



THE UNIVERSITY of
NEW MEXICO

RECEIVED
ENVIRONMENTAL HEALTH

Department of Safety and Risk Services (SRS)
MSC07 4100

1 University of New Mexico
Albuquerque, NM 87131-0001
Phone: (505)277-2753 Fax: (505)277-9006
srs.unm.edu

18 JAN -8 AM 11:47

January 8, 2018

Paul Puckett
Environmental Health Scientist
Permitting Division
Air Quality Program
Environmental Health Department
City of Albuquerque

Re: Construction Permit Applications for University of New Mexico: Health Sciences Library and Informatics Center (Building 234)

Dear Mr. Puckett

Enclosed please find a Construction Permit application packet for the proposed installation of a new standby emergency generator at the University of New Mexico Health Sciences Library and Informatics Center (Building 234). The new generator is powered by a new diesel engine with a power rating of 36 hp. It will replace the old, existing emergency generator at this location, and is intended to provide backup power. An EPA Certificate of Conformity is provided for the unit to demonstrate NSPS compliance.

A check for \$1,920.00 for the permit application review fees, payable to the City of Albuquerque is also enclosed.

The project to replace these generators is time sensitive, and the University would appreciate any efforts to quickly process these applications.

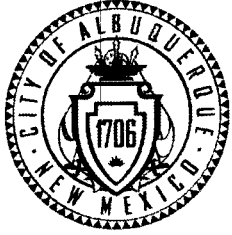
Should you have any questions, please do not hesitate to contact me at 505-277-2766.

Sincerely,

Chemanji Shu-Nyamboli

Environmental Health Manager

cc: David A. Penasa, UNM Facilities Engineering Manager
Israel Tavarez, Environmental Health Manager, Air Quality Division, City of Albuquerque
Regan Eyerman, Environmental Health Scientist, Air Quality Division, City of Albuquerque



City of Albuquerque

Environmental Health Department

Air Quality Program



Permit Application Checklist

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

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

All applicants shall:

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

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

3. Provide public notice to the appropriate parties
 - a. Attach a copy of the completed *Notice of Intent to Construct* form to this form
 - i. Neighborhood Association(s): List provided by AQP

 - ii. Coalition(s): List provided by AQP
 - b. Attach a copy of the completed *Public Sign Notice Guideline* form

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

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

- Q. contain the basis or source for each emission rate (include the manufacturer's specification sheets, AP-42 Section sheets, test data, or other data when used as the source).
- R. contain all calculations used to estimate **potential emission rate** and **controlled emissions**.
- S. contain the basis for the estimated control efficiencies and sufficient engineering data for verification of the control equipment operation, including if necessary, design drawings, test reports, and factors which affect the normal operation (e.g. limits to normal operation).
- T. contain fuel data for each existing and/or proposed piece of fuel burning equipment.
- U. contain the anticipated maximum production capacity of the entire facility and the requested production capacity after construction and/or modification.
- V. contain the stack and exhaust gas parameters for all existing and proposed emission stacks.
- W. provide an ambient impact analysis using a atmospheric dispersion model approved by the US Environmental Protection Agency (EPA), and the Department to demonstrate compliance with the ambient air quality standards for the City of Albuquerque and Bernalillo County (See 20.11.01 NMAC). If you are modifying an existing source, the modeling must include the emissions of the entire source to demonstrate the impact the new or modified source(s) will have on existing plant emissions.
- X. contain a preliminary operational plan defining the measures to be taken to mitigate source emissions during malfunction, startup, or shutdown.
- Y. contain a process flow sheet, including a material balance, of all components of the facility that would be involved in routine operations. Indicate all emission points, including fugitive points.
- Z. contain a full description, including all calculations and the basis for all control efficiencies presented, of the equipment to be used for air pollution control. This shall include a process flow sheet or, if the Department so requires, layout and assembly drawings, design plans, test reports and factors which affect the normal equipment operation, including control and/or process equipment operating limitations.
- AA. contain description of the equipment or methods proposed by the applicant to be used for emission measurement.
- BB. be signed under oath or affirmation by a corporate officer, authorized to bind the company into legal agreements, certifying to the best of his or her knowledge the truth of all information submitted.



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: | Chemanji Shu-Nyamboli |
| Company/Organization: | University of New Mexico |
| Point of Contact: (phone number and email): | Phone: 505-277-2766 |
| Preferred form of contact (circle one): Phone E-mail | Email: cshu@unm.edu |
| Preferred meeting date/times: | 11/8/2017 @ 1:30 pm 11/9/2017 @ 2:00 pm 11/10/2017 @ 2:00 pm |

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

Chemanji Shu-Nyamboli

From: Eyerman, Regan V. <reyerman@cabq.gov>
Sent: Thursday, December 14, 2017 8:19 AM
To: Chemanji Shu-Nyamboli
Cc: Puckett, Paul S.
Subject: RE: FINALprepermitapplicationmeetingrequestform

Hi Che,
I will call you. Your assigned permit writer on UNM's permitting action will be Paul.

Thank you,
Regan Eyerman, P.E.
Environmental Health Scientist
Air Quality Program
Environmental Health Department
City of Albuquerque
(505) 767-5625
reyerman@cabq.gov

From: Chemanji Shu-Nyamboli [<mailto:cshu@unm.edu>]
Sent: Wednesday, December 13, 2017 6:05 PM
To: Eyerman, Regan V.
Cc: Puckett, Paul S.
Subject: RE: FINALprepermitapplicationmeetingrequestform

Hi Regan,

Thanks for the follow-up. I tried calling you with a follow up question, but no luck, so here it is.

I need clarification on the application fees. The application review fee forms are not intuitive, so I was wondering if you could tell me which lines apply for each application. I have attached the emission calculations for both generators (both controlled and uncontrolled).

I'd appreciate some guidance on this.

Thanks
Che

*Chemanji (Che) Shu-Nyamboli
Environmental Health Manager
Department of Safety & Risk Services (SRS)
University of New Mexico
MSC07 4100, 1 University of New Mexico
Albuquerque, NM 87131-0001
Office: 505.277.2766
Cell: 505.269.9593
Fax: 505.277.9006*

E-mail: cshu@unm.edu

From: Eyerman, Regan V. [<mailto:reyerman@cabq.gov>]
Sent: Wednesday, December 13, 2017 9:26 AM
To: Chemanji Shu-Nyamboli <cshu@unm.edu>
Cc: Puckett, Paul S. <ppuckett@cabq.gov>
Subject: RE: FINALprepermitapplicationmeetingrequestform

Hi Che,

I spoke to my manager Isreal Tavaréz and a technical revision of Permit #1979 would be the appropriate permitting action.

Thank you,
Regan Eyerman, P.E.
Environmental Health Scientist
Air Quality Program
Environmental Health Department
City of Albuquerque
(505) 767-5625
reyerman@cabq.gov

From: Eyerman, Regan V.
Sent: Tuesday, December 12, 2017 9:37 AM
To: 'Chemanji Shu-Nyamboli'
Cc: Puckett, Paul S.
Subject: RE: FINALprepermitapplicationmeetingrequestform

Hi Che,

Sorry, I thought Paul got back to you on that. A diesel engine that was constructed after April 2006 needs to comply with federal standards at 40CFR Part 60 Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines and so would therefore require a permit. So if a new diesel engine is replacing the engine at HSCLIC then that facility wouldn't be able to maintain a Registration Certificate.

In regards to Permit 1979, I have to discuss with my manager because the newer engine, while smaller, would also be subject to Subpart IIII and I want to see how he wants to handle that.

Thank you,
Regan Eyerman, P.E.
Environmental Health Scientist
Air Quality Program
Environmental Health Department
City of Albuquerque
(505) 767-5625
reyerman@cabq.gov

From: Chemanji Shu-Nyamboli [<mailto:cshu@unm.edu>]
Sent: Tuesday, December 12, 2017 9:01 AM

To: Eyerman, Regan V.
Cc: Puckett, Paul S.
Subject: RE: FINALprepermitapplicationmeetingrequestform

Hi Regan,

I am following up on my email below. Have you had a chance to consider the questions I raised?

I look forward to hearing from you soon.

Thanks

Che

*Chemanji (Che) Shu-Nyamboli
Environmental Health Manager
Department of Safety & Risk Services (SRS)
University of New Mexico
MSC07 4100, 1 University of New Mexico
Albuquerque, NM 87131-0001
Office: 505.277.2766
Cell: 505.269.9593
Fax: 505.277.9006
E-mail: cshu@unm.edu*

From: Chemanji Shu-Nyamboli
Sent: Wednesday, December 6, 2017 11:17 AM
To: 'Eyerman, Regan V.' <reyerman@cabq.gov>
Cc: Puckett, Paul S. <ppuckett@cabq.gov>
Subject: RE: FINALprepermitapplicationmeetingrequestform

Hi Regan,

I don't mind waiving the pre-application meeting. I do have a few questions regarding the applications. We are replacing two old emergency generators with two brand new diesel powered emergency generators to provide backup power. The generators are located at the UNM Health Sciences Library and Informatics Center, HSLIC, (CoR 1968) and the Computational and Translational Science Center, CTSC (ATC 1979). The replacement generator engines are rated at 36 hp (HSLIC) and 364 hp (CTSC). The replacement generator engine for CTSC, has uncontrolled emissions values that are less than 10 lbs/hr or 25 tons/yr for any pollutants (based on 8760 hrs of operation).

Before we submit applications, please advise on whether the following determinations are correct:

- a. The replacement generator for HSLIC will maintain a Source Registration, and UNM needs to apply for a Technical Revision to CoR 1968.

- b. A Construction Permit is not required for the new unit at CTSC since its emissions are lower than the threshold, and a Source Registration is required instead?
- c. UNM needs to apply for a Technical Revision to ATC 1979.
- d. The total application review fees for both generators would be \$1000 (\$500 per unit).

Thanks
Che

*Chemanji (Che) Shu-Nyamboli
Environmental Health Manager
Department of Safety & Risk Services (SRS)
University of New Mexico
MSC07 4100, 1 University of New Mexico
Albuquerque, NM 87131-0001
Office: 505.277.2766
Cell: 505.269.9593
Fax: 505.277.9006
E-mail: cshu@unm.edu*

From: Eyerman, Regan V. [<mailto:reyerman@cabq.gov>]
Sent: Monday, November 6, 2017 4:40 PM
To: Chemanji Manyaka Shu-Nyamboli <cshu@unm.edu>
Cc: Puckett, Paul S. <ppuckett@cabq.gov>
Subject: RE: FINALprepermitapplicationmeetingrequestform

Good afternoon Che,

Our construction permitting regulation allows sources who are familiar with the permitting process to waive the pre-application meeting. Would you be interested in doing that?

Thank you,
Regan Eyerman, P.E.
Environmental Health Scientist
Air Quality Program
Environmental Health Department
City of Albuquerque
(505) 767-5625
reyerman@cabq.gov

From: Chemanji Manyaka Shu-Nyamboli [<mailto:cshu@unm.edu>]
Sent: Friday, November 03, 2017 5:43 PM
To: EHD, AQD
Subject: FINALprepermitapplicationmeetingrequestform

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 | Health Sciences Library & Informatics Center |
| Site or Facility Address | 2400 Marble Ave NE Albuquerque NM 87131 |
| New or Existing Source | EXISTING |
| Anticipated Date of Application Submittal | December 21, 2017 |
| Summary of Proposed Source to Be Permitted | The application is to construct a 36 horsepower, EPA Tier IV emission certified, diesel fired internal combustion engine coupled to a 20 kW emergency electrical generator. The new unit will replace the old existing source which broke down earlier this year. 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:

- NAME: Che Shu-Nyamboli
- EMAIL ADDRESS: cshu@unm.edu
- PHONE NUMBER: 505-277-2766

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 of Intent to Construct

Under 20.11.41.13B NMAC, the owner/operator is required 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 with-in one-half mile of the exterior boundaries of the property on which the source is or is proposed to be located* if they propose to construct or establish a new facility or make modifications to an existing facility that is subject to 20.11.41 NMAC – Construction Permits. **A copy of this form must be included with the application.**

Applicant's Name and Address: University of New Mexico, 1800 Roma Ave. NE

Owner / Operator's Name and Address: UNM 1800 Roma Ave NE

Actual or Estimated Date the Application will be submitted to the Department: January 30, 2018

Exact Location of the Source or Proposed Source: 2400 Marble Ave NE Albuquerque NM 87131

Description of the Source: Emergency generator for backup power at UNM Health Sciences Library and Informatics Building.

Nature of the Business: Higher Education

Process or Change for which the permit is requested: The existing backup emergency generator broke down and is irreparable. UNM is applying for a permit to replace the old generator with a new, lower emitting generator.

Preliminary Estimate of the Maximum Quantities of each regulated air contaminant the source will emit:

Net Changes In Emissions

(Only for permit Modifications or Technical Revisions)

Initial Construction Permit

| | Pounds Per Hour (lbs/hr) | Tons Per Year (tpy) | | lbs/hr | tpy | Estimated Total TPY |
|-------|-----------------------------|------------------------|-------|--------|-----|------------------------|
| CO | 0.33 | 0.03 | CO | +/- | +/- | |
| NOx | 0.42 | 0.04 | NOx | +/- | +/- | |
| SO2 | 0.07 | 0.007 | SO2 | +/- | +/- | |
| VOC | 0.02 | 0.002 | VOC | +/- | +/- | |
| TSP | 0.02 | 0.002 | TSP | +/- | +/- | |
| PM10 | 0.02 | 0.002 | PM10 | +/- | +/- | |
| PM2.5 | 0.02 | 0.002 | PM2.5 | +/- | +/- | |
| VHAP | | | VHAP | +/- | +/- | |

Maximum Operating Schedule: 200 hrs/yr

Normal Operating Schedule: Approximately 30 minutes per month

Ver.10/16

Current Contact Information for Comments and Inquires:

Name: Che Shu-Nyamboli

Address: 1801 Tucker Ave. NE

Phone Number: 505-277-2766

E-Mail Address: cshu@unm.edu

If you have any comments about the construction or operation of the above facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to the address below:

Environmental Health Manager

Stationary Source Permitting

Albuquerque Environmental Health Department

Air Quality Program

PO Box 1293

Albuquerque, New Mexico 87103

(505) 768-1972

Other comments and questions may be submitted verbally.

Please refer to the company name and facility name, as used in this notice or send a copy of this notice along with your comments, since the Department may not have received the permit application at the time of this notice. Please include a legible mailing address with your comments. Once the Department has performed a preliminary review of the application and its air quality impacts, if required, the Department's notice will be published in the legal section of the Albuquerque Journal and mailed to neighborhood associations and neighborhood coalitions near the facility location or near the facility proposed location.

Current Contact Information for Comments and Inquires:

**Name: Che Shu-Nyamboli
Address: 1801 Tucker Ave. NE
Phone Number: 505-277-2766
E-Mail Address: cshu@unm.edu**

If you have any comments about the construction or operation of the above facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to the address below:

**Environmental Health Manager
Stationary Source Permitting
Albuquerque Environmental Health Department
Air Quality Program
PO Box 1293
Albuquerque, New Mexico 87103
(505) 768-1972**

Other comments and questions may be submitted verbally.

Please refer to the company name and facility name, as used in this notice or send a copy of this notice along with your comments, since the Department may not have received the permit application at the time of this notice. Please include a legible mailing address with your comments. Once the Department has performed a preliminary review of the application and its air quality impacts, if required, the Department's notice will be published in the legal section of the Albuquerque Journal and mailed to neighborhood associations and neighborhood coalitions near the facility location or near the facility proposed location.

Reply All Forward
Tue 12/19/2017 11:25 AM
Chemajli Shu-Nyamboli
Notice of Intent to Construct

To

Cc Puckett, Paul S.; Eyerman, Regan V.;
Bcc 'sueburunbaugh@gmail.com'; 'saraloshorne@gmail.com'; 'camoue_neighborhood_assoc@gmail.com'; 'nancymbearce@gmail.com'; 'gradenris@erelience.com'; 'adrian_carver@gmail.com'; 'Timothy Jack Ross, juliamakob@gmail.com'; 'jamonvalbano@comcast.net'; 'elizadock@aol.com'; 'jfrifebe@msn.com'; 'shannon2@me.com'; 'snassociation@gmail.com'; 'Jennings2000@yahoo.com'; 'Janice Ellen Schuetz, pschlike@gmail.com'; 'mg411@a.com'; 'sricdon@earthlink.net'; 'julienkiddler@gmail.com'; 'info@uhamm.org'

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133 KB

 S-SRS-02-17121912011.pdf
132 KB

Greetings:

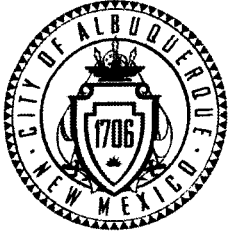
Attached please find information regarding two Construction Permit applications that will be submitted to the City of Albuquerque Environmental Health Department Air Quality Division. The applications are for the installation of two brand new backup emergency generators at the UNM Health Sciences Center. The new generators will replace the existing old generators which broke down earlier this year.

You are receiving this email in accordance with 20.11.41.13 B NMAC which requires UNM to provide public notice by certified mail or electronic mail to the designated representative(s) of the recognized neighborhood associations and coalitions within a half mile of the exterior boundaries of the property.

Thank you,

Chemajli (Oxé) Shu-Nyamboli
Environmental Health Manager
Department of Safety & Risk Services (SRS)
University of New Mexico
MSC07 4100, 1 University of New Mexico
Albuquerque, NM 87131-0001
Office: 505.277.2766
Cell: 505.269.9593
Fax: 505.277.9006
E-mail: csnu@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: Chemanji Shu-Nyamboli
Contact: 505-277-2766 - 1801 Tucker Rd NE Albuquerque 87131
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)

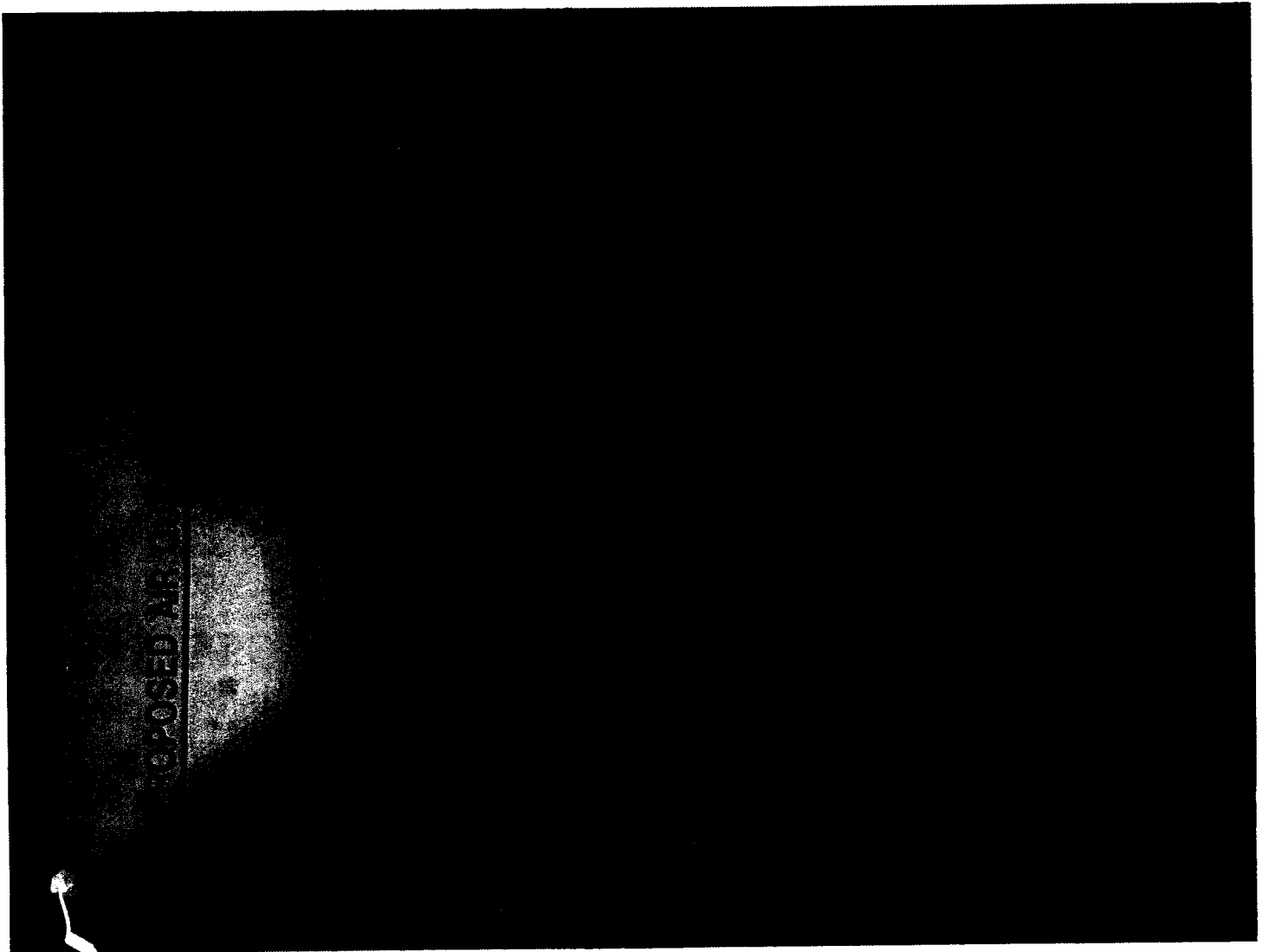
The sign shall be installed and maintained in a condition such that members of the public can easily view, access, and read the sign at all times.

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.

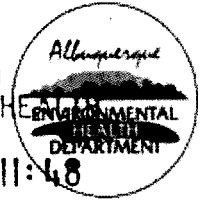
Alternative public notice details:





Albuquerque Environmental Health Department - Air Quality Program

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



18 JAN -8 AM 11:48

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

Clearly handwritten or type

Corporate Information

Submittal Date: 1/18/2018

- 1. Company Name: University of New Mexico _____ 2. Street Address 1800 Roma Ave, NE _____ Zip 87131 _____
- 3. Company City Albuquerque _____ 4. Company State NM _____ 5. Company Phone 505-277-2766 _____ 6. Company Fax _____
- 7. Company Mailing Address: 1801 Tucker Ave, NE _____ Zip: 87131 _____
- 8. Company Contact and Title: Che Shu-Nyamboli, Environmental Health Manager _____ 9. Phone 505-277-2766 _____ 10. E-mail cshu@unm.edu _____

Stationary Source (Facility) Information: Provide a plot plan (legal description/drawing of facility property) with overlay sketch of facility processes; Location of emission points; Pollutant type and distances to property boundaries

- 1. Facility Name: Health Sciences Library and Informatics Center (Building 234) _____ 2. Street Address 2400 Marble Ave NE _____
- 3. City Albuquerque _____ 4. State NM _____ 5. Facility Phone (505) 277-6798 _____ 6. Facility E-mail: cshu@unm.edu _____
- 7. Facility Mailing Address (Local) 1801 Tucker Rd NE _____ Zip 87131 _____
- 8. Latitude - Longitude or UTM Coordinates of Facility _____ 352.1 East 3883.2 North _____
- 9. Facility Contact and Title same as company contact and title _____ 10. Phone _____ 11. E-mail _____

General Operation Information (if any further information request does not pertain to your facility, write N/A on the line or in the box)

- 1. Facility Type (description of your facility operations) Emergency Generator
- 2. Standard Industrial Classification (SIC 4 digit #) 8221 3. North American Industry Classification System (NAICS Code #) 611310 _____
- 4. Is facility currently operating in Bernalillo County. Yes If yes, date of original construction unknown If no, planned startup is / / _____
- 5. Is facility permanent Yes If no, give dates for requested temporary operation - from / / through / / _____
- 6. Is facility process equipment new Yes If no, give actual or estimated manufacture or installation dates in the Process Equipment Table
- 7. Is application for a modification, expansion, or reconstruction (altering process, or adding, or replacing process equipment, etc.) to an existing facility which will result in a change in emissions Yes If yes, give the manufacture date of modified, added, or replacement equipment in the Process Equipment Table modification date column, or the operation changes to existing process/equipment which cause an emission increase
- 8. Is facility operation (circle one)? [Continuous Intermittent Batch]
- 9. Estimated % of production Jan-Mar 25 Apr-Jun 25 Jul-Sep 25 Oct-Dec 25 _____
- 10. Current or requested operating times of facility _____ hrs/day _____ days/wk _____ wks/mo _____ mos/yr 11. Business hrs _____ am/pm to _____ am/pm 200 hrs/yr
- 12. Will there be special or seasonal operating times other than shown above No If yes, explain _____
- 13. Raw materials processed Diesel _____ 14. Saleable item(s) produced _____

**Application for Air Pollutant Sources in Bernalillo County
Source Registration (20.11.40 NMAC) and Authority-to-Construct Permits (20.11.41 NMAC)**

15. Permitting Action Being Requested

New Permit Permit Modification Technical Permit Revision Administrative Permit Revision
 Current Permit #: CoR 1968 Current Permit #: _____ Current Permit #: _____

PROCESS EQUIPMENT TABLE

(Generator-Crusher-Screen-Conveyor-Boiler-Mixer-Spray Guns-Saws-Sander-Oven-Dryer-Furnace-Incinerator, etc.)

| Process Equipment Unit | Manufacturer | Model # | Serial # | Manufacture Date | Installation Date | Modification Date | Size or Process Rate (Hp;kW;Btu;ft ³ ;lbs; tons;yd ³ ;etc.) | Fuel Type |
|------------------------|--------------------|-------------------|----------------|------------------|-------------------|-------------------|---|---------------------|
| Example 1. Generator | Unigen | B-2500 | A56732195C-222 | 7/96 | 7/97 | N/A | 250 Hp - HR. YR. | Diesel |
| Example 2. Spray Gun | HVLP Systems | Spray-N-Stay 1100 | k26-56-95 | 01/97 | 11/97 | N/A | 0.25 gal. - HR. YR. | Electric Compressor |
| 1. Emergency Generator | Kubota Corporation | Kubota V2203M | TBD | 2016 | TBD | N/A | 36 Hp | Diesel |
| 2. | | | | | | | HR. YR. | |
| 3. | | | | | | | HR. YR. | |

1. Basis for Equipment Size or Process Rate (Manufacturers data, Field Observation/Test, etc.) Manufacture's Data Submit information for each unit as an attachment

EXEMPTED SOURCES AND EXEMPTED ACTIVITES

(Generator-Crusher-Screen-Conveyor-Boiler-Mixer-Spray Guns-Saws-Sander-Oven-Dryer-Furnace-Incinerator, etc.)

| Process Equipment Unit | Manufacturer | Model # | Serial # | Manufacture Date | Installation Date | Modification Date | Size or Process Rate (Hp;kW;Btu;ft ³ ;lbs; tons;yd ³ ;etc.) | Fuel Type |
|------------------------|--------------|-------------------|----------------|------------------|-------------------|-------------------|---|---------------------|
| Example 1. Generator | Unigen | B-2500 | A56732195C-222 | 7/96 | 7/97 | N/A | 250 Hp - HR. YR. | Diesel |
| Example 2. Spray Gun | HVLP Systems | Spray-N-Stay 1100 | k26-56-95 | 01/97 | 11/97 | N/A | 0.25 gal. - HR. YR. | Electric Compressor |
| | | | | | | | HR. YR. | |
| 2. | | | | | | | HR. YR. | |
| 3. | | | | | | | HR. YR. | |

1. Basis for Equipment Size or Process Rate (Manufacturers 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 Authority-to-Construct Permits (20.11.41 NMAC)**

UNCONTROLLED EMISSIONS OF INDIVIDUAL AND COMBINED PROCESSES

(Process potential under physical/operational limitations during a 24 hr/day and 365 day/year = 8,760 hrs)

| Process Equipment Unit* | Carbon Monoxide (CO) | Oxides of Nitrogen (NOx+NMHC) | Nonmethane Hydrocarbons NMHC (VOCs) | Oxides of Sulfur (SOx) | Total Suspended Particulate Matter (TSP) | Method(s) used for Determination of Emissions (AP-42, Material balance, field tests, manufacturers' data, etc.) |
|-------------------------|----------------------|-------------------------------|-------------------------------------|------------------------|--|---|
| Example I. Generator | 1. 9.1 lbs/hr | 27.7 lbs/hr | 1.3 lbs/hr | 0.5 lbs/hr | 2.0 lbs/hr | AP-42 |
| | 1a. 39.9 tons/yr | 121.3 tons/yr | 5.7 tons/yr | 2.2 tons/yr | 8.8 tons/yr | |
| 1. Generator | 1. 0.325 lbs/hr | 0.44 lbs/hr | 0.02 lbs/hr | 0.073 lbs/hr | 0.017 lbs/hr | AP-42 |
| | 1a. 1.422 tons/yr | 1.94 tons/yr | 0.097 tons/yr | 0.322 tons/yr | 0.076 tons/yr | |
| 2. | 2. lbs/hr | lbs/hr | lbs/hr | lbs/hr | lbs/hr | |
| | 2a. tons/yr | tons/yr | tons/yr | tons/yr | tons/yr | |
| 3. | 3. lbs/hr | lbs/hr | lbs/hr | lbs/hr | lbs/hr | |
| | 3a. tons/yr | tons/yr | tons/yr | tons/yr | tons/yr | |

* If any one (1) of these process units, or combination of units, has an uncontrolled emission greater than (>) 10 lbs/hr or 25 tons/yr for any of the above pollutants (based on 8760 hrs of operation), then a permit will be required. Complete this application along with additional checklist information requested on accompanying instruction sheet.

* If all of these process units, individually and in combination, have an uncontrolled emission less than or equal to (≤) 10 lbs/hr or 25 tons/yr for all of the above pollutants (based on 8760 hrs of operation), but > 1 ton/yr for any of the above pollutants - then a source registration is required.

Note: If your source does not require a registration or permit, based on above pollutant emissions, complete the remainder of this application to determine if a registration or permit would be required for any Toxic or Hazardous air pollutants used at your facility.

Copy this page if additional space is needed for either table (begin numbering with 4., 5., etc.)

**Application for Air Pollutant Sources in Bernalillo County
Source Registration (20.11.40 NMAC) and Authority-to-Construct Permits (20.11.41 NMAC)**

CONTROLLED EMISSIONS OF INDIVIDUAL AND COMBINED PROCESSES

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

Process Equipment Units listed on this Table should match up to the same numbered line and Unit as listed on Uncontrolled Table
(pg.2)

| Process Equipment Unit | Carbon Monoxide (CO) | Oxides of Nitrogen (NOx+NMHC) | Nonmethane Hydrocarbons (VOCs) | Oxides of Sulfur (SOx) | Total Suspended Particulate Matter (TSP) | Control Equipment | % Efficiency |
|-----------------------------|--------------------------|-------------------------------|--------------------------------|------------------------|--|------------------------|--------------|
| I. Example Generator | 1. 9.1 lbs/hr | 27.7 lbs/hr | 1.3 lbs/hr | 0.5 lbs/hr | 2.0 lbs/hr | Operating Hours | N/A |
| | 1a. 18.2 tons/yr | 55.4 tons/yr | 2.6 tons/yr | 1.0 tons/yr | 4.0 tons/yr | | |
| 1. | 1. 0.325 lbs/hr | 0.44 lbs/hr | 0.02 lbs/hr | 0.073 lbs/hr | 0.017 lbs/hr | Operating Hours | N/A |
| | 1a. 0.032 tons/yr | 0.044 tons/yr | 0.002 tons/yr | 0.0073 tons/yr | 0.0017 tons/yr | | |
| 2. | 2. lbs/hr | lbs/hr | lbs/hr | lbs/hr | lbs/hr | | |
| | 2a. tons/yr | tons/yr | tons/yr | tons/yr | tons/yr | | |
| 3. | 3. lbs/hr | lbs/hr | lbs/hr | lbs/hr | lbs/hr | | |
| | 3a. tons/yr | tons/yr | tons/yr | tons/yr | tons/yr | | |

1. Basis for Control Equipment % Efficiency (Manufacturers data, Field Observation/Test, AP-42, etc.)
Submit information for each unit as an attachment _____
2. Explain and give estimated amounts of any Fugitive Emissions associated with facility processes _____

**Application for Air Pollutant Sources in Bernalillo County
Source Registration (20.11.40 NMAC) and Authority-to-Construct Permits (20.11.41 NMAC)**

****TOXIC EMISSIONS**

VOLATILE, HAZARDOUS, & VOLATILE HAZARDOUS AIR POLLUTANT EMISSION TABLE

| Product Categories (Coatings, Solvents, Thinners, etc.) | Volatile Organic Compound (VOC), Hazardous Air Pollutant (HAP), or Volatile Hazardous Air Pollutant (VHAP) Primary To The Representative As Purchased Product | Chemical Abstract Service Number (CAS) Of VOC, HAP, Or VHAP From Representative As Purchased Product | VOC, HAP, Or VHAP Concentration Of Representative As Purchased Product (pounds/gallon, or %) | 1. How were Concentrations Determined (CPDS, MSDS, etc.) | Total Product Purchases For Category | | Quantity Of Product Recovered & Disposed For Category | | Total Product Usage For Category |
|--|---|--|--|--|--------------------------------------|-----|---|-----|----------------------------------|
| | | | | | (-) | (=) | (-) | (=) | (=) |
| EXAMPLE 1. Cleaning Solvents | TOLUENE | 108883 | 70% | PRODUCT LABEL | lbs/yr | (-) | lbs/yr | (=) | lbs/yr |
| | | | | | 200 gal/yr | | 50 gal/yr | | 150 gal/yr |
| 1. | | | | | lbs/yr | (-) | lbs/yr | (=) | lbs/yr |
| | | | | | gal/yr | | gal/yr | | gal/yr |
| 2. | | | | | lbs/yr | (-) | lbs/yr | (=) | lbs/yr |
| | | | | | gal/yr | | gal/yr | | gal/yr |
| 3. | | | | | lbs/yr | (-) | lbs/yr | (=) | lbs/yr |
| | | | | | gal/yr | | gal/yr | | gal/yr |

1. Basis for percent (%) determinations (Certified Product Data Sheets, Material Safety Data Sheets, etc.). 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.

****NOTE: A REGISTRATION IS REQUIRED, AT MINIMUM, FOR ANY AMOUNT OF HAP OR VHAP EMISSION. A PERMIT MAY BE REQUIRED FOR THESE EMISSIONS, IF THE SOURCE MEETS THE REQUIREMENTS OF PART 41.**

MATERIAL AND FUEL STORAGE TABLE

(Tanks, barrels, silos, stockpiles, etc.) Copy this table if additional space is needed (begin numbering with 4., 5., etc.)

| Storage Equipment | Product Stored | Capacity (bbls - tons gal - acres, etc) | Above or Below Ground | Construction (welded, riveted) & Color | Install Date | Loading Rate | Offloading Rate | True Vapor Pressure | Control Equipment | Seal Type | % Eff. |
|--------------------|----------------|---|-------------------------|--|--------------|-----------------|--------------------|---------------------|-------------------|-----------|--------|
| Example 1. Tank | diesel fuel | 5,000 gal. | Below | welded/ brown | 3/93 | 3000gal HR. YR. | 500 gal. - HR. YR. | N/A Psia | N/A | N/A | N/A |
| Example 2. Barrels | Solvent | 55 gal Drum | Above - in storage room | welded/green | N/A | N/A HR. YR. | N/A HR. YR. | N/A Psia | N/A | N/A | N/A |
| 1. | | | | | | gal HR. YR. | HR. YR. | Psia | | | |
| 2. | | | | | | HR. YR. | HR. YR. | Psia | | | |
| 3. | | | | | | HR. YR. | HR. YR. | Psia | | | |

1. Basis for Loading/Offloading Rate (Manufacturers data, Field Observation/Test, etc.)
 Submit information for each unit as an attachment.
2. Basis for Control Equipment % Efficiency (Manufacturers data, Field Observation/Test, AP-42, etc.)
 Submit information for each unit as an attachment.

STACK AND EMISSION MEASUREMENT TABLE

If any equipment from the Process Equipment Table (Page 2) is also listed in this Stack Table, use the same numbered line for the Process Equipment unit on both Tables to show the association between the Process Equipment and it's Stack. Copy this table if additional space is needed (begin numbering with 4., 5., etc.).

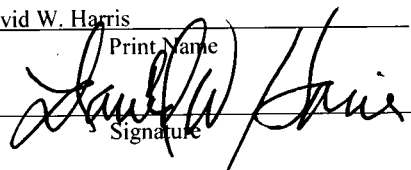
| Process Equipment | Pollutant (CO,NOx,TSP, Toluene,etc) | Control Equipment | Control Efficiency | Stack Height & Diameter in feet | Stack Temp. | Stack Velocity & Exit Direction | Emission Measurement Equipment Type | Range-Sensitivity-Accuracy- |
|----------------------|--------------------------------------|-------------------|--------------------|---------------------------------|-------------|--|-------------------------------------|-----------------------------|
| Example 1. Generator | CO, NOx, TSP, SO ₂ , NMHC | N/A | N/A | 18 ft. - H 0.8 ft. - D | 225°F | 6,000 ft ³ /min - V Exit - upward | N/A | N/A |
| Example 2. Spray Gun | TSP, xylene, toluene, MIBK | Spray Booth | 99% for TSP | 9 ft. - H 0.5 ft. -D | ambient | 10,000 ft ³ /min - V Exit - horizontal | N/A | N/A |
| Emergency Generator | CO, TSP, SOx, NOx+NMHC | N/A | N/A | | 970 F | 174 ft ³ /min - V Exit - upward | N/A | N/A |
| 2. | | | | | | | | |
| 3. | | | | | | | | |

1. Basis for Control Equipment % Efficiency (Manufacturers data, Field Observation/Test, AP-42, etc.) Submit information for each unit as an attachment

ADDITIONAL COMMENTS OR INFORMATION

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

Signed this 15 day of Dec., 20 17

David W. Harris
 Print Name

 Signature

Executive Vice President for Administration, COO, CFO
 Print Title

HSLIC

Uncontrolled Emissions

| Engine Rating (hp) | 36 | | | | |
|--------------------|-----------|--------|-------------|----------|------------|
| | (g/hp-hr) | g/hr | lbs/hr | g/yr | TPY |
| CO | 4.1 | 147.6 | 0.325401912 | 1292976 | 1.4222736 |
| NOx + NMHC | 5.6 | 201.6 | 0.444451392 | 1766016 | 1.9426176 |
| SOx | 0.93 | 33.48 | 0.073810678 | 293284.8 | 0.32261328 |
| PM | 0.22 | 7.92 | 0.01746059 | 69379.2 | 0.07631712 |
| Nox | 5.32 | 191.52 | 0.422228822 | 1677715 | 1.84548672 |
| NMHC (VOC) | 0.28 | 10.08 | 0.02222257 | 88300.8 | 0.09713088 |

Controlled Emissions

| Engine Rating (hp) | 36 | | | | |
|--------------------|-----------|--------|-------------|-------|-----------|
| | (g/hp-hr) | g/hr | lbs/hr | g/yr | TPY |
| CO | 4.1 | 147.6 | 0.325401912 | 29520 | 0.032472 |
| NOx + NMHC | 5.6 | 201.6 | 0.444451392 | 40320 | 0.044352 |
| SOx | 0.93 | 33.48 | 0.073810678 | 6696 | 0.0073656 |
| PM | 0.22 | 7.92 | 0.01746059 | 1584 | 0.0017424 |
| Nox | 5.32 | 191.52 | 0.422228822 | 38304 | 0.0421344 |
| NMHC (VOC) | 0.28 | 10.08 | 0.02222257 | 2016 | 0.0022176 |



Engine Information:

| | | | |
|--------------------------|-------------------------------------|---------------|--------------------------|
| Model: | Kubota V2203M | Bore: | 3.43 in. (87 mm) |
| Type: | 4 Cycle, In-line, 4 Cylinder Diesel | Stroke: | 3.64 in. (92 mm) |
| Aspiration: | Naturally aspirated | Displacement: | 134.1 cu. In. (2 liters) |
| Compression Ratio: | 22:1 | | |
| Emission Control Device: | | | |

| | <u>1/4</u> | <u>1/2</u> | <u>3/4</u> | <u>Full</u> | |
|----------------------------------|----------------|----------------|----------------|----------------|--|
| PERFORMANCE DATA | Standby | Standby | Standby | Standby | |
| BHP @ 1800 RPM (60 Hz) | 9 | 17 | 26 | 34 | |
| Fuel Consumption (gal/Hr) | 0.6 | 1 | 1.5 | 1.9 | |
| Exhaust Gas Flow (CFM) | 99 | 119 | 143 | 174 | |
| Exhaust Gas Temperature (°F) | 359 | 519 | 722 | 970 | |
| | | | | | |
| EXHAUST EMISSION DATA | | | | | |
| HC (Total Unburned Hydrocarbons) | 0.45 | 0.18 | 0.08 | 0.04 | |
| NOx (Oxides of Nitrogen as NO2) | 6.2 | 4.4 | 3.4 | 2.2 | |
| CO (carbon Monoxide) | 0.3 | 0.5 | 2.1 | 0.4 | |
| PM (Particular Matter) | 0.25 | 0.11 | 0.11 | 0.36 | |
| SO2 (Sulfur Dioxide) | | | | | |
| Smoke (Bosch) | 0 | 0 | 0.3 | 0.8 | |
| All values are Grams per HP-Hour | | | | | |

TEST CONDITIONS

Data is representative of steady-state engine speed (± 25 RPM) at designated genset loads. Pressures, temperatures, and emission rates were stabilized.

Fuel Specification: ASTM D975 No. 2-D diesel fuel with 0.03-0.05% sulfur content (by weight), and 40-48 cetane number.
 Fuel Temperature: 99 ± 9 °F (at fuel pump inlet)
 Intake Air Temperature: 77 ± 9 °F
 Barometric Pressure: 29.6 ± 1 in. Hg
 Humidity: NOx measurement corrected to 75 grains H2O/lb dry air
 Reference Standard: ISO 8178

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

Generator set data sheet

Model: C20 D6
Frequency: 60 Hz
Fuel type: Diesel
KW rating: 20 standby

Emissions level: EPA Emission Stationary Standby

| | |
|---|-----------------|
| Exhaust emission data sheet: | EDS-1181 |
| Exhaust emission compliance sheet: | EPA-1250 |
| Sound performance data sheet: | MSP-1179 |
| Cooling performance data sheet: | MCP-261 |
| Prototype test summary data sheet: | PTS-321 |

| Fuel consumption | Standby | | | |
|-------------------------|-----------------|------------|------------|-------------|
| | kW (kVA) | | | |
| Ratings | 20 (25) | | | |
| Load | 1/4 | 1/2 | 3/4 | Full |
| US gph | 0.57 | 0.97 | 1.38 | 1.81 |
| L/hr | 2.16 | 3.67 | 5.22 | 6.85 |

| Engine | Standby rating |
|--------------------------------------|--------------------------------|
| Engine manufacturer | Kubota Corporation |
| Engine model | V2203M |
| Configuration | Cast iron, in-line, 4 cylinder |
| Aspiration | Naturally aspirated |
| Gross engine power output, kWm (bhp) | 24 (32.5) |
| BMEP at set rated load, kPa (psi) | 753.59 (109.3) |
| Bore, mm (in) | 87 (3.43) |
| Stroke, mm (in) | 92.4 (3.64) |
| Rated speed, rpm | 1800 |
| Piston speed, m/s (ft/min) | 5.5 (1092.0) |
| Compression ratio | 22:1 |
| Lube oil capacity, L (qt) | 9.5 (10.0) |
| Overspeed limit, rpm | 2250 |

| Fuel flow | |
|---|-------------|
| Maximum fuel flow, L/hr (US gph) | 13.26 (3.5) |
| Maximum fuel inlet restriction with clean filter, mm Hg (in Hg) | 50.8 (2) |
| Maximum return restriction, mm Hg (in Hg) | 152 (6) |

| Air | Standby rating |
|--|-----------------------|
| Combustion air, m ³ /min (scfm) | 1.72 (61) |
| Maximum air cleaner restriction with clean filter, kPa (in H ₂ O) | 1.0 (4.0) |
| Alternator cooling air, m ³ /min (cfm) | 11.41 (403) |

Exhaust

| | |
|---|------------|
| Exhaust flow at set rated load, m ³ /min (cfm) | 4.92 (174) |
| Exhaust temperature, °C (°F) | 521 (970) |
| Maximum back pressure, kPa (in H ₂ O) | 10.47 (42) |
| Actual exhaust back pressure with CPG fitted muffler, kPa (in H ₂ O) | 6.98 (28) |

Standard set-mounted radiator cooling

| | |
|--|----------------|
| Ambient design, °C (°F) | 50 (122) |
| Fan load, kW _m (HP) | 0.71 (0.95) |
| Coolant capacity (with radiator), L (US Gal) | 10.13 (2.7) |
| Cooling system air flow, m ³ /min (scfm) | 54.79 (1935) |
| Total heat rejection, MJ/min (BTU/min) | 1.673 (1586.6) |
| Maximum cooling air flow static restriction, kPa (in H ₂ O) | 0.12 (0.5) |

Alternator data

| Standard Alternators | Single phase table | | Three phase table | | | |
|---|--------------------|---------|-------------------|---------|---------|---------|
| | 120 °C | 120 °C | 120 °C | 120 °C | 120 °C | 120 °C |
| Maximum temperature rise above 40 °C ambient | | | | | | |
| Feature code | B949-2 | B946-2 | B986-2 | B943-2 | B952-2 | |
| Alternator data sheet number | ADS-571 | ADS-571 | ADS-571 | ADS-571 | ADS-571 | ADS-571 |
| Voltage ranges | 120/240 | 120/208 | 120/240 | 277/480 | 347/600 | |
| Voltage feature code | R104-2 | R098-2 | R106-2 | R002-2 | R114-2 | |
| Surge kW | 19.9 | 20.18 | 20.18 | 20.18 | 20.18 | |
| Motor starting kVA (at 90% sustained voltage) | Shunt | 48 | 59 | 59 | 59 | 59 |
| | EBS | 78 | | 94 | 94 | 94 |
| Full load current amps at standby rating | | 83 | 69 | 60 | 30 | 24 |

Notes:

¹ Single phase power can be taken from a three phase generator set at up to 2/3 set rated 3-phase kW at 1.0 power factor. Also see Note 3 below.

² The broad range alternators can supply single phase output up to 2/3 set rated 3-phase kW at 1.0 power factor.

³ 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.

Formulas for calculating full load currents:

Three phase output

$$\frac{\text{kW} \times 1000}{\text{Voltage} \times 1.73 \times 0.8}$$

Single phase output

$$\frac{\text{kW} \times \text{SinglePhaseFactor} \times 1000}{\text{Voltage}}$$

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



EPA Tier 4i Exhaust Emission Compliance Statement C20 D6 Stationary Emergency 60 Hz Diesel Generator Set

Compliance Information:

The engine used in this generator set complies with U.S. EPA New Source Performance Standards for Stationary Emergency engine under the provisions of 40 CFR Part 60 Subpart IIII when tested per ISO 8178 D2.

| | |
|---|--------------------|
| Engine Manufacturer: | Kubota Corporation |
| EPA Certificate Number: | GKBXL02.2FCC-040 |
| Effective Date: | 10/22/2015 |
| Date Issued: | 10/22/2015 |
| EPA Engine Family (Cummins Emissions Family): | GKBXL02.2FCC |

Engine Information:

| | | | |
|--------------------------|-------------------------------------|-------------------------|----------------------------|
| Model: | Kubota V2203M | Bore: | 3.43 in. (87 mm) |
| Engine Nameplate HP: | 36 | Stroke: | 3.64 in. (92 mm) |
| Type: | 4 Cycle, In-line, 4 Cylinder Diesel | Displacement: | 134.1 cu. In. (1.7 liters) |
| Aspiration: | Naturally aspirated | Compression Ratio: | 22:1 |
| Emission Control Device: | | Exhaust Stack Diameter: | 2 in.(51 mm) |

Diesel Fuel Emission Limits

D2 Cycle Exhaust Emissions

| | Grams per BHP-hr | | | Grams per kWm-hr | | |
|---|-------------------|-----------|-----------|-------------------|-----------|-----------|
| | <u>NOx + NMHC</u> | <u>CO</u> | <u>PM</u> | <u>NOx + NMHC</u> | <u>CO</u> | <u>PM</u> |
| Cert Test Results - Diesel Fuel (300-4000 ppm Sulfur) | 3.90 | 0.70 | 0.16 | 5.20 | 1.00 | 0.22 |
| EPA Emissions Limit | 5.60 | 4.10 | 0.22 | 7.50 | 5.50 | 0.30 |
| Cert Test Results - CARB Diesel Fuel (<15 ppm Sulfur) | 3.60 | 0.70 | 0.14 | 4.80 | 1.00 | 0.19 |
| CARB Emissions Limit | 5.60 | 4.10 | 0.22 | 7.50 | 5.50 | 0.30 |

Cert Test Results - The CARB emission values are based on CARB approved calculations for converting EPA (500 ppm) fuel to CARB (15 ppm) fuel.

Test Methods: EPA/CARB emissions recorded per 40CFR89 (ref. ISO8178-1) and weighted at load points prescribed in Subpart E, Appendix A for Constant Speed Engines (ref. ISO8178-4, D2)

Diesel Fuel Specifications: Cetane Number: 40-48. Reference: ASTM D975 No. 2-D.

Reference Conditions: Air Inlet Temperature: 25°C (77°F), Fuel Inlet Temperature: 40°C (104°F). Barometric Pressure: 100 kPa (29.53 in Hg), Humidity: 10.7 g/kg (75 grains H2O/lb) of dry air; required for NOx correction, Restrictions: Intake Restriction set to a maximum allowable limit for clean filter; Exhaust Back Pressure set to a maximum allowable limit.

Tests conducted using alternate test methods, instrumentation, fuel or reference conditions can yield different results.

Engine operation with excessive air intake or exhaust restriction beyond published maximum limits, or with improper maintenance, may result in elevated emission levels.



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

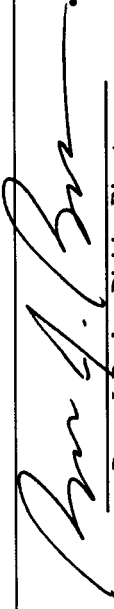
OFFICE OF TRANSPORTATION
AND AIR QUALITY
ANN ARBOR, MICHIGAN 48105

Certificate Issued To: **Kubota Corporation**
(U.S. Manufacturer or Importer)

Certificate Number: **GKBXL02.2FCC-040**

Effective Date:
10/22/2015

Expiration Date:
12/31/2016


Byron J. Bunker, Division Director
Compliance Division

Issue Date:
10/22/2015

Revision Date:
N/A

Model Year: 2016

Manufacturer Type: Original Engine Manufacturer

Engine Family: GKBXL02.2FCC

Mobile/Stationary Indicator: Stationary

Emissions Power Category: 19<=KW<37

Fuel Type: Diesel

After Treatment Devices: No After Treatment Devices Installed

Non-after Treatment Devices: Engine Design Modification

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

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

It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR 104 and authorized in a warrant or court order. Failure to comply with the requirements of such a warrant or court order may lead to revocation or suspension of this certificate for reasons specified in 40 CFR Part 60. It is also a term of this certificate that this certificate may be revoked or suspended or rendered void *ab initio* for other reasons specified in 40 CFR Part 60.

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



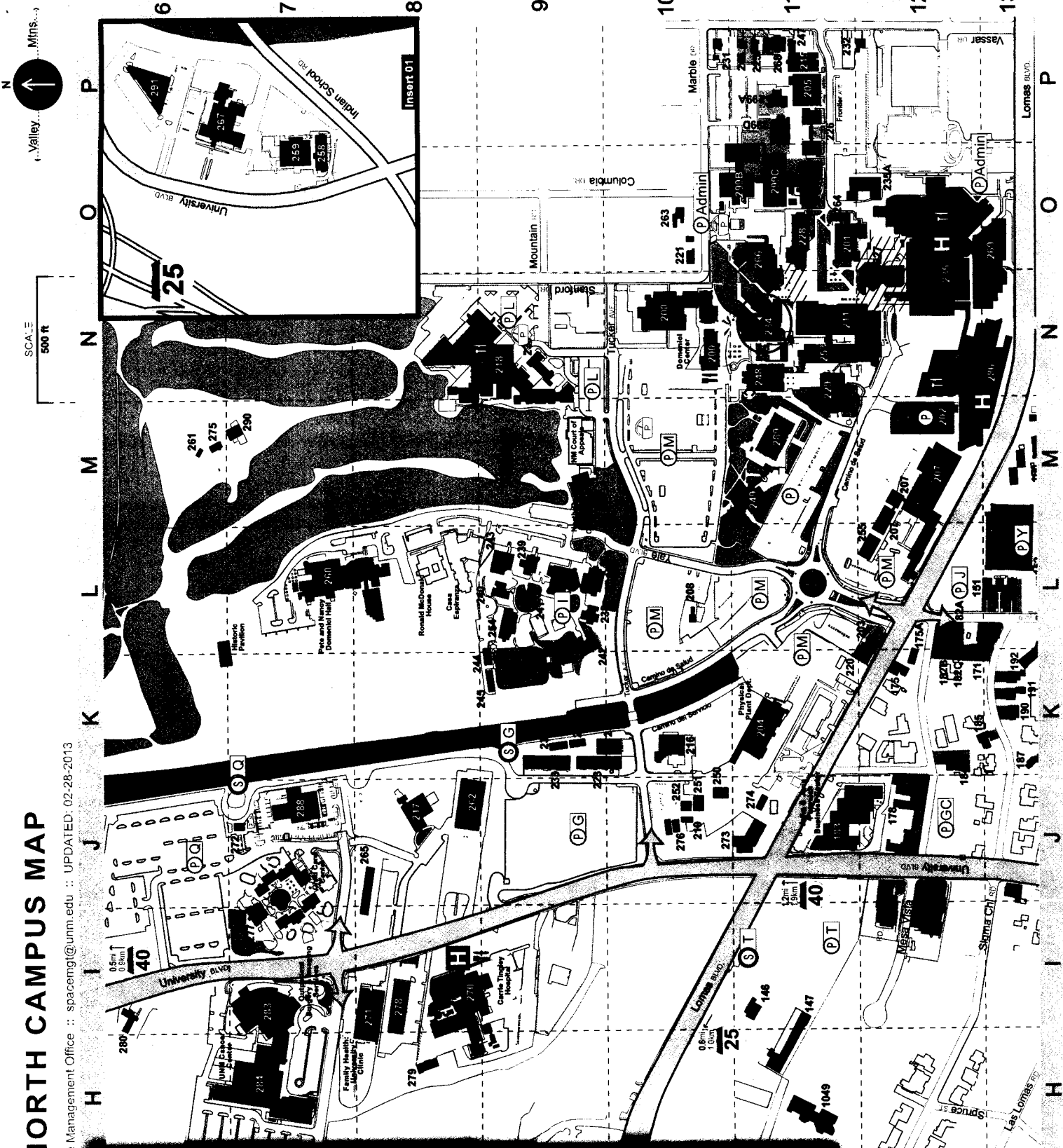
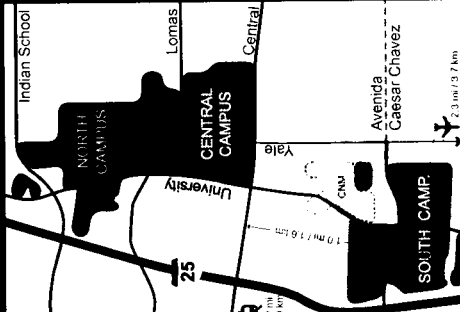
NORTH CAMPUS MAP

Planning & Campus Development :: Space Management Office :: spacemgt@unm.edu :: UPDATED: 02-28-2013

Legend

- Visitor / Info Center
- UNM Building
See Campus Building List for building No.
- Student Housing
- Food Services
- UNM Campus Library
- Hospital
- Parking Structure
- Metered Parking
- Surface Parking Lot
- Permit Type Required
- UNM Parking Shuttle

Campus Index Map



Scale: 500 ft

North Arrow: Valley... Mtns...>

Grid: 6, 7, 8, 9, 10, 11, 12, 13 (horizontal); H, I, J, K, L, M, N, O, P (vertical)



BUILDING NAME GRID

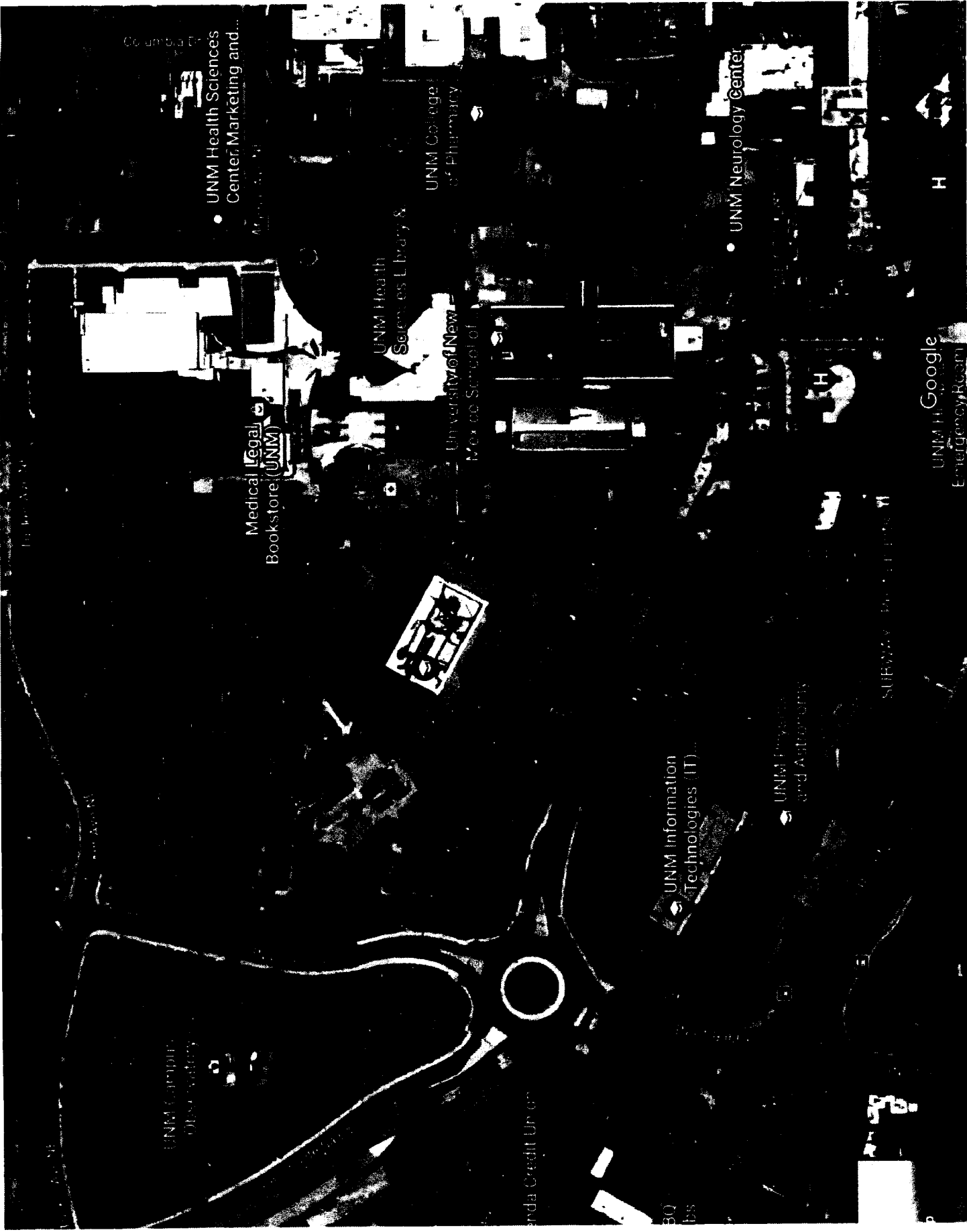
| | | |
|----------|--|---------|
| 216 | AUTOMOTIVE (AUTOMO) | K-10 |
| 286 | BARBARA AND BILL RICHARDSON PAVILION (BRBP) | N-12 |
| 211 | BASIC MEDICAL SCIENCES BUILDING (BMSB) | N-11 |
| 253 | BIO MEDICAL RESEARCH FACILITY (BRF) | N-11 |
| 218 | BRATTON HALL (BRATTN) | N-9 |
| 229 | CANCER RESEARCH FACILITY (CRF) | M-11 |
| 270 | CARRIE TINGLEY HOSPITAL (CTHOSP) | I-8 |
| 279 | CASITA DE MILAGROS | H-8 |
| 280 | CENTER FOR WILDLIFE LAW (WILDLAW) | I-6 |
| 277, 281 | CHILD CARE CENTER | I-7 |
| 254 | CHILDREN'S PSYCHIATRIC CENTER DAY TREATMENT CENTER (CFHDTIC) | L-9 |
| 222 | CHILDREN'S PSYCHIATRIC CENTER OFFICE AND STORAGE | L-8 |
| 236-245 | CHILDREN'S PSYCHIATRIC CENTER (CFH) | L-9 |
| 227 | CLINICAL & TRANSLATIONAL SCIENCE CENTER (CTSC) | N-12 |
| 259 | CONTINUING EDUCATION (CENOB) | INSET 1 |
| 258 | CONTINUING EDUCATION SOUTH (CESOU) | INSET 1 |
| 273 | CONTRACT ARCHEOLOGY (CONTAAR) | J-11 |
| 284 | DIABETES CONTROL AND COMPLICATIONS TRIAL (DIABET) | O-11 |
| 200 | DOMENICI CENTER FOR HEALTH SCIENCES EDUCATION (DOMCTR) | N-10 |
| 271 | FAMILY HEALTH: UNIVERSITY CLINIC (FAMILY) | I-8 |
| 248 | FAMILY PRACTICE CENTER (FPTC) | N-11 |
| 266 | HEALTH SCIENCES AND SERVICES BUILDING (HSSB) | O-11 |
| 234 | HEALTH SCIENCES CENTER LIBRARY AND INFORMATICS CENTER (HSCLIB) | N-11 |
| 232 | HEALTH SCIENCES CENTER UNIVERSITY COUNSEL (HSCUC) | P-12 |
| 221 | HSC PUBLIC AFFAIRS (HSCPA) | O-10 |
| 255 | INFORMATION TECHNOLOGIES NORTH (ITN) | L-12 |
| 289 | INNOVATION, DISCOVERY AND TRAINING COMPLEX (IDTC) | M-11 |
| 235 | INSTITUTE FOR ETHICS (ETHIC) | P-11 |
| 265 | KNME STORE & DEVELOPMENT | J-7 |
| 217 | KNME TV STUDIO (KNMETV) | J-8 |
| 213 | LANDSCAPE STORAGE BUILDING | J-10 |
| 299A-D | MENTAL HEALTH CENTER | P-11 |
| 215 | MULTIDISCIPLINARY RESEARCH FACILITY (MURF) | N-12 |
| 230 | NEW MEXICO LAW CENTER (NMLAW) | N-9 |
| 206 | NORTH GOLF COURSE CLUB HOUSE (NGOLF) | M-9 |
| 249 | NOVITSKI HALL (NOVBI) | M-11 |
| 228 | NURSING & PHARMACY (NURPH) | O-11 |
| 208 | OBSERVATORY (OBSAV) | L-10 |
| 283 | OUTPATIENT SURGERY & IMAGING SERVICES (OSB) | L-7 |
| 260 | PETE AND NANCY DOMENICI HALL (DOMEN) | L-7 |
| 247 | PHARMACY PROGRAMS (PHARM) | P-11 |
| 207 | PHYSICS AND ASTRONOMY (PANDA) | M-12 |
| 203 | PLANNING AND CAMPUS DEVELOPMENT (PCD) | K-12 |
| 231 | PSYCHIATRY (EEG) | P-10 |
| 268 | PSYCHIATRY | P-11 |
| 205 | RESEARCH INCUBATOR BUILDING (RIB) | P-11 |
| 233 | SAFETY AND RISK SERVICES (SRS) (SRLA) | J-9 |
| 201 | SCHOOL OF MEDICINE BUILDING NO.2 (SOM2) | O-11 |
| 204 | SERVICE BUILDING (SPD, OCP) (SERV) | K-11 |
| 285 | STATE TRI SERVICES LAB | F-6 |
| 226 | SURGE BUILDING (SURGE) | O-11 |
| 263 | TELEMEDICINE PROGRAM (TELEME) | O-10 |
| 235 | UNIVERSITY OF NEW MEXICO HOSPITAL (UNMH) | O-12 |
| 262 | UNIVERSITY SERVICES RECORDS, POSTAL SERVICES, ANDS INVENTORY | J-8 |
| 267 | UNIVERSITY SERVICES (SURPLUS PROPERTY) | O-5 |
| 284 | UNM CANCER CENTER | H-7 |
| 288 | UNM DENTAL CLINIC | J-7 |
| 269 | UNM HOSPITAL AMBULATORY CARE CENTER (ACC) | O-13 |

BUILDING NAME GRID

| | | |
|-----|--|---------|
| 246 | UNM MENTAL HEALTH CENTER PROGRAMS (MHCPR) | P-11 |
| 202 | UNMH PARKING STRUCTURE | M-12 |
| 278 | UNMH PATIENT FINANCIAL SERVICES - SATELLITE COFFEE | I-8 |
| 291 | *BUILDING NAME TBD (1650 UNIVERSITY BLVD) | INSET 1 |

POINTS OF INTEREST





Columbia Dr

UNM Health Sciences Center Marketing and...

Medical Legal Bookstore (UNM)

UNM Health Sciences Library &

UNM College of Pharmacy

University of New Mexico School of

UNM Neurology Center

UNM Information Technologies (IT)

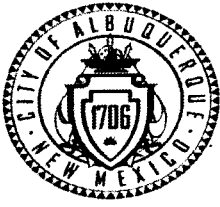
UNM Physics and Astronomy

UNM Health Services Emergency Room

UNM Campus Observatory

UNM Credit Union

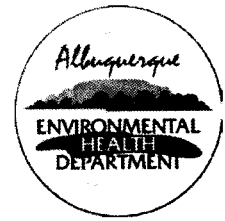
UNM



City of Albuquerque

Environmental Health Department

Air Quality Program



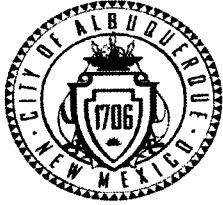
Permit Application Review Fee Instructions

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.

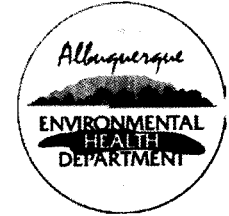
The department will provide a receipt of payment to the applicant. The person delivering or filing a submittal shall attach a copy of the receipt of payment to the submittal as proof of payment. Application review fees shall not be refunded without the written approval of the manager. If a refund is 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



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 | 1800 Roma Ave NE Albuquerque NM 87131 | | |
| Facility Name | Health Sciences Library & Informatics Center (Bldg 234) | | |
| Facility Address | 2400 Roma Ave NE Albuquerque NM 87131 | | |
| Contact Person | Che Shu-Nyamboli | | |
| Contact Person Phone Number | 505-277-2766 | | |
| Are these application review fees for an existing permitted source located within the City of Albuquerque or Bernalillo County? | <input checked="" type="radio"/> Yes | <input type="radio"/> No | |
| If yes, what is the permit number associated with this modification? | Permit # 1968 | | |
| Is this application review fee for a Qualified Small Business as defined in 20.11.2 NMAC? (See Definition of Qualified Small Business on Page 4) | <input type="radio"/> Yes | <input checked="" type="radio"/> No | |

II. STATIONARY SOURCE APPLICATION REVIEW FEES:

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

| Check All That Apply | Stationary Sources | Review Fee | Program Element |
|---|--|---------------------------|-----------------|
| Stationary Source Review Fees (Not Based on Proposed Allowable Emission Rate) | | | |
| | Source Registration required by 20.11.40 NMAC | \$ 549.00 | 2401 |
| | A Stationary Source that requires a permit pursuant to 20.11.41 NMAC or other board regulations and are not subject to the below proposed allowable emission rates | \$ 1,097.00 | 2301 |
| <input checked="" 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 checked="" type="checkbox"/> | Proposed Allowable Emission Rate Equal to or greater than 1 tpy and less than 5 tpy | \$ 823.00 | 2302 |
| | Proposed Allowable Emission Rate Equal to or greater than 5 tpy and less than 25 tpy | \$ 1,646.00 | 2303 |
| | Proposed Allowable Emission Rate Equal to or greater than 25 tpy and less than 50 tpy | \$ 3,291.00 | 2304 |
| | Proposed Allowable Emission Rate Equal to or greater than 50 tpy and less than 75 tpy | \$ 4,937.00 | 2305 |
| | Proposed Allowable Emission Rate Equal to or greater than 75 tpy and less than 100 tpy | \$ 6,582.00 | 2306 |
| | Proposed Allowable Emission Rate Equal to or greater than 100 tpy | \$8,228.00 | 2307 |
| | <i>Not Applicable</i> | <i>See Section Above</i> | |
| Federal Program Review Fees (In addition to the Stationary Source Application Review Fees above) | | | |
| <input checked="" type="checkbox"/> | 40 CFR 60 - "New Source Performance Standards" (NSPS) | \$ 1,097.00 | 2308 |
| | 40 CFR 61 - "Emission Standards for Hazardous Air Pollutants (NESHAPs) | \$ 1,097.00 | 2309 |
| | 40 CFR 63 - (NESHAPs) Promulgated Standards | \$ 1,097.00 | 2310 |
| | 40 CFR 63 - (NESHAPs) Case-by-Case MACT Review | \$ 10,971.00 | 2311 |
| | 20.11.61 NMAC, Prevention of Significant Deterioration (PSD) Permit | \$ 5,485.00 | 2312 |
| | 20.11.60 NMAC, Non-Attainment Area Permit | \$ 5,485.00 | 2313 |
| | <i>Not Applicable</i> | <i>Not Applicable</i> | |

III. MODIFICATION TO EXISTING PERMIT APPLICATION REVIEW FEES:

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

| Check All That Apply | Modifications | Review Fee | Program Element |
|--|---|---------------------------|-----------------|
| Modification Application Review Fees (Not Based on Proposed Allowable Emission Rate) | | | |
| | Proposed modification to an existing stationary source that requires a permit pursuant to 20.11.41 NMAC or other board regulations and are not subject to the below proposed allowable emission rates | \$ 1,097.00 | 2321 |
| ✓ | <i>Not Applicable</i> | <i>See Sections Below</i> | |
| Modification Application Review Fees (Based on the Proposed Allowable Emission Rate for the single highest fee pollutant) | | | |
| | Proposed Allowable Emission Rate Equal to or greater than 1 tpy and less than 5 tpy | \$ 823.00 | 2322 |
| | Proposed Allowable Emission Rate Equal to or greater than 5 tpy and less than 25 tpy | \$ 1,646.00 | 2323 |
| | Proposed Allowable Emission Rate Equal to or greater than 25 tpy and less than 50 tpy | \$ 3,291.00 | 2324 |
| | Proposed Allowable Emission Rate Equal to or greater than 50 tpy and less than 75 tpy | \$ 4,937.00 | 2325 |
| | Proposed Allowable Emission Rate Equal to or greater than 75 tpy and less than 100 tpy | \$ 6,582.00 | 2326 |
| | Proposed Allowable Emission Rate Equal to or greater than 100 tpy | \$ 8,228.00 | 2327 |
| ✓ | <i>Not Applicable</i> | <i>See Section Above</i> | |
| Major Modifications Review Fees (In addition to the Modification Application Review Fees above) | | | |
| | 20.11.60 NMAC, Permitting in Non-Attainment Areas | \$ 5,485.00 | 2333 |
| | 20.11.61 NMAC, Prevention of Significant Deterioration | \$ 5,485.00 | 2334 |
| ✓ | <i>Not Applicable</i> | <i>Not Applicable</i> | |
| Federal Program Review Fees (This section applies only if a Federal Program Review is triggered by the proposed modification) (These fees are in addition to the Modification and Major Modification Application Review Fees above) | | | |
| | 40 CFR 60 - "New Source Performance Standards" (NSPS) | \$ 1,097.00 | 2328 |
| | 40 CFR 61 - "Emission Standards for Hazardous Air Pollutants (NESHAPs) | \$ 1,097.00 | 2329 |
| | 40 CFR 63 - (NESHAPs) Promulgated Standards | \$ 1,097.00 | 2330 |
| | 40 CFR 63 - (NESHAPs) Case-by-Case MACT Review | \$ 10,971.00 | 2331 |
| | 20.11.61 NMAC, Prevention of Significant Deterioration (PSD) Permit | \$ 5,485.00 | 2332 |
| | 20.11.60 NMAC, Non-Attainment Area Permit | \$ 5,485.00 | 2333 |
| ✓ | <i>Not Applicable</i> | <i>Not Applicable</i> | |

IV. ADMINISTRATIVE AND TECHNICAL REVISION APPLICATION REVIEW FEES:

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

| Check One | Revision Type | Review Fee | Program Element |
|-----------|--------------------------|----------------------------------|-----------------|
| | Administrative Revisions | \$ 250.00 | 2340 |
| | Technical Revisions | \$ 500.00 | 2341 |
| ✓ | <i>Not Applicable</i> | <i>See Sections II, III or V</i> | |

V. PORTABLE STATIONARY SOURCE RELOCATION FEES:

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

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

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

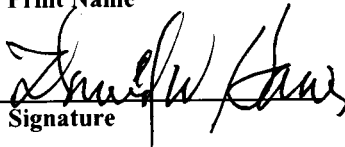
| Section Totals | Review Fee Amount |
|-------------------------------------|-------------------|
| Section II Total | \$ 1920.00 |
| Section III Total | \$ |
| Section IV Total | \$ |
| Section V Total | \$ |
| Total Application Review Fee | \$ 1920.00 |

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

Signed this 19 day of Dec. 2017

David W. Harris
Print Name

EVP Administration, COO, CFO
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.