



Application for Modification of ATC# 3299

Application received 6/16/2022

CP 7/25/2022

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1. INTRODUCTION

The following is the University of New Mexico's application to modify ATC permit # 3299. The unit is a diesel fired emergency generator that provides emergency power during utility outages to the Zimmerman Library on UNM Campus. The permit requires modification due to a mistake in the original permit application that under-stated the horsepower at 131 Hp while the installed unit is 120.1kW or 162.3 Hp. The included application contains the revised information including emissions data. Additionally, the permit requires the TBD sections to be updated.

Manufacturer	Model #	Serial #	Date of Manufacture	Date of Installation	Process Rate
Caterpillar	C4.4	E5G00337	2016	March 2017	120.1 KW 162.3 Hp



2. CONSTRUCTION PERMIT APPLICATION CHECKLIST





City of Albuquerque Environmental Health Department Air Quality Program



Construction Permit (20.11.41 NMAC) Application Checklist

This checklist must be returned with the application

Any person seeking a new air quality permit, a permit modification, or an emergency permit under 20.11.41 NMAC (Construction Permits) shall do so by filing a written application with the Albuquerque-Bernalillo County Joint Air Quality Program, which administers and enforces local air quality laws for the City of Albuquerque (“City”) and Bernalillo County (“County”), on behalf of the City Environmental Health Department (“Department”).

The Department will rule an application administratively incomplete if it is missing or has incorrect information. The Department may require additional information that is necessary to make a thorough review of an application, including but not limited to technical clarifications, emission calculations, emission factor usage, additional application review fees if any are required by 20.11.2 NMAC, and new or additional air dispersion modeling.

If the Department has ruled an application administratively incomplete three (3) times, the Department will deny the permit application. Any fees submitted for processing an application that has been denied will not be refunded. If the Department denies an application, a person may submit a new application and the fee required for a new application. The applicant has the burden of demonstrating that a permit should be issued.

The following are the minimum elements that shall be included in the permit application before the Department can determine whether an application is administratively complete and ready for technical review. It is not necessary to include an element if the Department has issued a written waiver regarding the element and the waiver accompanies the application. However, the Department shall not waive any federal requirements.

At all times before the Department has made a final decision regarding the application, an applicant has a duty to promptly supplement and correct information the applicant has submitted in an application to the Department. The applicant’s duty to supplement and correct the application includes but is not limited to relevant information acquired after the applicant has submitted the application and additional information the applicant otherwise determines is relevant to the application and the Department’s review and decision. While the Department is processing an application, regardless of whether the Department has determined the application is administratively complete, if the Department determines that additional information is necessary to evaluate or make a final decision regarding the application, the Department may request additional information and the applicant shall provide the requested additional information.

NOTICE REGARDING PERMIT APPEALS: A person who has applied for or has been issued an air quality permit by the Department shall be an obligatory party to a permit appeal filed pursuant to 20.11.81 NMAC.

NOTICE REGARDING SCOPE OF A PERMIT: The Department’s issuance of an air quality permit only authorizes the use of the specified equipment pursuant to the air quality control laws, regulations and conditions. Permits relate to air quality control only and are issued for the sole purpose of regulating the emission of air contaminants from said equipment. Air quality permits are not a general authorization for the location, construction and/or operation of a facility, nor does a permit authorize any particular land use or other form of land entitlement. It is the applicant’s/permittee’s responsibility to obtain all other necessary permits from the appropriate agencies, such as the City Planning Department or County Department of Planning and Development Services, including but not limited to site plan approvals, building permits, fire department approvals and the like, as may be required by law for the location, construction and/or operation of a facility. For more information, please visit the City Planning Department website at <https://www.cabq.gov/planning> and the County Department of Planning and Development Services website at <https://www.bernco.gov/planning>.

The Applicant shall:

20.11.41.13(A) NMAC – Pre-Application Requirements:

Item	Completed	NA ¹	Waived ²
(1) Request a pre-application meeting with the Department using the pre-application meeting request form.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(2) Attend the pre-application meeting. Date of Pre-application meeting: 1/14/2022	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

1. Not Applicable
2. It is not necessary to include an element if the Department has issued a written waiver regarding the element and the waiver accompanies the application. However, the Department shall not waive any federal requirements.

20.11.41.13(B) NMAC – Applicant’s Public Notice Requirements:

Item	Included in Application	NA ¹	Waived ²
(1) Provide public notice in accordance with the regulation, including by certified mail or electronic copy 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.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Contact list of representative(s) of neighborhood associations and recognized coalitions cannot be more than three months old from the application submittal date.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Provide notice using the Notice of Intent to Construct form.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(2) In accordance with the regulation, post and maintain in a visible location a weather proof sign provided by the Department.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

1. Not Applicable; For emergency permits, the public notice requirements in 20.11.41.24 NMAC shall apply instead.
2. It is not necessary to include an element if the Department has issued a written waiver regarding the element and the waiver accompanies the application. However, the Department shall not waive any federal requirements.

The Permit Application shall include:

20.11.41.13(E) NMAC – Application Contents

Item	Included In Application	NA ¹	Waived ²
(1) A complete permit application on the most recent form provided by the Department.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(2) The application form includes:			
a. The owner’s name, street and post office address, and contact information;	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. The facility/ operator’s name, street address and mailing address, if different from the owner;	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. The consultant’s name, and contact information, if applicable;	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. All information requested on the application form is included (i.e., the form is complete).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(3) Date application is submitted.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(4) Sufficient attachments for the following:			
a. Ambient impact analysis using an atmospheric dispersion model approved by the U.S. Environmental Protection Agency, and the Department to demonstrate compliance with the applicable ambient air quality standards. See 20.11.01 NMAC. If you are modifying an existing source, the modeling must include the	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Item	Included In Application	NA ¹	Waived ²
emissions of the entire source to demonstrate the impact the new or modified source(s) will have on existing plant emissions.			
b. The air dispersion model has been executed pursuant to a protocol that was approved in advance by the Department.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c. Air dispersion modeling approved protocol date:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d. Basis or source for each emission rate (including manufacturer's specification sheet, AP-42 section sheets, test data, or corresponding supporting documentation for any other source used).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. All calculations used to estimate potential emission rates and controlled/proposed emissions.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f. Basis for the estimated control efficiencies and sufficient engineering data for verification of the control equipment operation, including if necessary, design, drawing, test report and factors which affect the normal operation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g. Fuel data for each existing and/or proposed piece of fuel burning equipment.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h. Anticipated maximum production capacity of the entire facility and the requested production capacity after construction and/or modification.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i. Stack and exhaust gas parameters for all existing and proposed emission stacks.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(5) An operational and maintenance strategy detailing:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
a. steps the applicant will take if a malfunction occurs that may cause emission of a regulated air contaminant to exceed a limit that is included in the permit;	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. the nature of emission during routine startup or shutdown of the source and the source's air pollution control equipment; and	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. the steps the application will take to minimize emissions during routine startup or shutdown.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(6) A map, such as a 7.5'-topographic quadrangle map published by the U.S. Geological Survey or a map of equivalent or greater scale, detail, and precision, including a City or County zone atlas map that shows the proposed location of each process equipment unit involved in the proposed construction, modification, or operation of the source, as applicable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(7) 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 by the Department in writing.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(8) A complete description of all sources of regulated air contaminants and a process flow diagram depicting the process equipment unit or units at the facility, both existing and proposed, that are proposed to be involved in routine operations and from which regulated air contaminant emissions are expected to be emitted.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(9) A full description of air pollution control equipment, including all calculations and the basis for all control efficiencies presented, manufacturer's specifications sheets, and site layout and assembly drawings; UTM (universal transverse mercator) coordinates shall be used to identify the location of each emission unit.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(10) A description of the equipment or methods proposed by the applicant to be used for emission measurement.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(11) The maximum and normal operating time schedules of the source after completion of construction or modification, as applicable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(12) Any other relevant information as the Department may reasonably require, including without limitation:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
a. Applicants shall provide documentary proof that the proposed air quality permitted use of the facility's subject property is allowed by the zoning designation of the City or County zoning laws, as applicable. Sufficient documentation includes: (i) a zoning certification from the City Planning Department or County Department of Planning and Development Services, as applicable, if the property is subject to City or County zoning jurisdiction; or (ii) a zoning verification from both planning	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Item	Included In Application	NA ¹	Waived ²
departments if the property is not subject to City or County zoning jurisdiction. ³ A zone atlas map shall not be sufficient.			
(13) The signature of the applicant, operator, owner or an authorized representative, certifying to the accuracy of all information as represented in the application and attachments, if any.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(14) A check or money order for the appropriate application fee or fees required by 20.11.2 NMAC (Fees).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

1. *Not Applicable*
2. *It is not necessary to include an element if the Department has issued a written waiver regarding the element and the waiver accompanies the application. However, the Department shall not waive any federal requirements.*
3. *For emergency permit applications, applicants are not required to submit documentation for the subject property's zoning designation.*

3. PRE-PERMIT APPLICATION MEETING





City of Albuquerque

Environmental Health Department

Air Quality Program



Pre-Permit Application Meeting Agenda

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 the University of New Mexico Meeting Agenda

Friday, January 14, 2022
1:30 PM

Invitees: Casey Hall, Kolt Vaughn, Isreal Tavarez, Carina Munoz-Dyer, Paul Puckett, Elizabeth Pomo

Discuss Project: Revisions to the following permits & **new permitting requirement for applications submitted after February 1, 2022.**

Permit & Source from meeting on 10/7/2021	Updates 1/14/2022
#0490-RV1- boiler replacement <ul style="list-style-type: none"> Boiler has been replaced and permit needs to be modified Newer boiler & 400 Btu process rate Engine has not changed Emissions might change 	
#3299 – HP on unit greater than permit <ul style="list-style-type: none"> Error with serial number, should be 130 kW Engine in permit needs to be modified since emissions will increase 	
#3255-M1 – HP on unit greater than permit <ul style="list-style-type: none"> Update TBD Wrong HP conversion, should be updated with correct calculations 	

Ver. 4/30/21

- 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
 - 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?

4. PUBLIC NOTICE REQUIREMENTS





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: Casey Hall
Contact: 505-277-0305
Company/Business: University of New Mexico

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:



Proposed Air Quality Construction Permit
Permiso de Construcción de Calidad del Aire Propuesto

- Applicant's Name: The University of New Mexico CUNM
 Nombre del solicitante: UNM
 Owner or Operator's Name: UNM
 Nombre del Propietario u Operador: UNM
- Actual or Estimated Date the Application will be Submitted to the Department: 05/23/22
 Fecha Actual o Estimada en que se Entregará la Solicitud al Departamento: 05/23/22
- Exact Location of the Source or Proposed Source: Zimmerman Library, 100 Roma Ave. NE, ABB, UNM 87106
 Ubicación Exacta de la Fuente o Fuente Propuesta: Zimmerman Library, 100 Roma Ave. NE, ABB, UNM 87106
- Description of the Source: Diesel-Fired Emergency Generator (160 HP)
 Descripción de la Fuente: Diesel-Fired Emergency Generator (160 HP)
 Nature of Business: Higher Education
 Tipo de Negocio: Higher Education
 Process or change for which a permit is requested: Unit listed above
 Proceso o cambio para el cual se solicita el permiso: Unit listed above

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

Air Contaminant Contaminante de Aire	Proposed Construction Permit Permiso de Construcción Propuesta		Net Change Emissions (for permit modification) Cambio Neto de Emisiones (para modificación de permiso)	
	Pounds per hour libras por hora	Tons per year toneladas por año	Pounds per hour libras por hora	Tons per year toneladas por año
NO _x	0.98	0.10	0.08	0.01
CO	0.34	0.03	0.74	-0.08
VOC	0.04	0.004	0	0
SO ₂	1.74 x 10 ⁻⁰³	1.74 x 10 ⁻⁰⁴	2.65 x 10 ⁻⁰³	-2.98 x 10 ⁻⁰²
PM ₁₀	0.04	3.97 x 10 ⁻⁰³	0.02	-1.03 x 10 ⁻⁰³
PM _{2.5}	0.04	3.97 x 10 ⁻⁰³	-0.02	-2.03 x 10 ⁻⁰³
HAP	N/A			

- Maximum Operating Schedule: Intermittent, 200 hrs/year
 Horario Máximo de Operaciones: Intermittent, 200 hrs/year
- Normal Operation Schedule: When there is a loss of commercial power.
 Horario Normal de Operaciones: When there is a loss of commercial power.

6. Current Contact Information for Comments and Inquiries
 Datos actuales para Comentarios y Preguntas

Name (Nombre): Casey Hall
 Address (Dirección): 1 University of New Mexico MSC07 4100 ABB, UNM 87131
 Phone Number (Número Telefónico): 505-277-2305
 Email Address (Correo Electrónico): cbhall4@unm.edu

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.
 505 311 de biêt thim thing tin hoiic qđ khieu nay vé cu' di ngy, Chuong Trinh Chit Luang Khing Kai

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 fijas
 (505) 769-1972, ead@cabq.gov

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





Timothy M. Keller,
Mayor

Public Participation

List of Neighborhood Associations and Neighborhood Coalitions MEMORANDUM

To: Casey Hall, Director
Environmental Health and Safety, University of New Mexico

From: Elizabeth Pomo, Senior Environmental Health Scientist
Environmental Health Department, City of Albuquerque

Subject: Determination of Neighborhood Associations and Coalitions
within 0.5 mile of the University of New Mexico property in Bernalillo County, NM

Date: April 8, 2022

DETERMINATION:

On April 8, 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 the University of New Mexico property in Bernalillo County, NM.

I then used the City of Albuquerque Office (COA) of Neighborhood Coordination's Monthly Master NA List dated April 2022 Excel file to determine the contact information for each NA and NC located within 0.5 mile of the University of New Mexico property 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*
Campus Neighborhood Association	Calvin Martin Kenny Stansbury Association Email	calmartin93@gmail.com ; kenny.stansbury@gmail.com ; campus.neighborhood.assoc@gmail.com ;
District 6 of Coalitions	Patricia Wilson Mandy Warr	info@willsonstudio.com ; mandy@theremedyspa.com ;
Nob Hill Neighborhood Association	Jeff Hoehn Gary Eyster Association Email	jeffh@clnabq.org ; meyster1@me.com ; theboard@nobhill-nm.com ;
North Campus Neighborhood Association	Tim Davis Sara Koplik Association Email	tdavisnm@gmail.com ; sarakoplik@hotmail.com ; northcampusna@gmail.com ;
Silver Hill Neighborhood Association	Don McIver James Montalbano Association Email	dbodinem@gmail.com ; ja.montalbano@gmail.com ; silverhillabq@gmail.com ;
Southeast Heights Neighborhood Association	Pete Belletto John Pate	pmbdoc@yahoo.com ; jpate@molzencorbin.com ;



Timothy M. Keller,
Mayor

Public Participation

List of Neighborhood Associations and Neighborhood Coalitions MEMORANDUM

Spruce Park Neighborhood Association	Bart Cimenti John Cochran	bartj505@gmail.com ; jrcochr@gmail.com ;
Summit Park Neighborhood Association	Kate Franchini Joe Brooks Association Email	franchini.kathryn@gmail.com ; joebrooks@homesinabq.com ; summitparkNA@gmail.com ;
Sycamore Neighborhood Association	Richard Vigliano Mardon Gardella	richard@vigliano.net ; mg411@q.com ;
University Heights Neighborhood Association	Mandy Warr Don Hancock Association Email	mandy@theremedyspa.com ; srcdon@earthlink.net ; info@uhanm.org ;

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

SUBJECT: Public Notice of Proposed Air Quality Construction Permit Application

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	University of New Mexico
Site or Facility Name	Zimmerman Library
Site or Facility Address	800 Yale Blvd NE
New or Existing Source	Existing
Anticipated Date of Application Submittal	May 25, 2022
Summary of Proposed Source to Be Permitted	The current emergency generator at the site was permitted for less power than the installed unit. This is a correction to the permit updating the power and emissions.

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:

- Casey Hall
- Cbhall4@unm.edu
- (505) 277-0305

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:

University of New Mexico

Owner / operator's name and address:

Nombre y domicilio del propietario u operador:

University of New Mexico

Contact for comments and inquires:

Datos actuales para comentarios y preguntas:

Name (*Nombre*): Casey Hall

Address (*Domicilio*): MSC07 4100 1 University of New Mexico Albuquerque, NM 87131

Phone Number (*Número Telefónico*): (505) 277-0305

E-mail Address (*Correo Electrónico*): cbhall4@unm.edu

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

Fecha actual o estimada en que se entregará la solicitud al departamento: 5/25/2022

Description of the source:

Descripción de la fuente: Diesel Fired Emergency Generator

Exact location of the source or proposed source:

Ubicación exacta de la fuente o fuente propuesta:

800 Yale Blvd NE. North Side of Building. 352241 E, 3883656N

Nature of business:

Tipo de negocio: Higher Education

Process or change for which the permit is requested:

Proceso o cambio para el cuál de solicita el permiso:

Increasing HP on engine to match as built condition

Maximum operating schedule:

Horario máximo de operaciones: 200 hours per year. 24 hours a day 7 days a week

Normal operating schedule:

Horario normal de operaciones: 30 minute exercise once per month. During power outage.

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 <i>(for permit modification or technical revision)</i> <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	0.34	0.03	-0.74	-0.08
NOx	0.98	0.10	0.08	0.01
VOC	0.04	0.004	0	0
SO2	1.74x10 ⁻³	1.74x10 ⁻⁴	-0.27	-0.003
PM10	0.04	3.97x10 ⁻³	-0.02	-0.002
PM2.5	0.04	3.97x10 ⁻³	-0.02	-0.002
HAP	-	-	-	-

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

Casey Hall

From: Casey Hall
Sent: Monday, May 23, 2022 12:50 PM
To: calmartin93@gmail.com; kenny.stansbury@gmail.com; campus.neighborhood.assoc@gmail.com
Subject: Campus Neighborhood Association Zimmerman Generator Modification Notification
Attachments: Notice of Intent - Zimmerman.pdf; Applicant Public Notice Cover Letter Zimmerman.pdf

Greetings,

Please see the attached Public Notice for modification of the diesel fired emergency generator at Zimmerman Library.

Best,
Casey B. Hall (He/Him/His)
Director
Environmental Health and Safety
University of New Mexico
cbhall4@unm.edu
(315) 885-8683

Casey Hall

From: Casey Hall
Sent: Monday, May 23, 2022 12:53 PM
To: 'info@willsonstudio.com'; 'mandy@theremedyspa.com'
Subject: District 6 of Coalitions Zimmerman Generator Modification Notification
Attachments: Notice of Intent - Zimmerman.pdf; Applicant Public Notice Cover Letter Zimmerman.pdf

Greetings,

Please see the attached Public Notice for modification of the diesel fired emergency generator at Zimmerman Library.

Best,
Casey B. Hall (He/Him/His)
Director
Environmental Health and Safety
University of New Mexico
cbhall4@unm.edu
(315) 885-8683

Casey Hall

From: Casey Hall
Sent: Monday, May 23, 2022 12:58 PM
To: 'jeffh@clnabq.org'; 'meyster1@me.com'; 'theboard@nobhill-nm.com'
Subject: Nob Hill Neighborhood Association Zimmerman Generator Modification Notification
Attachments: Notice of Intent - Zimmerman.pdf; Applicant Public Notice Cover Letter Zimmerman.pdf

Greetings,

Please see the attached Public Notice for modification of the diesel fired emergency generator at Zimmerman Library.

Best,
Casey B. Hall (He/Him/His)
Director
Environmental Health and Safety
University of New Mexico
cbhall4@unm.edu
(315) 885-8683

Casey Hall

From: Casey Hall
Sent: Monday, May 23, 2022 1:07 PM
To: 'tdavisnm@gmail.com'; 'sarakoplik@hotmail.com'; 'northcampusna@gmail.com'
Subject: North Campus Neighborhood Association Zimmerman Generator Modification Notification
Attachments: Notice of Intent - Zimmerman.pdf; Applicant Public Notice Cover Letter Zimmerman.pdf

Greetings,

Please see the attached Public Notice for modification of the diesel fired emergency generator at Zimmerman Library.

Best,
Casey B. Hall (He/Him/His)
Director
Environmental Health and Safety
University of New Mexico
cbhall4@unm.edu
(315) 885-8683

Casey Hall

From: Casey Hall
Sent: Monday, May 23, 2022 1:10 PM
To: 'dbodinem@gmail.com'; 'ja.montalbano@gmail.com'; 'silverhillabq@gmail.com'
Subject: Silver Hill Neighborhood Association Zimmerman Generator Modification Notification
Attachments: Notice of Intent - Zimmerman.pdf; Applicant Public Notice Cover Letter Zimmerman.pdf

Greetings,

Please see the attached Public Notice for modification of the diesel fired emergency generator at Zimmerman Library.

Best,
Casey B. Hall (He/Him/His)
Director
Environmental Health and Safety
University of New Mexico
cbhall4@unm.edu
(315) 885-8683

Casey Hall

From: Casey Hall
Sent: Monday, May 23, 2022 1:11 PM
To: 'pmbdoc@yahoo.com'; 'jpate@molzencorbin.com'
Subject: Southeast Heights Neighborhood Association Zimmerman Generator Modification Notification
Attachments: Notice of Intent - Zimmerman.pdf; Applicant Public Notice Cover Letter Zimmerman.pdf

Greetings,

Please see the attached Public Notice for modification of the diesel fired emergency generator at Zimmerman Library.

Best,
Casey B. Hall (He/Him/His)
Director
Environmental Health and Safety
University of New Mexico
cbhall4@unm.edu
(315) 885-8683

Casey Hall

From: Casey Hall
Sent: Monday, May 23, 2022 1:19 PM
To: 'bartj505@gmail.com'; 'jrcochr@gmail.com'
Subject: Spruce Park Neighborhood Association Zimmerman Generator Modification Notification
Attachments: Notice of Intent - Zimmerman.pdf; Applicant Public Notice Cover Letter Zimmerman.pdf

Greetings,

Please see the attached Public Notice for modification of the diesel fired emergency generator at Zimmerman Library.

Best,
Casey B. Hall (He/Him/His)
Director
Environmental Health and Safety
University of New Mexico
cbhall4@unm.edu
(315) 885-8683

Casey Hall

From: Casey Hall
Sent: Monday, May 23, 2022 1:25 PM
To: 'franchini.kathryn@gmail.com'; 'joebrooks@homesinabq.com'; 'summitparkNA@gmail.com'
Subject: Summit Park Neighborhood Association Zimmerman Generator Modification Notification
Attachments: Notice of Intent - Zimmerman.pdf; Applicant Public Notice Cover Letter Zimmerman.pdf

Greetings,

Please see the attached Public Notice for modification of the diesel fired emergency generator at Zimmerman Library.

Best,
Casey B. Hall (He/Him/His)
Director
Environmental Health and Safety
University of New Mexico
cbhall4@unm.edu
(315) 885-8683

Casey Hall

From: Casey Hall
Sent: Monday, May 23, 2022 1:27 PM
To: 'richard@vigliano.net'; 'mg411@q.com'
Subject: Sycamore Neighborhood Association Zimmerman Generator Modification Notification
Attachments: Notice of Intent - Zimmerman.pdf; Applicant Public Notice Cover Letter Zimmerman.pdf

Greetings,

Please see the attached Public Notice for modification of the diesel fired emergency generator at Zimmerman Library.

Best,
Casey B. Hall (He/Him/His)
Director
Environmental Health and Safety
University of New Mexico
cbhall4@unm.edu
(315) 885-8683

Casey Hall

From: Casey Hall
Sent: Monday, May 23, 2022 1:28 PM
To: 'mandy@theremedyspa.com'; 'sricdon@earthlink.net'; 'info@uhanm.org'
Subject: University Heights Neighborhood Association Zimmerman Generator Modification Notification
Attachments: Notice of Intent - Zimmerman.pdf; Applicant Public Notice Cover Letter Zimmerman.pdf

Greetings,

Please see the attached Public Notice for modification of the diesel fired emergency generator at Zimmerman Library.

Best,
Casey B. Hall (He/Him/His)
Director
Environmental Health and Safety
University of New Mexico
cbhall4@unm.edu
(315) 885-8683

5. PERMIT APPLICATION FORM





**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 8:00 am – 5:00 pm Monday – Friday to:
3rd Floor, Suite 3023 – One Civic Plaza NW, Albuquerque, NM 87102
(505) 768-1972 aqd@cabq.gov

**Application for Air Pollutant Sources in Bernalillo County
Source Registration (20.11.40 NMAC) and Construction Permits (20.11.41 NMAC)**

Submittal Date:

Owner/Corporate Information Check here and leave this section blank if information is exactly the same as Facility Information below.

Company Name: University of New Mexico			
Mailing Address: MSC07 4100 1 University of New Mexico	City: Albuquerque	State: NM	Zip: 87131
Company Phone: 505-277-2753	Company Contact: Casey Hall		
Company Contact Title: Director, EHS	Phone: 315-885-8683	E-mail: cbhall4@unm.edu	

Stationary Source (Facility) Information: Provide a plot plan (legal description/drawing of the facility property) with overlay sketch of facility processes, location of emission points, pollutant type, and distances to property boundaries.

Facility Name: Zimmerman Library (Building #53)			
Facility Physical Address: 800 Yale Blvd NE	City: Albuquerque	State: NM	Zip: 87131
Facility Mailing Address (if different): MSC07 4100 1 University of New Mexico	City: Albuquerque	State: NM	Zip: 87131
Facility Contact: Casey Hall	Title: Director, EHS		
Phone: 315-885-8683	E-mail: cbhall4@unm.edu		
Authorized Representative Name ¹ : Teresa Costantinidis	Authorized Representative Title: Senior Vice President for Finance and Administration		

Billing Information Check here if same contact and mailing address as corporate Check here if same as facility

Billing Company Name:			
Mailing Address:	City:	State:	Zip:
Billing Contact:	Title:		
Phone:	E-mail:		

Preparer/Consultant(s) Information Check here and leave section blank if no Consultant used or Preparer is same as Facility Contact.

Name:	Title:		
Mailing Address:	City:	State:	Zip:
Phone:	Email:		

1. See 20.11.41.13(E)(13) NMAC.

**Application for Air Pollutant Sources in Bernalillo County
Source Registration (20.11.40 NMAC) and Construction Permits (20.11.41 NMAC)**

General Operation Information (if any question does not pertain to your facility, type N/A on the line or in the box)

Permitting action being requested (please refer to the definitions in 20.11.40 NMAC or 20.11.41 NMAC):				
<input type="checkbox"/> New Permit	<input checked="" type="checkbox"/> Permit Modification Current Permit #: 3299	<input type="checkbox"/> Technical Permit Revision Current Permit #:	<input type="checkbox"/> Administrative Permit Revision Current Permit #:	
<input type="checkbox"/> New Registration Certificate	<input type="checkbox"/> Modification Current Reg. #:	<input type="checkbox"/> Technical Revision Current Reg. #:	<input type="checkbox"/> Administrative Revision Current Reg. #:	
UTM coordinates of facility (Zone 13, NAD 83): 352241 E, 3883656N				
Facility type (<i>i.e.</i> , a description of your facility operations): Higher Education				
Standard Industrial Classification (SIC Code #): 8221		North American Industry Classification System (NAICS Code #): 611310		
Is this facility currently operating in Bernalillo County? Yes		If YES , list date of original construction: If NO , list date of planned startup: March 2017		
Is the facility permanent? Yes		If NO , list dates for requested temporary operation: From Through		
Is the facility a portable stationary source? No		If YES , is the facility address listed above the main permitted location for this source?		
Is the application for a physical or operational change, expansion, or reconstruction (<i>e.g.</i> , altering process, or adding, or replacing process or control equipment, etc.) to an existing facility? No				
Provide a description of the requested changes: The permit needs the HP and therefore emissions changed to match the as-built condition				
What is the facility's operation? <input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Intermittent <input type="checkbox"/> Batch				
Estimated percent of production/operation:	Jan-Mar: 25	Apr-Jun: 25	Jul-Sep: 25	Oct-Dec: 25
Requested operating times of facility:	0.5 hours/day	1 days/week	1 weeks/month	12 months/year
Will there be special or seasonal operating times other than shown above? This includes monthly- or seasonally-varying hours. No				
If YES , please explain:				
List raw materials processed: N/A				
List saleable item(s) produced: N/A				

USE INSTRUCTIONS: For the forms on the following pages, please do not alter or delete the existing footnotes or page breaks. If additional footnotes are needed then add them to the end of the existing footnote list for a given table. Only update the rows and cells within tables as necessary for your project. Unused rows can be deleted from tables. If multiple scenarios will be represented then the Uncontrolled and Controlled Emission Tables, and other tables as needed, can be duplicated and adjusted to indicate the different scenarios.

**Application for Air Pollutant Sources in Bernalillo County
Source Registration (20.11.40 NMAC) and Construction Permits (20.11.41 NMAC)**

Regulated Emission Sources Table

(E.g., Generator-Crusher-Screen-Conveyor-Boiler-Mixer-Spray Guns-Saws-Sander-Oven-Dryer-Furnace-Incinerator-Haul Road-Storage Pile, etc.) Match the Units listed on this Table to the same numbered line if also listed on Emissions Tables & Stack Table.

Unit Number and Description ¹		Manufacturer	Model #	Serial #	Manufacture Date	Installation Date	Modification Date ²	Process Rate or Capacity (Hp, kW, Btu, ft ³ , lbs, tons, yd ³ , etc.) ³	Fuel Type
Ex. 1.	Generator	Unigen	B-2500	A567321C	7/1996	7/1997	11/2020	250 Hp/HR	Diesel
Ex. 2.	Spray Gun	HVLP Systems	Spra-N-Stay 1100	K26-56-95	01/2017	11/2017	N/A	0.25 gal./HR	Electric Compressor
1	Emergency Generator Engine	Caterpillar	C4.4	E5G00337	10/2016	3/2017	N/A	161 Hp /	Diesel
								120.1 kW /	
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**Application for Air Pollutant Sources in Bernalillo County
Source Registration (20.11.40 NMAC) and Construction Permits (20.11.41 NMAC)**

Unit Number and Description ¹	Manufacturer	Model #	Serial #	Manufacture Date	Installation Date	Modification Date ²	Process Rate or Capacity (Hp, kW, Btu, ft ³ , lbs, tons, yd ³ , etc.) ³	Fuel Type
							/	
							/	
							/	
							/	
							/	

NOTE: To add extra rows in Word, click anywhere in the last row. A plus (+) sign should appear on the bottom right corner of the row. Click the plus (+) sign to add a row. Repeat as needed.

1. Unit numbers must correspond to unit numbers in the previous permit unless a complete cross reference table of all units in both permits is provided.
2. To determine whether a unit has been modified, evaluate if changes have been made to the unit that impact emissions or that trigger modification as defined in 20.11.41.7(U) NMAC. If not, put N/A.
3. Basis for Equipment Process Rate or Capacity (e.g., Manufacturer's Data, Field Observation/Test, etc.) Unit Tag
Submit information for each unit as an attachment.

**Application for Air Pollutant Sources in Bernalillo County
Source Registration (20.11.40 NMAC) and Construction Permits (20.11.41 NMAC)**

Emissions Control Equipment Table

Control Equipment Units listed on this Table should either match up to the same Unit number as listed on the Regulated Emission Sources, Controlled Emissions and Stack Parameters Tables (if the control equipment is integrated with the emission unit) or should have a distinct Control Equipment Unit Number and that number should then also be listed on the Stack Parameters Table.

Control Equipment Unit Number and Description	Controlling Emissions for Unit Number(s)	Manufacturer	Model # Serial #	Date Installed	Controlled Pollutant(s)	% Control Efficiency ¹	Method Used to Estimate Efficiency	Rated Process Rate or Capacity or Flow
Ex. 8b Baghouse	3,4,5	Best Baghouses	C-12010 A16925	11/12/2019	PM ₁₀ , PM _{2.5}	99%	Manufacturer's Data	1,500 ACFM
N/A								

NOTE: To add extra rows in Word, click anywhere in the last row. A plus (+) sign should appear on the bottom right corner of the row. Click the plus (+) sign to add a row. Repeat as needed.

1. Basis for Control Equipment % Efficiency (e.g., Manufacturer's Data, Field Observation/Test, AP-42, etc.). **Hour Limit**
Submit information for each unit as an attachment.

**Application for Air Pollutant Sources in Bernalillo County
Source Registration (20.11.40 NMAC) and Construction Permits (20.11.41 NMAC)**

Exempted Sources and Exempted Activities Table

See 20.11.41 NMAC for exemptions.

Unit Number and Description		Manufacturer	Model #	Serial #	Manufacture Date	Installation Date	Modification Date ¹	Process Rate or Capacity (Hp, kW, Btu, ft ³ , lbs, tons, yd ³ , etc.) ²	Fuel Type
Ex. 1.	Boiler	Unigen	B-2500	A567321C	7/1996	7/1997	11/2020	3.5 MMBtu/HR	Natural Gas
Ex. 2.	Hot Water Heater	HVLP Systems	6500A	K26-56-95	01/2017	11/2017	N/A	80 gal./HR	Natural Gas
	N/A							/	
								/	
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NOTE: To add extra rows in Word, click anywhere in the last row. A plus (+) sign should appear on the bottom right corner of the row. Click the plus (+) sign to add a row. Repeat as needed.

- To determine whether a unit has been modified, evaluate if changes have been made to the unit that impact emissions or that trigger modification as defined in 20.11.41.7(U) NMAC. Also, consider if any changes that were made alter the status from exempt to non-exempt. If not, put N/A.
- Basis for Equipment Process Rate or Capacity (e.g., Manufacturer’s Data, Field Observation/Test, etc.) _____
Submit information for each unit as an attachment.

**Application for Air Pollutant Sources in Bernalillo County
Source Registration (20.11.40 NMAC) and Construction Permits (20.11.41 NMAC)**

Uncontrolled Emissions Table

(Process potential under physical/operational limitations during a 24 hr/day and 365 day/year = 8760 hrs)

Regulated Emission Units listed on this Table should match up to the same numbered line and Unit as listed on the Regulated Emissions and Controlled Tables. List total HAP values per Emission Unit if overall HAP total for the facility is ≥ 1 ton/yr.

Unit Number*	Nitrogen Oxides (NO _x)		Carbon Monoxide (CO)		Nonmethane Hydrocarbons/Volatile Organic Compounds (NMHC/VOCs)		Sulfur Dioxide (SO ₂)		Particulate Matter ≤ 10 Microns (PM ₁₀)		Particulate Matter ≤ 2.5 Microns (PM _{2.5})		Hazardous Air Pollutants (HAPs)		Method(s) used for Determination of Emissions (AP-42, Material Balance, Field Tests, etc.)
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	
Example 1.	27.7	121.3	9.1	39.9	1.3	5.7	0.5	2.2	2.0	8.8	0.2	0.4	0.2	0.4	AP-42 Section 3.3
1	0.98	4.29	0.34	1.51	.03	0.14	1.74E-3	7.62E-3	0.04	0.17	0.04	0.17	N/A	0.17	EPA-Engine Certification

**Application for Air Pollutant Sources in Bernalillo County
Source Registration (20.11.40 NMAC) and Construction Permits (20.11.41 NMAC)**

Unit Number*	Nitrogen Oxides (NO _x)		Carbon Monoxide (CO)		Nonmethane Hydrocarbons/Volatile Organic Compounds (NMHC/VOCs)		Sulfur Dioxide (SO ₂)		Particulate Matter ≤ 10 Microns (PM ₁₀)		Particulate Matter ≤ 2.5 Microns (PM _{2.5})		Hazardous Air Pollutants (HAPs)		Method(s) used for Determination of Emissions (AP-42, Material Balance, Field Tests, etc.)
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	
Totals of Uncontrolled Emissions															

NOTE: To add extra rows in Word, click anywhere in the second-to-last row. A plus (+) sign should appear on the bottom right corner of the row. Click the plus (+) sign to add a row. Repeat as needed.

* A permit is required and this application along with the additional checklist information requested on the Permit Application checklist must be provided if:
 (1) any one of these process units or combination of units, has an uncontrolled emission rate greater than or equal to (≥) 10 lbs/hr or 25 tons/yr for any of the above pollutants, excluding HAPs, based on 8,760 hours of operation; or
 (2) any one of these process units or combination of units, has an uncontrolled emission rate ≥ 2 tons/yr for any single HAP or ≥ 5 tons/yr for any combination of HAPs based on 8,760 hours of operation; or
 (3) any one of these process units or combination of units, has an uncontrolled emission rate ≥ 5 tons/yr for lead (Pb) or any combination of lead and its compounds based on 8,760 hours of operation; or
 (4) any one of the process units or combination of units is subject to an Air Board or federal emission limit or standard.

* If all of these process units, individually and in combination, have an uncontrolled emission rate less than (<) 10 lbs/hr or 25 tons/yr for all of the above pollutants (based on 8,760 hours of operation), but > 1 ton/yr for any of the above pollutants, then a source registration is required. A Registration is required, at minimum, for any amount of HAP emissions. Please complete the remainder of this form.

**Application for Air Pollutant Sources in Bernalillo County
Source Registration (20.11.40 NMAC) and Construction Permits (20.11.41 NMAC)**

Controlled Emissions Table

(Based on current operations with emission controls OR requested operations with emission controls)

Regulated Emission Units listed on this Table should match up to the same numbered line and Unit as listed on the Regulated Emissions and Uncontrolled Tables. List total HAP values per Emission Unit if overall HAP total for the facility is ≥ 1 ton/yr.

Unit Number	Nitrogen Oxides (NO _x)		Carbon Monoxide (CO)		Nonmethane Hydrocarbons/Volatile Organic Compounds (NMHC/VOCs)		Sulfur Dioxide (SO ₂)		Particulate Matter ≤ 10 Microns (PM ₁₀)		Particulate Matter ≤ 2.5 Microns (PM _{2.5})		Hazardous Air Pollutants (HAPs)		Control Method	% Efficiency ¹
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr		
Example 1.	27.7	55.4	9.1	18.2	1.3	2.6	0.5	1.0	2.0	4.0	0.2	0.088	0.2	0.088	Operating Hours	N/A
1	0.98	0.10	0.34	0.03	0.03	3.18E-3	1.74E-3	1.74E-4	0.04	3.97E-3	0.04	3.97E-3	N/A	N/A	Operating Hours	NA

**Application for Air Pollutant Sources in Bernalillo County
Source Registration (20.11.40 NMAC) and Construction Permits (20.11.41 NMAC)**

Hazardous Air Pollutants (HAPs) Emissions Table

Report the Potential Emission Rate for each HAP from each source on the Regulated Emission Sources Table that emits a given HAP. Report individual HAPs with ≥ 1 ton/yr total emissions for the facility on this table. Otherwise, report total HAP emissions for each source that emits HAPs and report individual HAPs in the accompanying application package in association with emission calculations. If this application is for a Registration solely due to HAP emissions, report the largest HAP emissions on this table and the rest, if any, in the accompanying application package.

Unit Number	Total HAPs		lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr		
	lb/hr	ton/yr																
Example 1.	6.3	18.2	3.2	8.5	2.3	7.7	0.5	1.0	0.3	1.0								
N/A																		
Totals of HAPs for all units:																		

NOTE: To add extra rows in Word, click anywhere in the second-to-last row. A plus (+) sign should appear on the bottom right corner of the row. Click the plus (+) sign to add a row. Repeat as needed. Use Instructions: Copy and paste the HAPs table here if need to list more individual HAPs.

**Application for Air Pollutant Sources in Bernalillo County
Source Registration (20.11.40 NMAC) and Construction Permits (20.11.41 NMAC)**

Purchased Hazardous Air Pollutant Table*

Product Categories (Coatings, Solvents, Thinners, etc.)	Hazardous Air Pollutant (HAP), or Volatile Hazardous Air Pollutant (VHAP) Primary To The Representative As Purchased Product	Chemical Abstract Service (CAS) Number of HAP or VHAP from Representative As Purchased Product	HAP or VHAP Concentration of Representative As Purchased Product (pounds/gallon, or %)	Concentration Determination (CPDS, SDS, etc.) ¹	Total Product Purchases For Category	(-)	Quantity of Product Recovered & Disposed For Category	(=)	Total Product Usage For Category
Example 1. Surface Coatings	Xylene	1330207	4.0 lbs/gal	SDS	lb/yr	(-)	lb/yr	(=)	lb/yr
					100 gal/yr		0 gal/yr		100 gal/yr
Example 2. Cleaning Solvents	Toluene	108883	70%	Product Label	lb/yr	(-)	lb/yr	(=)	lb/yr
					200 gal/yr		50 gal/yr		150 gal/yr
1. N/A					lb/yr	(-)	lb/yr	(=)	lb/yr
					gal/yr		gal/yr		gal/yr
2.					lb/yr	(-)	lb/yr	(=)	lb/yr
					gal/yr		gal/yr		gal/yr
3.					lb/yr	(-)	lb/yr	(=)	lb/yr
					gal/yr		gal/yr		gal/yr
4.					lb/yr	(-)	lb/yr	(=)	lb/yr
					gal/yr		gal/yr		gal/yr
5.					lb/yr	(-)	lb/yr	(=)	lb/yr
					gal/yr		gal/yr		gal/yr
6.					lb/yr	(-)	lb/yr	(=)	lb/yr
					gal/yr		gal/yr		gal/yr
7.					lb/yr	(-)	lb/yr	(=)	lb/yr
					gal/yr		gal/yr		gal/yr
8.					lb/yr	(-)	lb/yr	(=)	lb/yr
					gal/yr		gal/yr		gal/yr
9.					lb/yr	(-)	lb/yr	(=)	lb/yr
					gal/yr		gal/yr		gal/yr
.					lb/yr	(-)	lb/yr	(=)	lb/yr
					gal/yr		gal/yr		gal/yr
TOTALS					lb/yr	(-)	lb/yr	(=)	lb/yr
					gal/yr		gal/yr		gal/yr

NOTE: To add extra rows in Word, click anywhere in the second-to-last row. A plus (+) sign should appear on the bottom right corner of the row. Click the plus (+) sign to add a row. Repeat as needed.

NOTE: Product purchases, recovery/disposal and usage should be converted to the units listed in this table. If units cannot be converted please contact the Air Quality Program prior to making changes to this table.

1. Submit, as an attachment, information on one (1) product from each Category listed above which best represents the average of all the products purchased in that Category. CPDS = Certified Product Data Sheet; SDS = Safety Data Sheet

*** A Registration is required, at minimum, for any amount of HAP or VHAP emission.**

Emissions from purchased HAP usage should be accounted for on previous tables as appropriate.

A permit may be required for these emissions if the source meets the requirements of 20.11.41 NMAC.

**Application for Air Pollutant Sources in Bernalillo County
Source Registration (20.11.40 NMAC) and Construction Permits (20.11.41 NMAC)**

Material and Fuel Storage Table

(E.g., Tanks, barrels, silos, stockpiles, etc.)

Storage Equipment		Product Stored	Capacity (bbls, tons, gals, acres, etc.)	Above or Below Ground	Construction (Welded, riveted) & Color	Installation Date	Loading Rate ¹	Offloading Rate ¹	True Vapor Pressure	Control Method	Seal Type	% Eff. ²
Ex. 1.	Tank	Diesel Fuel	5,000 gal.	Below	Welded/Brown	3/1993	3,000 gal/hr	500 gal/hr	N/A	N/A	N/A	N/A
Ex. 2.	Barrels	Solvent	55 gal. drum	Above	Welded/Green	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1	Tank	Diesel Fuel	209 Gal	Above	Welded Black	2017	N/A	N/A	N/A	N/A	N/A	N/A

NOTE: To add extra rows in Word, click anywhere in the last row. A plus (+) sign should appear on the bottom right corner of the row. Click the plus (+) sign to add a row. Repeat as needed.

1. Basis for Loading/Offloading Rate (*e.g.*, Manufacturer’s Data, Field Observation/Test, etc.). _____
Submit information for each unit as an attachment.
2. Basis for Control Method % Efficiency (*e.g.*, Manufacturer’s Data, Field Observation/Test, AP-42, etc.). _____
Submit information for each unit as an attachment.

**Application for Air Pollutant Sources in Bernalillo County
Source Registration (20.11.40 NMAC) and Construction Permits (20.11.41 NMAC)**

Stack Parameters Table

If any equipment from the Regulated Emission Sources Table is also listed in this Stack Table, use the same numbered line for the emission unit on both tables to show the association between the Process Equipment and its stack.

Unit Number and Description		Pollutant (CO, NOx, PM ₁₀ , etc.)	UTM Easting (m)	UTM Northing (m)	Stack Height (ft)	Stack Exit Temp. (°F)	Stack Velocity (fps)	Stack Flow Rate (acfm)	Stack Inside Diameter (ft)	Stack Type
Ex. 1.	Generator	CO, NOx, PM ₁₀ , PM _{2.5} , SO ₂	349430.28	3884014.64	18	900 °F	150 fps	4524 acfm	0.8	Rain Cap
Ex. 2.	Spray Gun	PM ₁₀ , xylene, toluene	348540.1	3882928.5	9.2	Ambient	50 fps	589 acfm	0.5	Vertical
1	Generator	CO,NOx, NMHC, SOx,PM10&2.5	352241	3883656	6.92	1166F	31.6	620CFM	0.25	Vertical
										Select
										Select
										Select
										Select

NOTE: To add extra rows in Word, click anywhere in the last row. A plus (+) sign should appear on the bottom right corner of the row. Click the plus (+) sign to add a row. Repeat as needed.

**Application for Air Pollutant Sources in Bernalillo County
Source Registration (20.11.40 NMAC) and Construction Permits (20.11.41 NMAC)**

Certification

NOTICE REGARDING SCOPE OF A PERMIT: The Environmental Health Department's issuance of an air quality permit only authorizes the use of the specified equipment pursuant to the air quality control laws, regulations and conditions. Permits relate to air quality control only and are issued for the sole purpose of regulating the emission of air contaminants from said equipment. Air quality permits are not a general authorization for the location, construction and/or operation of a facility, nor does a permit authorize any particular land use or other form of land entitlement. It is the applicant's/permittee's responsibility to obtain all other necessary permits from the appropriate agencies, such as the City of Albuquerque Planning Department or Bernalillo County Department of Planning and Development Services, including but not limited to site plan approvals, building permits, fire department approvals and the like, as may be required by law for the location, construction and/or operation of a facility. For more information, please visit the City of Albuquerque Planning Department website at <https://www.cabq.gov/planning> and the Bernalillo County Department of Planning and Development Services website at <https://www.bernco.gov/planning>.

NOTICE REGARDING ACCURACY OF INFORMATION AND DATA SUBMITTED: Any misrepresentation of a material fact in this application and its attachments is cause for denial of a permit or revocation of part or all of the resulting registration or permit, and revocation of a permit for cause may limit the permittee's ability to obtain any subsequent air quality permit for ten (10) years. Any person who knowingly makes any false statement, representation, or certification in any application, record, report, plan or other document filed or required to be maintained under the Air Quality Control Act, NMSA 1978 §§ 74-2-1 to 74-2-17, is guilty of a misdemeanor and shall, upon conviction, be punished by a fine of not more than ten thousand dollars (\$10,000) per day per violation or by imprisonment for not more than twelve months, or by both.

I, the undersigned, hereby certify that I have knowledge of the information and data represented and submitted in this application and that the same is true and accurate, including the information and data in any and all attachments, including without limitation associated forms, materials, drawings, specifications, and other data. I also certify that the information represented gives a true and complete portrayal of the existing, modified existing, or planned new stationary source with respect to air pollution sources and control equipment. I understand that there may be significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations. I also understand that the person who has applied for or has been issued an air quality permit by the Department is an obligatory party to a permit appeal filed pursuant to 20.11.81 NMAC. Further, I certify that I am qualified and authorized to file this application, to certify the truth and accuracy of the information herein, and bind the source. Moreover, I covenant and agree to comply with any requests by the Department for additional information necessary for the Department to evaluate or make a final decision regarding the application.

Signed this 7th day of June, 2022

Teresa Costantinidis

Print Name

Senior Vice President for Finance and Administration

Print Title



Signature

Role: Owner Operator

Other Authorized Representative

6. EMISSIONS INFORMATION

Emissions are based on the applicable EPA engine family database, pulled from the EPA website. The information used is available here: <https://www.epa.gov/compliance-and-fuel-economy-data/annual-certification-data-vehicles-engines-and-equipment>. The engine family is identified on the unit as GPKXL04.4NR1, engine code 4514. The EPA emissions data is summarized in the table below. Filtered rows from the EPA database are included in the appendix. Where there are multiple values for an emissions factor, the greatest value is used.

Manufacture Year	Engine Family/Certificate	Rated Power	NMHC	NOx	NMHC+NOx	CO	PM
2016	GPKXL04.4NR1-002	120 kW	0.12	3.7	3.8	1.3	0.15



Please see the tables below for emissions information. Since emissions of SO₂ were not measured the maximum allowable sulfur (15ppm) in ULSD was used for calculating potential emissions.

Uncontrolled Emissions								
Pollutant	Emission Factor (g/kW-hr)	Engine kW	Emissions in g/hr	g/lb	lb/hr	Potential Op hrs/yr	lb/ton	tons/yr
CO	1.3	120.1	156.13	453.6	0.34	8760	2000	1.51
Nox	3.7	120.1	444.37	453.6	0.98	8760	2000	4.29
NMHC	0.12	120.1	14.412	453.6	0.03	8760	2000	0.14
Nox+NMHC	3.8	120.1	456.38	453.6	1.01	8760	2000	4.41
SOx	-	120.1	0.789	453.6	1.74E-03	8760	2000	7.62E-03
PM 10	0.15	120.1	18.015	453.6	0.04	8760	2000	0.17
PM 2.5	0.15	120.1	18.015	453.6	0.04	8760	2000	0.17

Controlled Emissions					
	Emissions lb/hr	hr/yr requested	lb/yr	lb/ton	Tons/yr
CO	0.34	200	68.84	2000	0.03
Nox	0.98	200	195.93	2000	0.10
NMHC	0.03	200	6.35	2000	3.18E-03
Nox+NMHC	1.01	200	201.23	2000	0.10
SOx	1.74E-03	200	0.35	2000	1.74E-04
PM 10	0.04	200	7.94	2000	3.97E-03
PM 2.5	0.04	200	7.94	2000	3.97E-03

Old unit vs new unit						
	Old Permit lb/hr	Old Ton/yr	New lb/hr	New ton/yr	Dif lb/hr	Dif ton/yr
CO	1.08	0.11	0.34	0.03	-0.74	-0.08
Nox	0.9	0.09	0.98	0.10	0.08	0.01
NMHC	0.04	0.004	0.03	0.003	-0.01	0.00
Nox+NMHC	0.9	0.09	1.01	0.10	0.11	0.01
SOx	2.70E-01	3.00E-02	1.74E-03	1.74E-04	-2.68E-01	-2.98E-02
PM 10	6.00E-02	6.00E-03	0.04	3.97E-03	-0.02	-2.03E-03
PM 2.5	6.00E-02	6.00E-03	0.04	3.97E-03	-0.02	-2.03E-03

6.1. Example Calculations

Example calculation of sulfur lb/hr. Note that conversion factors of 7000 Btu/Hp-hr and 137000 Btu/Gallon of diesel are taken from AP-42 Chapter 3.3. The specific gravity (density) of diesel (0.845) is taken from the SDS available in the appendix. A concentration of 15 ppm sulfur in Ultra-low Sulfur Diesel is based on 40 CFR 80. In order to calculate this, an assumption is made that all sulfur in fuel is converted to SO₂ during combustion.

$$161 \text{ hp} \times \frac{7,000 \text{ Btu}}{\text{hp} - \text{hr}} \times \frac{1 \text{ Gal Diesel}}{137,000 \text{ BTU}} = 8.23 \text{ gal/hr}$$

$$8.23 \frac{\text{gal}}{\text{hr}} \times 3.785 \frac{\text{L}}{\text{gal}} \times 0.845 \frac{\text{kg Diesel}}{\text{L Diesel}} \times 15 \frac{\text{mg Sulfur}}{\text{kg Diesel}} \times \frac{1 \text{ g}}{1000 \text{ mg}} = 0.395 \text{ g Sulfur/hr}$$

$$0.395 \frac{\text{g S}}{\text{hr}} \times \frac{1 \text{ mol S}}{32.065 \text{ g S}} \times \frac{1 \text{ mol SO}_2}{1 \text{ mol S}} \times \frac{64.066 \text{ g SO}_2}{\text{mol SO}_2} = 0.789 \frac{\text{g SO}_2}{\text{hr}}$$

$$0.789 \frac{\text{g SO}_2}{\text{hr}} \times \frac{1 \text{ lb}}{453.6 \text{ g}} = 1.74 \times 10^{-3} \frac{\text{lb SO}_2}{\text{hr}}$$

$$1.74 \times 10^{-3} \frac{\text{lb}}{\text{hr}} \times 8760 \frac{\text{hr}}{\text{yr}} \times 2000 \frac{\text{lb}}{\text{ton}} = 7.62 \times 10^{-3} \frac{\text{tons}}{\text{yr}} \text{ uncontrolled SO}_2 \text{ Emissions}$$

$$1.74 \times 10^{-3} \frac{lb}{hr} \times 200 \frac{hr}{yr} = 0.35 \frac{lb}{yr} \times 2000 \frac{lb}{ton} = 1.74 \times 10^{-4} \frac{tons}{yr} \text{ controlled emissions of SO}_2$$

Example calculations:

NOx

$$3.7 \frac{g}{kw hr} \times 120.1 kw = 444.37 \frac{g}{hr}$$

$$444.37 \frac{g}{hr} \times \frac{1lb}{453.6g} = 0.98 \frac{lb}{hr}$$

$$0.98 \frac{lb}{hr} \times 8760 \frac{hr}{yr} \times 2000 \frac{lb}{ton} = 4.29 \frac{tons}{yr} \text{ uncontrolled NOx Emissions}$$

$$0.98 \frac{lb}{hr} \times 200 \frac{hr}{yr} = 195.93 \frac{lb}{yr} \times 2000 \frac{lb}{ton} = 0.10 \frac{tons}{yr} \text{ controlled emissions of NOX}$$

CO

$$1.3 \frac{g}{kw hr} \times 120.1 kw = 156.13 \frac{g}{hr}$$

$$156.13 \frac{g}{hr} \times \frac{1lb}{453.6g} = 0.34 \frac{lb}{hr}$$

$$0.34 \frac{lb}{hr} \times 8760 \frac{hr}{yr} \times 2000 \frac{lb}{ton} = 1.51 \frac{tons}{yr} \text{ uncontrolled CO Emissions}$$

$$0.34 \frac{lb}{hr} \times 200 \frac{hr}{yr} = 68.84 \frac{lb}{yr} \times 2000 \frac{lb}{ton} = 0.03 \frac{tons}{yr} \text{ controlled emissions of CO}$$

NMHC (VOC)

$$0.12 \frac{g}{kw hr} \times 120.1 kw = 14.41 \frac{g}{hr}$$

$$14.41 \frac{g}{hr} \times \frac{1lb}{453.6g} = 0.03 \frac{lb}{hr}$$

$$0.03 \frac{lb}{hr} \times 8760 \frac{hr}{yr} \times 2000 \frac{lb}{ton} = 0.14 \frac{tons}{yr} \text{ uncontrolled NMHC Emissions}$$

$$0.03 \frac{lb}{hr} \times 200 \frac{hr}{yr} = 6.35 \frac{lb}{yr} \times 2000 \frac{lb}{ton} = 3.2 \times 10^{-3} \frac{tons}{yr} \text{ controlled emissions of NMHC}$$

PM

$$0.15 \frac{g}{kw hr} \times 120.1 kw = 18.015 \frac{g}{hr}$$



$$18.015 \frac{g}{hr} \times \frac{1lb}{453.6g} = 0.04 \frac{lb}{hr}$$

$$0.04 \frac{lb}{hr} \times 8760 \frac{hr}{yr} \times 2000 \frac{lb}{ton} = 0.17 \frac{tons}{yr} \text{ uncontrolled PM Emissions}$$

$$0.04 \frac{lb}{hr} \times 200 \frac{hr}{yr} = 6.35 \frac{lb}{yr} \times 2000 \frac{lb}{ton} = 3.97 \times 10^{-3} \frac{tons}{yr} \text{ controlled emissions of PM}$$

6.2. Basis of Control

Emissions control is based on limiting operating hours of the generator. The generator will be exercised 0.5 hours each month as part of regular maintenance. In addition, the unit will function when there is a utility power outage. The estimated number of hours of utility outage is under 100 hr/yr. UNM will monitor the engine hour meter monthly and report any incidence of the generator running over 200 hours in any 12-month rolling period under the excess emissions reporting requirements of Title V operating permit # 0536-RN1.

6.3. Fuel Data

UNM purchases only ULSD diesel for use in emergency generators, regulated under 40 CFR 1090 Subpart D. All diesel fuel deliveries meet the specifications outlined therein. An SDS is included in the Appendix.

6.4. Stack Exhaust

The stack for the generator is located directly above the enclosure. The release height is 83in above grade, has a 1166°F exit temp, and flow rate of 31.6 fps and is 2.5in in diameter. The stack follow volume is 620 cfm.



7. OPERATIONS AND MAINTENANCE STRATEGY

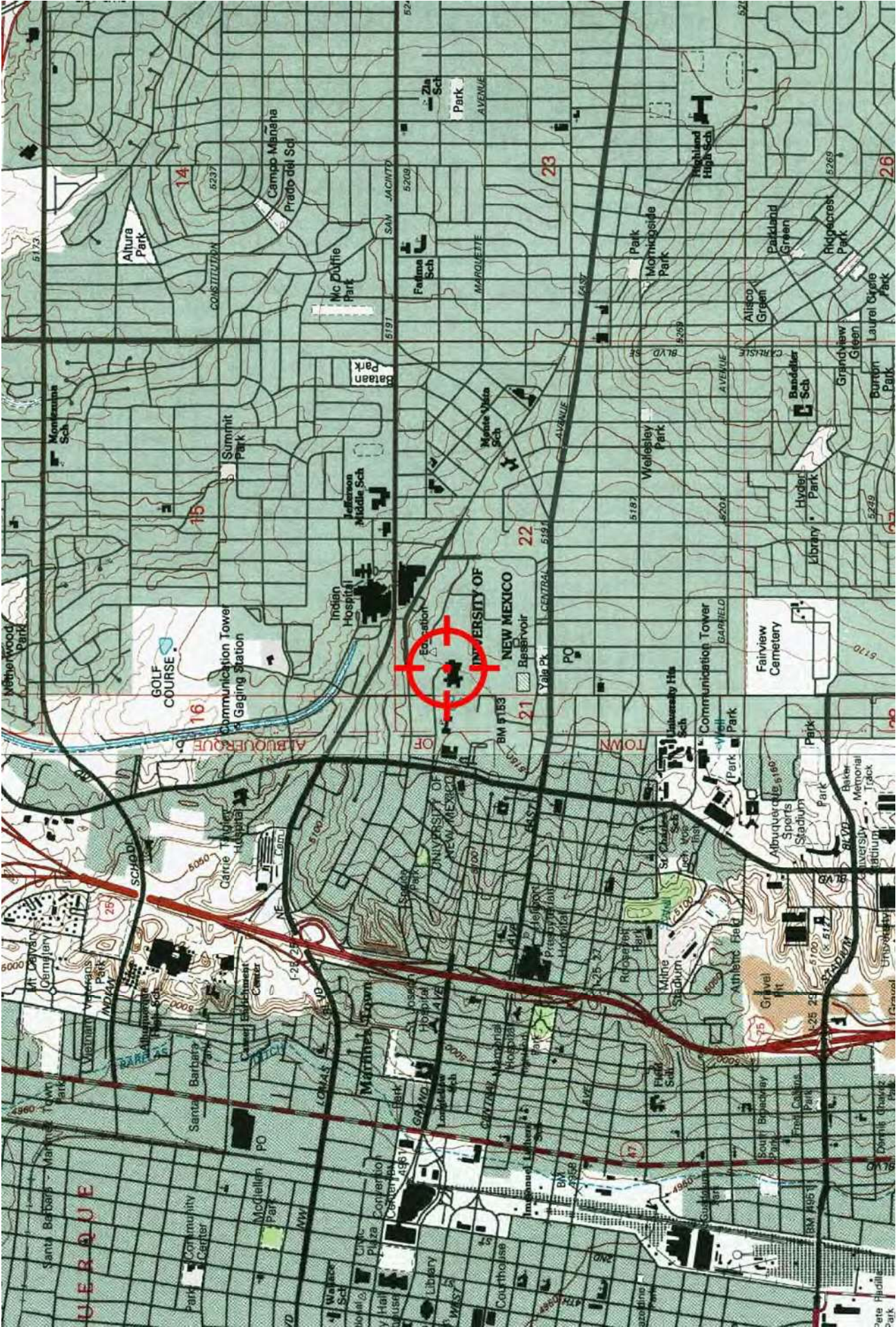
The emergency generator located at Zimmerman Library will implement the following O&M strategy to mitigate emissions. Pursuant to 20.11.41.13.E.(5) NMAC UNM will:

- (a) In the case of a malfunction that causes excess emissions, Facilities Management reports the malfunction to Environmental Health and Safety. The exceedance is then reported to the City of Albuquerque EHD in accordance with UNM's Title V permit 0536-RN1. A root cause of the exceedance will then be identified and repaired as quickly as practicable.
- (b) Emissions of particulate matter as seen through opacity are higher during startup and shutdown due to low engine temperature leading to incomplete combustion during the compression ignition cycle. This unit is not equipped with any control equipment.
- (c) The engine will be maintained in accordance with the manufacturer's requirements including monthly exercise and regular maintenance to reduce emissions during startup and shutdown.



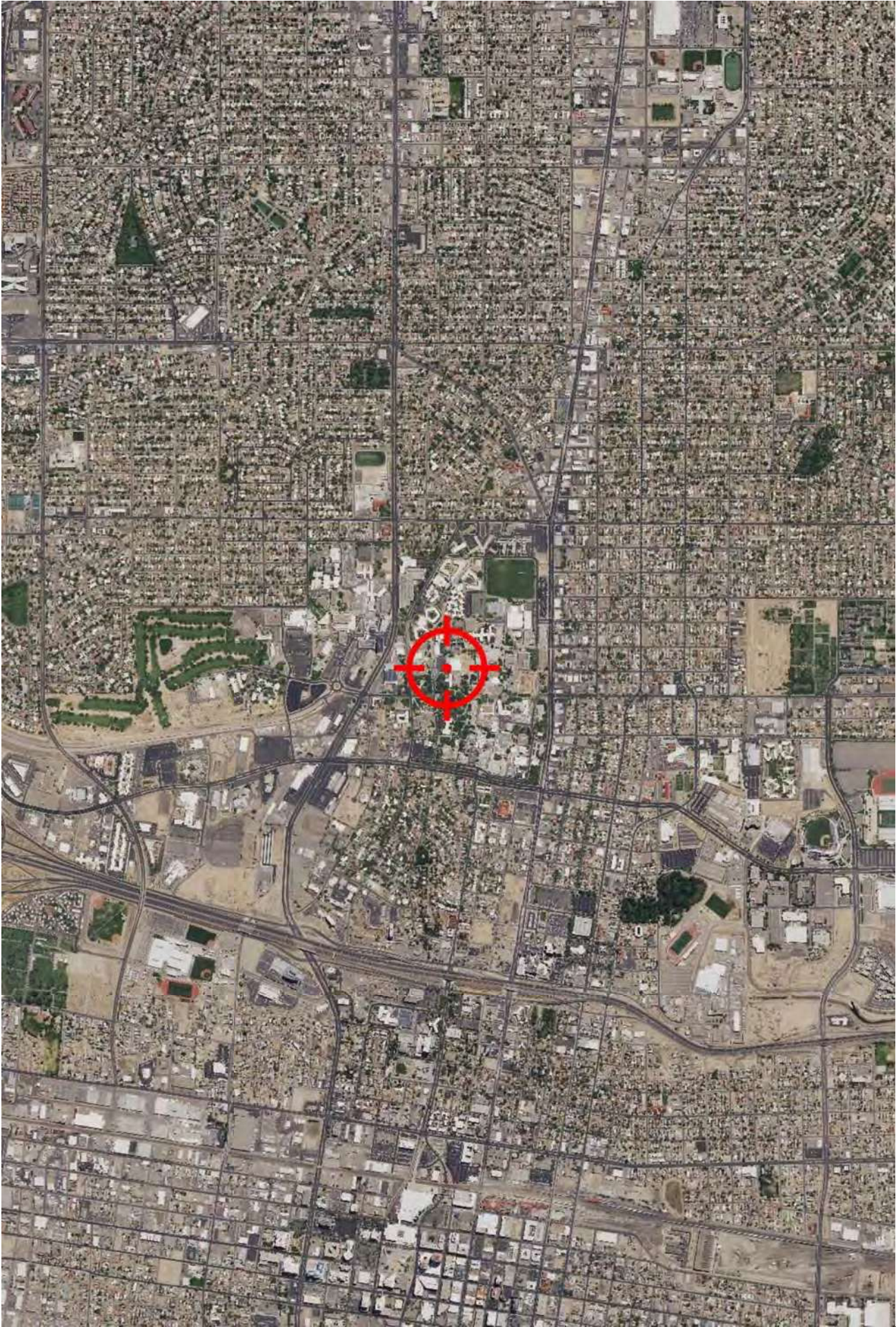
8. MAPS AND AERIAL IMAGERY





Mercator Projection
 WGS84
 UTM Zone 13S



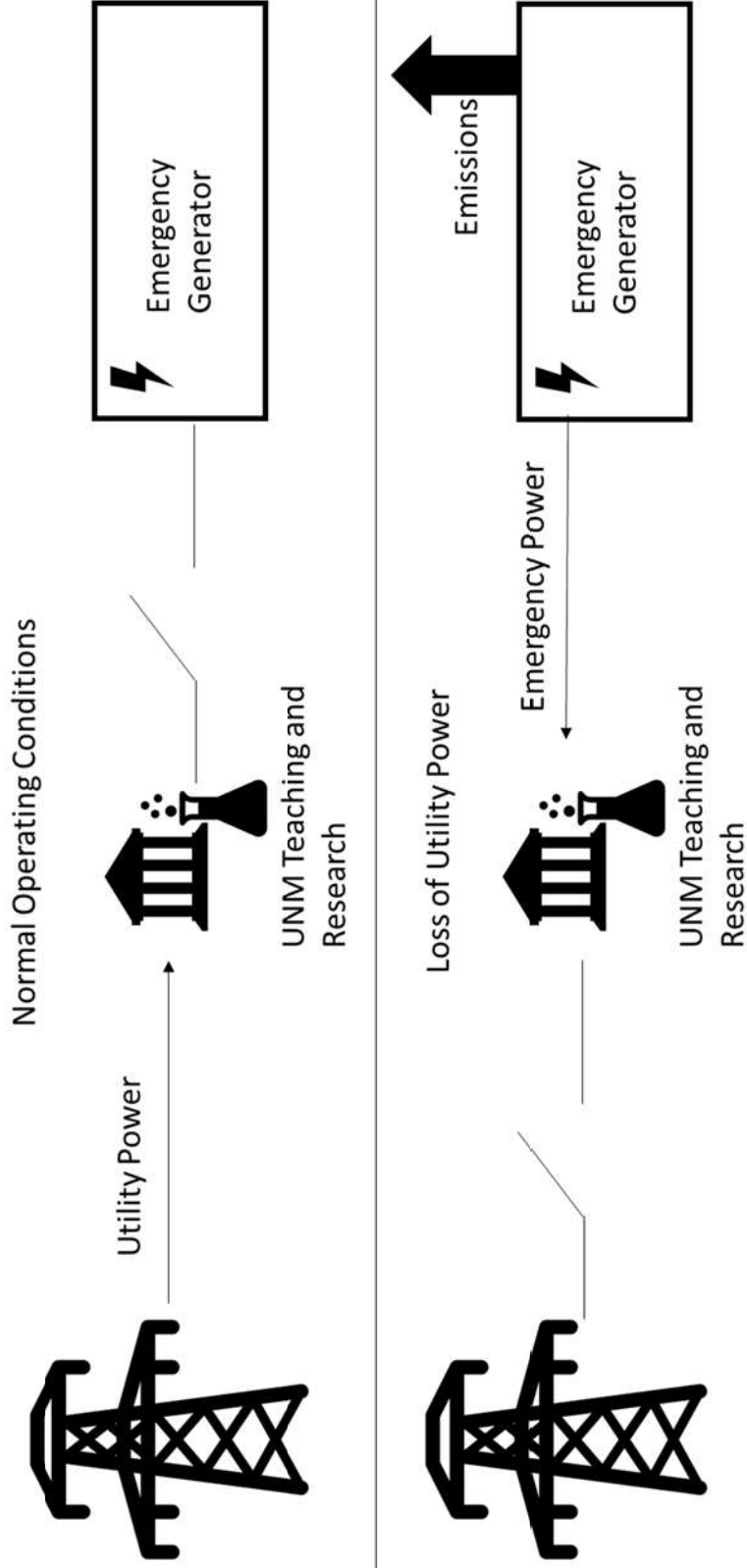
Mercator Projection
WGS84
UTM Zone 13S




A QR code is located in the top right corner. To its right is a north arrow pointing upwards, with the text 'MN 8.1°' positioned below it.

9. PROCESS FLOW DIAGRAM

Zimmerman Emergency Generator Process Flow Diagram



10. OPERATIONAL SCHEDULE

The emission Unit 053-EG-1 is anticipated to run when exercised, approximately 0.5 hours per month, and when utility power is not available. UNM anticipates the generator will operate less than 150 hours per year. We are requesting an operational maximum of 200 hours per year. UNM will monitor the engine hour meter monthly and report any incidence of the generator running over 200 hours in any 12-month rolling period under the excess emissions reporting requirements of Title V operating permit # 0536-RN1.



11. ZONING CERTIFICATIONS





**City of Albuquerque
Environmental Health Department
Air Quality Program**



**Construction Permit (20.11.41 NMAC)
Zoning Requirement Cover Letter**

This Cover Letter Must Be Returned With The Application Along With All Required Attachments

The Albuquerque-Bernalillo County Joint Air Quality Program, which administers and enforces local air quality laws for the City of Albuquerque (“City”) and Bernalillo County (“County”), on behalf of the City Environmental Health Department (“Department”).

Any person seeking a new air quality permit or a permit modification under 20.11.41 NMAC (Construction Permits) shall provide documentary proof that the proposed air quality permitted use of the facility’s subject property is allowed by the zoning designation of the City or County zoning laws, as applicable. Sufficient documentation may include (i) a zoning certification from the City Planning Department or County Department of Planning and Development Services, as applicable, if the applicant is subject to City or County zoning jurisdiction; or (ii) a zoning verification from both planning departments if the applicant is not subject to City or County zoning jurisdiction. A zone atlas map shall not be sufficient. At this time, applicants are not required to submit documentation for the subject property’s zoning designation when applying for an emergency permit, a new portable stationary source, a relocation of a portable stationary source, or a technical or administrative revision to an existing permit.

The Department will rule an application administratively incomplete if it is missing or has incorrect information. If the Department has ruled an application administratively incomplete three (3) times, the Department will deny the permit application. Any fees submitted for processing an application that has been denied will not be refunded. If the Department denies an application, a person may submit a new application and the fee required for a new application. The applicant has the burden of demonstrating that a permit should be issued.

The Department may require additional information that is necessary to make a thorough review of an application. At all times before the Department has made a final decision regarding the application, an applicant has a duty to promptly supplement and correct information the applicant has submitted in an application to the Department. The applicant’s duty to supplement and correct the application includes, but is not limited to, relevant information acquired after the applicant has submitted the application and additional information the applicant otherwise determines is relevant to the application and the Department’s review and decision. While the Department is processing an application, regardless of whether the Department has determined the application is administratively complete, if the Department determines that additional information is necessary to evaluate or make a final decision regarding the application, the Department may request additional information and the applicant shall provide the requested additional information.

NOTICE REGARDING SCOPE OF A PERMIT: The Department’s issuance of an air quality permit only authorizes the use of the specified equipment pursuant to the air quality control laws, regulations and conditions. Permits relate to air quality control only and are issued for the sole purpose of regulating the emission of air contaminants from said equipment. Air quality permits are not a general authorization for the location, construction and/or operation of a facility, nor does a permit authorize any particular land use or other form of land entitlement. It is the applicant’s/permittee’s responsibility to obtain all other necessary permits from the appropriate agencies, such as the City Planning Department or County Department of Planning and Development Services, including but not limited to site plan approvals, building permits, fire department approvals and the like, as may be required by law for the location, construction and/or operation of a facility. For more information, please visit the City Planning Department website at <https://www.cabq.gov/planning> and the County Department of Planning and Development Services website at <https://www.bernco.gov/planning>.

Corporate and Facility Information: This information shall match the information in the permit application.

Air Quality Permit Applicant Company Name: University of New Mexico			
Facility Name: Zimmerman Library			
Facility Physical Address: 800 Yale Blvd (1900 Roma Ave NE)	City: Albuquerque	State: NM	Zip: 87131
Facility Legal Description: UNM Campus 8.1 AC TR - UPC 101605703945420605			

General Operation Information: This information shall match the information in the permit application.

Permitting action being requested (please refer to the definitions in 20.11.41 NMAC):

- New Permit Permit Modification, Current Permit #: **3299**

Attachment Information: The location information provided to the City Planning Department or County Department of Planning and Development Services, as applicable, and reflected in the zoning certification or verifications, as applicable, shall be the same as the Facility location information provided to the Department in the air quality construction permit application.

<p><input type="checkbox"/> Zoning Certification Provided by: Choose an item.</p> <p><i>This is a use-specific certification.</i></p> <p>City Planning Form: https://www.cabq.gov/planning/code-enforcement-zoning</p> <p>County Planning Form: https://www.bernco.gov/planning/planning-and-land-use/applications-forms/</p>	<p><input checked="" type="checkbox"/> City Zoning Verification</p> <p><input checked="" type="checkbox"/> County Zoning Verification</p> <p>City Planning Form: https://www.cabq.gov/planning/code-enforcement-zoning</p> <p>County Planning Form: https://www.bernco.gov/planning/planning-and-land-use/applications-forms/</p>
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CITY OF ALBUQUERQUE

CODE ENFORCEMENT

Plaza Del Sol Building, Suite 500
600 2nd Street NW
Albuquerque, NM 87102
Tel: (505) 924-3850 Fax: (505) 924-3847



Date: May 3, 2022

VIA Email, ehsweb-l@list.unm.edu

Environmental Health and Safety University of New Mexico
1 University of New Mexico MSCO7 4100
Albuquerque, NM 87131

RE: 2000 Las Lomas Rd NE "AKA" 1900 Roma Ave. NE the "property".
UPC: 101605703945420605

To Whom It May Concern:

This letter will certify that according to the map on file in this office on May 3, 2022, the referenced property, legally described as: UNM CAMPUS 8.1 AC TR Albuquerque, Bernalillo County, New Mexico, is Zoned: RESIDENTIAL – MULTI-FAMILY HIGH DENSITY ZONE DISTRICT (R-MH)

PO Box 1293

The current use of the property is University or College, which is a legally non-conforming use in the R-MH Zone.

Albuquerque

This property has been inspected and it was found to be in compliance with the applicable provisions of the Integrated Development Ordinance. This site is not controlled by an approved site development plan, and there are no special exceptions or overlays associated with this site.

NM 87103

If you have any questions regarding this matter please contact me at (505) 924-3301 or by email at ametzgar@cabq.gov.

www.cabq.gov

Sincerely:

Angelo Metzgar,
Code Compliance Manager, Code Enforcement, Planning Department

RESIDENTIAL – MULTI-FAMILY HIGH DENSITY ZONE DISTRICT (R-MH)

Purpose: The purpose of the R-MH zone district is to promote and encourage the development of high-density attached and multi-family housing, with taller, multi-story buildings encouraged in Centers and Corridors in areas close to major streets and public transit facilities. The primary land use is multi-family dwellings, with limited civic and institutional uses to serve the surrounding residential area.



This document provides a summary about development in the R-MH zone district. It includes links to Frequently Asked Questions (FAQs) about allowable uses, use-standards, development standards, and the approval process.

The document also includes a summary of the development standards and a summary of the allowable uses in this zone. To see the full Integrated Development Ordinance (IDO), click the link below.

<https://ido.abc-zone.com/>

Notes:

1. Check the project website for links to the Integrated Development Ordinance, the Allowable Uses Table, and excerpts from the Allowable Uses Table for each zone district.
<https://abc-zone.com/node/919>
2. Check the IDO to see if there are any Use-specific Standards or an Airport Protection Overlay zone that may change the allowable uses on your property. (See IDO Part 4 and Section 3-3, respectively). For more information, see these FAQs:
<https://abc-zone.com/node/915>
<https://abc-zone.com/node/931>
3. Check the IDO to find development standards for your zone district and any context-specific standards that apply to your property. (See IDO Parts 2 and 5.) For more information, see this FAQ:
<https://abc-zone.com/node/930>
4. Check the IDO to find review and approval processes that may apply to a zone district, your project, or your property. (See IDO Part 6.) For more information, see this FAQ:
<https://abc-zone.com/node/933>

If you have other questions, contact the Planning Department at 924-3860 and request to schedule a Pre-application Review Team Meeting (PRT).

Development Standards Summary

Table 2-3-11: R-MH Zone District Dimensional Standards

UC-MS-PT = Urban Centers, Main Street areas, and Premium Transit areas BR = bedroom DU = dwelling units

Note: Any different dimensional standards in Part 14-16-3 (Overlay Zones) and Section 14-16-5-9 (Neighborhood Edges) applicable to the property shall prevail over the standards in this table.

Development Location	General	UC-MS-PT
Site Standards*		
Lot size, minimum See Subsection 14-16-5-1(C)(2)	A	10,000 sq. ft.
Lot width, minimum See Subsection 14-16-5-1(C)(2)	B	150 ft. 100 ft.
Usable open space, minimum	C	≤1 BR: 225 sq. ft. / unit 2 BR: 285 sq. ft. / unit ≥3 BR: 350 sq. ft. / unit 50% reduction
Setback Standards		
Front, minimum	D	15 ft. / N/A 0 ft. / 10 ft.
Side, minimum	E	Interior: 5 ft.; Street side: 10 ft. / N/A 0 ft. / Street side: 15 ft.
Rear, minimum	F	15 ft.
Building Height		
Building height, maximum	G	48 ft. 65 ft. >100 ft. from all lot lines: N/A



[1] Residential development that qualifies for funding through Article 14-17 of ROA 1994 (Family Housing Developments) may be eligible for development incentives specified in that Article.

*See IDO Subsection 14-16-5-1(C)(2) Contextual Residential Development in Areas of Consistency, if applicable, for additional standards that modify these general dimensional standards.

Table 2-3-12: Other Applicable IDO Sections

Overlay Zones	Part 14-16-3	Landscaping, Buffering, and Screening	14-16-5-6
Allowable Uses	14-16-4-2	Walls and Fences	14-16-5-7
Use-specific Standards	14-16-4-3	Outdoor Lighting	14-16-5-8
Dimensional Standards	14-16-5-1	Neighborhood Edges	14-16-5-9
Site Design and Sensitive Lands	14-16-5-2	Solar Access	14-16-5-10
Access and Connectivity	14-16-5-3	Building Design	14-16-5-11
Subdivision of Land	14-16-5-4	Signs	14-16-5-12
Parking and Loading	14-16-5-5	Operations and Maintenance	14-16-5-13

Use Table Summary

The following excerpt from Table 4-2-1 shows the allowable uses for the **R-MH zone district only** (highlighted). See the Integrated Development Ordinance (IDO) for the complete list of uses allowed in all zone districts and use definitions (Table 4-2-1 and Subsection 14-16-7-1, respectively).

- ⇒ Permissive uses (P) are allowed in this zone by right, without any other approvals
- ⇒ Conditional uses (C) require approval at a public hearing (see Subsection 14-16-6-6(A) for more info)
- ⇒ Accessory uses (A) must be in addition to an allowed primary use (either P or C)

The column on the far right (also highlighted), provides IDO section references for Use-specific Standards that may apply to a use. These Use-specific Standards may change the allowable uses depending on the context of the site or may impose requirements on the development.

Table 4-2-1: Allowable Uses																		
P = Permissive Primary C = Conditional Primary A = Permissive Accessory CA = Conditional Accessory CV = Conditional if Structure Vacant for 5 years or more T = Temporary Blank Cell = Not Allowed																		
Zone District >>	Residential				Mixed-use				Non-residential					Use-specific Standards				
	R-A	R-1	R-MC	R-T	R-ML	R-MH	MX-T	MX-L	MX-M	MX-H	NR-C	NR-BP	LM		GM	NR-SU	NR-PO	
Land Uses																A	B	C
PRIMARY USES THAT MAY BE ACCESSORY IN SOME ZONE DISTRICTS																		
RESIDENTIAL USES																		
Household Living																		
Dwelling, townhouse				P	P	P	P	P	P									4-3(B)(5)
Dwelling, live-work				C	C	P	P	P	P	CA	CA							4-3(B)(6)
Dwelling, multi-family					P	P	P	P	P									4-3(B)(7)
Group Living																		
Assisted living facility or nursing home				C	P	P	P	P	P									
Community residential facility, small	P	P		P	P	P	P	P	P									4-3(B)(8)
Community residential facility, large					P	P	P	P	P									4-3(B)(8)
Dormitory					P	C	P	P	P									
Group home, small				C	P	P	P	P										4-3(B)(9)
Group home, medium				C	C	C	P	P	P									4-3(B)(9)
Group home, large					C			C	C									4-3(B)(9)
CIVIC AND INSTITUTIONAL USES																		
Adult or child day care facility			C	C	C	P	P	P	P	P	P	A	A					
Community center or library	C	P		P	P	P	P	P	P	C	C	C	C		P		C	4-3(C)(1)
Elementary or middle school	C	C		C	P	P	P	P	P	P	P	CV			P		C	4-3(C)(2)
High school	C	C		C	C	P	P	P	P	P	P	C			P			4-3(C)(3)
Museum				CV	CV	C	P	P	P	P	P	P	P		P	A		4-3(C)(5)
Parks and open space	P	P		P	P	P	P	P	P	P	P	C	C	A	P	P	P	4-3(C)(7)
Religious institution	P	P		P	P	P	P	P	P	P	P	CV	CV					4-3(C)(8)

Table 4-2-1: Allowable Uses

P = Permissive Primary C = Conditional Primary A = Permissive Accessory CA = Conditional Accessory
 CV = Conditional if Structure Vacant for 5 years or more T = Temporary Blank Cell = Not Allowed

Zone District >>	Residential					Mixed-use				Non-residential						Use-specific Standards			
	R-A	R-1	R-MC	R-T	R-ML	R-MH	MX-T	MX-L	MX-M	MX-H	NR-C	NR-BP	LM	GM	NR-SU		NR-PO		
Land Uses																A	B	C	
University or college						CV	CV	C	P	P	P	P	CV	CV					
Vocational school						CV	P	P	P	P	P	P	P	P					
COMMERCIAL USES																			
Agriculture and Animal-related																			
Community garden	P	P	P	P	P	P	P	P	P	P	P	P	C	C		A	A	A	4-3(D)(1)
Food, Beverage, and Indoor Entertainment																			
Auditorium or theater						A	A	A	P	P	P	P	P	P					4-3(D)(7)
Health club or gym			A		A	A	P	P	P	P	P	P	P	A					4-3(D)(9)
Residential community amenity, indoor	P	P	P	P	P	P	P	P	P	P								C	4-3(D)(11)
Lodging																			
Bed and breakfast	A	CA		A	A	P	P												4-3(D)(13)
Motor Vehicle-related																			
Paid parking lot			A		A	A	C	P	P	A	P	P	P	P	A	A	A		4-3(D)(22)
Parking structure			A		A	A	CA	P	P	P	P	P	P	P	A				4-3(D)(22)
Outdoor Recreation and Entertainment																			
Residential community amenity, outdoor	P	P	P	P	P	P	P	P	P	P								A	
Other outdoor entertainment	CA	CA	CA	CA	CA	CA	CA	A	A	A	A	P	P	A		P		P	4-3(D)(32)
Retail Sales																			
Art gallery	CV	CV	C	P	P	P	P	P	P	P	P		P	A					4-3(D)(33)
Farmers' market	T		T	T	T	T	T	P	P	P	P	P	CV	CV		P	A	CA	4-3(D)(36)
General retail, small			A			A	P	P	P	P	P	P	P	P					4-3(D)(37)
Transportation																			
Park-and-ride lot						C	C	C	P	C	C	P	C	C	A	A			4-3(D)(45)
Transit facility						C	C	C	P	P	P	P	P	P					4-3(D)(47)
INDUSTRIAL USES																			
Telecommunications, Towers, and Utilities																			
Drainage facility	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	A	C	
Electric utility	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	A	A	4-3(E)(8)
Geothermal energy generation	A	A	A	A	A	A	A	A	A	A	A	P	P	P		A	A		4-3(E)(9)
Major utility, other	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	A	A	
Solar energy generation	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	4-3(E)(10)
Wireless Telecommunications Facility (WTF)																			
Architecturally integrated	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A			4-3(E)(12)
Non-commercial or broadcasting antenna	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A			
Collocation	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A			

Table 4-2-1: Allowable Uses

P = Permissive Primary C = Conditional Primary A = Permissive Accessory CA = Conditional Accessory
 CV = Conditional if Structure Vacant for 5 years or more T = Temporary Blank Cell = Not Allowed

Zone District >>	Residential				Mixed-use				Non-residential						Use-specific Standards				
	R-A	R-1	R-MC	R-T	R-ML	R-MH	MX-T	MX-L	MX-M	MX-H	NR-C	NR-BP	LM	GM		NR-SU	NR-PO		
																	A	B	C
Public utility collocation	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A			
Roof-mounted			A		A	A	A	A	A	A	A	A	A	A	A				
Small cell	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Waste and Recycling																			
Recycling drop-off bin facility						A	A	A	A	A	P	P	P	P					4-3(E)(13)
ACCESSORY AND TEMPORARY USES																			
ACCESSORY USES																		4-3(F)(1)	
Agriculture sales stand	A	A	A	A	A	A	A	A	A	A	A	CA	CA				A		4-3(F)(2)
Animal keeping	A	A	A	A	A	A	A	A	A	A	A	A	A					CA	4-3(F)(3)
Automated Teller Machine (ATM)			A		A	A	A	A	A	A	A	A	A			T	T		
Dwelling unit, accessory with kitchen		A		A	A	A	A	A		A	A	A	A	A			A		4-3(F)(5)
Dwelling unit, accessory without kitchen	CA	A		A	A	A	A	A		A	A	A	A	A			A		4-3(F)(5)
Family care facility	A	A	A	A	A	A	A	A	A										4-3(F)(6)
Family home day care	CA	CA	CA	CA	A	A													4-3(F)(7)
Garden	A	A	A	A	A	A	A	A	A	A	A	A					A		
Home occupation	A	A	A	A	A	A	A	A	A										4-3(F)(9)
Independent living facility				A	A	A	A	A	A										4-3(F)(10)
Mobile food truck	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A				4-3(F)(11)
Second kitchen in a dwelling	A	A	A	A	A	A	A												4-3(F)(15)
Other use accessory to residential primary use	A	A	A	A	A	A	A	A	A										4-3(F)(17)
TEMPORARY USES																			
Temporary Uses That Require A Permit																			
Construction staging area, trailer, or office	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	4-3(G)(2)
Dwelling, temporary	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	4-3(G)(3)
Fair, festival, or theatrical performance	T	T	T	T	T	T	T	T	T	T	T				T	T	T		4-3(G)(4)
Park-and-ride facility, temporary						T	T	T	T	T	T	T	T	T			T		4-3(G)(6)
Real estate office or model home	T	T	T	T	T	T	T	T	T	T	T	T	T	T					4-3(G)(7)
Temporary Uses That Do Not Require A Permit																			
Garage or yard sale	T	T	T	T	T	T	T												4-3(G)(10)
Hot air balloon takeoff/landing	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	4-3(G)(11)

12. ATTACHMENTS

1. Payment Form
2. Fuel SDS and 40 CFR 1910.305 Standard
3. EPA Emissions Spreadsheet
4. Caterpillar Emissions speed





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	University of New Mexico		
Company Address	1 University of New Mexico Albuquerque, NM 87131		
Facility Name	Zimmerman Library Bldg 53		
Facility Address	800 Yale Blvd NE Albuquerque, NM 87131		
Contact Person	Casey Hall		
Contact Person Phone Number	(505) 277-0305		
Are these application review fees for an existing permitted source located within the City of Albuquerque or Bernalillo County?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
If yes, what is the permit number associated with this modification?	Permit # 3299		
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)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> 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	\$ 610.00	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)			
	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
X	<i>Not Applicable</i>	<i>See Section Above</i>	

Federal Program Review Fees (In addition to the Stationary Source Application Review Fees above)			
	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
X	<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)			
X	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
	<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
	<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)			
X	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
	<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	\$ 0
Section III Total	\$ 0
Section IV Total	\$ 2440
Section V Total	\$ 0
Total Application Review Fee	\$ 2440

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 7th day of June 2022

Teresa Costantinidis
Print Name

Senior Vice President for Finance and Administration
Print Title


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.

SAFETY DATA SHEET

Diesel



Section 1. Identification

Product name : Diesel
Product code : Not available.
Synonyms : Ultra Low Sulfur Diesel, ULSD, Biodiesel, No 1 Diesel, No 2 Diesel, B2, B5, B15, B20

Relevant identified uses of the substance or mixture and uses advised against

Product use : Fuel.
Area of application : Industrial applications.

Manufacturer : HollyFrontier Refining & Marketing LLC
2828 North Harwood
Suite 1300
Dallas, Texas 75201
USA
Customer Service: (888) 286-8836

Emergency telephone number : CHEMTREC® (800) 424-9300
CCN 201319

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : H226 FLAMMABLE LIQUIDS - Category 3
H315 SKIN IRRITATION - Category 2
H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
H304 ASPIRATION HAZARD - Category 1

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H226 - Flammable liquid and vapor.
H315 - Causes skin irritation.
H304 - May be fatal if swallowed and enters airways.
H336 - May cause drowsiness or dizziness.

Precautionary statements

Prevention : Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling.

Response : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention.

Storage : Store in a well-ventilated place. Keep cool.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	Other names	%	CAS number
Distillates (petroleum), hydrotreated light	-	0 - 100	64742-47-8
Kerosine (petroleum), hydrodesulfurized	-	0 - 100	64742-81-0
Fatty acids, C16-18 and C18-unsatd., Me esters	-	0 - 20	67762-38-3
naphthalene	-	1 - 3	91-20-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention. Continue to rinse for at least 15 minutes.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 15 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. Mist/high concentrations: Inhalation may cause irritation to the nose, throat, upper respiratory tract and lungs.
- Skin contact** : Causes skin irritation.
- Ingestion** : Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

Over-exposure signs/symptoms

- Eye contact** : pain or irritation; watering; redness
- Inhalation** : nausea or vomiting; headache; drowsiness/fatigue; dizziness/vertigo; unconsciousness; respiratory tract irritation; coughing
- Skin contact** : irritation; redness
- Ingestion** : nausea or vomiting

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to high concentrations of hydrocarbon solvents.
- Specific treatments** : No specific treatment.
- Protection of medical responders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures**Extinguishing media**

- Suitable extinguishing media** : Use dry chemical, CO₂, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

Specific hazards arising from the chemical : Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures**Personal precautions, protective equipment and emergency procedures**

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, waterways, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container. High pressure skin injections are serious medical emergencies. Injury will not appear serious at first. Within a few hours, tissue will become swollen, discolored and extremely painful.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Distillates (petroleum), hydrotreated light	ACGIH TLV (United States, 3/2017). Absorbed through skin. TWA: 200 mg/m ³ , (as total hydrocarbon vapor) 8 hours.
Kerosine (petroleum), hydrodesulfurized	ACGIH TLV (United States, 3/2017). Absorbed through skin. TWA: 200 mg/m ³ , (as total hydrocarbon vapor) 8 hours.
Fatty acids, C16-18 and C18-unsatd., Me esters naphthalene	None. ACGIH TLV (United States, 3/2017). Absorbed through skin. TWA: 10 ppm 8 hours. TWA: 52 mg/m ³ 8 hours. NIOSH REL (United States, 10/2016). TWA: 10 ppm 10 hours. TWA: 50 mg/m ³ 10 hours. STEL: 15 ppm 15 minutes. STEL: 75 mg/m ³ 15 minutes. OSHA PEL (United States, 6/2016). TWA: 10 ppm 8 hours. TWA: 50 mg/m ³ 8 hours.

- Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
- Individual protection measures**
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

- Physical state** : Liquid.
- Color** : Clear to Straw.
- Odor** : Kerosene.
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point** : Not available.
- Boiling point** : 162.78 to 371.11°C (325 to 700°F)
- Flash point** : >37.8 °C (100 °F)
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not applicable.
- Lower and upper explosive (flammable) limits** : Lower: 0.5%
Upper: 8%
- Vapor pressure** : < 1 mm Hg at 37.8°C (100 F)
- Vapor density** : 3 to 4 [Air = 1]
- Specific gravity** : 0.75 to 0.85 [15.5°C (60°F)]
- Density** : Not available.

Solubility	: Negligible
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: 232.22 to 260°C (450 to 500°F)
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): 0.01 to 0.025 cm ² /s (1 to 2.5 cSt)
Flow time (ISO 2431)	: Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Distillates (petroleum), hydrotreated light	LC50 Inhalation Dusts and mists	Rat	>5.28 mg/l	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Kerosine (petroleum), hydrodesulfurized	LC50 Inhalation Dusts and mists	Rat	>5.28 mg/l	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Kerosine (petroleum), hydrodesulfurized	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-

Carcinogenicity

Product/ingredient name	OSHA	IARC	NTP
naphthalene	-	2B	Reasonably anticipated to be a human carcinogen.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Distillates (petroleum), hydrotreated light	Category 3	Not applicable.	Narcotic effects
Kerosine (petroleum), hydrodesulfurized	Category 3	Not applicable.	Narcotic effects

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Name	Result
Distillates (petroleum), hydrotreated light	ASPIRATION HAZARD - Category 1
Kerosine (petroleum), hydrodesulfurized	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure : Routes of entry anticipated: Oral, Dermal, Inhalation.

Delayed and immediate effects and also chronic effects from short and long term exposure**Short term exposure**

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity**Acute toxicity estimates**

Route	ATE value
Oral	27440 mg/kg

Section 12. Ecological information**Toxicity**

Product/ingredient name	Result	Species	Exposure
Distillates (petroleum), hydrotreated light naphthalene	Acute LC50 2200 µg/l Fresh water	Fish - Lepomis macrochirus	4 days
	Acute EC50 1600 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 2350 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 213 µg/l Fresh water	Fish - Melanotaenia fluviatilis - Larvae	96 hours
	Chronic NOEC 0.5 mg/l Marine water Chronic NOEC 1.5 mg/l Fresh water	Crustaceans - Uca pugnax - Adult Fish - Oreochromis mossambicus	3 weeks 60 days

Conclusion/Summary : Toxic to aquatic life with long lasting effects.

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Distillates (petroleum), hydrotreated light	-	-	Inherent
Fatty acids, C16-18 and C18-unsatd., Me esters	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Distillates (petroleum), hydrotreated light	>4	-	high
Fatty acids, C16-18 and C18-unsatd., Me esters	>6.2	3	low
naphthalene	3.4	36.5 to 168	low

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.






Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS #	Status	Reference number
Naphthalene	91-20-3	Listed	U165

Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	NA1993	UN1202	UN1202
UN proper shipping name	Diesel fuel	DIESEL FUEL	Diesel fuel
Transport hazard class(es)	3  	3  	3 
Packing group	III	III	III
Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Additional information

- DOT Classification** : This product may be re-classified as "Combustible Liquid," unless transported by vessel or aircraft. Non-bulk packages (less than or equal to 119 gal) of combustible liquids, that are marine pollutants, are not regulated as hazardous materials in package sizes less than the product reportable quantity, unless transported by vessel. This product is not regulated as a marine pollutant when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes, provided the packagings meet the general provisions of §§ 173.24 and 173.24a. **Reportable quantity** 5000 lbs / 2270 kg [749.59 gal / 2837.5 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements. **Limited quantity** Yes. **Packaging instruction** Exceptions: 150. Non-bulk: 203. Bulk: 242. **Quantity limitation** Passenger aircraft/rail: 60 L. Cargo aircraft: 220 L. **Special provisions** 144, B1, IB3, T4, TP1, TP29
- IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. **Emergency schedules** F-E, S-E
- IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations. **Quantity limitation** Passenger and Cargo Aircraft: 60 L. Packaging instructions: 355. Cargo Aircraft Only: 220 L. Packaging instructions: 366. Limited Quantities - Passenger Aircraft: 10 L. Packaging instructions: Y344. **Special provisions** A3
- Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

- U.S. Federal regulations** : **TSCA 8(a) PAIR:** naphthalene
United States inventory (TSCA 8b): All components are listed or exempted.
Clean Water Act (CWA) 307: naphthalene
Clean Water Act (CWA) 311: naphthalene

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : FLAMMABLE LIQUIDS - Category 3
 SKIN IRRITATION - Category 2
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
 ASPIRATION HAZARD - Category 1

Composition/information on ingredients

Name	%	Classification
Distillates (petroleum), hydrotreated light	0 - 100	FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1
Kerosine (petroleum), hydrodesulfurized	0 - 100	HNOC - Static-accumulating flammable liquid FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1

naphthalene	1 - 3	HNOC - Static-accumulating flammable liquid FLAMMABLE SOLIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, kidneys, liver) - Category 2
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SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	naphthalene	91-20-3	1 - 3
Supplier notification	naphthalene	91-20-3	1 - 3

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

- Massachusetts** : The following components are listed: NAPHTHALENE
New York : The following components are listed: Naphthalene
New Jersey : The following components are listed: NAPHTHALENE; MOTH FLAKES
Pennsylvania : The following components are listed: NAPHTHALENE

California Prop. 65

⚠ WARNING: This product can expose you to Naphthalene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
Naphthalene	Yes.	-

International regulations**Chemical Weapon Convention List Schedules I, II & III Chemicals**

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Ingredient name	List name	Status
PAHs	POPs - Annex 3	Listed

Section 16. Other information**National Fire Protection Association (U.S.A.)**

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

Classification	Justification
Flam. Liq. 3, H226 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304	On basis of test data Calculation method Calculation method Calculation method

Date of issue/Date of revision : 11/08/2017

Date of previous issue : 03/18/2014

Version : 2

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
UN = United Nations

▣ Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named manufacturer, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

§ 1090.305

with subpart N of this part before custody or title to each new batch of diesel fuel is transferred.

(f) No fuel or fuel additive manufacturer may introduce into commerce diesel fuel or diesel fuel additives that are not “substantially similar” under 42 U.S.C. 7545(f)(1) or permitted under a waiver granted under 42 U.S.C. 7545(f)(4).

(g) Distillate global marine fuel that does not qualify for an exemption under §1090.650 is subject to the standards, requirements, and prohibitions that apply for ULSD under this part.

(h) No person may introduce used motor oil, or used motor oil blended with diesel fuel, into the fuel system of model year 2007 or later diesel motor vehicles or engines or model year 2011 or later nonroad diesel vehicles or engines (not including locomotive or marine diesel engines).

§ 1090.305 ULSD standards.

(a) *Overview.* Except as specified in §1090.300(a), diesel fuel must meet the ULSD per-gallon standards of this section.

(b) *Sulfur standard.* Maximum sulfur content of 15 ppm.

(c) *Cetane index or aromatic content.* Diesel fuel must meet one of the following standards:

(1) Minimum cetane index of 40.

(2) Maximum aromatic content of 35 volume percent.

§ 1090.310 Diesel fuel additives standards.

(a) Except as specified in paragraph (b) and (c) of this section, diesel fuel additives blended into diesel fuel that is subject to the standards in §1090.305 must have a sulfur concentration less than or equal to 15 ppm on a per-gallon basis.

(b) Diesel fuel additives do not have to comply with paragraph (a) of this section if all the following conditions are met:

(1) The additive is added to diesel fuel in a quantity less than 1.0 volume percent of the resultant mixture of additive and diesel fuel.

(2) The PTD for the diesel fuel additive complies with the requirements in §1090.1120(b).

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(3) The additive is not commercially available as a retail product for ultimate consumers.

(c) The provisions of this section do not apply to additives used with 500 ppm LM diesel fuel or ECA marine fuel.

§ 1090.315 Heating oil, kerosene, ECA marine fuel, and jet fuel provisions.

Heating oil, kerosene, ECA marine fuel, and jet fuel must not be sold for use in motor vehicles or nonroad equipment and are not subject to the ULSD standards in §1090.305 unless also designated as ULSD under §1090.1015(a).

§ 1090.320 500 ppm LM diesel fuel standards.

(a) *Overview.* 500 ppm LM diesel fuel produced or distributed by a transmix processor or pipeline operator under §1090.515 must meet the per-gallon standards of this section.

(b) *Sulfur standard.* Maximum sulfur content of 500 ppm.

(c) *Cetane index or aromatic content.* The standard for cetane index or aromatic content in §1090.305(c).

§ 1090.325 ECA marine fuel standards.

(a) *Overview.* Except as specified in paragraph (c) of this section, ECA marine fuel must meet the per-gallon standards of this section.

(b) *Sulfur standard.* Maximum sulfur content of 1,000 ppm.

(c) *Exceptions.* The standards in paragraph (b) of this section do not apply to the following:

(1) Residual fuel made available for use in a steamship or C3 marine vessel if the U.S. government exempts or excludes the vessel from MARPOL Annex VI fuel standards. Diesel fuel and other distillate fuel used in diesel engines operated on such vessels is subject to the standards in this section instead of the standards in §1090.305 or §1090.320.

(2) Distillate global marine fuel that is exempt under §1090.650.

Subpart E [Reserved]

Engine Emissions Data

For Emissions / Certification feedback and questions, please submit a ticket via our ERC [Request Portal](#)

This emission data is Caterpillar's best estimate for this rating. If actual emissions are required then an emission test needs to be run on your engine.

Serial Number (Machine)	
Serial Number (Engine)	E5G00337
Sales Model	C4.4
Regulatory Build Date	06-JUL-2016
Engine ReRated	
Engine Arrangement Number	4859942
Certification Arrangement	
Test Spec Number	
Regulatory Status	CAT_Const_EPA Emergency Stationary_China Export
Labeled Model Year	2016
EPA Family Code	GPKXL04.4NR1
CORR FL Power at RPM	
Advertised Power	
Total Displacement	4.40 L

Disclaimer: The information provided has been compiled from third party sources and is accurate to the best of Caterpillar's knowledge. However, Caterpillar cannot guarantee the accuracy, completeness, or validity of the information and is not liable for any errors or omissions contained therein. All information provided should be independently verified and confirmed, including by examining the emissions label located on the engine.

[Need emission replacement label? Click here!](#)

Caterpillar Confidential: **Green**

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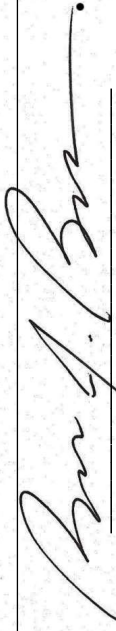


UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
2016 MODEL YEAR
CERTIFICATE OF CONFORMITY
WITH THE CLEAN AIR ACT

OFFICE OF TRANSPORTATION
AND AIR QUALITY
ANN ARBOR, MICHIGAN 48105

Certificate Issued To: Perkins Engines Co Ltd
(U.S. Manufacturer or Importer)
Certificate Number: GPKXL04.4NR1-002

Effective Date:
07/24/2015
Expiration Date:
12/31/2016


Byron J. Bunker, Division Director
Compliance Division

Issue Date:
07/24/2015
Revision Date:
N/A

Model Year: 2016
Manufacturer Type: Original Engine Manufacturer
Engine Family: GPKXL04.4NR1

Mobile/Stationary Indicator: Stationary
Emissions Power Category: 75<=kW<130
Fuel Type: Diesel, Non-Standard Fuel
After Treatment Devices: No After Treatment Devices Installed
Non-after Treatment Devices: Electronic Control, Engine Design Modification

Pursuant to Section 111 and Section 213 of the Clean Air Act (42 U.S.C. sections 7411 and 7547) and 40 CFR Part 60, and subject to the terms and conditions prescribed in those provisions, this certificate of conformity is hereby issued with respect to the test engines which have been found to conform to applicable requirements and which represent the following engines, by engine family, more fully described in the documentation required by 40 CFR Part 60 and produced in the stated model year.

This certificate of conformity covers only those new compression-ignition engines which conform in all material respects to the design specifications that applied to those engines described in the documentation required by 40 CFR Part 60 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Part 60.

It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR 1068 and authorized in a warrant or court order. Failure to comply with the requirements of such a warrant or court order may lead to revocation or suspension of this certificate for reasons specified in 40 CFR Part 60. It is also a term of this certificate that this certificate may be revoked or suspended or rendered void *ab initio* for other reasons specified in 40 CFR Part 60.

This certificate does not cover engines sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.

Certification Data

Model Year	Engine Family	Manufacturer	Certificate #	NMHC	NOx	NMHC+NOx	CO	PM	CO2	N2O	CH4
2016	GPXXL04.4NR1	PERKINS (PKX)	GPXXL04.4NR1-002	0.12	3.8	3.7	3.8	1.3	0.15	773.41	

C4.4

80 ekW/ 100 kVA/ 60 Hz/ 1800 rpm/ 208V/ 0.8 Power Factor

Rating Type: STANDBY

**Emissions: U.S. EPA Certified for Stationary Emergency Application
(Tier 3 Nonroad Equivalent Emission Standards)**



Image shown may not reflect actual configuration

**D80-8
80 ekW/ 100 kVA
60Hz/ 1800 rpm/ 208V**

Package Performance

Generator Set Power Rating with Fan @ 0.8 Power Factor	80 ekW
Generator Set Power Rating	100 kVA

Fuel Consumption

100% Load With Fan	23.7 L/hr	6.3 gal/hr
75% Load With Fan	19.0 L/hr	5.0 gal/hr
50% Load With Fan	13.9 L/hr	3.7 gal/hr

Cooling System¹

Engine Coolant Capacity	7.0 L	1.8 gal
Radiator Coolant Capacity	10.0 L	2.6 gal
Engine Coolant Capacity with Radiator/Exp Tank	17.0 L	4.5 gal
Air Flow Restriction (System)	0.12 kPa	0.48 in. water

Inlet Air

Combustion Air Inlet Flow Rate	7.8 m ³ /min	275 cfm
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Exhaust System

Exhaust Stack Gas Temperature	630°C	1166°F
Exhaust Gas Flow Rate	17.6 m ³ /min	620 cfm
Exhaust System Backpressure (maximum allowable)	15.0 kPa	60.2 in. water
Exhaust Flange Size (internal diameter)	64 mm	2.5 in






053-EG-1 Modification

Final Audit Report

2022-06-07

Created:	2022-06-07
By:	Casey B Hall (cbhall4@unm.edu)
Status:	Signed
Transaction ID:	CBJCHBCAABAATKXuvYWTkaUC7ouXGrYnfADae6kUFz_x

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-  Document created by Casey B Hall (cbhall4@unm.edu)
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2022-06-07 - 9:25:15 PM GMT
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