

APPLICATION PACKET
AIR QUALITY CONTROL
GENERAL PERMIT
FOR
GENERATORS



Arizona Department of Environmental Quality

Air Quality Division

October 6, 2009

INTRODUCTION

To expedite the processing of an air quality control permit application, the Arizona Department of Environmental Quality (ADEQ) has created a general permit for stationary, stand-alone generators. Facilities which meet the criteria in this general permit application will be permitted under the generator general permit and will pay lower annual air quality fees than generators covered under an individual air quality permit.

This application packet assists the applicant in the submittal of information that is required to process their application for an air quality control permit. Applicants wishing to obtain a generator general permit shall apply to ADEQ, except for facilities located on an Indian Reservation or in Pima, Pinal, or Maricopa Counties. If the facility is located on a reservation or in one of these counties, the local air quality agency will process the air quality permit application. If the applicant has any questions regarding jurisdictional issues, please contact the appropriate agency at the phone number below:

ADEQ: (602) 771-2338
or toll free within Arizona
1-800-234-5677 ext 771-2338
Maricopa County: (602) 506-6010
Pima County: (520) 740-3340
Pinal County: (520) 866-6929

DISCLAIMER

This application packet does not waive the rights of the Director as provided under Arizona Administrative Code (A.A.C.) R18-2-304 to request that additional information be submitted by the applicant to assist in the processing of the air quality permit application. Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information. In addition, an applicant shall provide additional information as necessary to address any requirements that become applicable to the source after the date they filed a complete application, but prior to the release of a proposed permit. If there is any difference between this application packet and Title 18, Chapter 2, of the A.A.C., the A.A.C. shall take precedence.

PERMIT ISSUANCE TIME FRAME

According to A.A.C. R18-1-525, ADEQ has 21 business days to determine if the submitted general permit application is complete. Once the application is determined to be complete, the department has 103 business days to make a licensing decision on the application. The counting of the days can be suspended by the Department upon the determination that additional information is needed. In such a case, a letter will be sent to the applicant informing them that the counting of days has been suspended, and will also specify what additional information is necessary to continue processing the application.

APPLICATION INSTRUCTIONS

STEP 1: DOES YOUR FACILITY QUALIFY FOR THIS GENERAL PERMIT?

- Complete Form 1 on page 5 to ensure that the facility qualifies for a generator general permit.
- If the facility does not qualify for coverage under the general permit, then a permit application for an individual generator permit must be completed and submitted to the appropriate agency.

STEP 2: STANDARD APPLICATION FORM

- Complete Form 2 on page 9. The following are brief descriptions of the information that is requested in the standard permit application forms.
- The business license name (Permittee) of the organization is the business that is applying for coverage under the general permit.
- The mailing address of the organization is the address of the Permittee.
- The previous company name is the previous business license name if the business was previously permitted under a different name.
- The name of the owner/principal is the name of the owner or principal of the business license name.
- The owner's agent is the person or company assisting the Permittee with their air quality permit application.
- The plant/site manager/contact person is the person that ADEQ may contact with any questions or requests for additional information.
- The name of the plant site would be any name associated with the operating location. The address of the plant site should include its physical address, and must be as detailed as possible to determine the exact operating location of the existing or proposed plant.
- If the generator is already permitted and is applying for a permit renewal, then the current permit number must be included.
- The Date of Commencement of Construction is the anticipated date that construction will begin in the case of a new permit application.
- If the equipment is leased, please check the appropriate box.
- The application should be signed by the responsible official which, in most cases, is the owner or a partner of the company. It may also be the president or vice-president of larger companies. If there is a question as to who the responsible official is, please consult A.A.C. R18-2-301(17).

STEP 3: EMISSION CALCULATIONS

Form 3 should be used to calculate the emissions, both in pounds per hour and tons per year, from each generator when burning diesel fuel, natural gas/LPG, or gasoline. The emission factors provided are taken from AP-42. If the Permittee can supply emission data from the manufacturer or certified lab test data with lower emission factors, then those emission factors can be used in place of the AP-42 factors. In order to use the manufacturer's emission data or certified lab test data, the Permittee must submit copies of the manufacturer's emission data or certified lab test emission data along with the specifications for each generator.

The emissions calculated in Form 3 should be tabulated to produce the total emissions from the facility which is recorded in the table provided on Forms 4.

Finally, the synthetic minor operating hours limitations are calculated on Form 5.

STEP 4: EQUIPMENT LIST

ADEQ needs to be able to identify all generators that will be covered under the general permit. Use Form 6 to provide a list of all generators located at the facility. This list should include the make, model, serial number, equipment identification number, date of installation, generator rating (in horsepower), and the type of fuel used in each generator. In addition, the application must include a copy of the manufacturer's operating specifications for each generator.

STEP 5: COMPLIANCE PLAN, COMPLIANCE SCHEDULE, AND CERTIFICATION OF TRUTH, ACCURACY, AND COMPLETENESS

A Compliance Certification and Certification of Truth, Accuracy, and Completeness must be signed by the responsible official and submitted using Form 7.

STEP 6: FILING INSTRUCTIONS

1. An Application Fee of \$500 must be submitted by all applicants. Please make your check or money order payable to ADEQ. The Application Fee must accompany each application submittal.
2. Please mail FORMS 1 through 7 of the application packet and the \$500 Application Fee to the following address:

Arizona Department Of Environmental Quality
Air Quality Division
1110 West Washington
Phoenix, Arizona 85007

3. Please remember to make photo copies of FORMS 1 through 7 of the application packet before mailing.
4. Pages 1 through 4 of the application packet should be kept by the applicant for reference purposes.

FORM 1.: DOES YOUR FACILITY QUALIFY FOR THIS GENERAL PERMIT?

This form is only applicable to stationary, stand-alone generators. The following questions have been developed to determine if your facility qualifies for coverage under the generator general permit or if it is required to obtain an individual air quality permit.

- A. Are there any emission units other than stationary, stand-alone generators located at the facility?
- YES NO **If the answer is YES**, this facility does not qualify for coverage under this general permit.
If the answer is NO, proceed to Question B.
- B. What is the combined generator capacity (in horsepower) of all generators located at your facility?
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- C. Is the combined generator capacity from Question B above, less than 325 HP?
- YES NO **If the answer is YES**, this facility may not be required to obtain an air quality control permit.
If the answer is NO, proceed to Question D.
- D. Is the combined generator capacity from part Question B above, greater than 3,000 horsepower (HP)?
- YES NO **If the answer is YES**, this facility does not qualify for coverage under this general permit and must obtain an individual permit.
If the answer is NO, proceed to Question E.
- E. Do each of the generators at your facility meet all of the following stack parameter criteria?
- * The exhaust stack discharge is vertical and 14 feet or more above ground.
 - * If the stack is equipped with a rain cap, it must be hinged.
- YES NO **If the answer is YES**, this facility qualifies for coverage under this general permit.
If the answer is NO, this facility does not qualify for coverage under this general permit and must obtain an individual permit.

Please note a complete application must include the following completed forms:

- Form 1. Does Your Facility Qualify for this General Permit?
- Form 2. Standard Permit Application
- Form 3. Emission Calculations
- Form 4. Total Emissions from the Facility
- Form 5. Synthetic Minor Limit Calculations
- Form 6. Equipment List
- Form 7. Compliance Certification and Certification of Truth, Accuracy, and Completeness

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FORM 2: STANDARD PERMIT APPLICATION FORM
ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
Air Quality Division
1110 West Washington St ♦ Phoenix, AZ 85007 ♦ Phone: (602) 771-2316

STANDARD PERMIT APPLICATION FORM

(As required by A.R.S. § 49-426, and Chapter 2, Article 3, Arizona Administrative Code)

1. Permit to be issued to: (Business license name of organization that is to receive permit) _____

2. Mailing Address: _____
City: _____ State: _____ ZIP: _____
3. Previous Company Name: (if applicable) _____
4. Name (or names) of Owners/Principals: _____
Phone: _____ Fax: _____ Email: _____
5. Name of Owner's Agent: _____
Phone: _____ Fax: _____ Email: _____
6. Plant/Site Manager or Contact Person/Title: _____
Phone: _____ Fax: _____ Email: _____
7. Proposed Plant Name: _____
Proposed Plant Location/Address: _____
City: _____ County: _____ ZIP: _____
Indian Reservation (if applicable): _____
Latitude/Longitude, Elevation: _____
8. Equipment Name/Purpose: _____
Equipment List/Description: _____

9. Type of Organization:
 Corporation Individual Owner
 Partnership Government Entity (Government Facility Code: _____)
 Other _____
10. Permit Application Basis: New Source Revision Renewal of Existing Permit
(Check all that apply.) Portable Source General Permit
For renewal or modification, include existing permit number (and exp. date): _____
Date of Commencement of Construction or Modification: _____
Is **any** of the equipment to be leased to another individual or entity? Yes No
Standard Industrial Classification Code: _____ 4911 _____ State Permit Class: _____ II _____
11. Signature of Responsible Official of Organization: _____
Official Title of Signer: _____
12. Typed or Printed Name of Signer: _____
Date: _____ Telephone Number: _____

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FORM 3: EMISSION CALCULATIONS

Emissions, in pounds per hour, from the generator(s) are calculated by taking the maximum capacity listed in column (b) and multiplying it by the emission factor for each pollutant in column (c). Emissions, in tons per year, from the generator(s) are calculated by taking the emissions in pounds per hour and multiplying it by the conversion factor in column (d). The emission factors provided are taken from AP-42. If the Permittee can supply emission data from the manufacturer or certified lab test data with lower emission factors, then those emission factors can be used in place of the AP-42 factors. Simply cross out the emission factor provided and write in the new emission factor. In order to use the manufacturer's emission data or certified lab test data, the Permittee must submit copies of the manufacturer's emission data or certified lab test data along with the specifications for each generator. **An individual table needs to be completed for each generator. Please make additional copies of this form if necessary.**

Diesel-Fired Generators with a Maximum Capacity of Greater Than 600 Horsepower

Pollutant (a)	Maximum Capacity (b)	Emission Factor (c)	Emissions (b×c)	Conversion Factor (d)	Emissions (b×c×d)
	<i>(horsepower)</i>	<i>(lb/hp-hr)</i>	<i>(lbs/hr)</i>	<i>(tons/yr) ÷ (lbs/hr)</i>	<i>(tons/yr)</i>
CO		0.0055		4.38	
NO _x		0.024		4.38	
SO _x		0.00647		4.38	
VOCs		0.000705		4.38	
PM		0.0007		4.38	
PM ₁₀		0.0007		4.38	

Review	Date

Diesel-Fired Generators with a Maximum Capacity of 600 Horsepower or Less

Pollutant (a)	Maximum Capacity (b)	Emission Factor (c)	Emissions (b×c)	Conversion Factor (d)	Emissions (b×c×d)
	<i>(horsepower)</i>	<i>(lb/hp-hr)</i>	<i>(lbs/hr)</i>	<i>(tons/yr) ÷ (lbs/hr)</i>	<i>(tons/yr)</i>
CO		0.00668		4.38	
NO _x		0.031		4.38	
SO _x		0.00205		4.38	
VOCs		0.00247		4.38	
PM		0.0022		4.38	
PM ₁₀		0.0022		4.38	

Review	Date

Natural Gas/LPG-Fired Generators

Pollutant (a)	Maximum Capacity (b)	Emission Factor (c)	Emissions (b×c)	Conversion Factor (d)	Emissions (b×c×d)
	(horsepower)	(lb/hp-hr)	(lbs/hr)	(tons/yr) ÷ (lbs/hr)	(tons/yr)
CO		0.00222		4.38	
NO _x		0.0286		4.38	
SO _x		0.00000412		4.38	
VOCs		0.000826		4.38	
PM		0.0000694		4.38	
PM ₁₀		0.00000054		4.38	

Reviewer	Date

Gasoline-Fired Generators

Pollutant (a)	Maximum Capacity (b)	Emission Factor (c)	Emissions (b×c)	Conversion Factor (d)	Emissions (b×c×d)
	(horsepower)	(lb/hp-hr)	(lbs/hr)	(tons/yr) ÷ (lbs/hr)	(tons/yr)
CO		0.00696		4.38	
NO _x		0.011		4.38	
SO _x		0.000591		4.38	
VOCs		0.0216		4.38	
PM		0.000721		4.38	
PM ₁₀		0.000721		4.38	

Reviewer	Date

FORM 4.: TOTAL EMISSIONS FROM THE FACILITY

Use the numbers calculated in Form 3 to complete the table below. If there is more than one generator being utilized at the facility, be sure to include the sum of the emissions from each generator in the table below.

Table A: Total Emissions in Tons per Year

Pollutant (a)	Emissions from Diesel-Fired Generators (b)	Emissions from Natural Gas/LPG-Fired Generators (c)	Emissions from Gasoline-Fired Generators (d)	Total Emissions (b+c+d)
	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)
CO				
NO _x				
SO _x				
VOCs				
PM				
PM ₁₀				

Reviewer	Date

FORM 5.: SYNTHETIC MINOR LIMIT CALCULATIONS

Calculate the Number of Operating Hours per Year

Transfer the total emissions in tons per year calculated in Table A of Form 4 above into column (b). Calculate the operating hours per year limit by taking the synthetic minor limitation in column (c) and dividing by the total emissions in column (b) and then multiplying that number by 8,760 hours per year for each pollutant in column (a). The facility will be limited to the smallest number of operating hours per year calculated in the table below.

Pollutant (a)	Total Emissions (b)	Synthetic Minor Limitation (c)	Operating Hours per Year* [(c/b) × 8760]
	<i>(tons/yr)</i>	<i>(tons/yr)</i>	<i>(hours/yr)</i>
CO		90	
NO _x		90	
SO _x		90	
VOCs		90	
PM		90	
PM ₁₀		90	

Reviewer	Date

*Please note that if the calculated number of operating hours per year is greater than 8,760, then use 8,760 hours per year as a default.

**FORM 7: COMPLIANCE CERTIFICATION AND CERTIFICATION OF TRUTH, ACCURACY,
AND COMPLETENESS**

This certification must be signed by the Responsible Official. Applications without a signed certification will be deemed incomplete.

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by ADEQ as public record. I also attest that I am in compliance with the applicable requirements of the General Permit and will continue to comply with such requirements and any future requirements that become effective during the life of the General Permit. I will present a certification of compliance to ADEQ no less than semiannually and more frequently if specified by ADEQ. I further state that I will assume responsibility for the construction, modification, or operation of the source in accordance with Arizona Administrative Code, Title 18, Chapter 2 and any permit issued thereof.

Typed or Printed Company Name: _____

Official Title of Signer: _____

Typed or Printed Name of Signer: _____

Signature of Responsible Official: _____ Date: _____

Fee Rule Summary for Generator General Permits

SOURCE			
GENERAL PERMIT			
CLASS II			
TITLE V		NON - TITLE V	
APPLICATION FEE \$500	<u>ANNUAL ADMINISTRATIVE FEE</u> \$4,520	APPLICATION FEE \$500	<u>ANNUAL INSPECTION FEE</u> \$3,020
<p>There is a \$500 fee for facility changes that require the issuance of new Authorizations to Operate. There is no fee for transfers, administrative amendments, or facility change notices that do not require a permit revision. Administrative and Inspection fees are due no later than February 1st of each year.</p>			