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1720 Walton Road, Blue Bell, PA 19422 610-828-3078 Fax 610-828-7842

October 2, 2017

E-MAIL & EXPRESS MAIL

*FedEx No. 8119 9125 9109*

Ms. Regan Eyerman  
Air Quality Program  
Albuquerque Environmental Health Department  
P.O. Box 1293  
Albuquerque, NM 87103

Subject: Air Permit Modification Application  
Construction Permit No. 1097-M2  
OSO BioPharmaceuticals Manufacturing, LLC  
Albuquerque, New Mexico  
IES Project No. EV170881.01

Dear Ms. Eyerman:

On behalf of OSO BioPharmaceuticals Manufacturing, LLC (Oso Bio), IES Engineers (IES) is pleased to submit the enclosed permit modification application for its facility in the City of Albuquerque, New Mexico. This application is to install one 600-kW diesel-fired standby/emergency generator and one 3.4 MMBtu/hr natural-gas fired boiler.

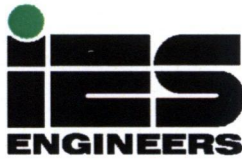
The facility is currently operating under Construction Permit No. 1097-M2, which was issued on January 11, 2013.

A pre-permit application meeting regarding this application was held with Ms. Regan Eyerman of the Albuquerque Environmental Health Department (Department) on August 14, 2017. This application incorporates the Department's comments from this meeting.

The documents that are enclosed are marked in Permit Application checklist that is attached. We are enclosing a check in the amount of \$1,646, made payable to the "City of Albuquerque Fund 242" for the Department's processing of this application.

Please note that Oso Bio has included preliminary equipment manufacturer data but has not yet finalized the equipment selection for this project. We will provide the Department with the actual manufacturers and model numbers upon the final selection of the vendors.

Oso Bio understands that air dispersion modeling is required for facility modification to demonstrate the impact of the new sources on existing plant emissions. Oso Bio requests waiving the air dispersion modeling for the small 3.4 MMBtu/hr boiler since the emissions are very small. The standby/emergency generator is exempted from the air dispersion modeling



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Ms. Regan Eyerman  
October 2, 2017  
Page 2

requirements. We are making this request based on the guidance provided by Ms. Regan Eyerman of the Department during conference call on August 14, 2017.

During the Department's technical review, we will be happy to answer any questions or provide additional information in a timely manner. Should you have any questions concerning this request, please do not hesitate to contact me or Mr. Matthew Lane of Oso Bio at (505) 923-1556.

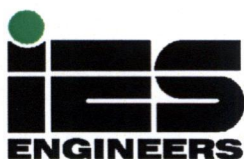
Very truly yours,

*Purva Prabhu* /e/

Purva Prabhu  
Senior Project Engineer

Enclosure

cc: M. Lane, Oso Bio  
D. Sheehan, Oso Bio  
J. Dumas, IPS  
M. Fitzpatrick, IES  
G. Petroka, IES



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1720 Walton Road, Blue Bell, PA 19422 610-828-3078 Fax 610-828-7842

**PERMIT MODIFICATION APPLICATION TO INSTALL A DIESEL-FIRED  
STANDBY/EMERGENCY GENERATOR AND A NATURAL-GAS FIRED BOILER**

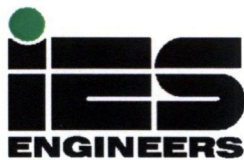
**PREPARED FOR:**

**OSO BIOPHARMACEUTICALS MANUFACTURING, LLC  
4401 ALEXANDER BLVD. NE  
ALBUQUERQUE, NEW MEXICO 87107**

**SUBMITTED TO:**

**AIR QUALITY PROGRAM  
ALBUQUERQUE ENVIRONMENTAL HEALTH DEPARTMENT  
P.O. BOX 1293  
ALBUQUERQUE, NEW MEXICO 87103**

**IES PROJECT NO. EV170881.01  
OCTOBER 2017**

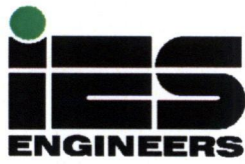


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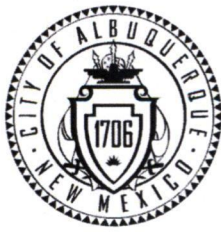
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## **PERMIT APPLICATION CHECKLIST**



# City of Albuquerque

## Environmental Health Department

### Air Quality Program



### Permit Application Checklist

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

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

All applicants shall:

1. ☐ Fill out and submit the *Pre-permit Application Meeting Request* form
  - a. ✓ Attach a copy to this application
2. ☐ Attend the pre-permit application meeting
  - a. ✓ Attach a copy of the completed *Pre-permit Application Meeting Checklist* to this application
3. ☐ Provide public notice to the appropriate parties
  - a. ✓ Attach a copy of the completed *Notice of Intent to Construct* form to this form
    - i. Neighborhood Association(s): **Please see Attachment 6 - Memo from Ms. Melissa Padilla dated August 18, 2017.**
    - ii. Coalition(s): **Please see Attachment 6 - Memo from Ms. Melissa Padilla dated August 18, 2017.**
  - 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. – **Check of the fee amount has been enclosed with the application.**

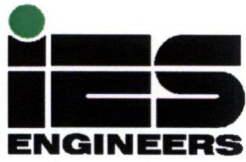
- C. ✓ contain the applicant's name, address, and the names and addresses of all other owners or operators of the emission sources.
- D. ✓ contain the name, address, and phone number of a person to contact regarding questions about the facility.
- E. ✓ indicate the date the application was completed 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. N/A
- 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. N/A



- 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). **N/A**
- 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. **Requested waiver for boiler. See cover letter. Generator exempt.**
- X. ✓ contain a preliminary operational plan defining the measures to be taken to mitigate source emissions during malfunction, startup, or shutdown. **Equipment will be operated and maintained in accordance with manufacturer's specifications. In the event of malfunction, equipment will be shut down, as soon as practicable.**
- 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. **Process flow diagrams are provided in Attachment 2. Emission calculations are provided in Attachment 3. There are no air pollution control devices.**



- AA. ✓ contain description of the equipment or methods proposed by the applicant to be used for emission measurement. **Testing will be conducted if requested by the City of Albuquerque.**
- 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**



# Pre-Permit Application Meeting Request Form

## Air Quality Program- Environmental Health Department

Please complete appropriate boxes and email to [aqd@cabq.gov](mailto:aqd@cabq.gov) or mail to:

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

Name:	OSO BioPharmaceuticals Manufacturing, LLC
Company/Organization:	OSO BioPharmaceuticals Manufacturing, LLC
Point of Contact: Purva Prabhu (phone number and email): Preferred form of contact (circle one): Phone <u>E-mail</u>	Phone: 610-828-3078 Email: pprabhu@iesengineers.com
Preferred meeting date/times:	Date: 8/14/2017 Time: 1:00 pm Pacific Time
Description of Project:	To install one 600-kW diesel-fired emergency generator and one 3.4 MMBtu/hr natural-gas fired boiler.

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



## **PRE-PERMIT APPLICATION MEETING CHECKLIST**





# City of Albuquerque

## Environmental Health Department

### Air Quality Program



### Pre-Permit Application Meeting Checklist

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

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

Name: OSO BioPharmaceuticals Manufacturing, LLC  
Contact: Mr. Matthew Lane Phone Number: 505-923-1556, Matthew.Lane@amriglobal.com  
Company/Business: OSO BioPharmaceuticals Manufacturing, LLC

- ☐ 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: Department provided AP-42 emission factors for boiler and form for emergency diesel fired engines for standby/emergency generator.
- ☐ Air Dispersion modeling guidelines and protocol  
Notes: Standby/Emergency generator is exempted from the air dispersion modeling requirements. A request to waive the air dispersion modeling for the small 3.4 MMbtu/hr boiler needs to be included in the cover letter of the application.
- ☐ Department Policies  
Notes: Standby/Emergency generator is allowed to operate for 500 hrs/yr as per state regulations.
- ☐ Air quality permit fees  
Notes: The applicable fee for the permit application is \$1,646 since it is a modification to a existing permit and the NO<sub>x</sub> allowable emission rate is equal to or greater than 5 tpy and less than 25 tpy.

☐ 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: The notice needs to be sent to the neighborhood associations and coalitions. The Department will provide the list of neighborhood associations and coalitions.

▪ ☐ Posting and maintaining a weather-proof sign

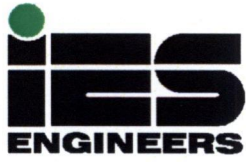
Notes:

Department will provide the weather-proof sign. The facility will pick it up from the Air Quality Program office.

☐ Regulatory timelines

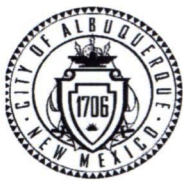
- 30 days to rule application complete
- 90 days to issue completed permit
- Additional time allotted if there is significant public interest and/or a significant air quality issue
  - Public Information Hearing
  - Complex permitting action

Notes:



## **NOTICE OF INTENT TO CONSTRUCT FORM**





# 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: **OSO BioPharmaceuticals Manufacturing, LLC**  
**4401 Alexander Blvd. NE, Albuquerque, New Mexico 87107**

Owner / Operator's Name and Address: **OSO BioPharmaceuticals Manufacturing, LLC**  
**4401 Alexander Blvd. NE, Albuquerque, New Mexico 87107**

Actual or Estimated Date the Application will be submitted to the Department: **October 2, 2017**

Exact Location of the Source or Proposed Source: **4401 Alexander Blvd. NE, Albuquerque, New Mexico 87107**

Description of the Source: **One 600-kW diesel-fired standby/emergency generator and one 3.4 MMBtu/hr natural gas-fired boiler.**

Nature of the Business: **OSO BioPharmaceuticals Manufacturing, LLC is a contract manufacturing organization (CMO) that specializes in delivering injectable sterile liquid, suspension, and lyophilized biologic and pharmaceutical products.**

Process or Change for which the permit is requested: **Installation of one 600-kW diesel-fired standby/emergency generator and one 3.4 MMBtu/hr natural gas-fired boiler.**

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

## Net Changes In Emissions

### Initial Construction Permit

(Only for permit Modifications or Technical Revisions)

	Pounds Per Hour (lbs/hr)	Tons Per Year (tpy)		lbs/hr	tpy	Estimated Total TPY
CO	4.65	1.16	CO	+ 5.46	+ 2.53	3.69
NOx	12.3	3.07	NOx	+ 9.03	+ 3.63	6.70
NOx + NMHC	13.08	3.26	NOx + NMHC	+ 9.91	+ 3.93	7.19
VOC <sup>1</sup>	0.78+1.28=2.06	0.19+4.0=4.19	VOC	+ 0.88	+ 0.30	4.49
SO <sub>2</sub>	0.72	0.18	SO <sub>2</sub>	+ 0.012	+ 0.012	0.192
TSP	0.8	0.21	TSP	+ 0.33	+ 0.19	0.40
PM10	0.8	0.21	PM10	+ 0.33	+ 0.19	0.40
PM2.5	0.8	0.21	PM2.5	+ 0.33	+ 0.19	0.40
VHAP			VHAP	+/-	+/-	

<sup>1</sup> Limit on VOC emissions from solvent and chemical usage in existing permit is 4.0 tpy. Annual hours of operations are assumed to be 6,240 hrs/yr to estimate lb/hr emissions.



Maximum Operating Schedule: **Boiler 8,760 hrs/hr, Standby/Emergency Generator 500 hrs/yr**

Normal Operating Schedule: **Boiler 8,760 hrs/hr, Standby/Emergency Generator 100 hrs/yr**

Current Contact Information for Comments and Inquires:

Name: **Mr. Matthew Lane**

Address: **4401 Alexander Blvd, NE, Albuquerque, NM 87107**

Phone Number: **505-923-1556**

E-Mail Address: **Matthew.Lane@amriglobal.com**

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

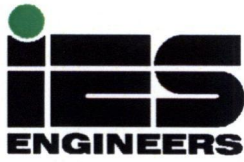
PO Box 1293

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.



## **PUBLIC SIGN NOTICE GUIDELINE FORM**



# City of Albuquerque

## Environmental Health Department

### Air Quality Program



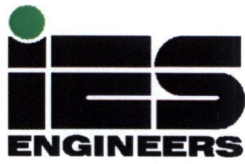
### Public Notice Sign Guidelines

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.

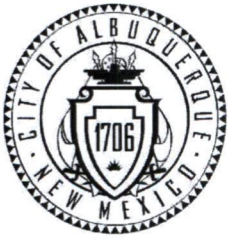
Name: OSO BioPharmaceuticals Manufacturing, LLC  
Contact: Mr. Matthew Lane, Phone Number: 505-923-1556, Matthew.Lane@amriglobal.com  
Company/Business: OSO BioPharmaceuticals Manufacturing, LLC

- ☐ ☒ 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:



## **AIR QUALITY PERMIT - SHORT FORM**





# 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:  
**3<sup>rd</sup> Floor, Suite 3023 - One Civic Plaza NW, Albuquerque, New Mexico 87103**  
**(505) 768 - 1972 aqd@cabq.gov (505) 768 - 1977 (Fax)**



## 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: 10 / 2 / 17**

1. Company Name **OSO BioPharmaceuticals Manufacturing, LLC** 2. Street Address **4401 Alexander Blvd. NE** Zip **87107**  
3. Company City **Albuquerque** 4. Company State **New Mexico** 5. Company Phone **505-923-1500** 6. Company Fax **505-923-1611**  
7. Company Mailing Address: **4401 Alexander Blvd. NE, Albuquerque, New Mexico** Zip **87107**  
8. Company Contact and Title: **Mr. Matthew Lane, EHS Manager** 9. Phone **505-923-1556** 10. E-mail **Matthew.Lane@amriglobal.com**

**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] - N/A per pre-application meeting**

1. Facility Name **OSO BioPharmaceuticals Manufacturing, LLC** 2. Street Address **4401 Alexander Blvd. NE**  
3. City **Albuquerque** 4. State **New Mexico** 5. Facility Phone **505-923-1500** 6. Facility E-mail **Matthew.Lane@amriglobal.com**  
7. Facility Mailing Address (Local) **4401 Alexander Blvd. NE, Albuquerque, New Mexico** Zip **87107**  
8. Latitude - Longitude or UTM Coordinates of Facility **Latitude 35° 7 54.25 Longitude -106° 37 10.21**  
9. Facility Contact and Title **Mr. Matthew Lane, EHS Manager** 10. Phone **505-923-1556** 11. E-mail **Matthew.Lane@amriglobal.com**

**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) **OSO BioPharmaceuticals Manufacturing, LLC is a contract manufacturing organization (CMO) that specializes in delivering injectable sterile liquid, suspension, and lyophilized biologic and pharmaceutical products.**  
2. Standard Industrial Classification (SIC 4 digit #) **2834** 3. North American Industry Classification System (NAICS Code #) **325412**  
4. Is facility currently operating in Bernalillo County. **Yes** If yes, date of original construction **~ 2002 (original lease)** 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 **24** hrs/day **7** days/wk **4** wks/mo **12** mos/yr 11. Business hrs **8.00** am/pm to **5.00** am/pm  
12. Will there be special or seasonal operating times other than shown above **Yes** If yes, explain **Operating hours for standby/emergency generator will be 500 hours per year.**

13. Raw materials processed Fuel 14. Saleable item(s) produced N/A

**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 #: 1097-M2    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 <sup>3</sup> ;lbs; tons;yd <sup>3</sup> ;etc.)	Fuel Type
Example 1. Generator	Unigen	B-2500	A56732195C-222	7/96	7/97	N/A	250 Hp - HR. <del>YR.</del>	Diesel
Example 2. Spray Gun	HVLP Systems	Spray-N-Stay 1100	k26-56-95	01/97	11/97	N/A	0.25 gal. - HR. <del>YR.</del>	Electric Compressor
1. Standby/Emergency Generator	Generac (or Equivalent)	To Be Determined	To Be Determined	To Be Determined	N/A	N/A	600 kW HR. <del>YR.</del>	Diesel
2. Boiler	Cleaver Brooks(or equivalent)	To Be Determined	To Be Determined	To Be Determined	N/A	N/A	3.4 MMBtu/HR. <del>YR.</del>	Natural Gas
3.							HR. YR.	

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

**EXEMPTED SOURCES AND EXEMPTED ACTIVITIES**

**(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 <sup>3</sup> ;lbs; tons;yd <sup>3</sup> ;etc.)	Fuel Type
Example 1. Generator	Unigen	B-2500	A56732195C-222	7/96	7/97	N/A	250 Hp - HR. <del>YR.</del>	Diesel
Example 2. Spray Gun	HVLP Systems	Spray-N-Stay 1100	k26-56-95	01/97	11/97	N/A	0.25 gal. - HR. <del>YR.</del>	Electric Compressor
1. N/A							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)	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. 5.18 lbs/hr	8.7 lbs/hr	0.86 lbs/hr	0.01 lbs/hr	0.3 lbs/hr	NSPS Subpart IIII for NO <sub>x</sub> , CO, VOC, and PM AP-42, Chapter 3.4 for SO <sub>2</sub>
	1a. 22.69 tons/yr	38.11 tons/yr	3.77 tons/yr	0.044 tons/yr	1.31 tons/yr	
2. Boiler	2. 0.28 lbs/hr	0.33 lbs/hr	0.018 lbs/hr	0.002 lbs/hr	0.025 lbs/hr	AP-42, Chapter 1.4
	2a. 1.23 tons/yr	1.45 tons/yr	0.08 tons/yr	0.009 tons/yr	0.11 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)	Nonmethane Hydrocarbons NMHC (VOCs)	Oxides of Sulfur (SOx)	Total Suspended Particulate Matter (TSP)	Control Equipment	% Efficiency
<b>1. Example Generator</b>	<b>1. 9.1 lbs/hr</b>	<b>27.7 lbs/hr</b>	<b>1.3 lbs/hr</b>	<b>0.5 lbs/hr</b>	<b>2.0 lbs/hr</b>	<b>Operating Hours</b>	<b>N/A</b>
	<b>1a. 18.2 tons/yr</b>	<b>55.4 tons/yr</b>	<b>2.6 tons/yr</b>	<b>1.0 tons/yr</b>	<b>4.0 tons/yr</b>		
<b>1. Generator</b>	<b>1. 5.18 lbs/hr</b>	<b>8.70 lbs/hr</b>	<b>0.86 lbs/hr</b>	<b>0.01 lbs/hr</b>	<b>0.30 lbs/hr</b>	<b>Operating Hours (500 hrs/yr)</b>	<b>N/A</b>
	<b>1a. 1.30 tons/yr</b>	<b>2.18 tons/yr</b>	<b>0.22 tons/yr</b>	<b>0.003 tons/yr</b>	<b>0.08 tons/yr</b>		
<b>2.</b>	<b>2. lbs/hr</b>	<b>lbs/hr</b>	<b>lbs/hr</b>	<b>lbs/hr</b>	<b>lbs/hr</b>		
	<b>2a. tons/yr</b>	<b>tons/yr</b>	<b>tons/yr</b>	<b>tons/yr</b>	<b>tons/yr</b>		
<b>3.</b>	<b>3. lbs/hr</b>	<b>lbs/hr</b>	<b>lbs/hr</b>	<b>lbs/hr</b>	<b>lbs/hr</b>		
	<b>3a. tons/yr</b>	<b>tons/yr</b>	<b>tons/yr</b>	<b>tons/yr</b>	<b>tons/yr</b>		

1. Basis for Control Equipment % Efficiency (Manufacturers data, Field Observation/Test, AP-42, etc.)

Submit information for each unit as an attachment N/A

2. Explain and give estimated amounts of any Fugitive Emissions associated with facility processes N/A

**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. N/A					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. <del>YR.</del>	500 gal. - HR. <del>YR.</del>	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. <del>YR.</del>	N/A HR. <del>YR.</del>	N/A Psia	N/A	N/A	N/A
1. Tank	Diesel Fuel	~ 1,001 gal.	Above Ground	Welded/black	N/A	~ 20,765 gal. per HR. <del>YR.</del>	~ 41.53 gal./ HR. <del>YR.</del>	0.0090 Psia	N/A	N/A	N/A
2.						HR. <del>YR.</del>	HR. <del>YR.</del>	Psia			
3.						HR. <del>YR.</del>	HR. <del>YR.</del>	Psia			

1. Basis for Loading/Offloading Rate (Manufacturers data, Field Observation/Test, etc.) See Attachment 3- Emission Calculations  
Submit information for each unit as an attachment.

2. Basis for Control Equipment % Efficiency (Manufacturers data, Field Observation/Test, AP-42, etc.) N/A  
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 <sub>2</sub> , NMHC	N/A	N/A	18 ft. - H 0.8 ft. - D	225°F	6,000 ft <sup>3</sup> /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 <sup>3</sup> /min - V Exit - horizontal	N/A	N/A
1. Generator	CO, NOx, TSP, SO <sub>2</sub> , NMHC	N/A	N/A	0.67 ft. - D No Stack (estimated values)	~ 1,029°F	~ 4,980 ft <sup>3</sup> /min - Flow ~ 14,274 ft/min- Velocity Exit-Upward	N/A	N/A
2. Boiler	CO, NOx, TSP, SO <sub>2</sub> , NMHC	N/A	N/A	1.0 ft. - D (estimated value) Stack Ht. - not available	~ 373°F	~ 1,044 ft <sup>3</sup> /min - Flow ~ 1,330 ft/min- Velocity Exit-Upward	N/A	N/A
3.								

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

### 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 29 day of September, 20 17

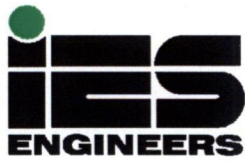
David Lee

Print Name

General Manager

Print Title

[Signature]  
Signature



## **PERMIT APPLICATION REVIEW FEE CHECKLIST**





# 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, 3<sup>rd</sup> 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	OSO BioPharmaceuticals Manufacturing, LLC		
Company Address	4401 Alexander Blvd. NE, Albuquerque, New Mexico, 87107		
Facility Name	OSO BioPharmaceuticals Manufacturing, LLC		
Facility Address	4401 Alexander Blvd. NE, Albuquerque, New Mexico, 87107		
Contact Person	Mr. Matthew Lane		
Contact Person Phone Number	505-923-1556		
Are these application review fees for an existing permitted source located within the City of Albuquerque or Bernalillo County?	Yes	No	
If yes, what is the permit number associated with this modification?	Permit # 1097-M1-RV2		
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	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
	Not Applicable	See Sections Below	
Stationary Source Review Fees (Based on the Proposed Allowable Emission Rate for the single highest fee pollutant)			
	Proposed Allowable Emission Rate Equal to or greater than 1 tpy and less than 5 tpy	\$ 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
	Not Applicable	See Section Above	
Federal Program Review Fees (In addition to the Stationary Source Application Review Fees above)			
	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
	Not Applicable	Not Applicable	



### 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
<b>Modification Application Review Fees (Not Based on Proposed Allowable Emission Rate)</b>			
	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>	
<b>Modification Application Review Fees (Based on the Proposed Allowable Emission Rate for the single highest fee pollutant)</b>			
	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>	
<b>Major Modifications Review Fees (In addition to the Modification Application Review Fees above)</b>			
	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>	
<b>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)</b>			
	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	\$
Section III Total	\$ 1,646
Section IV Total	\$
Section V Total	\$
<b>Total Application Review Fee</b>	<b>\$ 1,646</b>

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 29 day of September 2017

David Lee  
Print Name

General Manager  
Print Title

  
Signature

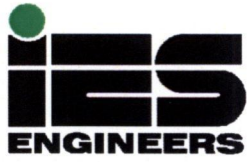
**Definition of Qualified Small Business** as defined in 20.11.2 NMAC:

"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.





**ATTACHMENT 1**

**PROJECT BACKGROUND**



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## ATTACHMENT 1 PROJECT BACKGROUND

OSO BioPharmaceuticals Manufacturing, LLC (Oso Bio) is a contract manufacturing organization that specializes in delivering injectable sterile liquid, suspension, and lyophilized biologic and pharmaceutical products. Oso Bio offers clients significant knowledge and experience in late-phase clinical products and successfully taking them to commercialization.

The facility is currently operating under Construction Permit No. 1097-M2, which was issued on January 11, 2013.

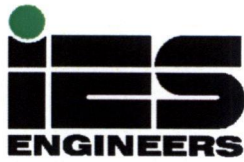
This modification application is to install one 600-kW diesel-fired standby/emergency generator and one 3.4 MMBtu/hr natural gas-fired boiler. Boiler will be used for process and comfort heating. The emergency generator will be used for emergency purposes, maintenance checks and readiness testing, and for non-emergency purposes up to fifty (50) hours per year. The generator is subject to the requirements of NSPS Subpart IIII. Under NSPS Subpart IIII, the emergency generator is allowed to operate for non-emergency purposes up to fifty (50) hours per year but such operation is to be counted towards the 100 hour limit for maintenance and readiness testing. The fifty (50) hours per year cannot be used for peak shaving or to generate income by supplying power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

Oso Bio is also proposing to modify the existing permit condition I.1.h) i. as follows to allow the existing emergency generators (Unit # 1 and Unit # 2) to operate for up to 50 hours per year for non-emergency purposes. This is allowed under the federal engine regulation MACT Subpart ZZZZ. The updated permit condition is as follows:

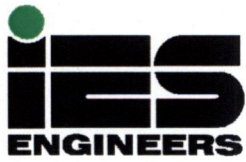
Units #1 and #2 shall each be restricted to a maximum of 500 hours of operation based on a 12-month rolling total, and shall only be operated during loss of commercial power, ***in non-emergency situations for up to 50 hours per year***, and as required by the manufacturer for engine exercising/maintenance. ***Any operation for non-emergency situations counts as part of the 100 hours per calendar year allowed for maintenance and testing.*** The unit(s) shall not be operated to generate power for peak shaving or sale to third parties, ~~but only to provide emergency power for the facility.~~ Routine or non-emergency operation of the unit ***above 50 hours per year*** or operation for any other purposes, except as stated above, shall be a violation of this permit.

Emission calculations for the standby/emergency generator are performed using 500 hours per year of operation and for boiler 8,760 hours per year are used. The calculations are provided in Attachment 3.

Please note that Oso Bio has included preliminary equipment manufacturer data and has not yet finalized the equipment selection for this project. We will provide the Department with the actual



manufacturers and model numbers upon the final selection of the vendors. The preliminary manufacturer data is included in the application form.



**ATTACHMENT 2**  
**PROCESS FLOW DIAGRAM**



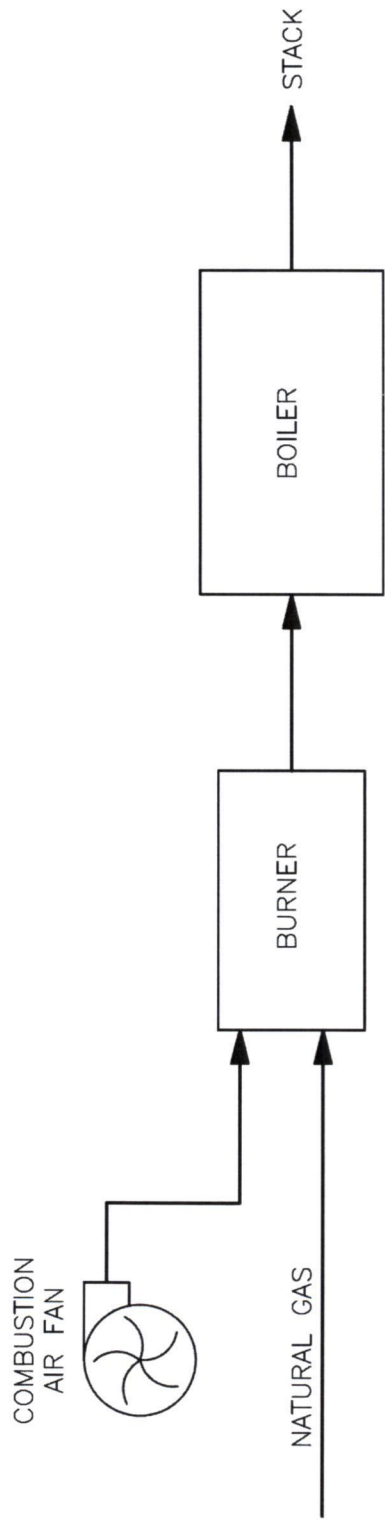
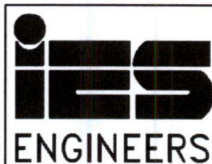
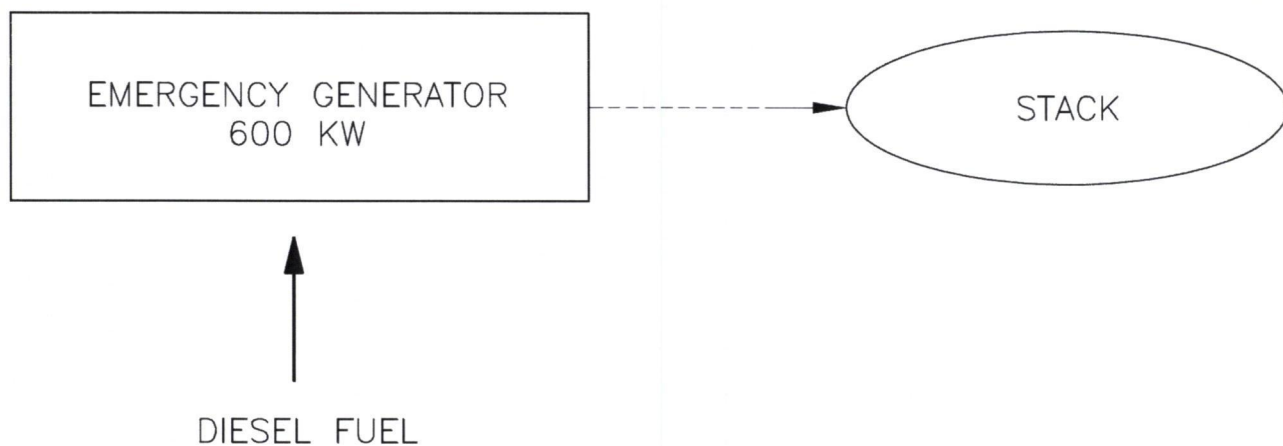


FIGURE 1

OSO BIOPHARMACEUTICALS MANUFACTURING, LLC  
ALBUQUERQUE, NM

PROCESS FLOW DIAGRAM (BOILER)

<b>ies</b> ENGINEERS	Date:	07/20/17
	File:	EV170881.01



Date: 07/20/17 File: EV170881.01

FIGURE 2

PROCESS FLOW DIAGRAM  
(GENERATOR)

OSO BIOPHARMACEUTICALS MANUFACTURING, LLC  
ALBUQUERQUE, NM

**ATTACHMENT 3**  
**EMISSIONS CALCULATIONS**



**OSO BioPharmaceuticals Manufacturing, LLC**  
**Albuquerque, NM**

**Potential to Emit Emission Calculations - Natural Gas-Fired Boiler**

Total Maximum Heat Input Rating	SCF/hr	3,348.00
Total Maximum Heat Input Rating	MMBtu/hr	3.4
Heating Value	Btu/scf	1020
Potential Operating Hours	hr/yr	8760
Annual Fuel Usage	MMscf/yr	29.33
Hourly Fuel usage	MMscf/hr	0.0033

**AP-42 Emission Factors (lb/MMscf)<sup>(1)</sup>**

Particulate matter	7.60
Sulfur Dioxide	0.60
Oxides of Nitrogen	100.00
Carbon Monoxide	84.00
Nonmethane Volatile Organic Compounds	5.50

<b><u>Annual Emissions (Potential)<sup>(2)</sup></u></b>	<b>Emissions</b>	
	lb/hr	lb/yr ton/yr
Particulate matter	0.025	219 0.11
Sulfur Dioxide	0.002	18 0.009
Oxides of Nitrogen	0.33	2,891 1.45
Carbon Monoxide	0.28	2,453 1.23
Volatile Organic Compounds	0.018	158 0.08

**Notes:**

<sup>(1)</sup> Emission Factors for Natural Gas combustion are based on AP-42, "Compilation of Air Pollutant Emission Factors" Volume 1, Chapter 1.4, 7/98 update.

<sup>(2)</sup> Potential annual emissions are based on an operating schedule of 8,760 hr/yr.

**OSO BioPharmaceuticals Manufacturing, LLC**  
**Albuquerque, NM**  
**Emission Calculations - Emergency Generator (Diesel Fuel Fired)**

<b>Generator Output</b>	<b>600</b>	<b>KW</b>
<b>Engine Output</b>	<b>903</b>	<b>Hp</b>
<b>Operating Hours Per Year (Uncontrolled)</b>	<b>8,760</b>	<b>Hours</b>
<b>Operating Hours Per Year (Controlled)</b>	<b>500</b>	<b>Hours</b>
<b>Fuel Consumption Rate</b>	<b>5.69</b>	<b>mmbtu/hr</b>
<b>Heating Value</b>	<b>137,000</b>	<b>btu/gal</b>
<b>Diesel Fuel Input Rate</b>	<b>41.53</b>	<b>gallons/hr</b>
<b>Sulfur Content</b>	<b>0.0015</b>	<b>%</b>
<b>KW</b>	<b>1.34</b>	<b>Hp</b>
<b>Efficiency</b>	<b>89</b>	<b>%</b>
<b>KW</b>	<b>56.92</b>	<b>btu/min</b>
<b>Annual Fuel Usage</b>	<b>20765</b>	<b>gal/yr</b>

	Emission Limit from NSPS IIII (g/hp-hr)	Uncontrolled Emissions		Controlled Emissions	
		lb/hr	ton/yr	lb/hr	ton/yr
NMHC + NO <sub>x</sub> <sup>(1)</sup>	4.8				
NO <sub>x</sub>	4.37	8.70	38.11	8.70	2.18
CO	2.60	5.18	22.69	5.18	1.30
VOC	0.43	0.86	3.77	0.86	0.22
PM	0.15	0.30	1.31	0.30	0.08

	Emission Factor (lb/hp-hr)	Uncontrolled Emissions		Controlled Emissions	
		lb/hr	ton/yr	lb/hr	ton/yr
SO <sub>2</sub> <sup>(2)</sup>	1.21E-05	0.01	0.044	0.01	0.003

**Notes:**

<sup>(1)</sup>NO<sub>x</sub> emissions are assumed to be 91% and NMHC (VOC) emissions are assumed to be 9%.

<sup>(2)</sup>SO<sub>x</sub> emissions are calculated using EPA Emission factor (AP-42 Table 3.4-1), Emission factor = 8.09 E-03S1, where S1 is % sulfur in fuel oil, 8.09E-03 \* 0.0015 = 1.21 E-05

<sup>(3)</sup>The facility needs to use diesel fuel that has a maximum sulfur content of 15 ppm (0.0015% by weight) and either a minimum cetane index of 40 or maximum aromatic content of 35 volume percent.

**OSO BioPharmaceuticals Manufacturing, LLC**  
**Albuquerque, NM**  
**Total Emissions**

	lb/hr	tpy
<b>NO<sub>x</sub></b>	9.03	3.63
<b>CO</b>	5.46	2.53
<b>VOC</b>	0.88	0.30
<b>PM</b>	0.33	0.19
<b>SO<sub>2</sub></b>	0.012	0.012



**ATTACHMENT 4**  
**REGULATORY REVIEW**



#### ATTACHMENT 4 REGULATORY REVIEW

Oso Bio is required to comply with the regulations promulgated by the U.S. Environmental Protection Agency (EPA) with respect to emissions of air contaminants. This attachment evaluates the applicability of federal air quality regulations to the new generator and boiler.

##### National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (40 CFR Part 63, Subpart ZZZZ)

This rule applies to owners and operators of all stationary reciprocating internal combustion engines (RICE) irrespective of the date the engine is constructed. Under Subpart ZZZZ [§ 63.6590(a)(2)(iii)], the 600-KW emergency generator is considered a “new, emergency, compression ignition engine at an area source” since its construction commenced after June 12, 2006. The engine meets the requirements of Subpart ZZZZ by meeting the requirements of the New Source Performance Standard (NSPS) for Compression Ignition Engines (40 CFR 60, Subpart IIII). There are no further requirements for this engine under Subpart ZZZZ [§ 63.6590(c)(1)].

##### New Source Performance Standard for Stationary Compression Ignition Internal Combustion Engines (40 CFR Part 60, Subpart IIII) -

This rule applies to owners and operators of stationary compression ignition (diesel-fired) engines for which construction commenced after July 11, 2005, and which are manufactured after April 1, 2006. The new 600-KW emergency generator is diesel-fired, commenced construction after July 11, 2005, and was manufactured after April 1, 2006. Hence, this generator is subject to the requirements of NSPS Subpart IIII. Oso Bio will purchase a certified engine complying with the requirements of NSPS Subpart IIII.

##### National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources (40 CFR 63 Subpart JJJJJ)


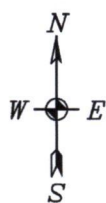
This rule applies to an industrial, commercial, or institutional boiler as defined in §63.11237 that is located at, or is part of, an area source of hazardous air pollutants (HAPs). The 3.4 MMBtu/hr boiler fires natural gas only and hence it will not be subject to the Area Source Boiler MACT requirements, codified in 40 CFR Part 63, Subpart JJJJJ [§ 63.11195(e)].



**ATTACHMENT 5**

**7 ½-MINUTE SERIES U.S.G.S. SITE LOCATION MAP AND  
AERIAL PHOTOGRAPH**





Date:	File:
08-21-17	EV170881.01

OSO BIOPHARMACEUTICALS MFG.  
4401 ALEXANDER BLVD, ALBUQUERQUE, NM





© 2017 Google

Google

35°07'55.43" N 106°37'10.09" W elev 5075

1991





**ATTACHMENT 6**

**LIST OF NEIGHBORHOOD ASSOCIATIONS AND NEIGHBORHOOD COALITIONS  
AND PROOF OF PUBLIC NOTICES**





Richard J. Berry, Mayor

**Environmental Health Department  
Air Quality Program  
Interoffice Memorandum**



Mary Lou Leonard, Director

**TO:** PURVA PRABHU, IES ENGINEERS  
**FROM:** MELISSA PADILLA, ADMINISTRATIVE ASSISTANT  
**SUBJECT:** DETERMINATION OF NEIGHBORHOOD ASSOCIATIONS AND COALITIONS WITHIN 0.5 MILES OF 4401 ALEXANDER BLVD NE, ALBUQUERQUE, NM  
**DATE:** 8/18/2017

**DETERMINATION:**

On 08/18/2017 I used the City of Albuquerque Zoning Advanced Map Viewer (<http://sharepoint.cabq.gov/gis>) to review which City of Albuquerque (COA) Neighborhood Associations (NAs) and Neighborhood Coalitions (NCs) and which Bernalillo County (BC) NAs and NCs are located within 0.5 miles of 4401 Alexander Blvd NE, Albuquerque in Bernalillo County, NM.

I then used the City of Albuquerque Office of Neighborhood Coordination's Monthly Master NA List dated August 2017 and the Bernalillo County Monthly Neighborhood Association August 2017 Excel file to determine the contact information for each NA and NC located within 0.5 miles of 4401 Alexander Blvd NE, Albuquerque in Bernalillo County, NM.  
(X:\ENVIRONMENTAL HEALTH\SHARE\EH-Staff\Permitting Section\Neighborhood Association Lists\2017\)

The tables below contain the contact information which will be used in the applicant's public notice. Duplicate information between the two tables has been deleted:

COA Association or Coalition	Name	Email or Mailing Address
District 7 Coalition of NAs	David Haughwout	<a href="mailto:davidh.d7@comcast.net">davidh.d7@comcast.net</a>
District 7 Coalition of NAs	Lynne Martin	<a href="mailto:lmartin900@aol.com">lmartin900@aol.com</a>
District 4 Coalition of NAs	Michael Pridham	<a href="mailto:michael@drpridham.com">michael@drpridham.com</a>
District 4 Coalition of NAs	Tony Huffman	<a href="mailto:thuffman663@comcast.net">thuffman663@comcast.net</a>
Near North Valley NA	Marit Tully	<a href="mailto:nearnorthvalleyna@gmail.com">nearnorthvalleyna@gmail.com</a>
Near North Valley NA	Joe Sabatini	<a href="mailto:jsabatini423@gmail.com">jsabatini423@gmail.com</a>
North Edith Commercial Corridor	Robert Warrick	<a href="mailto:rlwarric@centurylink.net">rlwarric@centurylink.net</a>
North Edith Commercial Corridor	Christine Benavidez	<a href="mailto:christinebnvdz@aol.com">christinebnvdz@aol.com</a>
North Valley Coalition	Peggy Norton	<a href="mailto:peggynorton@yahoo.com">peggynorton@yahoo.com</a>
North Valley Coalition	Doyle Kimbrough	<a href="mailto:newmexmba@aol.com">newmexmba@aol.com</a>
North Valley Coalition	NA email address	<a href="mailto:nvcabq@gmail.com">nvcabq@gmail.com</a>

**Prabhu, Purva**

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**From:** Microsoft Outlook  
**To:** davidh.d7@comcast.net  
**Sent:** Monday, October 02, 2017 11:01 AM  
**Subject:** Relayed: Public Notice of Proposed Air Quality Construction Permit Application (EV170881.01)

**Delivery to these recipients or groups is complete, but no delivery notification was sent by the destination server:**

davidh.d7@comcast.net (davidh.d7@comcast.net)

Subject: Public Notice of Proposed Air Quality Construction Permit Application (EV170881.01)

## Prabhu, Purva

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**From:** Mail Delivery System <MAILER-DAEMON@AOL.com>  
**To:** lmartin900@aol.com  
**Sent:** Monday, October 02, 2017 11:07 AM  
**Subject:** Relayed: Public Notice of Proposed Air Quality Construction Permit Application (EV170881.01)

Your message was successfully delivered to the destination(s) listed below. If the message was delivered to mailbox you will receive no further notifications. Otherwise you may still receive notifications of mail delivery errors from other systems.

Please direct further questions regarding this message to your e-mail administrator.

--AOL Postmaster

<lmartin900@aol.com>: delivery via lmtpl.mail.aol.com[10.96.117.98]:7025: 250  
2.1.5 OK



**Prabhu, Purva**

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**From:** Microsoft Outlook  
**To:** michael@drpridham.com  
**Sent:** Monday, October 02, 2017 12:37 PM  
**Subject:** Relayed: Public Notice of Proposed Air Quality Construction Permit Application (EV170881.01)

**Delivery to these recipients or groups is complete, but no delivery notification was sent by the destination server:**

michael@drpridham.com (michael@drpridham.com)

Subject: Public Notice of Proposed Air Quality Construction Permit Application (EV170881.01)

**Prabhu, Purva**

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**From:** Microsoft Outlook  
**To:** thuffman663@comcast.net  
**Sent:** Monday, October 02, 2017 12:40 PM  
**Subject:** Relayed: Public Notice of Proposed Air Quality Construction Permit Application (EV170881.01)

**Delivery to these recipients or groups is complete, but no delivery notification was sent by the destination server:**

thuffman663@comcast.net (thuffman663@comcast.net)

Subject: Public Notice of Proposed Air Quality Construction Permit Application (EV170881.01)

**Prabhu, Purva**

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**From:** Microsoft Outlook  
**To:** nearnorthvalleyna@gmail.com  
**Sent:** Monday, October 02, 2017 12:43 PM  
**Subject:** Relayed: Public Notice of Proposed Air Quality Construction Permit Application (EV170881.01)

**Delivery to these recipients or groups is complete, but no delivery notification was sent by the destination server:**

[nearnorthvalleyna@gmail.com](mailto:nearnorthvalleyna@gmail.com) (nearnorthvalleyna@gmail.com)

Subject: Public Notice of Proposed Air Quality Construction Permit Application (EV170881.01)



**Prabhu, Purva**

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**From:** Microsoft Outlook  
**To:** jsabatini423@gmail.com  
**Sent:** Monday, October 02, 2017 12:48 PM  
**Subject:** Relayed: Public Notice of Proposed Air Quality Construction Permit Application (EV170881.01)

**Delivery to these recipients or groups is complete, but no delivery notification was sent by the destination server:**

jsabatini423@gmail.com (jsabatini423@gmail.com)

Subject: Public Notice of Proposed Air Quality Construction Permit Application (EV170881.01)

**Prabhu, Purva**

---

**From:** Microsoft Outlook  
**To:** rlwarric@centurylink.net  
**Sent:** Monday, October 02, 2017 12:50 PM  
**Subject:** Relayed: Public Notice of Proposed Air Quality Construction Permit Application (EV170881.01)

**Delivery to these recipients or groups is complete, but no delivery notification was sent by the destination server:**

rlwarric@centurylink.net (rlwarric@centurylink.net)

Subject: Public Notice of Proposed Air Quality Construction Permit Application (EV170881.01)

**Prabhu, Purva**

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**From:** Mail Delivery System <MAILER-DAEMON@AOL.com>  
**To:** christinebnvdz@aol.com  
**Sent:** Monday, October 02, 2017 12:54 PM  
**Subject:** Relayed: Public Notice of Proposed Air Quality Construction Permit Application (EV170881.01)

Your message was successfully delivered to the destination(s) listed below. If the message was delivered to mailbox you will receive no further notifications. Otherwise you may still receive notifications of mail delivery errors from other systems.

Please direct further questions regarding this message to your e-mail administrator.

--AOL Postmaster

<[christinebnvdz@aol.com](mailto:christinebnvdz@aol.com)>: delivery via lmtpl.mail.aol.com[10.96.115.47]:7025: 250 2.1.5 OK



**Prabhu, Purva**

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**From:** Microsoft Outlook  
**To:** [peggynorton@yahoo.com](mailto:peggynorton@yahoo.com)  
**Sent:** Monday, October 02, 2017 12:56 PM  
**Subject:** Relayed: Public Notice of Proposed Air Quality Construction Permit Application (EV170881.01)

**Delivery to these recipients or groups is complete, but no delivery notification was sent by the destination server:**

[peggynorton@yahoo.com](mailto:peggynorton@yahoo.com) ([peggynorton@yahoo.com](mailto:peggynorton@yahoo.com))

Subject: Public Notice of Proposed Air Quality Construction Permit Application (EV170881.01)

**Prabhu, Purva**

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**From:** Mail Delivery System <MAILER-DAEMON@AOL.com>  
**To:** newmexmba@aol.com  
**Sent:** Monday, October 02, 2017 1:00 PM  
**Subject:** Relayed: Public Notice of Proposed Air Quality Construction Permit Application (EV170881.01)

Your message was successfully delivered to the destination(s) listed below. If the message was delivered to mailbox you will receive no further notifications. Otherwise you may still receive notifications of mail delivery errors from other systems.

Please direct further questions regarding this message to your e-mail administrator.

--AOL Postmaster

<[newmexmba@aol.com](mailto:newmexmba@aol.com)>: delivery via lmtpl.mail.aol.com[10.96.117.76]:7025: 250  
2.1.5 OK

**Prabhu, Purva**

---

**From:** Microsoft Outlook  
**To:** nvcabq@gmail.com  
**Sent:** Monday, October 02, 2017 1:03 PM  
**Subject:** Relayed: Public Notice of Proposed Air Quality Construction Permit Application (EV170881.01)

**Delivery to these recipients or groups is complete, but no delivery notification was sent by the destination server:**

[nvcabq@gmail.com](mailto:nvcabq@gmail.com) ([nvcabq@gmail.com](mailto:nvcabq@gmail.com))

Subject: Public Notice of Proposed Air Quality Construction Permit Application (EV170881.01)





**ATTACHMENT 7**  
**PHOTO OF PUBLIC NOTICE SIGN**



## PROPOSED AIR QUALITY CONSTRUCTION PERMIT



1. Applicant's Name: OSO PHARMACEUTICALS LLC Address: 4401 ALEXANDER BLVD NE, ALBUQUERQUE, NM 87107  
Owner or Operator's Name: OSO PHARMACEUTICALS LLC  
Owner or Operator's Address: 4401 ALEXANDER BLVD NE, ALBUQUERQUE, NM 87107  
Actual or Estimated Date the Application will be Submitted to the Department: AUGUST 30, 2017

2. Exact Location of the Source or Proposed Source: 4401 ALEXANDER BLVD NE, ALBUQUERQUE, NM 87107

3. Description of the Source: ONE 600-KW DIESEL-FIRED STANBY/EMERGENCY GENERATOR AND ONE 3.4 MMBCU/HR NATURAL GAS-FIRED BOILER  
Nature of the Business: OSO PHARMACEUTICALS MANUFACTURING, INC. IS A CONTRACT MANUFACTURING ORGANIZATION (CMO) THAT SPECIALIZES IN DELIVERING INSTANT-RELEASE TABLETS, SUSPENSIONS, AND INJECTABLE AND PHARMACEUTICAL PRODUCTS.  
Process or Change for which the permit is being requested: INSTALLATION OF ONE 600-KW DIESEL-FIRED STANBY/EMERGENCY GENERATOR AND ONE 3.4 MMBCU/HR NATURAL GAS-FIRED BOILER

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

### Initial Construction Permit

	Pounds Per Hour (Max)	Tons Per Year (365)
CO	4.05	1.48
NOx	12.3	4.47
SOx	0.22	0.08
VOC	0.1017 (2042.06)	0.3714 (135.75)
TSP	0.9	0.33
PM10	0.9	0.33
PM2.5	0.9	0.33
CHAP		

### Net Changes in Emissions

	Pounds Per Hour (Max)	Tons Per Year (365)	Estimated Total Emissions per Year
CO	4.05	1.48	1.48
NOx	12.3	4.47	4.47
SOx	0.22	0.08	0.08
VOC	0.1017	0.3714	0.3714
TSP	0.9	0.33	0.33
PM10	0.9	0.33	0.33
PM2.5	0.9	0.33	0.33
CHAP			

4. Maximum Operating Schedule: Boiler 8,760 hrs/yr, Standby/Emergency Generator 500 hrs/yr  
Normal Operating Schedule: Boiler 8,760 hrs/yr, Standby/Emergency Generator 100 hrs/yr

5. Current Contact Information for Comments and Inquiries:

Name: MR. MATTHEW LANE  
Address: 4401 ALEXANDER BLVD NE, ALBUQUERQUE NM 87107  
Phone Number: 505.933.1556  
E-Mail Address: MATTHEW.LANE@AMRIGLOBAL.COM

City of Albuquerque - Environmental Health Department - Air Quality Program - Business Source Permitting  
Phone Number: (505) 768-1825 E-Mail Address: [airquality@ci.albuquerque.nm.us](mailto:airquality@ci.albuquerque.nm.us)

THIS SIGN SHALL REMAIN POSTED UNTIL THE DEPARTMENT TAKES FINAL ACTION ON THE PERMIT APPLICATION