



ENVIRONMENTAL HEALTH & SAFETY

Application for Emergency Generator at 1700 Lomas Blvd NE



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1. INTRODUCTION

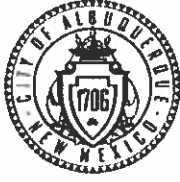
The following is the University of New Mexico's application for an Air Quality Permit for an Emergency Generator at Building 183. The unit is a natural gas fired emergency generator that provides emergency power during utility outages to the John and June Perovich Business Center on UNM Campus. This application is for a permit to place a 225 hp emergency generator. The included application contains the all required information including emissions data.

Manufacturer	Model #	Serial #	Date of Manufacture	Date of Installation	Process Rate
PSI	8.1LT	08970	2004	TBD	225HP



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: 10/12/2023	<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 – If checked, applicant is required to provide a waiver from the Department for that specific element*
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





Pre-Permit Application Meeting Request Form

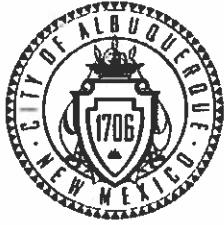
Air Quality Program- Environmental Health Department

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

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

Name:	Casey Hall
Company/Organization:	UNM
Point of Contact: (phone number and email): Preferred form of contact (circle one): Phone E-mail	Phone: 315 885 8683 Email: cbhall4@unm.edu
Preferred meeting date/times:	Tuesday or Thursday After 1 PM
Description of Project:	Placement of a new (repurposed old) gas powered emergency generator at building 183.

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



City of Albuquerque

Environmental Health Department

Air Quality Program



Pre-Permit Application Meeting Checklist

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

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

Name: Casey Hall
Contact: cbhall4@unm.edu
Company/Business: UNM

Fill out and submit a Pre-Permit Application Meeting Request form
⇒ Available online at <http://www.cabq.gov/airquality>

Emission Factors and Control Efficiencies
Notes:

AP-42 or EPA values?

40 CFR 63 Subpart ZZZZ does not apply

Air Dispersion modeling guidelines and protocol
Notes:

Emergency Gen - Exempt

Department Policies
Notes:

On or after 6 requires compliance history form.
Zoning letters

Air quality permit fees

Ver. 11/13

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

Notes:

Public notice requirements

- Replacement Part 41 Implementation
 - 20.11.41.13 B. Applicant's public notice requirements
 - Providing public notice to neighborhood association/coalitions
 - Neighborhood association: _____
 - Coalition: _____

Notes: Received list

- Posting and maintaining a weather-proof sign

Notes:

Have signs

Regulatory timelines

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

Notes:

No questions here.



4. PUBLIC NOTICE REQUIREMENTS



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	John and June Perovich Business Center
Site or Facility Address	1700 Lomas Blvd. NE
New or Existing Source	NEW
Anticipated Date of Application Submittal	November 3, 2023
Summary of Proposed Source to Be Permitted	The application is to construct a 225 horsepower natural gas fired internal combustion engine coupled to a 150 kW emergency electrical generator. The application seeks to restrict the unit to 200 hours per year of operation. The purpose of the unit is to provide emergency backup electrical power in the case of the unavoidable loss of commercial power.

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, Albuquerque, NM 87131

Contact for comments and inquires:

Datos actuales para comentarios y preguntas:

Name (Nombre): Casey Hall

Address (Domicilio): 1801 Tucker Ave NE

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: November 3, 2023

Description of the source:

Descripción de la fuente: 225 Horsepower Natural Gas Fired Emergency Generator

Exact location of the source or proposed source:

Ubicación exacta de la fuente o fuente propuesta:

1700 Lomas Blvd NE Albuquerque, NM 87131

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:

Placement of an emergency generator

Maximum operating schedule:

Horario máximo de operaciones:

200 hours per year for emergency power loss

Normal operating schedule:

Horario normal de operaciones:

1/2 hour every month for maintenance

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

Air Contaminant <i>Contaminante de aire</i>	Proposed Construction Permit <i>Permiso de Construcción Propuesto</i>		Net Changes (for permit modification or technical revision) <i>Cambio Neto de Emisiones (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>
NO_x	3.87	0.39		
CO	6.34	0.63		
VOC	0.61	0.06		
SO₂	0.001	0.0001		
PM₁₀	0.016	0.002		
PM_{2.5}	0.016	0.0020		
HAP	0.05	0.005		

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

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

Air Quality Construction Permitting Overview

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

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

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

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

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

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

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

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

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

Air Quality Construction Permitting Overview

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

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

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

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

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

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

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

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



Timothy M. Keller,
Mayor

Public Participation

List of Neighborhood Associations and Neighborhood Coalitions MEMORANDUM

To: Casey Hall
From: Angela Lopez, Environmental Health-Air Quality Permitting Manager
Subject: Determination of Neighborhood Associations and Coalitions
within 0.5 mile of 1700 Lomas Blvd. N.E. Bernalillo County, NM.
Date: October 31, 2023

DETERMINATION:

On October 31, 2023, 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 1700 Lomas Blvd. N.E. in Bernalillo County, NM.

I then used the City of Albuquerque Office (COA) of Neighborhood Coordination's Monthly Master NA List dated October 2023 and the Bernalillo County (BC) Monthly Neighborhood Association October 2023 Excel file to determine the contact information for each NA and NC located within 0.5 mile of 1700 Lomas Blvd. N.E. 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 NA	Kenny Stansbury Calvin Martin	kenny.stansbury@gmail.com calmartin93@gmail.com campus.neighborhood.assoc@gmail.com
D6C	Mandy Warr	mandy@theremedyspa.com
North Campus	Tim Davis Sara Koplik	tdavisnm@gmail.com sarakoplik@hotmail.com northcampusna@gmail.com
Spruce Park NA	Heidi Brown Peter Swift	emailbrowns@aol.com pnsswift@comcast.net



Timothy M. Keller,
Mayor

Public Participation

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

Sycamore NA	Richard Vigliano Mardon Gardella	richard@vigliano.net mg411@q.com
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**If email address is not listed, provide public notice via certified mail and include a copy of each mail receipt with the application submittal.*



Tue 10/31/2023 3:36 PM

Casey Hall

Public Notice of Proposed Air Quality Construction Permit Application

To Casey Hall

BCC 'Fenny.stansbury@gmail.com'; 'linalai193@gmail.com'; 'campusneighborhoodassoc@gmail.com'; 'marijvelter@med.emory.com'; 'td.west@unm.edu'; 'sal.alipala@hotmail.com'; 'northcampus@aigmail.com'; 'email@owais@aol.com'; 'pmswit@contkati.net'; 'richard@vignano.net'; 'mgs11@aol.com'



Notice of Intent.pdf
202 KB



Applicant Public Notice Cover Letter.pdf
111 KB

Dear Neighborhood Association/Coalition Representative(s),

Please see the attached documents detailing UNM's application for an emergency generator at 1700 Lomas Blvd NE.

Best Regards,

Casey Hall (He/Him) | Director, Environmental Health and Safety
The University of New Mexico
505.277.2753 | 315.885.8683 | cbhall4@unm.edu





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: cbhall4@unm.edu
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:



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: (505) 277-0305	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: JOHN AND JUNE PEROVICH BUSINESS CENTER			
Facility Physical Address: 1700 LOMAS BLVD. N.E.	City: Albuquerque	State: NM	Zip: 87131
Facility Mailing Address (if different):	City:	State:	Zip:
Facility Contact: Casey Hall	Title: Director, EHS		
Phone: (505) 277-0305	E-mail: cbhall4@unm.edu		
Authorized Representative Name ¹ :	Authorized Representative Title:		

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.

NOV 9 '23 PM 3:42

**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 checked="" type="checkbox"/> New Permit	<input type="checkbox"/> Permit Modification Current Permit #:	<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): Zone 13 351904 Easting 3884122 Northing				
Facility type (i.e., 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? No		If YES , list date of original construction: If NO , list date of planned startup: March 2024		
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 (e.g., altering process, or adding, or replacing process or control equipment, etc.) to an existing facility? No				
Provide a description of the requested changes: UNM plans to add an emergency generator to the facility to provide back-up power in the event of utility power loss.				
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:	1 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: Natural Gas				
List saleable item(s) produced:				

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)**

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.

- 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.
- 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.
- 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)**

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
	None								

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.). _____
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)**

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		Formaldehyde		Acetaldehyde		Acrolein		Methanol		N-Hexane		Benzene		Toluene	
	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	N/A	N/A	N/A	N/A	N/A
1	0.123	0.012														
Totals of HAPs for all units:	0.123	0.012														

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
					lb/yr	(-)	lb/yr	(=)	lb/yr
Example 1. Surface Coatings	Xylene	1330207	4.0 lbs/gal	SDS	100 gal/yr	(-)	0 gal/yr	(=)	100 gal/yr
					lb/yr		lb/yr		lb/yr
Example 2. Cleaning Solvents	Toluene	108883	70%	Product Label	200 gal/yr	(-)	50 gal/yr	(=)	150 gal/yr
					lb/yr		lb/yr		lb/yr
1.					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

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,PM10& 2.5, SO2, VOC, HAPS	351904	3884122	6	1215	22.3 fps	1050	0.5	Rain Cap
										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 3rd day of November, 2023

Teresa Costantinidis
Print Name

Executive Vice President for Finance and Administration
Print Title


Signature

Role: Owner Operator
 Other Authorized Representative

6. EMISSIONS INFORMATION

Emissions are based on emission factors from AP-42 Section 3.2. The information used is available here: <https://www.epa.gov/sites/default/files/2020-10/documents/c03s02.pdf>. The controlled emissions are summarized in the table below. The unit uses rich burn combustion, see email in appendix from manufacturer. The table from AP-42 is included in the appendix.

Please see the tables below for emissions information.

Uncontrolled Emissions						
Pollutant	Emission Factor (lb/MMBtu)	MMBTU/HR	lb/Hr	Potential Op hrs/yr	lb/ton	tons/yr
CO	3.72	1.705	6.34E+00	8760	2000	2.78E+01
Nox	2.27	1.705	3.87E+00	8760	2000	1.70E+01
VOC	0.358	1.705	6.10E-01	8760	2000	2.67E+00
SOx	5.88E-04	1.705	1.00E-03	8760	2000	4.39E-03
PM 10	9.50E-03	1.705	1.62E-02	8760	2000	7.09E-02
PM 2.5	9.50E-03	1.705	1.62E-02	8760	2000	7.09E-02
HAPS	3.24E-02	1.705	5.52E-02	8760	2000	2.42E-01

Controlled Emissions					
Pollutant	Emissions lb/hr	hr/yr requested	lb/yr	lb/ton	Tons/yr
CO	6.34E+00	200	1.27E+03	2000	6.34E-01
Nox	3.87E+00	200	7.74E+02	2000	3.87E-01
VOC	6.10E-01	200	1.22E+02	2000	6.10E-02
SOx	1.00E-03	200	2.01E-01	2000	1.00E-04
PM 10	1.62E-02	200	3.24E+00	2000	1.62E-03
PM 2.5	1.62E-02	200	3.24E+00	2000	1.62E-03
HAPS	5.52E-02	200	1.10E+01	2000	5.52E-03



6.1. Example Calculations

Emission factors for AP-42 Section 3.2 are given in lbs/MMBTU. In order to calculate lb/hr from lb/MMBTU an equation in Section 3.2 is shown below. The MMBTU/hr value comes from the manufacturer spec sheet, shown in the appendix. The emissions rate value for HAPS is taken as a sum of the HAPS in AP-42 Table 3.2-3. See appendix for a list of HAPS.

CO

$$\frac{3.72 \text{ lb CO}}{\text{MMBTU}} \times \frac{1.705 \text{ MMBTU}}{\text{HR}} = 6.34 \frac{\text{lb}}{\text{hr}} \text{ CO emissions}$$

$$6.34 \frac{\text{lb}}{\text{hr}} \times 8760 \frac{\text{hr}}{\text{yr}} \times 2000 \frac{\text{lb}}{\text{ton}} = 27.8 \frac{\text{tons}}{\text{yr}} \text{ Uncontrolled CO Emissions}$$

$$6.34 \frac{\text{lb}}{\text{hr}} \times 200 \frac{\text{hr}}{\text{yr}} \times 2000 \frac{\text{lb}}{\text{ton}} = 0.634 \frac{\text{tons}}{\text{yr}} \text{ Controlled CO Emissions}$$

NO_x

$$\frac{2.27 \text{ lb NO}_x}{\text{MMBTU}} \times \frac{1.705 \text{ MMBTU}}{\text{HR}} = 3.87 \frac{\text{lb}}{\text{hr}} \text{ NO}_x \text{ emissions}$$

$$3.87 \frac{\text{lb}}{\text{hr}} \times 8760 \frac{\text{hr}}{\text{yr}} \times 2000 \frac{\text{lb}}{\text{ton}} = 17.0 \frac{\text{tons}}{\text{yr}} \text{ Uncontrolled NO}_x \text{ Emissions}$$

$$3.87 \frac{\text{lb}}{\text{hr}} \times 200 \frac{\text{hr}}{\text{yr}} \times 2000 \frac{\text{lb}}{\text{ton}} = 0.387 \frac{\text{tons}}{\text{yr}} \text{ Controlled NO}_x \text{ Emissions}$$

VOC

$$\frac{0.358 \text{ lb VOC}}{\text{MMBTU}} \times \frac{1.705 \text{ MMBTU}}{\text{HR}} = 0.61 \frac{\text{lb}}{\text{hr}} \text{ VOC emissions}$$

$$0.61 \frac{\text{lb}}{\text{hr}} \times 8760 \frac{\text{hr}}{\text{yr}} \times 2000 \frac{\text{lb}}{\text{ton}} = 2.67 \frac{\text{tons}}{\text{yr}} \text{ Uncontrolled VOC Emissions}$$

$$0.61 \frac{\text{lb}}{\text{hr}} \times 200 \frac{\text{hr}}{\text{yr}} \times 2000 \frac{\text{lb}}{\text{ton}} = 0.061 \frac{\text{tons}}{\text{yr}} \text{ Controlled VOC Emissions}$$

PM 10 & 2.5

$$\frac{9.5 \times 10^{-3} \text{ lb PM}}{\text{MMBTU}} \times \frac{1.705 \text{ MMBTU}}{\text{HR}} = 1.62 \times 10^{-2} \frac{\text{lb}}{\text{hr}} \text{ PM emissions}$$

$$1.62 \times 10^{-2} \frac{\text{lb}}{\text{hr}} \times 8760 \frac{\text{hr}}{\text{yr}} \times 2000 \frac{\text{lb}}{\text{ton}} = 0.071 \frac{\text{tons}}{\text{yr}} \text{ Uncontrolled PM Emissions}$$

$$1.62 \times 10^{-2} \frac{\text{lb}}{\text{hr}} \times 200 \frac{\text{hr}}{\text{yr}} \times 2000 \frac{\text{lb}}{\text{ton}} = 1.62 \times 10^{-3} \frac{\text{tons}}{\text{yr}} \text{ Controlled PM Emissions}$$

HAPS

$$\frac{3.24 \times 10^{-2} \text{ lb PM}}{\text{MMBTU}} \times \frac{1.705 \text{ MMBTU}}{\text{HR}} = 5.52 \times 10^{-2} \frac{\text{lb}}{\text{hr}} \text{ HAP emissions}$$

$$5.52 \times 10^{-2} \frac{\text{lb}}{\text{hr}} \times 8760 \frac{\text{hr}}{\text{yr}} \times 2000 \frac{\text{lb}}{\text{ton}} = 0.242 \frac{\text{tons}}{\text{yr}} \text{ Uncontrolled HAP Emissions}$$

$$5.52 \times 10^{-2} \frac{\text{lb}}{\text{hr}} \times 200 \frac{\text{hr}}{\text{yr}} \times 2000 \frac{\text{lb}}{\text{ton}} = 5.52 \times 10^{-3} \frac{\text{tons}}{\text{yr}} \text{ Controlled HAP Emissions}$$

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

This unit will use pipeline natural gas supplied by NM Gas Company. A data sheet of gas composition is included in the appendix.

6.4. Stack Exhaust

The stack for the generator is located directly above the enclosure. The release height is 6 ft above grade, has a 1215°F exit temp, and flow rate of 22.3 fps and is 6 inches in diameter. The stack follow volume is 1050 cfm.



7. OPERATIONS AND MAINTENANCE STRATEGY

The emergency generator located at the John and June Perovich Business Center 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 internal combustion 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.

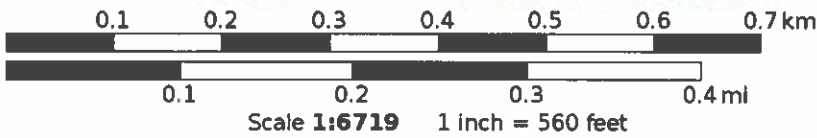


8. MAPS AND AERIAL IMAGERY





Mercator Projection
 WGS84
 UTM Zone 13S

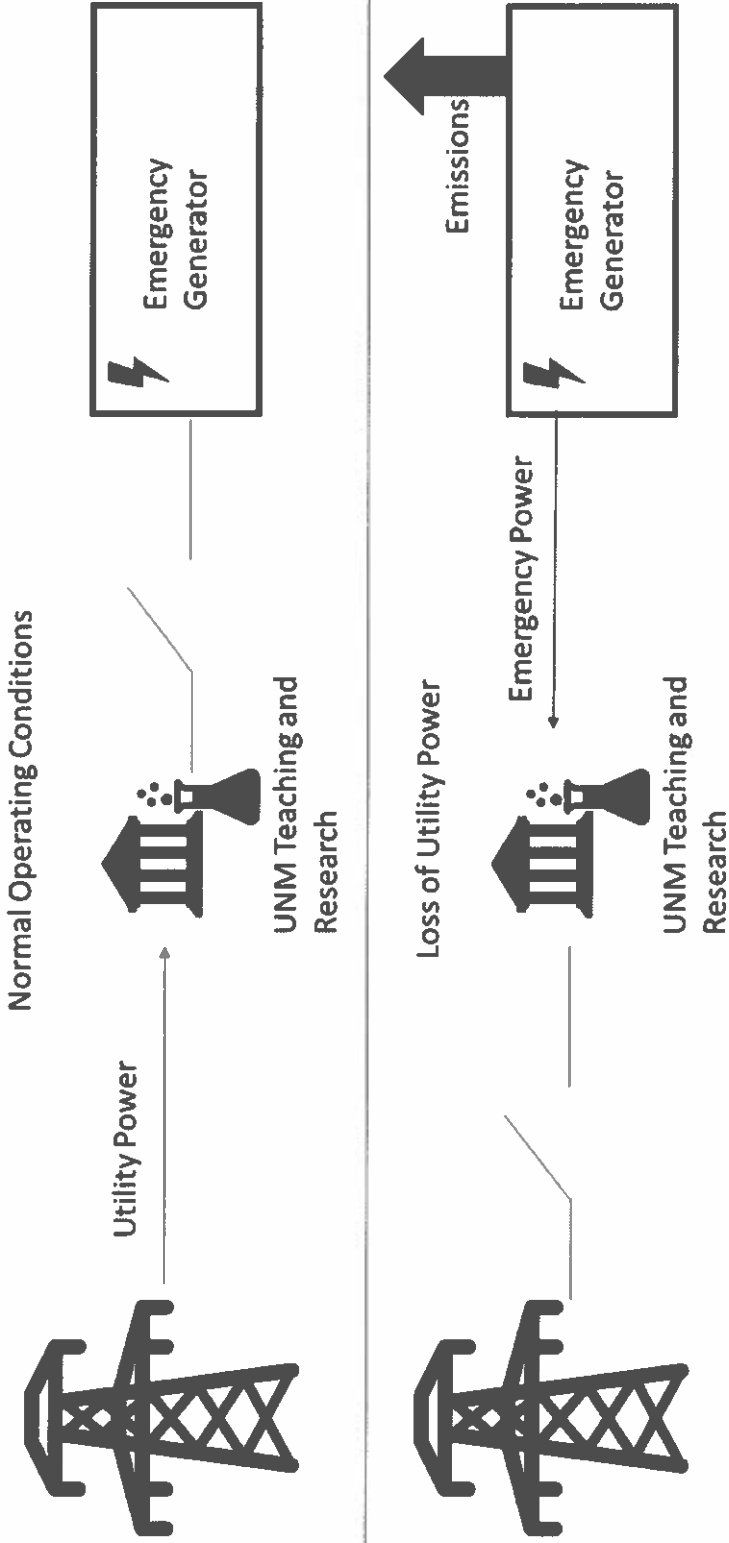



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9. PROCESS FLOW DIAGRAM

Zimmerman Emergency Generator Process Flow Diagram



10. OPERATIONAL SCHEDULE

The emission Unit 183-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: John and June Perovich Business Center			
Facility Physical Address: 1700 Lomas Blvd NE	City: Albuquerque	State: NM	Zip: 87131
Facility Legal Description: Higher Education			

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 #:

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.

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

415 Silver Ave. SW, 2nd Floor
Albuquerque, New Mexico 87102
Office: (505) 314-0350
Fax: (505) 314-0480
www.berncogov



June 6, 2023

REGENTS OF UNM REAL ESTATE DEPARTMENT
MSC06 3595 1 UNIVERSITY OF NEW MEXICO
ALBUQUERQUE NM, 87131

Re: 2400 Roma AVE NE the "property" – ZNP2023-0039

To Whom It May Concern:

This letter shall certify that according to the official map on file with this office as of this date, the referenced property, legally described as LOT B, BLOCK B, UNM CENTRL CAMPUS, Albuquerque, Bernalillo County, New Mexico, is within the boundaries of and owned by the University of New Mexico.

The property is not subject to the zoning requirements of Bernalillo County.

This certification statement only references the applicability of the Zoning Ordinance as it applies to the aforementioned property in the specified zone. This letter is not a business license and cannot be construed as approval for construction.

Do not hesitate to contact me if you have questions concerning this matter at 314-0499 or at mgould@berncogov.

Sincerely,

A handwritten signature in black ink, appearing to read "Maggie Gould", is written over a white background.

Maggie Gould
Acting Zoning Administrator

Enclosures:

Cc: cbhall4@unm.edu

County Commissioners

Barbara Baca, Chair, District 1 • Adriann Barboa, Vice-Chair, District 3
Steven Michael Quezada, District 2 • Walt Benson, District 4 • Eric C. Olivas, District 5

Elected Officials

Damian R. Lara, Assessor • Linda Stover, Clerk • Cristy J. Carbón-Gaul, Probate Judge
John D. Allen, Sheriff • Nancy M. Bearce, Treasurer

County Manager

Julie Morgas Baca

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: June 13, 2023

VIA cbhall4@unm.edu
University of New Mexico
ATTN: Casey Hall
MSC07 4100 | University of New Mexico
Albuquerque NM, 87131

RE: UPC: 101505747547313402 - the "property."

To Whom It May Concern:

This letter will certify that according to the map on file in this office on June 13, 2023, the referenced property, legally described as * 013 00AAS PER PLAT C 12 1452 U N M CAMPUS 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 for a University or College a Legally Nonconforming use in this zone.

Albuquerque This property has been inspected and it was found to be in compliance with the applicable provisions of the Integrated Development Ordinance. There is no overlay or special exceptions associated with this property. The property is not governed by an on-file Site Development Plan.

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

Part 14-16-4: Use Regulations
4-2: Allowable Uses

4-2 ALLOWABLE USES

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 T = Temporary CT = Conditional 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		NR-LM	NR-GM	NR-SU	A	B	NR-PO	C
PRIMARY USES THAT MAY BE ACCESSORY IN SOME ZONE DISTRICTS																				
RESIDENTIAL USES																				
Household Living																				
Dwelling, single-family detached	P	P	P	P	P		P													4-3(B)(1)
Dwelling, mobile home			P																	4-3(B)(2)
Dwelling, cluster development	P	P		P	P		P													4-3(B)(3)
Dwelling, cottage development	P	P	P	P	P		P													4-3(B)(4)
Dwelling, two-family detached (duplex)		P		P	P		P													4-3(B)(5)
Dwelling, townhouse				P	P	P	P	P	P											4-3(B)(6)
Dwelling, live-work				C	C	P	P	P	P	P	CA	CA								4-3(B)(7)
Dwelling, multi-family					P	P	P	P	P											4-3(B)(8)
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)(9)
Community residential facility, large					P	P	P	P	P											4-3(B)(9)
Dormitory						P	C	P	P	P										
Group home, small					C	P	P	P	P											4-3(B)(10)
Group home, medium					C	C	C	P	P	P										4-3(B)(10)
Group home, large						C				C	C									4-3(B)(10)
CIVIC AND INSTITUTIONAL USES																				
Adult or child day care facility			C	C	C	P	P	P	P	P	P	A	A							
BioPark																	P (in D)			4-3(C)(7)
Cemetery														P						
Community center or library	C	P		P	P	P	P	P	P	C	C	C	C		P			C		4-3(C)(1)
Correctional facility														P						
Elementary or middle school	C	C		C	P	P	P	P	P	P	P	CV			P			C		4-3(C)(2)
Fire or police station														P						
High school	C	C		C	C	P	P	P	P	P	P	C			P					4-3(C)(3)
Hospital								P	P	P	P									4-3(C)(4)
Museum				CV	CV	C		P	P	P	P	P	P		P	A				4-3(C)(5)
Overnight shelter								C	C	C	C	C								4-3(C)(6)
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)
Sports field							CV	C	P	P	P	P	C		P			C		

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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		NR-LM	NR-GM	NR-SU	A	B	NR-PD
University or college						CV	CV	C	P	P	P	P	P	CV	CV				
Vocational school						CV	P	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	C	C			A	A	A	4-3(D)(1)
Equestrian facility	P																P	C	4-3(D)(2)
General agriculture	P											C	P	P			P	A	4-3(D)(3)
Kennel	C							C	C		P	P	P	P					4-3(D)(4)
Nursery	P								A		P	P	P	P		A	A		
Veterinary hospital	C						C	P	P	P	P	P	P	P					4-3(D)(5)
Other pet services	C						C	P	P	P	P	P	P	P					
Food, Beverage, and Indoor Entertainment																			
Adult entertainment													P	P	P				4-3(D)(6)
Auditorium or theater						A	A	A	P	P	P	P	P	P					4-3(D)(7)
Bar							C	C	P	P	P	P	P	P					4-3(D)(8)
Catering service									P	P	P	P	P	P					
Health club or gym			A		A	A	P	P	P	P	P	P	P	A					4-3(D)(9)
Mobile food truck court							C	P	P	P	P	P	P	C					4-3(D)(10)
Nightclub									P	P	P	P	P						4-3(D)(8)
Residential community amenity, indoor	P	P	P	P	P	P	P	P	P	P								C	4-3(D)(11)
Restaurant							C	P	P	P	P	P	P	P					4-3(D)(8)
Tap room or tasting room							C	C	P	P	P	P	P	P					4-3(D)(8)
Other indoor entertainment							C	P	P	P	P	P	P	P		P		C	4-3(D)(12)
Lodging																			
Bed and breakfast	A	CA			A	A	P	P											4-3(D)(13)
Campground or recreational vehicle park										C		P	P				A	C	4-3(D)(14)
Hotel or motel							P	P	P	P	P	P	P	P					4-3(D)(15)
Motor Vehicle-related																			
Car wash								P	P	P	P	P	P	P					4-3(D)(16)
Heavy vehicle and equipment sales, rental, fueling, and repair											P	C	P	P					4-3(D)(17)
Light vehicle fueling station								C	P	P	P	P	P	P					4-3(D)(18)
Light vehicle repair								P	P	P	P	P	P	P					4-3(D)(19)
Light vehicle sales and rental								C	P	P	P	P	P	P					4-3(D)(20)
Outdoor vehicle storage											C	C	P	P			A		4-3(D)(21)
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)
Offices and Services																			
Bank							P	P	P	P	P	P	P	CV					4-3(D)(23)

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Land Uses	Zone District >>												Use-specific Standards						
	Residential					Mixed-use				Non-residential									
	P-A	R-1	R-MC	R-T	R-ML	R-MH	MX-T	MX-L	MX-M	MX-H	NR-C	NR-BP	NR-LM	NR-GM	NR-SU	A	B	NR-FO	C
Blood services facility									C	C	C	P	P	P					
Club or event facility							C	P	P	P	P	P	P	CV		P	P	C	4-3(D)(24)
Commercial services								P	P	P	P	P	P	P					
Construction contractor facility and yard										C	P	P	P	P					4-3(D)(25)
Crematorium														P					
Medical or dental clinic							P	P	P	P	P	P	P	P					4-3(D)(26)
Mortuary								C	P	P	P	P	C		A				
Office							P	P	P	P	P	P	P	P					
Personal and business services, small							P	P	P	P	P	P	P	P					4-3(D)(27)
Personal and business services, large									P	P	P	P	P	P					4-3(D)(27)
Research or testing facility							P	P	P	P	P	P	P	P					4-3(D)(28)
Self-storage								C	C	P	P	P	P	P			A		4-3(D)(29)
Outdoor Recreation and Entertainment																			
Amphitheater										C	C	C	C	C	A	P	A	C	
Balloon Fiesta Park events and activities																P			4-3(D)(30)
Drive-in theater								C	C	C	C	C							4-3(D)(31)
Fairgrounds														P					
Residential community amenity, outdoor	P	P	P	P	P	P	P	P	P	P								A	
Stadium or racetrack														P	P				
Other outdoor entertainment	CA	CA	CA	CA	CA	CA	A	A	A	A	P	P	P	A		P		P	4-3(D)(32)
Retail Sales																			
Adult retail										P		P	P	P					4-3(D)(6)
Art gallery	CV	CV	C	P	P	P	P	P	P	P		P	A						4-3(D)(33)
Bakery goods or confectionery shop							C	P	P	P	P	P	P	P					
Building and home improvement materials store									C	C	P	P	P	C					4-3(D)(34)
Cannabis retail							P	P	P	P	P	P	A	A					4-3(D)(35)
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)
General retail, medium									P	P	P	C	C						4-3(D)(37)
General retail, large									C	C	P	P							4-3(D)(37)
Grocery store								P	P	P	P	P	P						4-3(D)(38)
Liquor retail							C	A	C	C	C	C	C	C					4-3(D)(39)
Nicotine retail							CA	A	C	C	C	C	C	C					4-3(D)(40)
Pawn shop								C	P	P	P	P	P	P					4-3(D)(41)

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Zone District >>	Residential				Mixed-use				Non-residential				Use-specific Standards							
	R-A	R-I	R-MC	R-T	R-ML	R-MH	MX-T	MX-L	MX-M	MX-H	NR-C	NR-BP		NR-LM	NR-GM	NR-SU	A	B	NR-PO	C
Land Uses																				
Transportation																				
Airport																			P	4-3(D)(42)
Freight terminal or dispatch center																			C P P	4-3(D)(43)
Helipad									CA CA	A	P	P	P	A						4-3(D)(44)
Park-and-ride lot						C	C	C	P	C	C	P	C	C	A	A				4-3(D)(45)
Railroad yard																			C P P	4-3(D)(46)
Transit facility						C	C	C	P	P	P	P	P	P						4-3(D)(47)
INDUSTRIAL USES																				
Manufacturing, Fabrication, and Assembly																				
Artisan manufacturing							C	P	P	P	P	P	P	P						4-3(E)(1)
Cannabis cultivation							C	P	P	P	P	P	P	P						4-3(E)(2)
Cannabis-derived products manufacturing							C	P	P	P	P	P	P	P						4-3(E)(3)
Light manufacturing										A	P	P	P	P						4-3(E)(4)
Heavy manufacturing															P					4-3(E)(5)
Natural resource extraction																P				4-3(E)(6)
Special manufacturing																C				4-3(E)(7)
Telecommunications, Towers, and Utilities																				
Drainage facility	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	A	A	C	
Electric utility	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	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	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)
Wind energy generation							A	A	A	A	A	A	A	C	A	A	A			4-3(E)(11)
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				
Freestanding							P	P	P	P	P	P	P	P	A					
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	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)
Solid waste convenience center																P				4-3(E)(14)
Salvage yard																			C C P	4-3(E)(15)
Waste and/or recycling transfer station																			P	4-3(E)(16)
Wholesaling and Storage																				

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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	NR-LM	NR-GM	NR-SU		NR-PO	
Land Uses																		
Above-ground storage of fuels or feed													C	P				
Outdoor storage							CA	C	C	C	A	P	P				4-3(E)(17)	
Warehousing								C	C	P	P	P	P				4-3(E)(18)	
Wholesaling and distribution center								C	C	P	P	P	P				4-3(E)(19)	
ACCESSORY AND TEMPORARY USES																		
ACCESSORY USES															4-3(F)(1)			
Agriculture sales stand	A	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	A		CA	4-3(F)(3)	
Automated Teller Machine (ATM)			A		A	A	A	A	A	A	A	A	A	A		T	T	
Drive-through or drive-up facility							A	A	CA	A	A	A					4-3(F)(4)	
Dwelling unit, accessory with kitchen		A		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		A	4-3(F)(5)
Family care facility	A	A	A	A	A	A	A	A	A	A							4-3(F)(6)	
Family home day care	CA	CA	CA	CA	A	A	A										4-3(F)(7)	
Garden	A	A	A	A	A	A	A	A	A	A	A	A	A			A		
Hobby breeder	A	A	A	A													4-3(F)(8)	
Home occupation	A	A	A	A	A	A	A	A	A	A							4-3(F)(9)	
Independent living facility				A	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)	
Mobile vending cart							A	A	A	A	A	A	A	A		A	4-3(F)(12)	
Outdoor animal run	A						CA	CA		CA		A	A				4-3(F)(13)	
Outdoor dining area							CA	A	A	A	A	A	A	A	A		4-3(F)(14)	
Second kitchen in a dwelling	A	A	A	A	A	A	A										4-3(F)(15)	
Other use accessory to non-residential primary use							A	A	A	A	A	A	A	A		A	4-3(F)(16)	
Other use accessory to residential primary use	A	A	A	A	A	A	A	A	A	A							4-3(F)(17)	
TEMPORARY USES																		
Temporary Uses That Require A Permit																		
Circus									T		T	T	T				4-3(G)(1)	
Construction staging area, trailer, or office	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	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)	
Open air market							T	T	T	T	T					T	4-3(G)(5)	

Part 14-16-4: Use Regulations

4-2: Allowable Uses

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 T = Temporary CT = Conditional 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-DP	NR-LM	NR-GM	NR-SU	A		B	NR-PO	U
Park-and-ride facility, temporary						T	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	T					4-3(G)(7)
Safe outdoor space							CT	CT	CT	CT	T	T	T	T						4-3(G)(8)
Seasonal outdoor sales							T	T	T	T	T	T	T	T						4-3(G)(9)
Temporary use not listed			T			T	T	T	T	T	T	T	T	T	T			T		4-3(G)(10)
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	T	4-3(G)(11)

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 Subsection 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, email devhelp@cabq.gov or request a Pre-application Review Team Meeting (PRT) here:

<https://www.cabq.gov/planning/urban-design-development/pre-application-review-team-meetings>


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 Section 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 CT = Conditional 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	A	N	R	P	O
PRIMARY USES THAT MAY BE ACCESSORY IN SOME ZONE DISTRICTS																					
RESIDENTIAL USES																					
Household Living																					
Dwelling, townhouse				P	P	P	P	P	P	P											4-3(B)(6)
Dwelling, live-work				C	C	P	P	P	P	P	CA	CA									4-3(B)(7)
Dwelling, multi-family					P	P	P	P	P	P											4-3(B)(8)
Group Living																					
Assisted living facility or nursing home				C	P	P	P	P	P	P											
Community residential facility, small	P	P			P	P	P	P	P	P											4-3(B)(9)
Community residential facility, large					P	P	P	P	P	P											4-3(B)(9)
Dormitory						P	C	P	P	P											
Group home, small					C	P	P	P	P												4-3(B)(10)
Group home, medium					C	C	C	P	P	P											4-3(B)(10)
Group home, large						C			C	C											4-3(B)(10)

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 CT = Conditional Temporary
 Blank Cell = Not Allowed

Zone District >>	Residential						Mixed-use				Non-residential								Use-specific Standards	
	A	I	MC	T	ML	MH	CT	CL	M	H	C	BP	M	M	SU	N	R	P		O
CIVIC AND INSTITUTIONAL USES																				
Adult or child day care facility			C	C	C	P	P	P	P	P	P	P	A	A						
Community center or library	C	P		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	P	CV			P		C	4-3(C)(2)	
High school	C	C		C	C	P	P	P	P	P	P	P	C			P			4-3(C)(3)	
Museum				CV	CV	C	P	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	P	C	C	A	P	P	P	4-3(C)(7)	
Religious institution	P	P		P	P	P	P	P	P	P	P	P	CV	CV					4-3(C)(8)	
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)	
Offices and Services																				
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	A	A	A	A	P	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	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)	

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 CT = Conditional Temporary
 Blank Cell = Not Allowed

Zone District >>	Residential						Mixed-use				Non-residential								Use-specific Standards	
	A	T	CV	T	ML	MH	CT	CL	M	CH	C	BP	M	M	SU	N	R	P		O
INDUSTRIAL USES																				
Manufacturing, Fabrication, and Assembly																				
Telecommunications, Towers, and Utilities																				
Drainage facility	P	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	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	P	A	A	A	A	
Solar energy generation	P	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	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	A			
Collocation	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A			
Public utility collocation	A	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	A				
Small cell	A	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)
Wholesaling and Storage																				

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 CT = Conditional Temporary
 Blank Cell = Not Allowed

Zone District >>	Residential						Mixed-use				Non-residential						Use-specific Standards			
	A	T	MC	T	ML	MH	CT	CL	M	H	C	BP	M	M	SU	N		R	P	O
ACCESSORY AND TEMPORARY USES																				
ACCESSORY USES																			4-3(F)(1)	
Agriculture sales stand	A	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	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		A			4-3(F)(5)
Dwelling unit, accessory without kitchen	CA	A		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	A										4-3(F)(6)
Family home day care	CA	CA	CA	CA	A	A	A													4-3(F)(7)
Garden	A	A	A	A	A	A	A	A	A	A	A	A	A					A		
Home occupation	A	A	A	A	A	A	A	A	A	A										4-3(F)(9)
Independent living facility				A	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	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	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	T					4-3(G)(7)
Temporary use not listed			T			T	T	T	T	T	T	T	T	T			T			4-3(G)(10)
Temporary Uses That Do Not Require A Permit																				
Garage or yard sale	T	T	T	T	T	T	T													4-3(G)(11)
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)(12)

12. ATTACHMENTS

1. Payment Form
2. Fuel information
3. Emissions Calculation Spreadsheet
4. AP-42 Table
5. GGLB Information





City of Albuquerque

Environmental Health Department

Air Quality Program



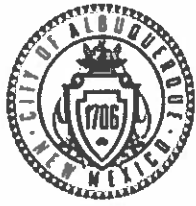
Permit Application Review Fee Instructions

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, 2023 – December 31, 2023

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	John and June Perovich Business Center		
Facility Address	1700 Lomas Blvd NE		
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?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
If yes, what is the permit number associated with this modification?	Permit #		
Is this application review fee for a Qualified Small Business as defined in 20.11.2 NMAC? (See Definition of Qualified Small Business on Page 4)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

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			
<input type="checkbox"/>	AQN New Application	\$645.00	2801
<input type="checkbox"/>	AQN Technical Amendment	\$352.00	2802
<input type="checkbox"/>	AQN Transfer of a Prior Authorization	\$352.00	2803
<input checked="" type="checkbox"/>	<i>Not Applicable</i>	<i>See Sections Below</i>	
Stationary Source Review Fees (Not Based on Proposed Allowable Emission Rate)			
<input type="checkbox"/>	Source Registration required by 20.11.40 NMAC	\$ 657.00	2401
<input checked="" type="checkbox"/>	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	\$1,314.00	2301
<input type="checkbox"/>	<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)			
<input type="checkbox"/>	Proposed Allowable Emission Rate Equal to or greater than 1 tpy and less than 5 tpy	\$986.00	2302
<input type="checkbox"/>	Proposed Allowable Emission Rate Equal to or greater than 5 tpy and less than 25 tpy	\$1,971.00	2303
<input type="checkbox"/>	Proposed Allowable Emission Rate Equal to or greater than 25 tpy and less than 50 tpy	\$3,942.00	2304
<input type="checkbox"/>	Proposed Allowable Emission Rate Equal to or greater than 50 tpy and less than 75 tpy	\$5,913.00	2305
<input type="checkbox"/>	Proposed Allowable Emission Rate Equal to or greater than 75 tpy and less than 100 tpy	\$7,884.00	2306
<input type="checkbox"/>	Proposed Allowable Emission Rate Equal to or greater than 100 tpy	\$9,855.00	2307
<input checked="" type="checkbox"/>	<i>Not Applicable</i>	<i>See Section Above</i>	

Federal Program Review Fees for each subpart (In addition to the Stationary Source Application Review Fees above)			
<input type="checkbox"/>	40 CFR 60 - "New Source Performance Standards" (NSPS)	\$1,314.00	2308
<input type="checkbox"/>	40 CFR 61 - "Emission Standards for Hazardous Air Pollutants (NESHAPs)	\$1,314.00	2309
<input type="checkbox"/>	40 CFR 63 - (NESHAPs) Promulgated Standards	\$1,314.00	2310
<input type="checkbox"/>	40 CFR 63 - (NESHAPs) Case-by-Case MACT Review	\$13,140.00	2311
<input type="checkbox"/>	20.11.61 NMAC, Prevention of Significant Deterioration (PSD) Permit	\$6,570.00	2312
<input type="checkbox"/>	20.11.60 NMAC, Non-Attainment Area Permit	\$6,570.00	2313
<input checked="" type="checkbox"/>	<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)			
<input type="checkbox"/>	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	\$1,314	2321
<input checked="" type="checkbox"/>	<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)			
<input type="checkbox"/>	Proposed Allowable Emission Rate Equal to or greater than 1 tpy and less than 5 tpy	\$986.00	2322
<input type="checkbox"/>	Proposed Allowable Emission Rate Equal to or greater than 5 tpy and less than 25 tpy	\$1,971.00	2323
<input type="checkbox"/>	Proposed Allowable Emission Rate Equal to or greater than 25 tpy and less than 50 tpy	\$3,942.00	2324
<input type="checkbox"/>	Proposed Allowable Emission Rate Equal to or greater than 50 tpy and less than 75 tpy	\$5,913.00	2325
<input type="checkbox"/>	Proposed Allowable Emission Rate Equal to or greater than 75 tpy and less than 100 tpy	\$7,884.00	2326
<input type="checkbox"/>	Proposed Allowable Emission Rate Equal to or greater than 100 tpy	\$9,855.00	2327
<input checked="" type="checkbox"/>	<i>Not Applicable</i>	<i>See Section Above</i>	
Major Modifications Review Fees (In addition to the Modification Application Review Fees above)			
<input type="checkbox"/>	20.11.60 NMAC, Permitting in Non-Attainment Areas	\$6,570	2333
<input type="checkbox"/>	20.11.61 NMAC, Prevention of Significant Deterioration	\$6,570	2334
<input checked="" type="checkbox"/>	<i>Not Applicable</i>	<i>Not Applicable</i>	
Federal Program Review Fees for each subpart (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)			
<input type="checkbox"/>	40 CFR 60 - "New Source Performance Standards" (NSPS)	\$1,314.00	2328
<input type="checkbox"/>	40 CFR 61 - "Emission Standards for Hazardous Air Pollutants (NESHAPs)	\$1,314.00	2329
<input type="checkbox"/>	40 CFR 63 - (NESHAPs) Promulgated Standards	\$1,314.00	2330
<input type="checkbox"/>	40 CFR 63 - (NESHAPs) Case-by-Case MACT Review	\$13,140.00	2331
<input type="checkbox"/>	20.11.61 NMAC, Prevention of Significant Deterioration (PSD) Permit	\$6,570.00	2332
<input type="checkbox"/>	20.11.60 NMAC, Non-Attainment Area Permit	\$6,570.00	2333
<input checked="" type="checkbox"/>	<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
<input type="checkbox"/>	Administrative Revisions	\$ 250.00	2340
<input type="checkbox"/>	Technical Revisions	\$ 500.00	2341
<input checked="" type="checkbox"/>	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
<input type="checkbox"/>	No New Air Dispersion Modeling Required	\$ 500.00	2501
<input type="checkbox"/>	New Air Dispersion Modeling Required	\$ 750.00	2502
<input checked="" type="checkbox"/>	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	\$1314.00
Section III Total	\$0
Section IV Total	\$0
Section V Total	\$0
Total Application Review Fee	\$1314

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 3rd day of November 2023

Teresa Costantinidis
Print Name

Executive 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.

New Mexico Gas Company
Albuquerque, New Mexico
Gas Analysis General Report (15 Jan 2019)

Analysis ID: 00001714													15-Jan-19			
Name: Atrisco SF Incl Daily													10:57 AM			
Alternate ID: NA																
Company Name: NMGCCO																
Analysis Origin: NA																
BTU Var Multiplier:																
Sample Date	Effective Date	Sample Type	Sample Pressure Base	Wet BTU	Dry BTU	Gravity	Methane	Ethane	Propane	I Butane	N Butane	I Pentane	N Pentane	Hexanes+	Nitrogen	CO2
	1/1/19 8:00		14.73	1003.7	1021.5	0.5872	95.111	2.838	0.165	0.014	0.015	0.006	0.004	0.005	0.314	1.521
	1/2/19 8:00		14.73	1006.1	1023.9	0.5863	95.062	3.048	0.146	0.011	0.012	0.005	0.003	0.005	0.369	1.334
	1/3/19 8:00		14.73	1011.6	1029.5	0.5882	94.833	3.229	0.264	0.017	0.021	0.011	0.008	0.012	0.343	1.248
	1/4/19 8:00		14.73	1014.9	1032.9	0.5911	94.634	3.106	0.381	0.053	0.074	0.029	0.02	0.016	0.432	1.237
	1/5/19 8:00		14.73	1033.2	1051.5	0.6056	92.776	4.155	0.726	0.112	0.17	0.067	0.05	0.039	0.597	1.286
	1/6/19 8:00		14.73	1036.2	1054.5	0.6045	93.151	3.922	0.808	0.124	0.177	0.061	0.045	0.045	0.372	1.244
	1/7/19 8:00		14.73	1028.5	1046.8	0.598	93.849	3.676	0.622	0.084	0.12	0.042	0.031	0.034	0.322	1.182
	1/8/19 8:00		14.73	1013.9	1031.9	0.5882	94.721	3.437	0.295	0.015	0.015	0.006	0.005	0.008	0.317	1.172
	1/9/19 8:00		14.73	1016.4	1034.4	0.5909	94.401	3.621	0.342	0.021	0.024	0.009	0.007	0.013	0.287	1.26
	1/10/19 8:00		14.73	1005.6	1023.4	0.5831	95.612	2.701	0.136	0.013	0.014	0.005	0.003	0.008	0.297	1.204
	1/11/19 8:00		14.73	1003.4	1021.2	0.5856	95.357	2.727	0.136	0.013	0.013	0.004	0.003	0.007	0.266	1.467
	1/12/19 8:00		14.73	1005.2	1023	0.5869	95.034	3.023	0.125	0.012	0.013	0.005	0.003	0.008	0.346	1.423
	1/13/19 8:00		14.73	1003.7	1021.5	0.5861	95.204	2.869	0.098	0.012	0.015	0.006	0.004	0.008	0.332	1.443
	1/14/19 8:00		14.73	1002.7	1020.4	0.5849	95.38	2.707	0.102	0.012	0.014	0.006	0.004	0.008	0.39	1.37
Averages:				1013.2	1031.2	0.5905	94.652	3.217	0.31	0.037	0.05	0.019	0.014	0.015	0.356	1.314

The data on this report may be incomplete and should be viewed as preliminary un-edited data.

Uncontrolled Emissions

Pollutant	Emission Factor (lb/MMBtu)	MMBTU/HR	lb/Hr	Potential Op hrs/yr	lb/ton	tons/yr
CO	3.72	1.705	6.34E+00	8760	2000	2.78E+01
Nox	2.27	1.705	3.87E+00	8760	2000	1.70E+01
VOC	0.358	1.705	6.10E-01	8760	2000	2.67E+00
SOx	5.88E-04	1.705	1.00E-03	8760	2000	4.39E-03
PM 10	9.50E-03	1.705	1.62E-02	8760	2000	7.09E-02
PM 2.5	9.50E-03	1.705	1.62E-02	8760	2000	7.09E-02
HAPS	3.24E-02	1.705	5.52E-02	8760	2000	2.42E-01

Controlled Emissions

	Emissions lb/hr	hr/yr requested	lb/yr	lb/ton	Tons/yr
CO	6.34E+00	200	1.27E+03	2000	6.34E-01
Nox	3.87E+00	200	7.74E+02	2000	3.87E-01
VOC	6.10E-01	200	1.22E+02	2000	6.10E-02
SOx	1.00E-03	200	2.01E-01	2000	1.00E-04
PM 10	1.62E-02	200	3.24E+00	2000	1.62E-03
PM 2.5	1.62E-02	200	3.24E+00	2000	1.62E-03
HAPS	5.52E-02	200	1.10E+01	2000	5.52E-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	0	0	6.34	0.63	6.34	6.34E-01
Nox	0	0	3.87	0.39	3.87	3.87E-01
VOC	0	0	0.61	0.061	0.61	6.10E-02
SOx	0.00E+00	0.00E+00	1.00E-03	1.00E-04	1.00E-03	1.00E-04
PM 10	0.00E+00	0.00E+00	0.02	1.62E-03	0.02	1.62E-03
PM 2.5	0.00E+00	0.00E+00	0.02	1.62E-03	0.02	1.62E-03

HAP	lb/MMBTU
1,1,2,2-Tetrachloroethane	2.53E-05
1,1,2-Trichloroethane	1.53E-05
1,3-Butadiene	6.63E-04
1,3-Dichloropropene	1.27E-05
Acetaldehyde	2.79E-03
Acrolein	2.63E-03
Benzene	1.58E-03
Carbon tetrachloride	1.77E-05
chlorobenzene	1.29E-05
Ehtylbenze	2.48E-05
Ethylene Dibromide	2.13E-05
Formaldehyde	2.05E-02
Methanol	3.06E-03
Mehtylene Chloride	4.12E-05
Naphthalene	9.71E-05
PAH	1.41E-04
Styrene	1.19E-05
Toluene	5.58E-04
Vinyl Chloride	7.18E-06
Xylene	1.95E-04
SUM	3.24E-02

Table 3.2-3. UNCONTROLLED EMISSION FACTORS FOR 4-STROKE RICH-BURN
 ENGINES^a
 (SCC 2-02-002-53)

Pollutant	Emission Factor (lb/MMBtu) ^b (fuel input)	Emission Factor Rating
Criteria Pollutants and Greenhouse Gases		
NO _x ^c 90 - 105% Load	2.21 E+00	A
NO _x ^c <90% Load	2.27 E+00	C
CO ^c 90 - 105% Load	3.72 E+00	A
CO ^c <90% Load	3.51 E+00	C
CO ₂ ^d	1.10 E+02	A
SO ₂ ^e	5.88 E-04	A
TOC ^f	3.58 E-01	C
Methane ^g	2.30 E-01	C
VOC ^h	2.96 E-02	C
PM10 (filterable) ^{i,j}	9.50 E-03	E
PM2.5 (filterable) ^j	9.50 E-03	E
PM Condensable ^k	9.91 E-03	E
Trace Organic Compounds		
1,1,2,2-Tetrachloroethane ^l	2.53 E-05	C
1,1,2-Trichloroethane ^l	<1.53 E-05	E
1,1-Dichloroethane	<1.13 E-05	E
1,2-Dichloroethane	<1.13 E-05	E
1,2-Dichloropropane	<1.30 E-05	E
1,3-Butadiene ^l	6.63 E-04	D
1,3-Dichloropropene ^l	<1.27 E-05	E
Acetaldehyde ^{l,m}	2.79 E-03	C
Acrolein ^{l,m}	2.63 E-03	C
Benzene ^l	1.58 E-03	B
Butyr/isobutyraldehyde	4.86 E-05	D
Carbon Tetrachloride ^l	<1.77 E-05	E

Table 3.2-3. UNCONTROLLED EMISSION FACTORS FOR 4-STROKE RICH-BURN ENGINES
(Concluded)

Pollutant	Emission Factor (lb/MMBtu) ^b (fuel input)	Emission Factor Rating
Chlorobenzene ¹	<1.29 E-05	E
Chloroform ¹	<1.37 E-05	E
Ethane ⁿ	7.04 E-02	C
Ethylbenzene ¹	<2.48 E-05	E
Ethylene Dibromide ¹	<2.13 E-05	E
Formaldehyde ^{1,m}	2.05 E-02	A
Methanol ¹	3.06 E-03	D
Methylene Chloride ¹	4.12 E-05	C
Naphthalene ¹	<9.71 E-05	E
PAH ¹	1.41 E-04	D
Styrene ¹	<1.19 E-05	E
Toluene ¹	5.58 E-04	A
Vinyl Chloride ¹	<7.18 E-06	E
Xylene ¹	1.95 E-04	A

^a Reference 7. Factors represent uncontrolled levels. For NO_x, CO, and PM-10, "uncontrolled" means no combustion or add-on controls; however, the factor may include turbocharged units. For all other pollutants, "uncontrolled" means no oxidation control; the data set may include units with control techniques used for NO_x control, such as PCC and SCR for lean burn engines, and PSC for rich burn engines. Factors are based on large population of engines. Factors are for engines at all loads, except as indicated. SCC = Source Classification Code. TOC = Total Organic Compounds. PM10 = Particulate Matter ≤ 10 microns (μm) aerodynamic diameter. A "<" sign in front of a factor means that the corresponding emission factor is based on one-half of the method detection limit.

^b Emission factors were calculated in units of (lb/MMBtu) based on procedures in EPA Method 19. To convert from (lb/MMBtu) to (lb/10⁶ scf), multiply by the heat content of the fuel. If the heat content is not available, use 1020 Btu/scf. To convert from (lb/MMBtu) to (lb/hp-hr) use the following equation:

$$\text{lb/hp-hr} = \text{lb/MMBtu} \cdot \text{heat input, MMBtu/hr} \cdot 1/\text{operating HP, 1/hp}$$

^c Emission tests with unreported load conditions were not included in the data set.

^d Based on 99.5% conversion of the fuel carbon to CO₂. CO₂ [lb/MMBtu] = (3.67)(%CON)(C)(D)(1/h), where %CON = percent conversion of fuel carbon to CO₂,

- C = carbon content of fuel by weight (0.75), D = density of fuel, $4.1 \text{ E}+04 \text{ lb}/10^6 \text{ scf}$, and h = heating value of natural gas (assume 1020 Btu/scf at 60°F).
- ^e Based on 100% conversion of fuel sulfur to SO_2 . Assumes sulfur content in natural gas of $2,000 \text{ gr}/10^6 \text{ scf}$.
 - ^f Emission factor for TOC is based on measured emission levels from 6 source tests.
 - ^g Emission factor for methane is determined by subtracting the VOC and ethane emission factors from the TOC emission factor.
 - ^h VOC emission factor is based on the sum of the emission factors for all speciated organic compounds. Methane and ethane emissions were not measured for this engine category.
 - ⁱ No data were available for uncontrolled engines. PM10 emissions are for engines equipped with a PCC.
 - ^j Considered $\leq 1 \mu\text{m}$ in aerodynamic diameter. Therefore, for filterable PM emissions, $\text{PM}_{10}(\text{filterable}) = \text{PM}_{2.5}(\text{filterable})$.
 - ^k No data were available for condensable emissions. The presented emission factor reflects emissions from 4SLB engines.
 - ^l Hazardous Air Pollutant as defined by Section 112(b) of the Clean Air Act.
 - ^m For rich-burn engines, no interference is suspected in quantifying aldehyde emissions. The presented emission factors are based on FTIR and CARB 430 emissions data measurements.
 - ⁿ Ethane emission factor is determined by subtracting the VOC emission factor from the NMHC emission factor.

Casey Hall

From: OneC Care Email <care@cummins.com>
Sent: Tuesday, October 24, 2023 6:39 AM
To: Casey Hall
Subject: SR#:01708482 RE: GGLB Information

[EXTERNAL]

Casey, the GGLB product is considered to be a "Rich burn".

Thank you for contacting Cummins.

Regards, Dean

Cummins Care Representative

SR#:01708482

This repair plan is provided as a courtesy to resolve a difficult failure and/or complaint. This does not imply any promise of payment or financial responsibility from Cummins.

Payment for warranty service events contingent on determination of warrantable failure.

IMPORTANT: Please follow all [Safety Guidelines](#) as published in Quickserve Online including wearing appropriate PPE per employee's Company Policy and as directed by applicable standards (OSHA, MSHA, NFPA 70e, or others applicable to location or environment).

Please **Reply All** to this email or call 1-800-CUMMINS.

----- Original Message -----

From: Casey Hall [cbhall4@unm.edu]
Sent: 10/20/2023 5:28 PM
To: care@cummins.com
Subject: GGLB Information

Greetings,

I am in the process of applying for an air quality permit for a GGLB gen set manufactured in 2004. I am using AP-42 emission factors for emission. One issue I'm having is that there are separate factors for lean and rich burn units. Is the GM 8.1L engine used on the GGLB lean or rich burn?

Thanks,

Casey Hall (He/Him) | Director, Environmental Health and Safety
The University of New Mexico
505.277.2753 | 315.885.8683 | cbhall4@unm.edu



CONFIDENTIALITY NOTICE: This e-mail, including any attachments, is for the exclusive and confidential use of the intended recipient(s). If you are not an intended recipient, please do not read, distribute or take action in reliance upon this message. If you have received this in error, please notify the sender immediately by return e-mail and promptly delete this message and its attachments from your computer system.

EMISSION CONTROL INFORMATION
POWER SOLUTIONS, INC.
Phone: 630-350-9400

PSI

MODEL: 8.1L DISPL (L) 8.1
MAXIMUM BRAKE POWER: 225 HP

*THIS ENGINE IS EXCLUDED FROM THE REQUIREMENTS OF 40 CFR PART 1048 AS A "STATIONARY ENGINE" INSTALLING OR USING THIS ENGINE IN ANY OTHER APPLICATION MAY BE A VIOLATION OF FEDERAL LAW SUBJECT TO CIVIL PENALTY.

GM 8.1L

S/N 8.1L- 08972

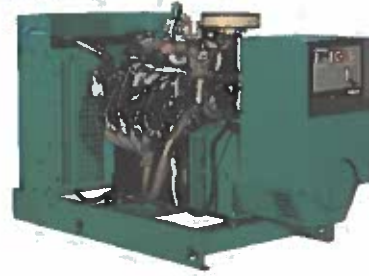
XPSI
POWER SOLUTIONS, INC.[®]

655 WHEAT LAKE, WOOD DALE, ILLINOIS 60191
TEL: 630-350-9400 TOLL FREE: 800-551-2938 FAX: 630-350-9400

Telecom Bldg. 255

Spark-Ignited Generator Set Model GGLB 60 Hz

Natural Gas - 150 kW, 188 kVA Standby
Propane - 140 kW, 175 kVA Standby



Description

Cummins Power Generation commercial generator sets are fully integrated power generation systems providing optimum performance, reliability, and versatility for stationary standby or prime power applications.

A primary feature is strong motor-starting capability and fast recovery from transient load changes. The torque-matched system includes a heavy-duty GM 4-cycle spark-ignited engine, an AC alternator with high motor-starting kVA capacity and an electronic voltage regulator for precise regulation under steady-state or transient loads. The GenSet accepts 100% of the nameplate standby rating in one step, in compliance with NFPA 110 Level 1 requirements.

Natural gas fuel system is standard with options available for LP vapor, LP liquid, and dual fuel.

These commercial generator sets offer user-friendly operation. The standard PowerCommand® digital electronic control is an integrated system that combines engine and alternator controls for high reliability and optimum GenSet performance, and meets NFPA110 requirements.

A wide range of options, accessories, and services are available, allowing configuration to your specific power generation needs.

Every production unit is factory tested at rated load and power factor. This testing includes demonstration of rated power and single-step rated load pickup. Cummins Power Generation manufacturing facilities are registered to ISO9001 quality standards, emphasizing our commitment to high quality in the design, manufacture, and support of our products. The generator set is CSA certified and is available as UL 2200 Listed. The PowerCommand control is UL508 Listed.

All Cummins Power Generation systems are backed by a comprehensive warranty program and supported by a worldwide network of 170 distributors and service branches to assist you with warranty, service, parts, and planned maintenance support.

Features

- **UL Listed Generator Set** - The complete generator set assembly is available Listed to UL 2200.
- **GM Heavy-Duty Gas Engine** - Rugged 4-cycle industrial spark-ignited engine delivers reliable power, low emissions, and fast response to load changes. The electronic governor provides fast response to load changes.
- **Alternator** - Several alternator sizes offer selectable motor starting capability with low reactance 2/3 pitch winding, low waveform distortion with non-linear loads, fault clearing short-circuit capability, and class H insulation. The alternator electrical insulation system is UL 1446 recognized.
- **Control Systems** - The PowerCommand electronic control is standard equipment and provides total genset system integration, including automatic remote starting/stopping, precise frequency and voltage regulation, alarm and status message display, AmpSentry™ protection, output metering, auto-shutdown at fault detection, and NFPA 110 Level 1 compliance. PowerCommand control is Listed to UL508.
- **Cooling Systems** - Standard cooling package provides reliable running at the standby and prime rating, at up to 50°C ambient temperature.
- **Integral Vibration Isolation** - Robust skid base supports the engine, alternator, and radiator on isolators, minimizing transmitted vibration.
- **E-Coat Finish** - Dual electro-deposition paint system provides high resistance to scratching, corrosion, and fading.
- **Enclosures** - Optional weather-protective and sound attenuated enclosures are available.
- **Certifications** - Generator sets are designed, manufactured, tested, and certified to relevant UL, NFPA, ISO, IEC, and CSA standards.
- **Warranty and Service** - Backed by a comprehensive warranty and worldwide distributor service network.

Generator Set

The general specifications provide representative configuration details. Consult the outline drawing for installation design.

See outline drawing 0500-4207 for installation design specifications.

Unit Width, in (mm)	40.0 (1016)
Unit Height, in (mm)	56.0 (1422)
Unit Length, in (mm)	98.2 (2496)
Unit Dry Weight, lb (kg)	2550 (1157)
Unit Wet Weight, lb (kg)	2675 (1213)
Rated Speed, rpm	1800
Voltage Regulation, No Load to Full Load	±1.0%
Random Voltage Variation	±1.0%
Frequency Regulation	Isochronous
Random Frequency Variation	±0.5%
Radio Frequency Interference	IEC 801.2, Level 4 Electrostatic Discharge IEC 801.3, Level 3 Radiated Susceptibility IEC 801.4, Level 4 Electrical Fast Transients IEC 801.5, Level 5 Voltage Surge Immunity

Cooling	Natural Gas		Propane	
	Standby	Prime	Standby	Prime
Fan Load, HP (kW)	8.5 (6.3)		8.5 (6.3)	
Coolant Capacity with radiator, US Gal (L)	5.9 (22.3)		5.9 (22.3)	
Coolant Flow Rate, Gal/min (L/min)	33.0 (124.9)		33.0 (124.9)	
Heat Rejection To Coolant, Btu/min (MJ/min)	6700.0 (7.1)		6600 (7.0)	
Heat Radiated To Room, Btu/min (MJ/min)	4000.0 (4.2)		3900 (4.1)	
Maximum Coolant Friction Head, psi (kPa)	2.0 (13.8)		2.0(13.8)	
Maximum Coolant Static Head, ft (m)	10.0 (3.0)		10.0(3.0)	
Air				
Combustion Air, scfm (m ³ /min)	335.0 (9.5)		320 (9.1)	
Alternator Cooling Air, scfm (m ³ /min)	1308.0 (37.0)		1308 (37.0)	
Radiator Cooling Air, scfm (m ³ /min)	10000.0 (283.0)		10000.0 283.0)	
Max. Static Restriction, in H ₂ O (Pa)	0.50 (124.50)		0.50 (124.50)	

Rating Definitions

Standby Rating based on: Applicable for supplying emergency power for the duration of normal power interruption. No sustained overload capability is available for this rating. (Equivalent to Fuel Stop Power in accordance with ISO3046, AS2789, DIN6271 and BS5514). Nominally rated.

Prime (Unlimited Running Time) Rating based on: Applicable for supplying power in lieu of commercially purchased power. Prime power is the maximum power available at a variable load for an unlimited number of hours. A 10% overload capability is available for limited time. (Equivalent to Prime Power in accordance with ISO8528 and Overload Power in accordance with ISO3046, AS2789, DIN6271, and BS5514). This rating is not applicable to all generator set models.

Base Load (Continuous) Rating based on: Applicable for supplying power continuously to a constant load up to the full output rating for unlimited hours. No sustained overload capability is available for this rating. Consult authorized distributor for rating. (Equivalent to Continuous Power in accordance with ISO8528, ISO3046, AS2789, DIN6271, and BS5514). This rating is not applicable to all generator set models.

Site Derating Factors

Natural Gas

Engine power available up to 1950 ft (594 m) at ambient temperatures up to 104°F (40°C). Above 1950 ft (594 m) derate at 4% per 1000 ft (305 m), and 1% per 10°F (2% per 11°C) above 104°F (40°C).

Propane

Engine power available up to 1000 ft (305 m) at ambient temperatures up to 77°F (25°C). Above 1000 ft (305 m) derate at 4% per 1000 ft (305 m), and 1% per 10°F (2% per 11°C) above 77°F (25°C).

Engine

Rugged GM spark-ignited engines are designed to operate efficiently on gaseous fuels.

Electronic governing is standard, providing precise speed regulation especially useful for applications requiring constant (isochronous) frequency regulation such as Uninterruptible Power Supply (UPS) systems, non-linear loads, or sensitive electronic loads. Coolant heaters are required for all emergency standby installations or for any application requiring fast load acceptance after start-up.

Specifications – Engine

Base Engine	GM8.1L-HO, Turbocharged and CAC
Displacement in³ (L)	496.0 (8.1)
Overspeed Limit, rpm	2400 ±50
Regenerative Power, kW	15.00
Cylinder Block Configuration	Cast iron, V 8 cylinder
Battery Capacity	300 amps minimum at ambient temperature of 32°F (0°C)
Battery Charging Alternator	70 amps
Starting Voltage	12-volt, negative ground
Lube Oil Filter Types	Single spin-on canister-combination full flow with bypass
Standard Cooling System	122°F (50°C) ambient radiator cooling system
Standard Fuel	Natural gas is standard.

	Natural Gas		Propane					
	Standby	Prime	Standby	Prime				
Power Output								
Gross Engine Power Output, bhp (kWm)	225.0 (167.8)		210 (156.9)					
BMEP at Rated Load, psi (kPa)	200.0 (1379.0)		187 (1289)					
Bore, in. (mm)	4.25 (108.0)		4.25 (108.0)					
Stroke, in. (mm)	4.37 (111.0)		4.37 (111.0)					
Piston Speed, ft/min (m/s)	1310.0 (6.7)		1310.0 (6.7)					
Compression Ratio	9.1:1		9.1:1					
Lube Oil Capacity, qt. (L)	8.0 (7.6)		8.0 (7.6)					
Fuel Flow								
Minimum Operating Pressure, in. H ₂ O (kPa)	5.0 (1.2)		5.0 (1.2)					
Maximum Operating Pressure, in. H ₂ O (kPa)	13.6 (3.4)		13.6 (3.4)					
Air Cleaner								
Maximum Air Cleaner Restriction, in. H ₂ O (kPa)	6.0 (1.5)		6.0 (1.5)					
Exhaust								
Exhaust Flow at Rated Load, cfm (m ³ /min)	1050.0 (29.7)		1000 (28.3)					
Exhaust Temperature, °F (°C)	1215.0 (657.2)		1185 (640.5)					
Max Back Pressure, in. H ₂ O (kPa)	20.0 (5.0)		20.0 (5.0)					
Fuel Consumption - Natural Gas	Standby		Prime					
60 Hz Ratings, kW (kVA)	150 (188)							
	Load	1/4	1/2	3/4	Full			
	cfh	7730	1100	1540	1740			
	m ³ /hr	20.7	31.1	43.6	49.3			
Fuel Consumption - Propane	Standby		Prime					
60 Hz Ratings, kW (kVA)	140 (175)							
	Load	1/4	1/2	3/4	Full			
	cfh	270	405	575	650			
	m ³ /hr	7.6	11.5	16.3	18.4			

Alternator

Several alternators are available for application flexibility based on the required motor-starting kVA and other requirements. Larger alternator sizes have lower temperature rise for longer life of the alternator insulation system. In addition, larger alternator sizes can provide a cost-effective use of engine power in across-the-line motor-starting applications and can be used to minimize voltage waveform distortion caused by non-linear loads.

Single-bearing alternators couple directly to the engine flywheel with flexible discs for drivetrain reliability and durability. No gear reducers or speed changers are used. Two-thirds pitch windings eliminate third-order harmonic content of the AC voltage waveform. The standard excitation system is a PMG excited system.

Alternator Application Notes

Shunt or Separately Excited (PMG) System - Standard generator set utilizes a single phase sensing electronic voltage regulator to provide excitation control. Permanent Magnet Generator (PMG) units are provided with an integral PMG to supply power to the voltage regulator. PMG excitation control is via the PowerCommand Control, which provides a 3-phase sensing voltage regulation system. A PMG system generally has better motor-starting performance, lower voltage dip upon load application, and better immunity from problems with harmonics in the main alternator output induced by non-linear loads.

Alternator Sizes - On any given model, various alternator sizes are available to meet individual application needs. Alternator sizes are differentiated by maximum winding temperature rise, at the generator set standby or prime rating, when operated in a 40°C ambient environment. Available temperature rises range from 80°C to 150°C. Not all temperature rise selections are available on all models. Lower temperature rise is accomplished using larger alternators at lower current density. Lower temperature rise alternators have higher motor-starting kVA, lower voltage dip upon load application, and they are generally recommended to limit voltage distortion and heating due to harmonics induced by non-linear loads.

Alternator Space Heater - is recommended to inhibit condensation in outdoor environments.

Available Output Voltages

<u>Three Phase Reconnectable</u>		<u>Single Phase Non-Reconnectable</u>		<u>Three Phase Non-Reconnectable</u>	
[]	120/208	[]	120/240	[]	347/600
[]	139/240				
[]	220/380				
[]	240/415				
[]	277/480				
[]	120/240 Delta				

Specifications – Alternator

Design	Brushless, 4 pole, drip proof, revolving field
Stator	2/3 pitch
Rotor	Direct coupled by flexible disc
Insulation System	Class H per NEMA MG1-1.65
Standard Temperature Rise	150°C Standby
Exciter Type	Permanent Magnet Generator (PMG)
Phase Rotation	A (U), B (V), C (W)
Alternator Cooling	Direct drive centrifugal blower
AC Waveform Total Harmonic Distortion	<5% total no load to full linear load <3% for any single harmonic
Telephone Influence Factor (TIF)	<50 per NEMA MG1-22.43
Telephone Harmonic Factor (THF)	<3


Natural Gas and Propane												
Three Phase Table ¹		105° C	105° C	105° C	125° C	125° C	125° C	150° C	150° C	150° C		
Feature Code		B418	B415	B304	B417	B414	B303	B416	B413	B419		
Alternator Data Sheet Number		210	210	209	210	210	209	210	209	208		
Voltage Ranges		110/190 Thru 120/208 220/380 Thru 240/416	120/208 Thru 139/240 240/416 Thru 277/480	347/600	110/190 Thru 120/208 220/380 Thru 240/416	120/208 Thru 139/240 240/416 Thru 277/480	347/600	110/190 Thru 120/208 220/380 Thru 240/416	120/208 Thru 139/240 240/416 Thru 277/480	347/600		
Surge kW		160	160	160	160	160	160	160	159	159		
Motor Starting kVA (at 90% sustained voltage)	Shunt	563	563	516	563	563	516	563	516	422		
	PMG	663	663	607	663	663	607	663	607	497		
Full Load Current - Amps at Standby Rating		$\frac{120/208}{522}$	$\frac{127/220}{493}$	$\frac{139/240}{452}$	$\frac{220/380}{288}$	$\frac{240/416}{261}$	$\frac{277/480}{226}$	$\frac{347/600}{181}$				

Natural Gas and Propane												
Single Phase Table		105° C	105° C	125° C	125° C	125° C						
Feature Code		B418	B415	B417	B414	B273						
Alternator Data Sheet Number		210	210	210	210	210						
Voltage Ranges		120/240 ¹	120/240 ¹	120/240 ¹	120/240 ¹	120/240 ²						
Surge kW		157	157	157	157	160						
Motor Starting kVA (at 90% sustained voltage)	Shunt	330	330	330	330	330						
	PMG	385	385	385	385	385						
Full Load Current - Amps at Standby Rating		$\frac{120/240^1}{413}$	$\frac{120/240^2}{625}$									

Notes:

1. The broad range alternators can supply single phase output up to 2/3 set rated 3-phase kW at 1.0 power factor.
2. The extended stack (full single phase output) and 4 lead alternators can supply single phase output up to full set rated 3-phase kW at 1.0 power factor.

Control System

	PowerCommand (2100) Control with AmpSentry™ Protection	
AmpSentry AC Protection <ul style="list-style-type: none"> • Overcurrent and short circuit shutdown • Overcurrent warning • Single & 3-phase fault regulation • Over and under voltage shutdown • Over and under frequency shutdown • Overload warning with alarm contact • Reverse power and reverse Var shutdown • Excitation fault 	Engine Protection <ul style="list-style-type: none"> • Overspeed shutdown • Low oil pressure warning and shutdown • High coolant temperature warning and shutdown • Low coolant level warning or shutdown • Low coolant temperature warning • High and low battery voltage warning • Weak battery warning • Fail to start (overcrank) shutdown • Fail to crank shutdown • Redundant start disconnect • Sensor failure indication • Fixed speed control 	Operator Interface <ul style="list-style-type: none"> • OFF/MANUAL/AUTO mode switch • MANUAL RUN/STOP switch • Panel lamp test switch • Emergency Stop switch • Alpha-numeric display with pushbutton access, for viewing engine and alternator data and providing setup, controls, and adjustments including voltage adjustment • LED lamps indicating genset running, not in auto, common warning, common shutdown • (5) configurable LED lamps • LED Bargraph AC data display (optional)
Alternator Data <ul style="list-style-type: none"> • Line-to-line and line-to-neutral AC volts • 3-phase AC current • Frequency • Total and individual phase kW and kVA 	Engine Data <ul style="list-style-type: none"> • DC voltage • Lube oil pressure • Coolant temperature 	Other Data <ul style="list-style-type: none"> • Genset model data • Start attempts, starts, running hours • KW hours (total and since reset) • Fault history • Load profile • System data display (optional)
Governing <ul style="list-style-type: none"> • Digital Engine Speed Control for fixed isochronous frequency regulation 	Voltage Regulation <ul style="list-style-type: none"> • Integrated digital electronic voltage regulator • 3-phase line to neutral sensing • PMG (Optional) • Single and three phase fault regulation • Configurable torque matching 	Control Functions <ul style="list-style-type: none"> • Data logging on faults • Fault simulation (requires InPower) • Time delay start and cooldown • Cycle cranking • (3) Configurable customer inputs • (4) Configurable customer outputs • (8) Configurable network inputs and (16) outputs (with optional network)
Options		
<ul style="list-style-type: none"> <input type="checkbox"/> Power Transfer Control <input type="checkbox"/> Analog AC Meter Display <input type="checkbox"/> Thermostatically Controlled Space Heater 	<ul style="list-style-type: none"> <input type="checkbox"/> Key-type mode switch <input type="checkbox"/> Ground fault module <input type="checkbox"/> Engine oil temperature <input type="checkbox"/> Auxiliary Relays (3) 	<ul style="list-style-type: none"> <input type="checkbox"/> Echelon LonWorks interface <input type="checkbox"/> Digital input and output module(s) (loose) <input type="checkbox"/> Remote annunciator (loose)

Generator Set Options

Engine

- 120 V, 1500 W coolant heater
- 240V, 1500 W coolant heater

Fuel System

- LP Vapor
- LP Liquid
- Natural Gas/LP Vapor with automatic changeover
- Natural Gas/LP Liquid with automatic changeover

Alternator

- 105°C rise alternator
- 125°C rise alternator
- 120/240 V, 100 W alternator anti-condensation heater
- 12-lead broad range extended stack (full single phase output)
- Single phase (4-lead)
- PMG excitation

Exhaust System

- Mounted residential grade silencer (unhoused)
- Exhaust flex (muffler to customer connection)

Enclosures

- Weather-protective enclosure with silencer
- Quiet Site Level 1 enclosure with silencer
- Quiet Site Level 2 enclosure with silencer

Generator Set

- AC entrance box
- Battery
- Battery charger
- Export box packaging
- UL 2200 Listed
- Main line circuit breakers
- Remote annunciator panel
- Spring isolators
- 5 year comprehensive warranty
- 2 year standby warranty
- 5 year basic power warranty

Accessories and Services

A wide range of products and services is available to match your power generation system requirements. Cummins Onan products and services include:

- Diesel and Spark-Ignited Generator Sets
- Transfer Switches
- Bypass Switches
- Parallel Load Transfer Equipment
- Digital Paralleling Switchgear
- PowerCommand Network and Software
- Distributor Application Support
- Planned Maintenance Agreements

Warranty

All components and subsystems are covered by an express limited one-year warranty. Other optional and extended factory warranties and local distributor maintenance agreements are available. Contact your distributor/dealer for more information.

Certifications



ISO9001 - This generator set was designed and manufactured in facilities certified to ISO9001.



CSA - This generator set is CSA certified to product class 4215-01.



PTS - The Prototype Test Support (PTS) program verifies the performance integrity of the generator set design. Products bearing the PTS symbol have been subjected to demanding tests in accordance to NFPA 110 Level 1 to verify the design integrity and performance under both normal and abnormal operating conditions including short circuit, endurance, temperature rise, torsional vibration, and transient response, including full load pickup.



UL - The generator set is available Listed to UL 2200, Stationary Engine Generator Assemblies. The PowerCommand control is Listed to UL 508 - Category NITW7 for U.S. and Canadian usage.

See your distributor for more information



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Important: Backfeed to a utility system can cause electrocution and/or property damage. Do not connect generator sets to any building electrical system except through an approved device or after building main switch is open.






Emergency Generator Application at Building 183

Final Audit Report

2023-11-03

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