



Department of Energy
National Nuclear Security Administration
Sandia Field Office
P.O. Box 5400
Albuquerque, NM 87185



03/14/2022

Isreal Tavarez
Manager, Environmental Health Department
Air Quality Program
1 Civic Plaza NW, Room 3023
P.O. Box 1293
Albuquerque, New Mexico 87103

Subject: Application for a Construction Permit to install a New Emergency Generator at Sandia National Laboratories/New Mexico - Building No. 814

Dear Mr. Tavarez:

In accordance with New Mexico Administrative Code (NMAC) 20.11.41.29, enclosed is the Subject application to install a new emergency generator at Sandia National Laboratories, New Mexico (SNL/NM). The request is for the installation of a 1490 hp emergency generator, which will operate for 500 hours or less per year, at SNL/NM's new building No. 814, Emergency Operations Center, which is owned by the Department of Energy.

If you have questions, please contact Carolyn Holloway of our staff at (505) 845-5248, or Carolyn.Holloway@nnsa.doe.gov.

Sincerely,

Conrad S. Valencia
Conrad S. Valencia
Acting Assistant Manager for Engineering

Digitally signed by Conrad S. Valencia
Date: 2022.03.14 08:49:07 -06'00'

Enclosure

Application for a Construction Permit at SNL/NM Building No. 814 for a 1490 hp Emergency Generator

cc w enclosure:
City of Albuquerque at aqd@cabq.gov
Callan Pope, SNL/NM
Carolyn Holloway, SFO/ENG

cc w/o enclosure:
Rhett Zyla, SNL/NM
Conrad Valencia, SFO/ENG
Doris Sandoval-Tellez, SFO/ENG
NNSA-2022-001791

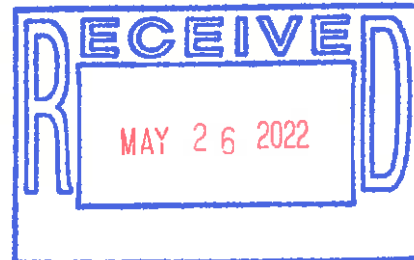




Table of Contents

1. Pre-Permit Application Meeting

- a. Pre-permit Application Meeting Request
- b. Pre-permit Application Meeting Agenda and Checklist

2. Public Notice

- a. Notice of Intent to Construct Forms:
 - i. Public Notice Email
 - ii. Notice of Intent
 - iii. List of Neighborhood Coalitions and Associations
- b. Public Sign Notice Guidelines
- c. Public Notice Sign Photograph

3. Air Permit Application

- a. Required Permit Application Forms:
 - i. Permit Application Checklist
 - ii. Permit Application Review Fee Checklist
 - iii. Short Permit Application Form
- b. Plot Plan identifying the location of the new emergency generator
 - i. USGS 7.5'- Quadrangle Map
 - ii. Google Map
- c. Process flow diagram
- d. Emission calculations and supporting information used to calculate emissions
- e. Regulatory Requirements
- f. Operational and Maintenance Strategy
- g. Air Dispersion Modeling Ambient Impact Analysis

EXECUTIVE SUMMARY

In accordance with 20.11.41.29 NMAC, the U.S. Department of Energy (DOE) is submitting this application to install a new 1490 hp emergency generator unit. The new unit will be located at Sandia National Laboratories/New Mexico's (SNL/NM's) new Emergency Operations Center (EOC), Building 814.

Per City of Albuquerque Air Quality Program's Internal Combustion Engine Permitting Policy, SNL/NM personnel and the DOE are requesting to operate the emergency generator for a maximum of 500 hours per year. The generator will only be operated during unavoidable loss of commercial power or during required maintenance/exercising.

1. PRE-PERMIT APPLICATION MEETING

SNL/NM personnel and the DOE met with the Department on 12/02/2021 from 2:00 – 2:45PM to discuss two separate upcoming applications, including this application to install a new emergency generator.

- a) Pre-permit Application Meeting Request
- b) Pre-permit Application Meeting Agenda and Checklist

1.a. Pre-permit Application Meeting Request



Pre-Permit Application Meeting Request Form

Air Quality Program- Environmental Health Department

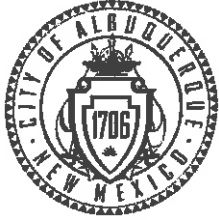
Please complete appropriate boxes and email to aqd@cabq.gov or mail to:

Environmental Health Department
 Air Quality Program
 P.O. Box 1293
 Room 3047
 Albuquerque, NM 87103

Name:	Carolyn Holloway and/or Penny Avery
Company/Organization:	Department of Energy, Sandia Field Office (DOE/SFO)/Sandia National Laboratory/New Mexico (SNL/NM)
Point of Contact: (phone number and email): Preferred form of contact (circle one): Phone <input checked="" type="radio"/> E-mail	Phone: (505) 845-5248/(505) 273-1047 Email: carolyn.holloway@doe.nnsa.gov rpavery@sandia.gov
Preferred meeting date/times:	Nov 30 th after 10AM, Dec 1 st 9-10:30AM or between 12-3, Dec 2 nd 9-10:30AM or between 2-4PM
Description of Project(s):	Building 814/EOC: Installation of a 1000kW emergency diesel generator at the new Emergency Operations Center building. This generator will only be operated during unavoidable loss of commercial power or during required maintenance/testing for a maximum of 500 hours per year. Building 963: Modifying the existing permit #1900 to install a 300kW emergency diesel generator at building 963. This generator will only be operated during unavoidable loss of commercial power or during required maintenance/testing for a maximum of 500 hours per year.

City of Albuquerque- Environmental Health Department
 Air Quality Program- Permitting Section
 Phone: (505) 768-1972 Email: aqd@cabq.gov

1.b. Pre-Permit Application Meeting Agenda and Checklist



City of Albuquerque

Environmental Health Department

Air Quality Program



Pre-Permit Application Meeting Checklist

Any person seeking a permit under 20.11.41 NMAC, Authority-to-Construct Permits, shall do so by filing a written application with the Department. Prior to submitting an application, the applicant shall contact the department in writing and request a pre-application meeting for information regarding the contents of the application and the application process. This checklist is provided to aid the applicant and a **copy must be submitted with the application.**

Applications that are ruled incomplete because of missing information will delay any determination or the issuance of the permit. The Department reserves the right to request additional relevant information prior to ruling the application complete in accordance with 20.11.41 NMAC.

Name: Building 814 (EOC) – New Emergency Generator

Contact: Carolyn Holloway (505) 845-5248/Penny Avery (505) 273-1047

Company/Business: Dept. of Energy/Sandia Field Office (DOE/SFO)/Sandia National Laboratories/New Mexico (SNL/NM)

- Fill out and submit a Pre-Permit Application Meeting Request form
 - ⇒ Available online at <http://www.cabq.gov/airquality>
 - ⇒ Pre-permit Application Meeting took place on 12/02/2021, 2:00 – 2:45 PM

- Emission Factors and Control Efficiencies
Notes: None

- Air Dispersion modeling guidelines and protocol
Notes: N/A, application is for an emergency generator.

- Department Policies
Notes: None

- Air quality permit fees
Notes: None

- Public notice requirements

Ver. 11/13

City of Albuquerque- Environmental Health Department
Air Quality Program- Permitting Section
Phone: (505) 768-1972 Email: aqd@cabq.gov

- Replacement Part 41 Implementation
 - 20.11.41.13 B. Applicant's public notice requirements
 - Providing public notice to neighborhood association/coalitions
 - Neighborhood association: _____
 - Coalition: _____
- Notes: Neighborhood associations and coalitions were requested after the meeting and provided by the Department.

- Posting and maintaining a weather-proof sign
- Notes: None

- Regulatory timelines
 - 30 days to rule application complete
 - 90 days to issue completed permit
 - Additional time allotted if there is significant public interest and/or a significant air quality issue
 - Public Information Hearing
 - Complex permitting action

Notes: N/A



City of Albuquerque

Environmental Health Department

Air Quality Program



Pre-Permit Application Meeting Agenda Template

Any person seeking a permit under 20.11.41 NMAC, Construction Permits, shall do so by filing a written application with the Air Quality Program (Program). Prior to submitting an application, per 20.11.41.13.A. NMAC the applicant (or their consultant) shall contact the Program in writing and submit a Pre-permit Application Meeting Request form requesting a pre-application meeting for information regarding the contents of the application and the application process. This form is available at <https://www.cabq.gov/airquality/documents/FINALprepermitapplicationmeetingrequestform.doc>

This template is provided to aid the Program in ensuring that in the pre-permit application meeting all information regarding the contents of the application and the application process are communicated to the applicant. This is because applications that are ruled incomplete because of missing information will delay any determination or the issuance of the permit. The Program reserves the right to request additional relevant information prior to ruling the application complete in accordance with 20.11.41 NMAC.

Pre-application Meeting for Department of Energy, Sandia National Laboratory Meeting Agenda

Thursday, December 2, 2021
2:00 PM – 2:45 PM (MST)

Invitees: Carolyn Holloway, Penny Avery, Isreal Tavarez, Carina Munoz-Dyer, Paul Puckett, Elizabeth Pomo

Discuss Project:

Building 814/EOC: Installation of a 1000kW emergency diesel generator at the new Emergency Operations Center building. This generator will only be operated during unavoidable loss of commercial power or during required maintenance/testing for a maximum of 500 hours per year.

Building 963: Modifying the existing permit #1900 to install a 300kW emergency diesel generator at building 963. This generator will only be operated during unavoidable loss of commercial power or during required maintenance/testing for a maximum of 500 hours per year.

- a. Location
- b. Facility Description
- c. Main Processes
- d. Equipment
- e. Proposed Schedule

II. If permit modification or revision, review current permit:

- a. Review Process Equipment Table and Emissions Table and discuss changes

Ver. 4/30/21

City of Albuquerque- Environmental Health Department
Air Quality Program- Permitting Division
Phone: (505) 768-1972 Email: aqd@cabq.gov

- b. Request information about the replacement or new equipment (for example, if it is an engine, we need to know if it be new, what year, fuel type, etc...) to give them an idea of the changes that will be needed
 - c. Discuss possible changes in permit conditions
- III. Air Dispersion modeling process, procedures and options:
 - a. When modeling is required and possibility of waivers
 - b. Protocol process, purpose, and time frame
 - c. Preliminary review, purpose, and time frame
 - d. Full review and time frame
 - e. Peer reviews
 - f. Assumptions in the modeling become permit conditions
 - g. NED data should be used instead of DEM data for assigning elevations to receptors, sources, buildings, etc.
- IV. Applicant's public notice requirements
 - a. During the same month application package will be submitted, ask Program for memo of neighborhood associations/coalitions within ½ mile of facility
 - b. Fill out and send Notice of Intent to Construct form to neighborhood associations/coalitions listed in memo:
<https://documents.cabq.gov/environmental-health/airquality/Forms/Notice%20of%20Intent%2003152021.pdf>
 - c. Post and maintain a weather-proof sign. Signs are available in the downtown Program office:
<https://www.cabq.gov/airquality/documents/FINALpublicnoticesignguidelines.doc>
- V. Regulatory timelines
 - a. 30 days to rule application complete
 - b. 90 days after ruled complete for permitting decision
 - c. 30-day public comment period
 - d. Public interest in application:
 - i. 30-day review of technical analysis
 - ii. 90-day extension for permitting decision
 - e. Request for Public Information Hearing - 90-day extension for permitting decision
 - f. Complex technical issues in application - 90-day extension for permitting decision
 - g. If application ruled incomplete it stops timeline
- VI. Department Policies
 - a. Applications will be ruled incomplete if any parts from Permit Application Checklist missing
 - b. Review fees paid in full are part of the application package
 - c. Discuss payment format (by check, credit card or online)
 - d. Use the most recent Permit Application Checklist, link below:
<https://www.cabq.gov/airquality/documents/FINALpermitapplicationchecklist.doc>
 - e. After three tries, permit application denied and application must start over including repayment of fees
- VII. Additional Questions?

2. PUBLIC NOTICE

Attached to this section are all completed public notice requirements including:

- a) Notice of Intent to Construct Forms:
 - o Public Notice Email
 - o Notice of Intent
 - o List of Neighborhood Coalitions and Associations
- b) Public Sign Notice Guidelines
- c) Public Notice Sign Photograph

2.a. Notice of Intent to Construct Forms

From: [Moore, Tami L.](#)
To: info@willsonstudio.com; mandy@theremedaydayspa.com; "brasher@aps.edu"; dreikeja@comcast.net; jamesw.andrews01@gmail.com; "eastgatewaycoalition@gmail.com"; admin@eastmountaincoalition.org; ldavis@eastmountaincoalition.org; sp-wonderwoman@comcast.net; spbrugge@gmail.com; elkalevah@aol.com; richtriple777@msn.com; dayna.mares76@gmail.com; idalialt@gmail.com; lamesainternationaldistrict@gmail.com; mldarling56@yahoo.com; phnacommunications@gmail.com; kp-shna@centurylink.net; siesta2na.pres@gmail.com; debsla@swcp.com; sdmartos91@gmail.com; notices@slananm.org; contact@slananm.org; khadijahasili@vizionz.org; zabdiel505@gmail.com; pmbdoc@yahoo.com; jpate@molzencorbin.com; alyceice@gmail.com; landry54@msn.com; mawsdf@comcast.net; pmeyer@sentrymgt.com; samijoster@gmail.com; donalddlove08@comcast.net; klove726@gmail.com; yalevillage@comcast.net; elderhomesteadna@gmail.com; rvanglar@gmail.com; mrklous@aol.com; siesta2napres@gmail.com
Cc: [Pope, Callan](#); [Holloway, Carolyn \(EGDS\)](#); [Avery, Penny](#); [Schuh, Paula](#)
Subject: [EXTERNAL] Public Notice of Proposed Air Quality Construction Permit Application
Date: Tuesday, January 25, 2022 4:07:49 PM
Attachments: [Notice of Intent_EOC.pdf](#)

Dear Neighborhood Association/Coalition Representative(s),

Why did I receive this public notice?

You are receiving this notice in accordance with New Mexico Administrative Code (NMAC) 20.11.41.13.B(1) which requires any applicant seeking an Air Quality Construction Permit pursuant to 20.11.41 NMAC to provide public notice by certified mail or electronic mail to the designated representative(s) of the recognized neighborhood associations and recognized coalitions that are within one-half mile of the exterior boundaries of the property on which the source is or is proposed to be located.

What is the Air Quality Permit application review process?

The City of Albuquerque, Environmental Health Department, Air Quality Program (Program) is responsible for the review and issuance of Air Quality Permits for any stationary source of air contaminants within Bernalillo County. Once the application is received, the Program reviews each application and rules it either complete or incomplete. Complete applications will then go through a 30-day public comment period. Within 90 days after the Program has ruled the application complete, the Program shall issue the permit, issue the permit subject to conditions, or deny the requested permit or permit modification. The Program shall hold a Public Information Hearing pursuant to 20.11.41.15 NMAC if the Director determines there is significant public interest and a significant air quality issue is involved.

What do I need to know about this proposed application?

Applicant Name	United States Department of Energy (DOE)
Site or Facility Name	Building 814 (Emergency Operations Center)
Site or Facility Address	Wyoming Blvd. SE and K St. SE, UTM: 358763.00m E, 3879907.00m N
New or Existing Source	New Source
Anticipated Date of Application Submittal	February 28, 2022
Summary of Proposed Source to Be Permitted	Installation of a new Tier 4 emergency diesel generator.

What emission limits and operating schedule are being requested?

See attached Notice of Intent to Construct form for this information.

How do I get additional information regarding this proposed application?

For inquiries regarding the proposed source, contact:

- Tami Moore – DOE Public Affairs Director
- tami.moore@mnsa.doe.gov
- (505) 845-5264

For inquiries regarding the air quality permitting process, contact:

- City of Albuquerque Environmental Health Department Air Quality Program
- aqd@cabq.gov
- (505) 768-1972

NOTICE FROM THE APPLICANT

Notice of Intent to Apply for Air Quality Construction Permit

You are receiving this notice because the New Mexico Air Quality Control Act (20.11.41.13B NMAC) requires any owner/operator proposing to construct or modify a facility subject to air quality regulations to provide public notice by certified mail or electronic mail to designated representatives of recognized neighborhood associations and coalitions within 0.5-mile of the property on which the source is or is proposed to be located.

This notice indicates that the owner/operator intends to apply for an Air Quality Construction Permit from the Albuquerque – Bernalillo County Joint Air Quality Program. Currently, no application for this proposed project has been submitted to the Air Quality Program. Applicants are required to include a copy of this form and documentation of mailed notices with their Air Quality Construction Permit Application.

Proposed Project Information

Applicant's name**and address:**

Nombre y domicilio del solicitante:

Department of Energy
Sandia Field Office (SFO)
P.O. Box 5400, Albuquerque, NM, 87185

Owner / operator's name and address:

Nombre y domicilio del propietario u operador:

Sandia National Laboratories
P.O. Box 5800 MS 1512, Albuquerque, NM 87185-1512

Contact for comments and inquires:

Datos actuales para comentarios y preguntas:

Name (*Nombre*): Tami Moore - DOE Public Affairs Director

Address (*Domicilio*): PO Box 5400, Albuquerque, NM 87185

Phone Number (*Número Telefónico*): (505) 845-5264

E-mail Address (*Correo Electrónico*): tami.moore@nnsa.doe.gov

Actual or estimated date the application will be submitted to the department:

Fecha actual o estimada en que se entregará la solicitud al departamento: February 28, 2022

Description of the source:

Descripción de la fuente: Emergency Generator

Exact location of the source or proposed source:

Ubicación exacta de la fuente o fuente propuesta:

Building 814, Emergency Operations Center (Wyoming Blvd. SE and K St. SE) UTM: 358763.00m E, 3879907.00m N

Nature of business:

Tipo de negocio: Research and Development

Process or change for which the permit is requested:

Proceso o cambio para el cuál de solicita el permiso:

Addition of an emergency diesel generator

Maximum operating schedule:

Horario máximo de operaciones: 24 hrs/day, up to 500 hrs/yr

Normal operating schedule:

Horario normal de operaciones: Up to 1 hr/month for maintenance and testing; and as needed for loss of power

Preliminary estimate of the maximum quantities of each regulated air contaminant the source will emit:
Estimación preliminar de las cantidades máximas de cada contaminante de aire regulado que la fuente va a emitir:

Air Contaminant <i>Contaminante de aire</i>	Proposed Construction Permit <i>Permiso de Construcción Propuesto</i>		Net Changes (for permit modification or technical revision) <i>Cambio Neto de Emisiones</i> <i>(para modificación de permiso o revisión técnica)</i>	
	pounds per hour <i>libras por hora</i>	tons per year <i>toneladas por año</i>	pounds per hour <i>libras por hora</i>	tons per year <i>toneladas por año</i>
CO	8.58	2.15	N/A	N/A
NOx	1.64	0.41	N/A	N/A
VOC	0.47	0.12	N/A	N/A
SO2	0.015	0.004	N/A	N/A
PM10	0.07	0.02	N/A	N/A
PM2.5	0.07	0.02	N/A	N/A
HAP	N/A	N/A	N/A	N/A

Questions or comments regarding this Notice of Intent should be directed to the Applicant. Contact information is provided with the Proposed Project Information on the first page of this notice. To check the status of an Air Quality Construction Permit application, call 311 and provide the Applicant's information, or visit www.cabq.gov/airquality/air-quality-permits.

The Air Quality Program will issue a Public Notice announcing a 30-day public comment period on the permit application for the proposed project when the application is deemed complete. The Air Quality Program does not process or issue notices on applications that are deemed incomplete. More information about the air quality permitting process is attached to this notice.

Air Quality Construction Permitting Overview

This is the typical process to obtain an Air Quality Construction Permit for Synthetic Minor and Minor sources of air pollution from the Albuquerque – Bernalillo County Joint Air Quality Program.

Step 1: Pre-application Meeting: The Applicant and their consultant must request a meeting with the Air Quality Program to discuss the proposed action. If air dispersion modeling is required, Air Quality Program staff discuss the modeling protocol with the Applicant to ensure that all proposed emissions are considered.

Notice of Intent from the Applicant: Before submitting their application, the Applicant is required to notify all nearby neighborhood associations and interested parties that they intend to apply for an air quality permit or modify an existing permit. The Applicant is also required to post a notice sign at the facility location.

Step 2: Administrative Completeness Review and Preliminary Technical Review: The Air Quality Program has 30 days from the day the permit is received to review the permit application to be sure that it is administratively complete. This means that all application forms must be signed and filled out properly, and that all relevant technical information needed to evaluate any proposed impacts is included. If the application is not complete, the permit reviewer will return the application and request more information from the Applicant. Applicants have three opportunities to submit an administratively complete application with all relevant technical information.

Public Notice from the Department: When the application is deemed complete, the Department will issue a Public Notice announcing a 30-day public comment period on the permit application. This notice is distributed to the same nearby neighborhood associations and interested parties that the Applicant sent notices to, and published on the Air Quality Program's website.

During this 30-day comment period, individuals have the opportunity to submit written comments expressing their concerns or support for the proposed project, and/or to request a Public Information Hearing. If approved by the Environmental Health Department Director, Public Information Hearings are held after the technical analysis is complete and the permit has been drafted.

Step 3: Technical Analysis and Draft Permit: Air Quality Program staff review all elements of the proposed operation related to air quality, and review outputs from advanced air dispersion modeling software that considers existing emission levels in the area surrounding the proposed project, emission levels from the proposed project, and meteorological data. The total calculated level of emissions is compared to state and federal air quality standards and informs the decision on whether to approve or deny the Applicant's permit.

Draft Permit: The permit will establish emission limits, standards, monitoring, recordkeeping, and reporting requirements. The draft permit undergoes an internal peer review process to determine if the emissions were properly evaluated, permit limits are appropriate and enforceable, and the permit is clear, concise, and consistent.

Public Notice from the Department: When the technical analysis is complete and the permit has been drafted, the Department will issue a second Public Notice announcing a 30-day public comment period on the technical analysis and draft permit. This second Public Notice, along with the technical analysis documentation and draft permit, will be published on the Air Quality Program's website, and the public notice for availability of the technical analysis and draft permit will only be directly sent to those who requested further information during the first comment period.

Air Quality Construction Permitting Overview

During this second 30-day comment period, residents have another opportunity to submit written comments expressing their concerns or support for the proposed project, and/or to request a Public Information Hearing.

Possible Public Information Hearing: The Environmental Health Department Director may decide to hold a Public Information Hearing for a permit application if there is significant public interest and a significant air quality issue. If a Public Information Hearing is held, it will occur after the technical analysis is complete and the permit has been drafted.

Step 4: Public Comment Evaluation and Response: The Air Quality Program evaluates all public comments received during the two 30-day public comment periods and Public Information Hearing, if held, and updates the technical analysis and draft permit as appropriate. The Air Quality Program prepares a response document to address the public comments received, and when a final decision is made on the permit application, the comment response document is published on the Air Quality Program's website and distributed to the individuals who participated in the permit process. If no comments are received, a response document is not prepared.

Step 5: Final Decision on the Application: After public comments are addressed and the final technical review is completed, the Environmental Health Department makes a final decision on the application. If the permit application meets all applicable requirements set forth by the New Mexico Air Quality Control Act and the federal Clean Air Act, the permit is approved. If the permit application does not meet all applicable requirements, it is denied.

Notifications of the final decision on the permit application and the availability of the comment response document is published on the Air Quality Program's website and distributed to the individuals who participated in the permit process.

The Department must approve a permit application if the proposed action will meet all applicable requirements and if it demonstrates that it will not result in an exceedance of ambient air quality standards. Permit writers are very careful to ensure that estimated emissions have been appropriately identified or quantified and that the emission data used are acceptable.

The Department must deny a permit application if it is deemed incomplete three times, if the proposed action will not meet applicable requirements, if estimated emissions have not been appropriately identified or quantified, or if the emission data are not acceptable for technical reasons.

For more information about air quality permitting, visit www.cabq.gov/airquality/air-quality-permits



Timothy M. Keller,
Mayor

Public Participation

**List of Neighborhood Associations
and Neighborhood Coalitions
MEMORANDUM**

To: Penny Avery, Air Quality Compliance Program Lead
From: Elizabeth Pomo, Environmental Health Scientist
Subject: Determination of Neighborhood Associations and Coalitions
 within 0.5 mile of Kirtland Air Force Base in Bernalillo County, NM
Date: December 15, 2021

DETERMINATION:

On December 15, 2021 I used the City of Albuquerque Zoning Advanced Map Viewer (<http://coagisweb.cabq.gov/>) to verify which City of Albuquerque Neighborhood Associations (NA), Homeowner Associations (HOA) and Neighborhood Coalitions (NC) are located within 0.5 mile of Kirtland Air Force Base in Bernalillo County, NM.

I then used the City of Albuquerque Office (COA) of Neighborhood Coordination’s Monthly Master NA List dated December 2021 and the Bernalillo County (BC) Monthly Neighborhood Association December 2021 Excel file to determine the contact information for each NA and NC located within 0.5 mile of Kirtland Air Force Base in Bernalillo County, NM.

The table below contains the contact information, which will be used in the City of Albuquerque Environmental Health Department’s public notice. Duplicates have been deleted.

COA/BC Association or Coalition	Name	Email or Mailing Address*
District 6 Coalition of Neighborhood Associations	Patricia Willson Mandy Warr	info@willsonstudio.com ; mandy@theremedaydayspa.com ;
East Gateway Coalition	Michael Brasher James Andrews Julie Dreike Association Email	brasher@aps.edu ; jamesw.andrews01@gmail.com ; dreikeja@comcast.net ; eastgatewaycoalition@gmail.com ;
East Mountain District 5 Coalition	Lisa Davis Coalition Email	ldavis@eastmountaincoalition.org ; admin@eastmountaincoalition.org ;
Elder Homestead Neighborhood Association	M. Ryan Kious Sandra Perea Association Email	mrkious@aol.com ; sp-wonderwoman@comcast.net ; elderhomesteadna@gmail.com ;
Four Hills Village Association	Steve Brugge Ellen Lipman	spbrugge@gmail.com ; elkaleyah@aol.com ;
Juan Tabo Hills Neighborhood Association	Ryan Giar Richard Lujan	ryangiar@gmail.com ; richtriple777@msn.com ;
La Mesa Community Improvement Association	Dayna Mares Idalia Lechuga-Tena	dayna.mares76@gmail.com ; idalialt@gmail.com ;



**Timothy M. Keller,
Mayor**

Public Participation

**List of Neighborhood Associations
and Neighborhood Coalitions
MEMORANDUM**

	Association Email	
		lamesainternationaldistrict@gmail.com ;
Parkland Hills Neighborhood Association	Mary Darling Robert Leming	mldarling56@yahoo.com ; phnapresident@gmail.com ;
Siesta Hills Neighborhood Association	Rachel Baca Kathy Pierson	siesta2napres@gmail.com ; kp-shna@centurylink.net ;
South Los Altos Neighborhood Association	Debbie Conger Stephen Martos-Ortiz Association Email	notices@slananm.org ; debsla@swcp.com ; sdmartos91@gmail.com ; contact@slananm.org ;
South San Pedro Neighborhood Association	Khadijah Bottom Zabdiel Aldaz	khadijahasili@vizionz.org ; zabdiel505@gmail.com ;
Southeast Heights Neighborhood Association	Pete Belletto John Pate	pmbdoc@yahoo.com ; jpate@molzencorbin.com ;
Trumbull Village Association	Alyce Ice Joanne Landry	alyceice@gmail.com ; landry54@msn.com ;
Victory Hills Neighborhood Association	Melissa Williams Patricia Wilson	mawsdf@comcast.net ; info@willsonstudio.com ;
Willow Wood Neighborhood Association	Pamela Meyer Samantha Martinez	pmeyer@sentrymgt.com ; samijoster@gmail.com ;
Yale Village Neighborhood Association	Donald Love Kim Love Association Email	donaldlove08@comcast.net ; klove726@gmail.com ; yalevillage@comcast.net ;

****If email address is not listed, provide public notice via certified mail and include a copy of each mail receipt with the application submittal.***



Timothy M. Keller,
Mayor

Public Participation

List of Neighborhood Associations and Neighborhood Coalitions MEMORANDUM

To: Callan Pope, Sandia National Laboratories
From: Elizabeth Pomo, Senior Environmental Health Scientist
Subject: Determination of Neighborhood Associations and Coalitions
within 0.5 mile of Kirtland Air Force Base in Bernalillo County, NM
Date: May 19, 2022

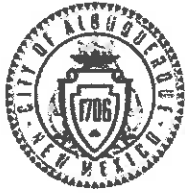
DETERMINATION:

On May 19, 2022 I used the City of Albuquerque Zoning Advanced Map Viewer (<http://coagisweb.cabq.gov>) to verify which City of Albuquerque Neighborhood Associations (NA), Homeowner Associations (HOA) and Neighborhood Coalitions (NC) are located within 0.5 mile of Kirtland Air Force Base in Bernalillo County, NM.

I then used the City of Albuquerque Office (COA) of Neighborhood Coordination's Monthly Master NA List dated May 2022 and the Bernalillo County (BC) Monthly Neighborhood Association May 2022 Excel file to determine the contact information for each NA and NC located within 0.5 mile of Kirtland Air Force Base in Bernalillo County, NM.

The table below contains the contact information, which will be used in the City of Albuquerque Environmental Health Department's public notice. Duplicates have been deleted.

COA/BC Association or Coalition	Name	Email or Mailing Address*
District 6 Coalition of Neighborhood Associations	Patricia Willson Mandy Warr	info@willsonstudio.com ; mandy@theremedaydayspa.com ;
East Gateway Coalition	Michael Brasher Julie Dreike Association Email	brasher@aps.edu ; dreikeja@comcast.net ; eastgatewaycoalition@gmail.com ;
East Mountain District 5 Coalition	Lisa Davis Darci Roark Coalition Email	ldavis@eastmountaincoalition.org ; info@eastmountaincoalition.org ; admin@eastmountaincoalition.org ;
Elder Homestead Neighborhood Association	M. Ryan Kious Sandra Perea Association Email	mrkious@aol.com ; sp-wonderwoman@comcast.net ; elderhomesteadna@gmail.com ;
Four Hills Village Association	Steve Brugge Ellen Lipman Linda Martinez Andrew Lipman	sbrugge@gmail.com ; elkaleyah@aol.com ; lam0426@msn.com ; fhvapres@gmail.com ;
Juan Tabo Hills Neighborhood Association	Ryan Giar Richard Lujan	ryangiar@gmail.com ; richtriple777@msn.com ;



Timothy M. Keller,
Mayor

Public Participation

List of Neighborhood Associations and Neighborhood Coalitions MEMORANDUM

La Mesa Community Improvement Association	Dayna Mares Idalia Lechuga-Tena Association Email	dayna.mares76@gmail.com ; idalialt@gmail.com ; latesainternationaldistrict@gmail.com ;
Parkland Hills Neighborhood Association	Mary Darling Janet Simon Association Email	mldarwin56@yahoo.com ; phnacommunications@gmail.com ; phnapresident@gmail.com ;
Siesta Hills Neighborhood Association	Rachel Baca Kathy Pierson	siesta2napres@gmail.com ; kp-shna@centurylink.net ;
South Los Altos Neighborhood Association	Jim Ahrend Stephen Martos-Ortiz Association Email	jimarend@gmail.com ; sdmartos91@gmail.com ; contact@slananm.org ;
South San Pedro Neighborhood Association	Khadijah Bottom Zabdiel Aldaz	khadijahasili@vizionz.org ; zabdiel505@gmail.com ;
Southeast Heights Neighborhood Association	Pete Belletto John Pate	pmbdoc@yahoo.com ; jpate@molzencorbin.com ;
Trumbull Village Association	Alyce Ice Joanne Landry	alyceice@gmail.com ; landry54@msn.com ;
Victory Hills Neighborhood Association	Melissa Williams Patricia Wilson	mawsdf@comcast.net ; info@willsonstudio.com ;
Willow Wood Neighborhood Association	Pamela Meyer Samantha Martinez	pmeyer@sentrymgmt.com ; samijoster@gmail.com ;
Yale Village Neighborhood Association	Donald Love Kim Love Association Email	donaldlove08@comcast.net ; klove726@gmail.com ; yalevillage@comcast.net ;

2.b. Public Sign Notice Guidelines



City of Albuquerque

Environmental Health Department

Air Quality Program



Public Notice Sign Guidelines

Any person seeking a permit under 20.11.41 NMAC, Authority-to-Construct Permits, shall do so by filing a written application with the Department. *Prior to submitting an application, the applicant shall post and maintain a weather-proof sign provided by the department. The applicant shall keep the sign posted until the department takes final action on the permit application; if an applicant can establish to the department's satisfaction that the applicant is prohibited by law from posting, at either location required, the department may waive the posting requirement and may impose different notification requirements. A copy of this form must be submitted with your application.*

Applications that are ruled incomplete because of missing information will delay any determination or the issuance of the permit. The Department reserves the right to request additional relevant information prior to ruling the application complete in accordance with 20.11.41 NMAC.

Name: Department of Energy

Contact: Tami Moore (DOE)

Company/Business: Address: PO Box 5400, Albuquerque, NM 87185

Phone Number: (505) 845-5264

Email Address: tami.moore@nnsa.doe.gov

- The sign must be posted at the more visible of either the proposed or existing facility entrance (or, if approved in advance and in writing by the department, at another location on the property that is accessible to the public)
- The sign shall be installed and maintained in a condition such that members of the public can easily view, access, and read the sign at all times.
- The lower edge of the sign board should be mounted a minimum of 2' above the existing ground surface to facilitate ease of viewing
- Attach a picture of the completed, properly posted sign to this document
- Check here if the department has waived the sign posting requirement.
Alternative public notice details:

2.c. Public Notice Sign Photograph



Proposed Air Quality Construction Permit

Permiso de Construcción de Calidad del Aire Propuesto



1. **Applicant's Name:** Department of Energy Sandia Field Office.
Nombre del solicitante: _____
- Owner or Operator's Name:** Sandia National Laboratories
Nombre del Propietario u Operador: _____
2. **Actual or Estimated Date the Application will be Submitted to the Department:** November 1, 2021
Fecha Actual o Estimada en que se Entragará la Solicitud al Departamento: _____
3. **Exact Location of the Source or Proposed Source:** Emergency operator's Center
Ubicación Exacta de la Fuente o Fuente Propuesta: Building 8H, Wyoming Blvd. SE & K ST SE
UTM: 358763 East, 3879907 North
4. **Description of the Source:** Emergency Generator
Descripción del Fuente: _____
Nature of Business: Research and Development
Tipo de Negocio: _____
Process or change for which a permit is requested: Addition of emergency diesel generator
Proceso o cambio para el cuál se solicita el permiso: _____

Preliminary estimate of the maximum quantities of each regulated air contaminant the source will emit:
Estimación preliminar de las cantidades máximas de cada contaminante de aire regulado que la fuente va a emitir:

Air Contaminant Contaminante de Aire	Proposed Construction Permit Permiso de Construcción Propuesto		Net Change Emissions (for permit modification or technical revision) Cambio Neto de Emisiones (para modificación de permiso o revisión técnica)	
	Pounds per hour libros por hora	Tons per year toneladas por año	Pounds per hour libros por hora	Tons per year toneladas por año
CO	8.58	2.15	N/A	N/A
NOX	1.64	0.41	N/A	N/A
SO2	0.015	0.004	N/A	N/A
PM10	0.07	0.02	N/A	N/A
PM2.5	0.07	0.02	N/A	N/A
HAP	N/A	N/A	N/A	N/A
VOC	0.47	0.12	N/A	N/A

5. **Maximum Operating Schedule:** 24 hrs/day, up to 500 hrs/yr
Horario Máximo de Operaciones: _____
- Normal Operation Schedule:** up to 1 hr/month for maintenance & testing; AS needed for loss of power
Horario Normal de Operaciones: _____
6. **Current Contact Information for Comments and Inquiries**
Datos actuales para Comentarios y Preguntas
 - Name (Nombre):** Tami Moore - DOE Public Affairs Director
 - Address (Domicilio):** PO Box 5400, Albuquerque, NM 87185
 - Phone Number (Número Telefónico):** (505) 845-5264
 - Email Address (Correo Electrónico):** tami.moore@nnsa.doe.gov

Call 311 for additional information concerning this project, the Air Quality Program, or to file a complaint.
Llame al 311 para obtener información adicional sobre este proyecto, del Programa de Calidad del Aire, o para presentar una queja.
Gọi 311 để biết thêm thông tin hoặc để khiếu nại về dự án này, Chương Trình Chất Lượng Không Khí

City of Albuquerque, Environmental Health Department, Air Quality Program - Stationary Source Permitting
Ciudad de Albuquerque, Departamento de Salud Ambiental, Programa de Calidad del Aire - Permisos para Fuentes Inmóviles
(505) 768-1972, aqd@cabq.gov

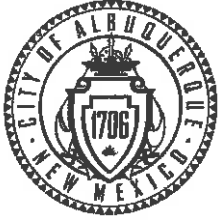
THIS SIGN SHALL REMAIN POSTED UNTIL THE DEPARTMENT TAKES FINAL ACTION ON THE PERMIT APPLICATION
ESTE AVISO DEBERÁ DE MANTENERSE PUESTO HASTA QUE EL DEPARTAMENTO TOMA UNA DECISIÓN SOBRE LA SOLICITUD DE PERMISO

3. AIR PERMIT APPLICATION

Attached to this section are as follows:

- a) Required Permit Application Forms:
 - o Permit Application Checklist
 - o Permit Application Review Fee Checklist
 - o Short Permit Application Form
- b) Plot Plan identifying the location of the new emergency generator
 - o USGS 7.5'- Quadrangle Map
 - o Google Map
- c) Process flow diagram
- d) Emission calculations and supporting information used to calculate emissions
- e) Regulatory Requirements
- f) Operational and Maintenance Strategy
- g) Air Dispersion Modeling Ambient Impact Analysis

3.a. Required Permit Application Forms



City of Albuquerque

Environmental Health Department

Air Quality Program



Permit Application Checklist

Any person seeking a permit under 20.11.41 NMAC, Authority-to-Construct Permits, shall do so by filing a written application with the Department. Prior to ruling a submitted application complete each application submitted shall contain the required items listed below. **This checklist must be returned with the application.**

Applications that are ruled incomplete because of missing information will delay any determination or the issuance of the permit. The Department reserves the right to request additional relevant information prior to ruling the application complete in accordance with 20.11.41 NMAC.

All applicants shall:

1. Fill out and submit the *Pre-permit Application Meeting Request* form
 - a. Attach a copy to this application

2. Attend the pre-permit application meeting
 - a. Attach a copy of the completed *Pre-permit Application Meeting Checklist* to this application

3. Provide public notice to the appropriate parties
 - a. Attach a copy of the completed *Notice of Intent to Construct* form to this form
 - i. Neighborhood Association(s): See attached memo from Elizabeth Pomo
 - ii. Coalition(s): _____
 - b. Attach a copy of the completed *Public Sign Notice Guideline* form

4. Fill out and submit the *Permit Application*. All applications shall:
 - A. be made on a form provided by the Department. Additional text, tables, calculations or clarifying information may also be attached to the form.
 - B. at the time of application, include documentary proof that all applicable permit application review fees have been paid as required by 20 NMAC 11.02. Please refer to the attached permit application worksheet.
 - C. contain the applicant's name, address, and the names and addresses of all other owners or operators of the emission sources.
 - D. contain the name, address, and phone number of a person to contact regarding questions about the facility.

- E. indicate the date the application was completed and submitted
- F. contain the company name, which identifies this particular site.
- G. contain a written description of the facility and/or modification including all operations affecting air emissions.
- H. contain the maximum and standard operating schedules for the source after completion of construction or modification in terms of hours per day, days per week, and weeks per year.
- I. provide sufficient information to describe the quantities and nature of any regulated air contaminant (including any amount of a hazardous air pollutant) that the source will emit during:
 - Normal operation
 - Maximum operation
 - Abnormal emissions from malfunction, start-up and shutdown
- J. include anticipated operational needs to allow for reasonable operational scenarios to avoid delays from needing additional permitting in the future.
- K. contain a map, such as a 7.5-minute USGS topographic quadrangle, showing the exact location of the source; and include physical address of the proposed source.
- L. contain an aerial photograph showing the proposed location of each process equipment unit involved in the proposed construction, modification, relocation, or technical revision of the source except for federal agencies or departments involved in national defense or national security as confirmed and agreed to by the department in writing.
- M. contain the UTM zone and UTM coordinates.
- N. include the four digit Standard Industrialized Code (SIC) and the North American Industrial Classification System (NAICS).
- O. contain the types and potential emission rate amounts of any regulated air contaminants the new source or modification will emit. Complete appropriate sections of the application; attachments can be used to supplement the application, but not replace it.
- P. contain the types and controlled amounts of any regulated air contaminants the new source or modification will emit. Complete appropriate sections of the application; attachments can be used to supplement the application, but not replace it.
- Q. contain the basis or source for each emission rate (include the manufacturer's specification sheets, AP-42 Section sheets, test data, or other data when used as the source).

- R. contain all calculations used to estimate potential emission rate and controlled emissions.
 - S. contain the basis for the estimated control efficiencies and sufficient engineering data for verification of the control equipment operation, including if necessary, design drawings, test reports, and factors which affect the normal operation (e.g. limits to normal operation).
 - T. contain fuel data for each existing and/or proposed piece of fuel burning equipment.
 - U. contain the anticipated maximum production capacity of the entire facility and the requested production capacity after construction and/or modification.
 - V. contain the stack and exhaust gas parameters for all existing and proposed emission stacks.
 - W. provide an ambient impact analysis using a atmospheric dispersion model approved by the US Environmental Protection Agency (EPA), and the Department to demonstrate compliance with the ambient air quality standards for the City of Albuquerque and Bernalillo County (See 20.11.01 NMAC). If you are modifying an existing source, the modeling must include the emissions of the entire source to demonstrate the impact the new or modified source(s) will have on existing plant emissions.
- N/A – Air dispersion modeling impact analysis requirement is waived for emergency generators (see Section 3.g.)**
- X. contain a preliminary operational plan defining the measures to be taken to mitigate source emissions during malfunction, startup, or shutdown.
 - Y. contain a process flow sheet, including a material balance, of all components of the facility that would be involved in routine operations. Indicate all emission points, including fugitive points.
 - Z. contain a full description, including all calculations and the basis for all control efficiencies presented, of the equipment to be used for air pollution control. This shall include a process flow sheet or, if the Department so requires, layout and assembly drawings, design plans, test reports and factors which affect the normal equipment operation, including control and/or process equipment operating limitations.
 - AA. contain description of the equipment or methods proposed by the applicant to be used for emission measurement.
 - BB. be signed under oath or affirmation by a corporate officer, authorized to bind the company into legal agreements, certifying to the best of his or her knowledge the truth of all information submitted.



City of Albuquerque

Environmental Health Department

Air Quality Program



Permit Application Review Fee Instructions

All source registration, authority-to-construct, and operating permit applications for stationary or portable sources shall be charged an application review fee according to the fee schedule in 20.11.2 NMAC. These filing fees are required for both new construction, reconstruction, and permit modifications applications. Qualified small businesses as defined in 20.11.2 NMAC may be eligible to pay one-half of the application review fees and 100% of all applicable federal program review fees.

Please fill out the permit application review fee checklist and submit with a check or money order payable to the "City of Albuquerque Fund 242" and either:

1. be delivered in person to the Albuquerque Environmental Health Department, 3rd floor, Suite 3023 or Suite 3027, Albuquerque-Bernalillo County Government Center, south building, One Civic Plaza NW, Albuquerque, NM or,
2. mailed to Attn: Air Quality Program, Albuquerque Environmental Health Department, P.O. Box 1293, Albuquerque, NM 87103.

The department will provide a receipt of payment to the applicant. The person delivering or filing a submittal shall attach a copy of the receipt of payment to the submittal as proof of payment. Application review fees shall not be refunded without the written approval of the manager. If a refund is requested, a reasonable professional service fee to cover the costs of staff time involved in processing such requests shall be assessed. Please refer to 20.11.2 NMAC (effective January 10, 2011) for more detail concerning the "Fees" regulation as this checklist does not relieve the applicant from any applicable requirement of the regulation.



City of Albuquerque

Environmental Health Department Air Quality Program



Permit Application Review Fee Checklist Effective January 1, 2022 – December 31, 2022

Please completely fill out the information in each section. Incompleteness of this checklist may result in the Albuquerque Environmental Health Department not accepting the application review fees. If you should have any questions concerning this checklist, please call 768-1972.

I. COMPANY INFORMATION:

Company Name	United States Department of Energy (DOE)		
Company Address	1515 Wyoming Boulevard SE, Albuquerque NM, 87116		
Facility Name	Sandia National Laboratories/New Mexico		
Facility Address	Wyoming Blvd. SE and K St SE (EOC, Building 814)		
Contact Person	Carolyn Holloway (SFO)/ Penny Avery (SNL/NM)		
Contact Person Phone Number	(505) 845-5248/ (505) 273-1047		
Are these application review fees for an existing permitted source located within the City of Albuquerque or Bernalillo County?	Yes	<input checked="" type="radio"/> No	
If yes, what is the permit number associated with this modification?	Permit #		
Is this application review fee for a Qualified Small Business as defined in 20.11.2 NMAC? (See Definition of Qualified Small Business on Page 4)	Yes	<input checked="" type="radio"/> No	

II. STATIONARY SOURCE APPLICATION REVIEW FEES:

If the application is for a new stationary source facility, please check all that apply. If this application is for a modification to an existing permit please see Section III.

Check All That Apply	Stationary Sources	Review Fee	Program Element
Air Quality Notifications			
	AQN New Application	\$599.00	2801
	AQN Technical Amendment	\$327.00	2802
	AQN Transfer of a Prior Authorization	\$327.00	2803
X	<i>Not Applicable</i>	<i>See Sections Below</i>	
Stationary Source Review Fees (Not Based on Proposed Allowable Emission Rate)			
	Source Registration required by 20.11.40 NMAC	\$ 592.00	2401
	A Stationary Source that requires a permit pursuant to 20.11.41 NMAC or other board regulations and are not subject to the below proposed allowable emission rates	\$ 1,220.00	2301
X	<i>Not Applicable</i>	<i>See Sections Below</i>	
Stationary Source Review Fees (Based on the Proposed Allowable Emission Rate for the single highest fee pollutant)			
X	Proposed Allowable Emission Rate Equal to or greater than 1 tpy and less than 5 tpy	\$915	2302
	Proposed Allowable Emission Rate Equal to or greater than 5 tpy and less than 25 tpy	\$1,830	2303
	Proposed Allowable Emission Rate Equal to or greater than 25 tpy and less than 50 tpy	\$3,661	2304
	Proposed Allowable Emission Rate Equal to or greater than 50 tpy and less than 75 tpy	\$5,491	2305
	Proposed Allowable Emission Rate Equal to or greater than 75 tpy and less than 100 tpy	\$7,321	2306
	Proposed Allowable Emission Rate Equal to or greater than 100 tpy	\$9,152	2307
	<i>Not Applicable</i>	<i>See Section Above</i>	

Federal Program Review Fees (In addition to the Stationary Source Application Review Fees above)			
X	40 CFR 60 - "New Source Performance Standards" (NSPS)	\$1,220	2308
	40 CFR 61 - "Emission Standards for Hazardous Air Pollutants (NESHAPs)	\$1,220	2309
	40 CFR 63 - (NESHAPs) Promulgated Standards	\$1,220	2310
	40 CFR 63 - (NESHAPs) Case-by-Case MACT Review	\$12,202	2311
	20.11.61 NMAC, Prevention of Significant Deterioration (PSD) Permit	\$6,101	2312
	20.11.60 NMAC, Non-Attainment Area Permit	\$6,101	2313
	<i>Not Applicable</i>	<i>Not Applicable</i>	

III. MODIFICATION TO EXISTING PERMIT APPLICATION REVIEW FEES:

If the permit application is for a modification to an existing permit, please check all that apply. If this application is for a new stationary source facility, please see Section II.

Check All That Apply	Modifications	Review Fee	Program Element
Modification Application Review Fees (Not Based on Proposed Allowable Emission Rate)			
	Proposed modification to an existing stationary source that requires a permit pursuant to 20.11.41 NMAC or other board regulations and are not subject to the below proposed allowable emission rates	\$ 1,220	2321
X	<i>Not Applicable</i>	<i>See Sections Below</i>	
Modification Application Review Fees (Based on the Proposed Allowable Emission Rate for the single highest fee pollutant)			
	Proposed Allowable Emission Rate Equal to or greater than 1 tpy and less than 5 tpy	\$915	2322
	Proposed Allowable Emission Rate Equal to or greater than 5 tpy and less than 25 tpy	\$1,830	2323
	Proposed Allowable Emission Rate Equal to or greater than 25 tpy and less than 50 tpy	\$3,661	2324
	Proposed Allowable Emission Rate Equal to or greater than 50 tpy and less than 75 tpy	\$5,491	2325
	Proposed Allowable Emission Rate Equal to or greater than 75 tpy and less than 100 tpy	\$7,321	2326
	Proposed Allowable Emission Rate Equal to or greater than 100 tpy	\$9,152	2327
X	<i>Not Applicable</i>	<i>See Section Above</i>	
Major Modifications Review Fees (In addition to the Modification Application Review Fees above)			
	20.11.60 NMAC, Permitting in Non-Attainment Areas	\$6,101	2333
	20.11.61 NMAC, Prevention of Significant Deterioration	\$6,101	2334
X	<i>Not Applicable</i>	<i>Not Applicable</i>	
Federal Program Review Fees (This section applies only if a Federal Program Review is triggered by the proposed modification) (These fees are in addition to the Modification and Major Modification Application Review Fees above)			
	40 CFR 60 - "New Source Performance Standards" (NSPS)	\$1,220	2328
	40 CFR 61 - "Emission Standards for Hazardous Air Pollutants (NESHAPs)	\$1,220	2329
	40 CFR 63 - (NESHAPs) Promulgated Standards	\$1,220	2330
	40 CFR 63 - (NESHAPs) Case-by-Case MACT Review	\$12,202	2331
	20.11.61 NMAC, Prevention of Significant Deterioration (PSD) Permit	\$6,101	2332
	20.11.60 NMAC, Non-Attainment Area Permit	\$6,101	2333
X	<i>Not Applicable</i>	<i>Not Applicable</i>	

IV. ADMINISTRATIVE AND TECHNICAL REVISION APPLICATION REVIEW FEES:

If the permit application is for an administrative or technical revision of an existing permit issued pursuant to 20.11.41 NMAC, please check one that applies.

Check One	Revision Type	Review Fee	Program Element
	Administrative Revisions	\$ 250.00	2340
	Technical Revisions	\$ 500.00	2341
X	Not Applicable	See Sections II, III or V	

V. PORTABLE STATIONARY SOURCE RELOCATION FEES:

If the permit application is for a portable stationary source relocation of an existing permit, please check one that applies.

Check One	Portable Stationary Source Relocation Type	Review Fee	Program Element
	No New Air Dispersion Modeling Required	\$ 500.00	2501
	New Air Dispersion Modeling Required	\$ 750.00	2502
X	Not Applicable	See Sections II, III or V	

VI. Please submit a check or money order in the amount shown for the total application review fee.

Section Totals	Review Fee Amount
Section II Total	\$ 2,135.00
Section III Total	\$ 0.00
Section IV Total	\$ 0.00
Section V Total	\$ 0.00
Total Application Review Fee	\$ 2,135.00

I, the undersigned, a responsible official of the applicant company, certify that to the best of my knowledge, the information stated on this checklist, give a true and complete representation of the permit application review fees which are being submitted. I also understand that an incorrect submittal of permit application reviews may cause an incompleteness determination of the submitted permit application and that the balance of the appropriate permit application review fees shall be paid in full prior to further processing of the application.

Signed this _____ day of _____ 20____

Conrad S. Valencia

Acting Assistant Manager for Engineering

Print Name

Print Title

Conrad S.

Digitally signed by Conrad S. Valencia
Date: 2022.03.14 08:46:20 -0600

Valencia

Signature

Definition of Qualified Small Business as defined in 20.11.2 NMAC:

“Qualified small business” means a business that meets all of the following requirements:

- (1) a business that has 100 or fewer employees;
- (2) a small business concern as defined by the federal Small Business Act;
- (3) a source that emits less than 50 tons per year of any individual regulated air pollutant, or less than 75 tons per year of all regulated air pollutants combined; and
- (4) a source that is not a major source or major stationary source.

Note: Beginning January 1, 2011, and every January 1 thereafter, an increase based on the consumer price index shall be added to the application review fees. The application review fees established in Subsection A through D of 20.11.2.18 NMAC shall be adjusted by an amount equal to the increase in the consumer price index for the immediately-preceding year. Application review fee adjustments equal to or greater than fifty cents (\$0.50) shall be rounded up to the next highest whole dollar. Application review fee adjustments totaling less than fifty cents (\$0.50) shall be rounded down to the next lowest whole dollar. The department shall post the application review fees on the city of Albuquerque environmental health department air quality program website.



City of Albuquerque
Environmental Health Department
Air Quality Program

Please mail this application to **P.O. Box 1293, Albuquerque, NM 87103**
 or hand deliver between 8:00am - 5:00pm Monday - Friday to:
3rd Floor, Suite 3023 - One Civic Plaza NW, Albuquerque, New Mexico 87103
(505) 768 - 1972 aqd@cabq.gov (505) 768 - 1977 (Fax)



20.11.41 NMAC Air Quality Permit Application
For

EMERGENCY DIESEL ENGINES

SUBJECT TO FEDERAL (USEPA) NEW SOURCE PERFORMANCE STANDARDS (NSPS)

Section 1. General Information

Date Submitted: 7/5/2022

1. Company Name: United States Department of Energy (DOE) Ph: (505) 845-5178 Email: conrad.valencia@nnsa.doe.gov
2. Company Address: 1515 Wyoming Boulevard S.E. City: Albuquerque State: NM Zip: 87123
3. Company Mailing Address (if different): Sandia Field Office (SFO) Post Office Box 5400, Albuquerque, NM Zip: 87185
4. Company Contact: Conrad S. Valencia Title: Acting Assistant Manager, Engineering Ph: (505) 845-4776 Email: conrad.valencia@nnsa.doe.gov
5. Facility Name: Sandia National Laboratories / New Mexico (SNL/NM) Facility Hours: 6:00 am TO 5:00 pm
6. Facility Address: Building 814 (Emergency Operations Center, EOC) Wyoming Blvd. SE and K St. SE City: Albuquerque State: NM Zip: 87123
7. Local Business Mailing Address (if different): Post Office Box 5800, Mail Stop 1512, Albuquerque, NM, 87185-1512 Email: conrad.valencia@nnsa.doe.gov
8. Facility Environmental Contact: Carolyn Holloway/Penny Avery Title: General Engineer/AQC Program Lead Ph: (505)845-5248/ (505) 273-1047
 Fax: N/A
9. Email: carolyn.holloway@nnsa.doe.gov/rpavery@sandia.gov 10. Type of Business: Research and Development
11. Environmental Consultant Name and Email Address (if applicable): N/A
12. North American Industry Classification System (NAICS): 541712 13. Standard Industrial Classification (SIC): 8733
14. UTM coordinates (required): E - 358763 N - 3879907 15. Facility Ph: (505) 845-5248 Fax: (505) 845 - 4710
16. Billing Contact: Penny Avery Title: Air Quality Compliance Program Lead Ph: (505) 273 - 1047 Fax: N/A
17. Billing Address: See "Local Business Mailing Address" above City: N/A State: N/A Zip: N/A
18. Is this an Initial Installation; OR Modification of an Existing Unit: Initial Modification 19. Current or requested operating hrs/yr: 500
20. Is engine or genset installed: Yes No If yes, date installed: / / If no, anticipated installation date: 07 / 01 / 2022

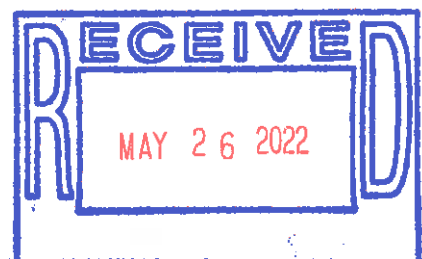
Provide an engine spec sheet and a detailed site plan or plat of the property where engine or genset is to be installed.

Section 2. Compression Ignition Internal Combustion Engine for Stationary Emergency Engines

Provide engine rating in horsepower (Hp) as determined by manufacturer's spec sheet.

Process Equipment Unit	Manufacturer	Model Number	Serial Number	Manufacturer Date	Modification Date	Engine Size In Horsepower (Hp)	Size of Generator In kilowatts (kW)
Example Engine	Unigen	B-2500	A56732195C-222	02/2008	N/A	375	N/A
Example Generator	Gentor	A56789B234	XYZ13247586	02/2008	N/A	N/A	280 kW
Engine	Cummins	QST30-G17	TBD	*TBD	N/A	1490 Hp	N/A

*Manufacture Date will likely be 2020 or later.



Section 3. Stack and Emissions Information

Stack Height Above Ground & Stack Diameter In Feet		Stack Temperature	Stack Flow Rate & Exit Direction
Example 18 feet – Height	0.42 feet – Diameter	625 °F	3,000 ft ³ /min – Flow Rate Exit - upward
17.5 feet – Height	1.5 feet - Diameter	869°F	7,469 ft ³ /min – Flow Rate Exit - upward

Section 4. Potential Emission Rate (Uncontrolled Emissions)

Use manufacturer's data, compliance performance stack test data or the attached USEPA Emission Factors in grams per horsepower-hour (g/Hp-hr) associated with the Engine's Horsepower Rating and Model Year

Model Year	Pollutant	Emission Factors g/Hp-hr	T I M E S	Actual Engine Hp	E Q U A L S	Emission In Grams Per Hour	D I V I D E	Grams Per Pound	E Q U A L S	Emission in Pounds Per Hour	T I M E S	Potential Operating Hours Per Year	D I V I D E	Pounds Per Ton	E Q U A L S	Emission In Tons Per Year
E X A M P L E 2008	CO	2.6	x	375 Hp	=	975	+	453.6	=	2.15	x	8,760	+	2,000	=	9.4
	NO _x	0.3	x		=	112.5	+		=	0.25	x	8,760	+	2,000	=	1.1
	NMHC	0.14	x		=	52.5	+		=	0.12	x	8,760	+	2,000	=	0.53
	*NO _x + NMHC	3.0	x		=	1,125	+		=	2.48	x	8,760	+	2,000	=	10.86
	**SO _x	0.93	x		=	348.8	+		=	0.77	x	8,760	+	2,000	=	3.37
	***PM	0.15	x		=	56.25	+		=	0.12	x	8,760	+	2,000	=	0.53
	CO															
	NO _x															
	NMHC															
	*NO _x + NMHC															
	**SO _x															
	***PM															

See attached Emission Calculations

* If the USEPA Emission Factor or manufacturer's data is given as combined NO_x + NMHC, also provide individual emission factors for NO_x and NMHC from the manufacturer or other approved methodology for estimating individual emission factors.

** Manufacturer's SO_x factor shall be used when larger than the USEPA Emission Factor.

*** Particulate Matter (PM) emissions are considered to be < 1µm (micron). Therefore, PM emissions also reflect PM₁₀ & PM_{2.5}.

Section 5. Potential to Emit (Requested allowable rate) (Controlled Emissions)

Transfer each pollutant Emission in Pounds Per Hour from column above to the Emission in Pounds Per Hour column below. Complete the equation after inserting the Requested Operating Hours Per Year. Pound Per Hour rate for each pollutant must be met if performance testing is requested.

Pollutant	Emission in Pounds Per Hour	T I M E S	Requested Operating Hours Per Year	E Q U A L S	Pounds Per Year	D I V I D E	Pounds Per Ton	E Q U A L S	Emission In Tons Per Year
EXAMPLE CO	2.15	x	200	=	430	+	2,000	=	0.22
NO _x		x		=		+		=	
NMHC		x		=		+		=	
*NO _x + NMHC	2.48	x	200	=	496	+	2,000	=	0.25
**SO _x	0.77	x	200	=	154	+	2,000	=	0.08
***PM	0.12	x	200	=	24	+	2,000	=	0.012
CO									
NO _x									
NMHC									
*NO _x + NMHC									
**SO _x									
***PM									

See attached Emission Calculations

I, the undersigned, a responsible officer of the applicant company, certify that to the best of my knowledge, the information stated on this application, together with associated drawings, specifications, and other data, give a true and complete representation of the existing, modified existing, or planned new stationary source with respect to air pollution sources and control equipment. I also understand that any significant omissions, errors, or misrepresentations in these data will be cause for revocation of part or all of the resulting source registration and air quality permit.

Conrad S. Valencia
Print Name

Conrad S.
Valencia
Digitally signed by Conrad S.
Valencia
Date: 2022.03.14 08:47:14
-0500

Sign Name

Acting Assistant Manager of Engineering
Title

3 / 14 / 2022
Date

**Federal New Source Performance Standards (NSPS) for Stationary EMERGENCY Diesel Engines (40CFR 60.4202 & 60.4205)
in Grams Per Horsepower Hour (g/hp-hr) for Engines with a displacement of < 10 Liters Per Cylinder**

Horsepower / kW	Tier (CFR Section)	Year Of Manufacture	CO (g/hp-hr)	NOx ¹ (g/hp-hr)	NMHC ¹ (g/hp-hr)	NOx + NMHC ¹ (g/hp-hr)	SOx ² (g/hp-hr)	Particulate Matter (PM) (g/hp-hr)	Notes
< 11 Hp < 8 kW	1 (60.4205)	Pre 2007 ³	6.0			7.8	0.93*	0.75	* Use AP-42 Section 3.3 SOx factors if <600Hp and Section 3.4 if >600Hp, as shown on this table, or manufacturer's factors. Manufacturer's factors shall be used when larger than AP-42 factors.
	2 (60.4202) - (89.112)	2007	6.0			5.6	0.93*	0.6	
	4 (60.4202)	2008 +	6.0			5.6	0.93*	0.3	
≥ 11 Hp < 25 Hp	1 (60.4205)	Pre 2007 ³	4.9			7.1	0.93*	0.6	
	2 (60.4202) - (89.112)	2007	4.9			5.6	0.93*	0.6	
≥ 8 kW < 19 kW	4 (60.4202)	2008 +	4.9			5.6	0.93*	0.3	
	1 (60.4205)	Pre 2007 ³	4.1			7.1	0.93*	0.6	
≥ 25 Hp < 50 Hp	2 (60.4202) - (89.112)	2007	4.1			5.6	0.93*	0.45	
	4 (60.4202)	2008 +	4.1			5.6	0.93*	0.22	
≥ 19 kW < 37 kW	1 (60.4205)	Pre 2007 ³	3.03**	6.9	1.12**		0.93*	1.0**	** Use AP-42 Section 3.3 factors for CO, NMHC, and PM as shown on this table, or manufacturer's factors. Manufacturer's factors shall be used when larger than AP-42 factors.
	2 (60.4202) - (89.112)	2007	3.7			5.6	0.93*	0.3	
≥ 50 Hp < 100 Hp	3 (60.4202) - (89.112)	2008 +	3.7			3.5	0.93*	0.3	
	1 (60.4205)	Pre 2007 ³	3.03**	6.9	1.12**		0.93*	1.0**	
≥ 100 Hp < 175 Hp	3 (60.4202) - (89.112)	2007 +	3.7			3.0	0.93*	0.22	
≥ 175 Hp ≤ 750 Hp	1 (60.4205)	Pre 2007 ³	8.5	6.9	1.0		0.93* for < 600Hp or 3.67* for > 600Hp	0.4	
≥ 130 kW ≤ 560 kW	3 (60.4202) - (89.112)	2007 +	2.6			3.0		0.15	
> 750 Hp	1 (60.4205)	Pre 2007 ³	8.5	6.9	1.0			0.4	
	3 (60.4202) - (89.112)	2007***	2.6			4.8	3.67	0.15	
> 560 kW		*** 2007 - 2010 Model Year Engines > 3,000 Hp shall meet the Pre 2007 standards and beginning with the 2011 model year, Engines > 3,000 Hp shall meet the 2007 standards							

¹ When an emission factor is given for combined NOx + NMHC, individual emission factors for NOx and NMHC must be obtained from the manufacturer.

² SOx emission factors shall be based on AP-42 Section 3.3 for engines less than (<) 600 Hp and Section 3.4 for engines greater than (>) 600 Hp, or manufacturer's factors since SOx emission standards were not established for non-road diesel engine rulemaking. Manufacturer's factors shall be used when larger than the AP-42 factors. For engines > 600 Hp, the "S" multiplier is 0.05 (5%) if calculating SOx to reflect the current low sulfur diesel fuel standard of 500 ppm. Percent sulfur in diesel fuel transitions to Ultra Low Sulfur Diesel (15 ppm) by October 2010. For engines operated after October 2010, with a year of manufacture of 2010 or later, the "S" multiplier is 0.0015 (0.15%) if calculating SOx to reflect the proposed new standard.

³ Pre 2007 means each stationary Compression Ignition Internal Combustion Engine (CI ICE) whose construction, modification or reconstruction commenced after July 11, 2005. The date of construction is the date the engine is ordered by the owner or operator. Stationary CI ICE manufactured prior to April 1, 2006, that are not fire pump engines are not subject to NSPS, unless the engines are modified or reconstructed after July 11, 2005. A modified or reconstructed CI ICE must meet the emission standards for the model year in which the engine was originally new, not the year the engine is modified or reconstructed (Preamble language – Section II. E).

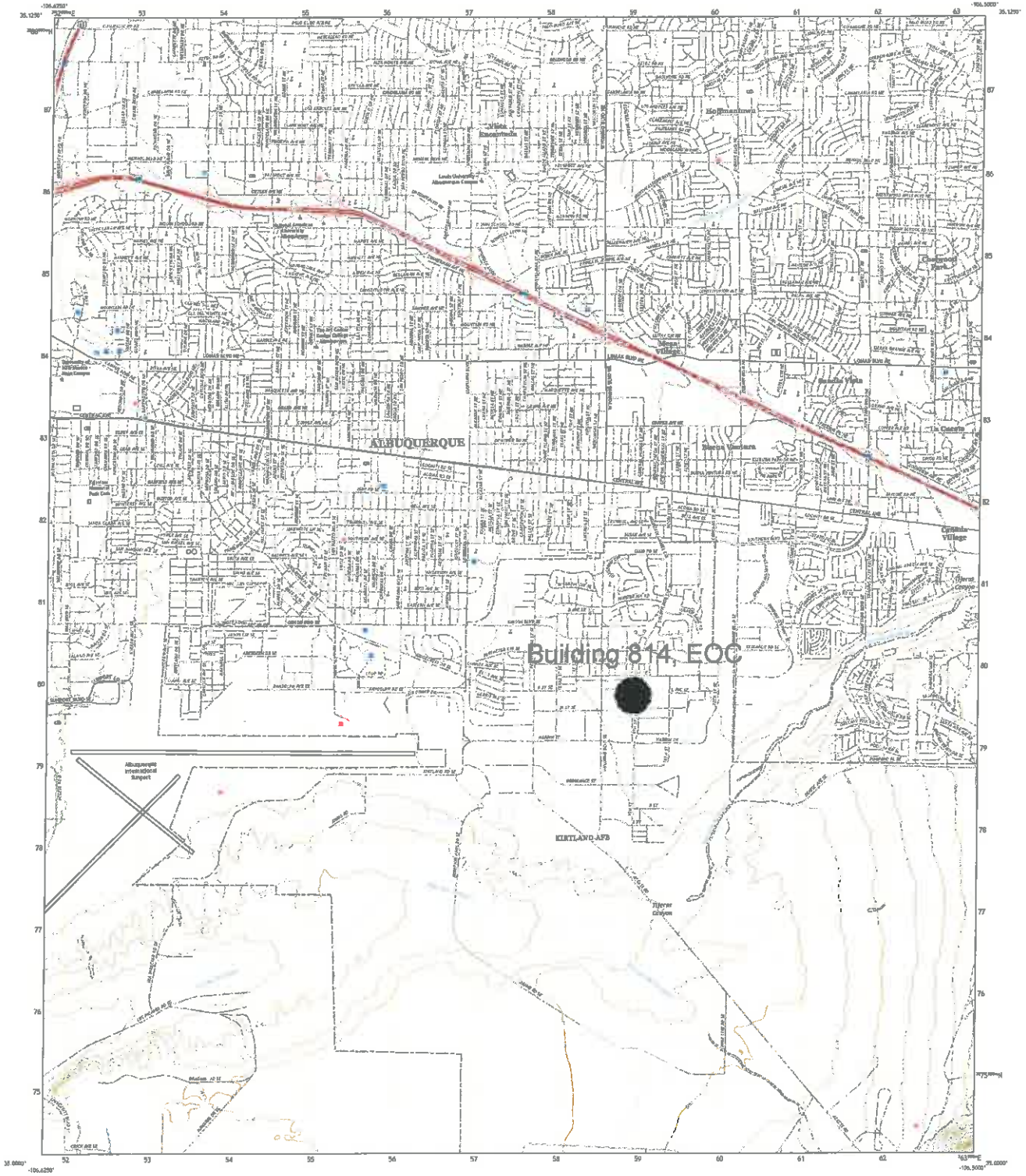
3.b. Plot Plans identifying the location of the new emergency generator



U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

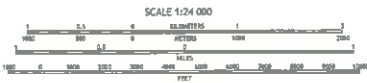
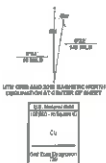


ALBUQUERQUE EAST QUADRANGLE
NEW MEXICO - BIRMINGHAM COUNTY
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
United States System of 1983 (USSS), Projector and
1:50,000 scale. Horizontal datum: NAD83
This map is not a legal document. Information may be
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Map: June 2010 - August 2010
Data: June 2010 - August 2010
Checked: June 2010 - August 2010
Published: June 2010 - August 2010
Map scale: 1:50,000
Map projection: UTM
Map datum: NAD83
Map contour interval: 10 feet
Map contour interval: 10 feet



CONTOUR INTERVAL IS FEET
NORTH AMERICAN DATUM OF 1983
This map was prepared to conform with the
National Geographic Society (NGS) Topographic Standards, 2011.
A revision kit associated with this product is draft version 5.0.17



1	2	3
4	5	6
7	8	9

ROAD CLASSIFICATION	
Primary road	Local Connector
Secondary road	Local Road
Route	US Route
Interstate Route	State Route

ALBUQUERQUE EAST, NM
2020

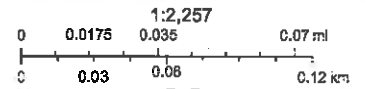


Bldg 814 Generator Location



July 19, 2021

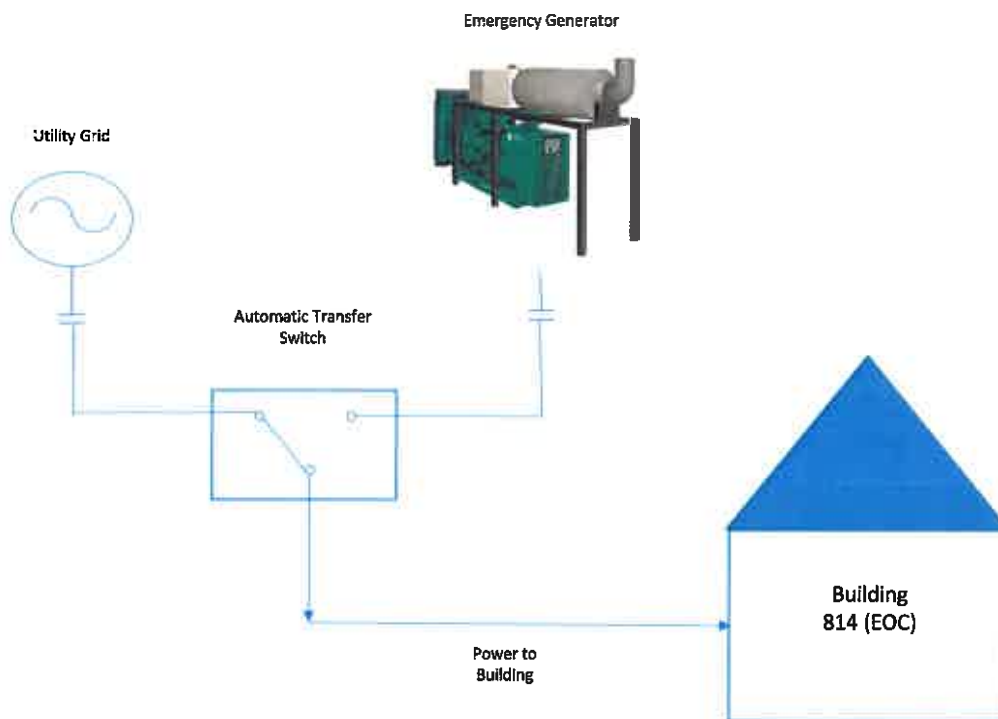
-  Buildings
-  Proposed building location



 Service Layer Credits: Source: Esri, Imagery: GeoEye, Earthstar, AeroGIS WebApp Builder

3.c. Process flow diagram

Building 814 (EOC) Process Flow Diagram



3.d. Emission calculations and supporting information used to calculate emissions

Emissions Calculations
Cummins QST30-G17

System Information		
Quantity	Value	Units
Engine Specifications	1112.00	kW
	1490.00	hp
	10.43	MMBtu/hr
	70.70	gal/hr
Uncontrolled Runtime	8,760	hrs
Controlled Runtime	500	hrs
Mass Conversion	453.6	g/lb
	2,205	lb/kg
BSPC	7,000	Btu/hp-hr
Concentration	15.00	ppm(wt)
	0.0015%	---
Density	7.10	lb/gal
MW SO ₂	64.06	lb SO ₂ / lb-mol
MW S	32.06	lb S / lb-mol

Note: Calculated maximum engine output, not electrical output from the generator

Pollutant	Emission Factors		Uncontrolled Emissions		Controlled Emissions	
	EF	Units	lb/hr	tpy	lb/hr	tpy
NOx*	6.70E-01	g/kW-hr	1.64	7.19	1.64	0.41
CO*	3.50E+00	g/kW-hr	8.58	37.58	8.58	2.15
PM*	3.00E-02	g/kW-hr	0.07	0.32	0.07	0.02
SO ₂ **	2.13E-04	lb/gal	0.015	0.07	0.015	0.004
HC*	1.90E-01	g/kW-hr	0.47	2.04	0.47	0.12

* Emissions factors are based EPA Tier 4 standards as that is the most conservative estimate. A sample calculation is provided below for NOx:

$$NO_x \text{ (lb/hr)} = \frac{0.67 \text{ g}}{\text{kW-hr}} \times \frac{1112 \text{ kW}}{1} \times \frac{1 \text{ lb}}{453.6 \text{ g}} = 1.64 \text{ lb/hr}$$

$$NO_x \text{ (tpy)} = \frac{1.64 \text{ lb}}{\text{hr}} \times \frac{8760 \text{ hr}}{\text{yr}} \times \frac{1 \text{ ton}}{2000 \text{ lb}} = 7.19 \text{ tpy}$$

** SO₂ emissions are based on 15 ppm weight% of sulfur. A sample calculation is provided below for SO₂:

$$SO_2 \text{ (lb/hr)} = \frac{15 \text{ ppm S}}{1000000 \text{ ppm S}} \times \frac{1 \text{ wt\% S}}{70.7 \text{ gal}} \times \frac{7.1 \text{ lb}}{\text{gal}} \times \frac{64.06 \text{ lb SO}_2/\text{lb-mol}}{32.06 \text{ lb S / lb-mol}} = 0.015 \text{ lb/hr}$$

$$SO_2 \text{ (tpy)} = \frac{0.015 \text{ lb}}{\text{hr}} \times \frac{8760 \text{ hr}}{\text{yr}} \times \frac{1 \text{ ton}}{2000 \text{ lb}} = 0.07 \text{ tpy}$$



Tier4 certified diesel generator set QST30 series engine

900 - 1000 kW 60 Hz



Description

Cummins® commercial generator sets are fully integrated power generation systems providing optimum performance, reliability and versatility for stationary Standby and Prime Power applications.

Features

Cummins heavy-duty engine - Rugged 4-cycle, industrial diesel delivers reliable power, low emissions and fast response to load changes.

Alternator - Several alternator sizes offer selectable motor starting capability with low reactance 2/3 pitch windings, low waveform distortion with non-linear loads and fault clearing short-circuit capability.

Cummins aftertreatment system - Fully integrated power generation systems that are certified to EPA Tier 4 standards. They provide optimum performance, reliability and versatility for stationary Standby, Prime Power and Continuous duty applications.

Permanent Magnet Generator (PMG) - Offers enhanced motor starting and fault clearing short-circuit capability.

Control system - The PowerCommand® electronic control is standard equipment and provides total genset system integration including automatic remote starting/stopping, precise frequency and voltage regulation, alarm and status message display, AmpSentry™ protection, output metering, auto-shutdown at fault detection and NFPA 110 Level 1 compliance.

Cooling system - Standard integral set-mounted radiator system, designed and tested for rated ambient temperatures, simplifies facility design requirements for rejected heat.

NFPA - The genset accepts full rated load in a single step in accordance with NFPA 110 for Level 1 systems.

Warranty and service - Backed by a comprehensive warranty and worldwide distributor network.

Generator set specifications

Governor regulation class	ISO8528 Part 1 Class G3
Voltage regulation, no load to full load	+/- 0.5%
Random voltage variation	+/- 0.5%
Frequency regulation	Isochronous
Random frequency variation	+/- 0.25%
Radio frequency emissions compliance	IEC 61000-4-2 : Level 4 Electrostatic discharge IEC 61000-4-3 : Level 3 Radiated susceptibility

Engine specifications

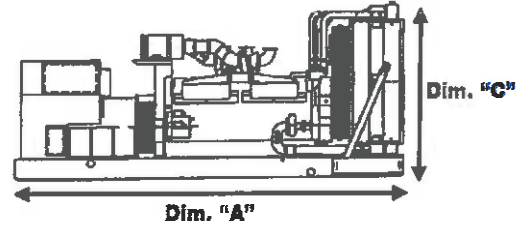
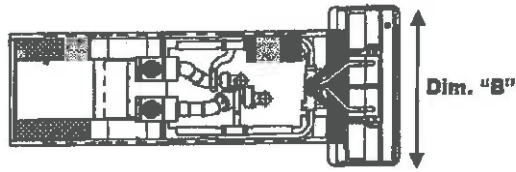
Bore	140 mm (5.51 in)
Stroke	165.0 mm (6.5 in)
Displacement	30.5 litres (1860 in ³)
Configuration	Cast iron, V, 12 cylinder
Battery capacity	1800 amps minimum at ambient temperature of -18 °C to 0 °C (0 °F to 32 °F)
Battery charging alternator	35 amps
Starting voltage	24 volt, negative ground
Fuel system	Direct injection: number 2 diesel fuel, fuel filter, automatic electric fuel shutoff
Fuel filter	Triple element, 10 micron filtration, spin-on fuel filters with water separator
Air cleaner type	Dry replaceable element
Lube oil filter type(s)	Four spin-on, combination full flow filter and bypass filters
Standard cooling system	High ambient radiator

Aftertreatment specifications

Model	CA451
Emissions certification	Tier4F certified
Duct diameter	1143 mm (45 in)
Duct quantity	1
Components included	Insulated aftertreatment ducts, saddle supports for aftertreatment, control panel, DEF tank, heater with ILB, harness from control panel to engine and AFT, lifting tool. Assembly required at site.

Alternator specifications

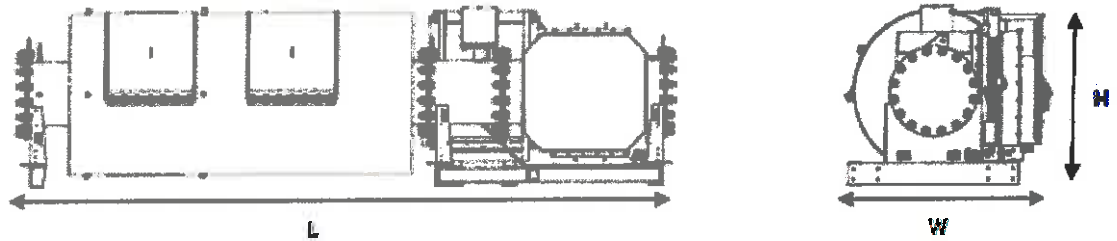
Design	Brushless, 4 pole, drip proof, revolving field
Stator	2/3 pitch
Rotor	Single bearing, flexible disc
Insulation system	Class H on low and medium voltage, Class F on high voltage
Standard temperature rise	150 °C Standby at 40 °C ambient
Exciter type	Permanent Magnet Generator (PMG)
Phase rotation	A (U), B (V), C (W)
Alternator cooling	Direct drive centrifugal blower fan
AC waveform Total Harmonic Distortion (THDV)	< 5% no load to full linear load, < 3% for any single harmonic
Telephone influence Factor (TIF)	< 50% per NEMA MG1-22.43
Telephone Harmonic Factor (THF)	< 3%



Generator set weights and dimensions

* Weights represent a set with standard features. See outline drawings for weights of other configurations.

Model	Dim "A" mm (in.)	Dim "B" mm (in.)	Dim "C" mm (in.)	Set weight* dry kg (lbs)	Set weight* wet kg (lbs)
DQFAH	4239 (167)	2000 (79)	2353 (93)	7631 (16824)	7929 (17480)








Aftertreatment weights and dimensions

* Due to multiple configurations of the CA451 model, maximum weight of the model is shown. Note: Dimension and weights are subject to change. See submittal data for exact details.

Aftertreatment model number*	Genset model	L (Length) mm (in.)	W (Width) mm (in.)	H (Height) mm (in.)	Weight of aftertreatment system (lbs)
CA451	DQFAH	4651 (183)	1480 (58)	1260 (50)	4367

Codes and standards

Codes or standards compliance may not be available with all model configurations – consult factory for availability.

	All low and medium voltage models are CSA certified to product class 4215-01.	ISO8528	The generator set has been rated in accordance with ISO8528.
U.S. EPA	Engine certified to US EPA Nonroad 40CFR1039 and Stationary (Emergency and Non-Emergency) US EPA NSPS, 60CFR Subpart IIII Tier4 Emissions Standards.		This generator set is designed in facilities certified to ISO 9001 and manufactured in facilities certified to ISO 9001 or ISO 9002.
International Building Code	The genset package is certified for seismic application in accordance with the following International Building Code: IBC2012.		The Aftertreatment System bears the ETL ListedMark as proof of conformity to NFPA 79, UL 61010C-1, and CSA 22.2 No. 61010-1-12.
	The Prototype Test Support (PTS) program verifies the performance integrity of the generator set design. Cummins products bearing the PTS symbol meet the prototype test requirements of NFPA 110 for Level 1 systems.		The generator set is available listed to UL 2200 for all 60 Hz low voltage models, Stationary Engine Generator Assemblies. The PowerCommand control is Listed to UL 508 - Category NITW7 for U.S. and Canadian usage. Circuit breaker assemblies are UL 489 Listed for 100% continuous operation and also UL 869A Listed Service Equipment.

Warning: Back feed to a utility system can cause electrocution and/or property damage. Do not connect to any building's electrical system except through an approved device or after building main switch is open.

For more information contact your local Cummins distributor or visit power.cummins.com

Our energy working for you.™



Generator Set Data Sheet



Model: DQFAH
Frequency: 60 Hz
Fuel Type: Ultra Low Sulphur Diesel (15 ppm sulphur)
kW Rating: 1000 Standby

Emissions level: EPA Stationary Non-Emergency Tier 4

Exhaust emission data sheet Tier 4F:	EDS-1156
Exhaust emission compliance sheet Tier4F	EPA-1195
Sound performance data sheet:	MSP-1119
Cooling performance data sheet:	MCP-217
Prototype test summary data sheet:	PTS-304
Standard set-mounted radiator cooling outline:	A034N275
After-treatment outline drawing Tier 4F	A041V017

Fuel Consumption	Standby			
	kW (kVA)			
Ratings	1000 (1250)			
Load	1/4	1/2	3/4	Full
US gph	21.2	36.6	53.3	70.7
L/hr	80.4	138.6	201.9	267.6

DEF Consumption	Standby			
	kW (kVA)			
Ratings	1000 (1250)			
Load	1/4	1/2	3/4	Full
US gph	0.94	1.41	2.17	3.03
L/hr	3.55	5.34	8.21	11.47

Engine	Standby rating
Engine manufacturer	Cummins Inc.
Engine model	QST30-G17
Configuration	Cast iron, V 12 cylinder
Aspiration	Turbocharged and low temperature after-cooled
Gross engine power output, kWm (bhp)	1112 (1490)
BMEP at set rated load, kPa (psi)	2427 (351)
Bore, mm (in.)	140 (5.51)
Stroke, mm (in.)	165 (6.5)
Rated speed, rpm	1800
Piston speed, m/s (ft/min)	9.91 (1950)
Compression ratio	14.7:1



Lube oil capacity, L (qt)	132 (140)
Overspeed limit, rpm	2070
Regenerative power, kW	82

Fuel Flow

Maximum supply fuel flow, L/hr (US gph)	570 (150)
Maximum return fuel flow, L/hr (US gph)	550 (145)
Maximum fuel inlet restriction with clean filter, kPa (in Hg)	13.5 (4.0)
Maximum fuel inlet temperature, °C (°F)	71 (160)
Maximum fuel inlet restriction, kPa (in Hg)	68 (20)

Air

Combustion air, m ³ /min (scfm)	87 (3067)
Maximum air cleaner restriction with clean filter, kPa (in H ₂ O)	3.7 (15)
Alternator cooling air, m ³ /min (cfm)	204 (7300)

Exhaust

Exhaust flow at rated load, m ³ /min (cfm)	212 (7469)
Exhaust temperature, °C (°F)	465 (869)
Maximum back pressure, kPa (in H ₂ O)	6.8 (27)

Standard Set-Mounted Radiator Cooling

Ambient design at 0.5 in H ₂ O, °C (°F)	50 (122)
Fan load, kW _m (HP)	33.1 (44.4)
Coolant capacity (with radiator), L (US gal)	167 (44)
Cooling system air flow, m ³ /min (scfm)	1097.5 (38753)
Total heat rejection, MJ/min (Btu/min)	48.9 (46455)
Maximum cooling air flow static restriction, kPa (in H ₂ O)	0.12 (0.5)
Maximum fuel return line restriction kPa (in Hg)	67.5 (20)

Derating Factors²

Standby	Engine power available up to 701 m (2300 ft) at ambient temperatures up to 40 °C (104 °F). Above these elevations, derate at 3.5% per 305 m (1000 ft) and 7% per 10 °C (18 °F).
----------------	---

Ratings Definitions

Emergency Standby Power (ESP):

Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source.

Emergency Standby Power (ESP) is in accordance with ISO 8528. Fuel Stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.



Our energy working for you.™

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Aftertreatment System

	T4F
Pressure drop across after-treatment, kPa (in H ₂ O)	6.2 (25)
Available back pressure for exhaust system piping, kPa (in H ₂ O)	0.5 (2)
Exhaust heater rating (kW)	250
Exhaust heater input requirements (Amps at 480 V)	300
DEF tank capacity (usable) L (gal)	765 (202)
Heat radiated from aftertreatment, Btu/min (MJ/min)	1820 (1.92)

DEF Flow

Maximum supply flow, L/hr (US gph)	98 (26)
Maximum return flow, L/hr (US gph)	87 (23)
Maximum static head (from pump to injector), m (ft)	6.4 (21)

Alternator Data

Voltage	Connection ¹	Temp rise degrees C	Duty ²	Single phase factor ³	Max surge kVA ⁴	Surge kW	Alternator data sheet	Feature code
120/208-139/240	12-lead	125/105	S/P		4234	1019	ADS-312	B252
240/416-277/480	12-lead	125/105	S/P		4234	1019	ADS-312	B252
277/480	Wye, 3-phase	125/105	S/P		3866	1018	ADS-311	B276
220/380-277/480	Wye, 3-phase	125/105	S/P		4602	1018	ADS-330	B282
220/380-277/480	Wye, 3-phase	105/80	S/P		4602	1018	ADS-330	B283
210/380-277/480	Wye, 3-phase	80	S		5521	1024	ADS-331	B284
240/416-277/480	Wye	125/105	S/P		4234	1019	ADS-312	B288
347/600	3-phase	125/105	S/P		3866	1021	ADS-311	B300
347/600	3-phase	105/80	S/P		4234	1024	ADS-312	B301
347/600	3-phase	80	S		4602	1004	ADS-330	B604

Notes:

- ¹ Limited single phase capability is available from some three phase rated configurations. To obtain single phase rating, multiply the three phase kW rating by the Single Phase Factor³. All single phase ratings are at unity power factor.
- ² Standby (S), Prime (P) and Continuous ratings (C).
- ³ Factor for the *Single phase output from Three phase alternator* formula listed below.
- ⁴ Maximum rated starting kVA that results in a minimum of 90% of rated sustained voltage during starting.

Formulas for calculating full load currents:

Three phase output	Single phase output
$\frac{\text{kW} \times 1000}{\text{Voltage} \times 1.73 \times 0.8}$	$\frac{\text{kW} \times \text{SinglePhaseFactor} \times 1000}{\text{Voltage}}$

Warning: Back feed to a utility system can cause electrocution and/or property damage. Do not connect to any building's electrical system except through an approved device or after building main switch is open.





Exhaust emission data sheet

DQFAH

60 Hz Diesel generator set

EPA emission

Engine information:

Model:	Cummins Inc. QST30-G17	Bore:	5.51 in. (140 mm)
Type:	4 Cycle, 50° V 12 cylinder diesel	Stroke:	6.50 in. (165 mm)
Aspiration:	Turbocharged and low temperature after-cooled	Displacement:	1860 cu. in. (30.5 liters)
Compression ratio:	14.7:1		
Emission control device:	SCR & DPF		
Emission level:	Stationary non-emergency, Tier4 final (with DPF)		

	<u>1/4</u>	<u>1/2</u>	<u>3/4</u>	<u>Full</u>	<u>Full</u>
<u>Performance data</u>	<u>Standby</u>	<u>Standby</u>	<u>Standby</u>	<u>Standby</u>	<u>Prime</u>
BHP @ 1800 RPM (60 Hz)	371	741	1112	1482	1322
Fuel consumption (Gal/Hr)	19	36	54	72	64
Exhaust gas flow (CFM)	2780	4500	6370	7540	6950
Exhaust gas temperature (°F)	620	760	814	890	873
<u>Exhaust emission data</u>					
HC (Total unburned hydrocarbons)	0.02	0.01	0.03	0.04	0.03
NOx (Oxides of nitrogen as NO2)	0.72	0.40	0.35	0.42	0.39
CO (Carbon monoxide)	1.06	0.64	0.60	0.61	0.60
PM (Particular matter)	0.00	0.00	0.00	0.00	0.00
SO2 (Sulfur dioxide)	0.00	0.00	0.00	0.00	0.00
Smoke (Bosch)	0	0	0	0	0

All values are Grams/HP-Hour, Smoke is Bosch #

Test conditions

Data is representative of steady-state engine speed (± 36 RPM) at designated genset loads. Pressures, temperatures, and emission rates were stabilized.

Fuel specification:	ASTM D975 No. 2-D diesel fuel with ULSD, and 40-48 cetane number.
Fuel temperature	99 \pm 9 °F (at fuel pump inlet)
Intake air temperature:	77 \pm 9 °F
Barometric pressure:	29.6 \pm 1 in. Hg
Humidity:	NOx measurement corrected to 75 grains H2O/lb dry air
Reference standard:	ISO 8178

The NOx, HC, CO and PM emission data tabulated here are representative of test data taken from a single engine under the test conditions shown above. Data for the other components are estimated. These data are subjected to instrumentation and engine-to-engine variability. Field emission test data are not guaranteed to these levels. Actual field test results may vary due to test site conditions, installation, fuel specification, test procedures and instrumentation. Engine operation with excessive air intake or exhaust restriction beyond published maximum limits, or with improper maintenance, may result in elevated emission levels.



Cooling System Data

DQFAH
QST30-G17

Enhanced Ambient Air Temperature Radiator Cooling System

	Fuel Type	Duty	Rating (kW)	Max cooling @ air flow static restriction, unhooused (Inches water/mm water)						Housed in free air, no air discharge restriction		
				0.0/0.0	0.25/6.4	0.5/12.7	0.75/19.1	1.0/25.4	1.5/38.1	Weather	Sound level 1	Sound level 2
				Maximum allowable ambient temperature, degree C								
60 Hz	Diesel	Standby	1000	61.5	58.6	55.4	52.1	49.9	40.7	53.4	52.4	52.3
		Prime	900	60.0	57.1	54.1	51.4	48.0	39.6	53.0	52.1	52.0

Notes:

1. Data shown are anticipated cooling performance for typical generator set.
2. Cooling data is based on 1000 ft (305 m) site test location.
3. Generator set power output may need to be reduced at high ambient conditions. Consult generator set data sheet for derate schedules.
4. Cooling performance may be reduced due to several factors including but not limited to: Incorrect installation, improper operation, fouling of the cooling system, and other site installation variables.

CERTIFICATE OF COMPLIANCE

Certificate Number E336241
Report Reference E336241-20110316
Issue Date 2020-JUNE-02

Issued to: Cummins Rocky Mountain LLC
8213 E 96th Ave
Henderson, CO 80640

This certificate confirms that representative samples of Engine Generator Enclosures, Construction Only
Stationary engine generator enclosure for Outdoor use, Model Series 40 and 80, followed by a two digit number that ranges from 5-95, followed by three digit number ranging from 000-999.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 2200, Stationary Engine Generators
Additional Information: See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Programs

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/about/locations/>



3.e. Regulatory Requirements

The emergency diesel generator that will be installed had not been ordered at the time of this application submittal. The unit will be a new purchase and meet the requirements of 40 CFR 63 Subpart ZZZZ (MACT ZZZZ) and 40 CFR 60 Subpart IIII (NSPS IIII) specified here.

40 CFR 63 Subpart ZZZZ (MACT ZZZZ)

Per 63.6590(C)(1), the unit is a new stationary RICE located at an area source and meets the requirements of MACT ZZZZ by meeting the requirements of NSPS IIII. No further requirements apply for the unit under MACT ZZZZ.

40 CFR 60 Subpart IIII (NSPS IIII)

The new emergency generator has a displacement of 2.5 liters per cylinder, a maximum horsepower of 1,490.00, and is a Tier 4 certified engine. The unit meets the definition of emergency stationary ICE under §60.4211(f).

Per §60.4202 (a)(2), 2007 model year and later emergency stationary CI ICE, must certify emissions standards for new emergency nonroad CI engine to emission standards in 40 CFR Part §1039.101. The engine has been certified to 40 CFR Part §1039.101 as the engine is a Tier 4 certified engine.

The owner or operator is not required to submit an initial notification.

3.f. Operational and Maintenance Strategy

The emergency generator will have the capability to detect faulty operations that would result in higher than normal emissions and alert the operator at the control panel, who would simply shut the unit down and service it.

At all times, the source will be operated in a manner consistent with good practices for minimizing emissions. During the first few moments of starting the engine, there is the possibility of a slight increase of emissions until the engine has warmed up and reached a more efficient compression ratio. The operator will minimize the engine's time spent at idle during startups and shutdowns to a period needed for appropriate and safe loading and cool down of the engine.

The generator will be maintained and operated in accordance with manufacturer's specifications and the facility's standard operating procedures.

3.g. Air Dispersion Modeling Ambient Impact Analysis

Note: Per the Air Quality Program's Internal Combustion Engine Permitting Policy and the Air Dispersion Modeling Guidelines for Air Quality Permitting, "internal combustion engines permitted for emergency use do not require an air dispersion modeling analysis. Therefore, no modeling analysis is provided.