E-02	8.42E-02	1.45E-02	1.45E-02	1.37E-02	1.97E-01
MAN_22	MAN 18V51/60G generator	2.27E-01	2.14E-01	8.93E-02	8.42E-02	8.93E-02	8.42E-02	1.45E-02	1.45E-02	1.37E-02	1.97E-01
MAN_23	MAN 18V51/60G generator	2.27E-01	2.14E-01	8.93E-02	8.42E-02	8.93E-02	8.42E-02	1.45E-02	1.45E-02	1.37E-02	1.97E-01
MAN_24	MAN 18V51/60G generator	2.27E-01	2.14E-01	8.93E-02	8.42E-02	8.93E-02	8.42E-02	1.45E-02	1.45E-02	1.37E-02	1.97E-01
EGN1_2	Emer Gen 1 - 2	1.38E-02	1.39E-02	2.39E-03	6.33E-04	2.39E-03	6.33E-04	7.48E-05	7.48E-05	5.75E-05	1.08E+00
EGN3_4	Emer Gen 3 - 4	1.38E-02	1.39E-02	2.39E-03	6.33E-04	2.39E-03	6.33E-04	7.48E-05	7.48E-05	5.75E-05	1.08E+00
EGN5_6	Emer Gen 5 - 6	1.38E-02	1.39E-02	2.39E-03	6.33E-04	2.39E-03	6.33E-04	7.48E-05	7.48E-05	5.75E-05	1.08E+00





Making Sustainability Happen

Texas Commission on Environmental Quality

Case-by-Case New Permit

Site Information (Regulated Entity)

What is the name of the site to be authorized?	Nexus Data Center Hubbard
Does the site have a physical address?	Yes
Physical Address	
Number and Street	880 STATE HIGHWAY 171
City	HUBBARD
State	TX
ZIP	76648
County	HILL
Latitude (N) (##.######)	
Longitude (W) (-###.######)	
Primary SIC Code	
Secondary SIC Code	
Primary NAICS Code	
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	RN112221833
What is the name of the Regulated Entity (RE)?	NEXUS DATA CENTER HUBBARD
Does the RE site have a physical address?	Yes
Physical Address	
Number and Street	880 STATE HIGHWAY 171
City	HUBBARD
State	TX
ZIP	76648
County	HILL
Latitude (N) (##.######)	
Longitude (W) (-###.######)	
Facility NAICS Code	518210
What is the primary business of this entity?	SELF-POWERED DATA CENTER

Customer (Applicant) Information

How is this applicant associated with this site?	Owner Operator
What is the applicant's Customer Number (CN)?	CN606391142
Type of Customer	Corporation
Full legal name of the applicant:	
Legal Name	Nexus Hubbard Power, LLC
Texas SOS Filing Number	805977730
Federal Tax ID	334420636
State Franchise Tax ID	32099570569
State Sales Tax ID	
Local Tax ID	
DUNS Number	137492603

Number of Employees	0-20
Independently Owned and Operated?	No
I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas.	Yes
Responsible Authority Contact	
Organization Name	Nexus Hubbard Power, LLC
Prefix	MR
First	Ivan
Middle	
Last	Van der Walt
Suffix	
Credentials	
Title	CEO
Responsible Authority Mailing Address	
Enter new address or copy one from list:	RE Physical Address
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	1725 HUGHES LANDING BLVD STE 11
Routing (such as Mail Code, Dept., or Attn:)	
City	THE WOODLANDS
State	TX
ZIP	77380
Phone (###-###-####)	7134442970
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	ivan@nexus-datacenters.com

Responsible Official Contact

Person TCEQ should contact for questions about this application:	
Same as another contact?	
Organization Name	Nexus Hubbard Power, LLC
Prefix	MR
First	Jerry
Middle	
Last	Schafer
Suffix	
Credentials	
Title	Director of Regulatory Affairs & Permitting
Enter new address or copy one from list:	RE Physical Address
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	1725 HUGHES LANDING BLVD STE 11
Routing (such as Mail Code, Dept., or Attn:)	
City	THE WOODLANDS
State	TX
ZIP	77380

Phone (###-###-####)	2014554743
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	jerry@nexus-datacenters.com

Technical Contact

Person TCEQ should contact for questions about this application:	
Same as another contact?	Responsible Official Contact
Organization Name	Nexus Hubbard Power, LLC
Prefix	MR
First	Jerry
Middle	
Last	Schafer
Suffix	
Credentials	
Title	Director of Regulatory Affairs & Permitting
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	1725 HUGHES LANDING BLVD STE 11
Routing (such as Mail Code, Dept., or Attn:)	
City	THE WOODLANDS
State	TX
ZIP	77380
Phone (###-###-####)	2014554743
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	jerry@nexus-datacenters.com

Case by Case General Information-New Sites

1) Is this application a re-submittal of a project voided within the last six months?	No
2) Is this application for a portable facility?	No
3) What type of new authorization are you applying for?	CONSTRUCT
3.1. Are there any associated federal Prevention of Significant Deterioration (PSD), Nonattainment (NA), or major source hazardous pollutants Federal Clean Air Act § 112(g) permits?	No
3.2. Are there any Permits by Rule (PBR) or standard exemptions associated to be incorporated?	Yes
3.2.1. Select from list of active Registrations associated with the RN of the type PBR which are to be referenced with this state permit.	
3.2.2. Select from list of active Registrations associated with the RN of the type PBR which	180353, PBR

are to be consolidated with this state permit.	
3.3. List any PBR or standard exemptions with date claimed that need to be referenced that the TCEQ was previously not required to be notified of (unregistered PBR and standard exemptions).	None
3.4. List any PBR or standard exemptions with date claimed that need to be consolidated that the TCEQ was previously not required to be notified of (unregistered PBR and standard exemptions).	None
3.5. Are there any standard permits associated with this permit to be incorporated?	Yes
3.5.1. Select from list of active registrations associated with the RN of the type STDPMT which are to be referenced with this state permit.	
3.5.2. Select from list of active Registrations associated with the RN of the type STDPMT which are to be consolidated with this state permit.	180320, STDPMT
3.6. Are there any other permits to be consolidated into this permit?	No
3.7. Are there any other permits that should be voided as part of this application for any reason other than consolidation into this permit?	No

Case by Case Application Requirements

1) Is a completed Form PI-1 General Application attached with all supporting documentation?	Yes
2) Is an air quality impacts demonstration required?	Yes
2.1. Is the application for a major New Source Review (federal or PSD) permit?	Yes
2.1.1. Is a completed Modeling Protocol with all supporting documentation being attached?	Yes
3) Do the emissions from the proposed facility comply with all rules and regulations of the commission and with the intent of the Texas Clean Air Act (TCAA), including protection of the health and property of the public?	Yes
4) Does the application contain provisions for measuring emissions of significant air contaminants?	Yes
5) Does the application contain a best available control technology (BACT) evaluation for all facilities subject to the TCAA?	Yes
6) Is the proposed facility subject to a New Source Performance Standard (Title 40 Code of Federal Regulation (CFR) Part 60 (NSPS)?	Yes
6.1. If yes, does the application contain a NSPS evaluation for all facilities subject to the TCAA, as listed in Title 40 CFR Part 60?	Yes
7) Is the proposed facility subject to a National Emission Standard for Hazardous Air Pollutants (Title 40 CFR Part 61) (NESHAP)?	No
8) Is the proposed facility subject to National Emission Standard for Hazardous Air Pollutants (Title 40 CFR Part 63) (MACT) evaluation required?	Yes

8.1. If yes, does the application contain a MACT evaluation for all facilities subject to the TCAA, as listed in Title 40 CFR Part 63?	Yes
9) Is a nonattainment review (NA) and/or prevention of significant deterioration (PSD) evaluation required?	Yes
9.1. If yes, does the application contain a NA and/or PSD evaluation for all facilities subject to the TCAA?	Yes
10) Does the application contain information to demonstrate that the proposed facility will achieve the performance specified in its permit?	Yes
11) If subject to Chapter 101, Subchapter H, Division 3 (relating to Mass Emissions Cap and Trade Program), the proposed facility, group of facilities, or account must obtain allowances to operate. Have the allowances been identified for the facilities contained in the application?	NA
12) Is the facility an affected source (as defined in 116.15(1)) for hazardous air pollutants?	No

Case by Case Table 30

1) Do nonattainment permitting requirements apply to this application?	No
2) Do prevention of significant deterioration permitting requirements apply to this application?	Yes
3) Enter the total permit application fee (non-renewal) based on your estimated capital cost.	75000

Case by Case Attachments

If the file size for any attachment is greater than 50MB, then combine all non-excel files into one PDF document and use the FTP process to create an account at https://ftps.tceq.texas.gov/ut.php, upload files, and share to APIRT@tceq.texas.gov. Detailed instructions can be found at https://ftps.tceq.texas.gov/help/.

Attach Form PI-1 General Application.

[File Properties]

File Name	NSR_WORKBOOK_20260213_060214.xlsx
Hash	AC2D573CF94F5105A78EDFAFD63F965CFF138EF0F2AB856C5A3A17357E5F28B3
MIME-Type	application/vnd.openxmlformats-officedocument.spreadsheetml.sheet
Confidential	No

Attach Electronic Modeling Evaluation Workbook (EMEW), MERA, or Protocol.

Attach executive summary, introduction, and process description documents.

[File Properties]

File Name	EXEC_SUMMARY_20260213_060453.pdf
Hash	48B8A9D6E18B862D0DFD8DA4BC713D050853C79A88F668117FEDCBA07A0C9148

MIME-Type	application/pdf
Confidential	No

Attach area map, plot plan, and process flow diagram.

Attach federal applicability description.

Attach the Best Available Control Technology (BACT) demonstration.

Attach Emission Calculation.

[File Properties]

File Name	EMISSIONS_CALCULATIONS_20260213_054717.xlsx
Hash	F23B5CCBF1987415AEF665F930C880E2E422923D3C7A1E3E159B6D9DB64AFC0A
MIME-Type	application/vnd.openxmlformats-officedocument.spreadsheetml.sheet
Confidential	No

[File Properties]

File Name	EMISSIONS_CALCULATIONS_20260213_055807.xlsx
Hash	C5AC00D39CA7F4F1A85E580187C1086E3F85A8A48733A1CD8D88769C538B1919
MIME-Type	application/vnd.openxmlformats-officedocument.spreadsheetml.sheet
Confidential	No

Attach Material balance documentation.

Attach all equipment tables.

Attach netting forms (1F, 2F, 3F, and 4F).

Attach any other necessary information needed to complete the permit.

An additional space to attach any other necessary information needed to complete the permit.

Expedite Case by Case

1) Per Texas Health and Safety Code, Section 382.05155, does the applicant want to expedite the processing of this application?	Yes
1.1. Can the applicant demonstrate that the purpose of this application will benefit the economy of this state or an area of this state?	Yes
1.2. Select the applicable expedited surcharge	20000

Certification

The electronic signature below indicates that the Responsible Official has knowledge of the facts herein set forth and that the same are true, accurate, and complete to the best of my knowledge and belief. I further state that to the best of my knowledge and belief, the project for which application is made will not in any way violate any provision of the Texas Water Code (TWC), Chapter 7, Texas Clean Air Act (TCAA), as amended, or any of the air quality rules and regulations of the Texas Commission on Environmental Quality or any local governmental ordinance or resolution enacted pursuant to the TCAA. I further state that I understand my signature indicates that this application meets all applicable

nonattainment, prevention of significant deterioration, or major source of hazardous air pollutant permitting requirements. I further state that I have read and understand TWC 7.177-7.183, which defines CRIMINAL OFFENSES for certain violations, including intentionally or knowingly making or causing to be made false material statements or representations in this application, and TWC 7.187, pertaining to CRIMINAL PENALTIES.

1. I am Jerry Schafer, the owner of the STEERS account ER112984.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcemer of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing Case-by-Case New Permit.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEC

OWNER OPERATOR Signature: Jerry Schafer OWNER OPERATOR

Account Number:	ER112984
Signature IP Address:	23.116.120.214
Signature Date:	2026-02-13
Signature Hash:	FE66C65A1D34D3CC2BDAA399F8E5BDC13A5905872A5ACA2DA646298DF1F2B656
Form Hash Code at time of Signature:	25A83F3DDB30D548C01C3093351C0F5BBBBB64400F5DCC63DA759B158DEA666F

Fee Payment

Fee Amount:	$75000.00
Wire Transfer date:	The application fee was paid on 2026-02-13
Receipt Number:	The check number is WRS0067168

Fee Payment

Fee Amount:	$20000.00
Wire Transfer date:	The expedited fee was paid on 2026-02-13
Receipt Number:	The check number is WRS0067167

Submission

Reference Number:	The application reference number is 891566
Submitted by:	The application was submitted by ER112984/Jerry Schafer
Submitted Timestamp:	The application was submitted on 2026-02-17 at 15:19:05 CST
Submitted From:	The application was submitted from IP address 129.222.76.211
Confirmation Number:	The confirmation number is 745264
Steers Version:	The STEERS version is 6.94

Additional Information

Application Creator: This account was created by Donald D Bradley III