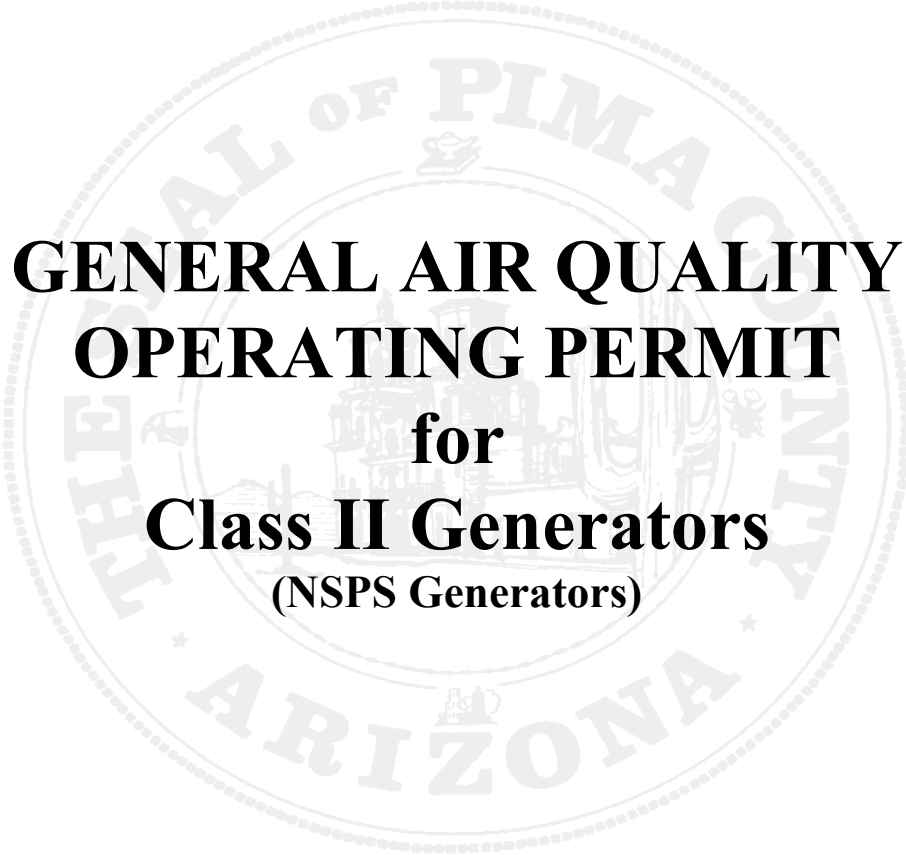


**PIMA COUNTY DEPARTMENT OF ENVIRONMENTAL QUALITY
Air Program**

150 W. Congress St. ▪ Suite 109 ▪ Tucson, AZ 85701 ▪ Phone: (520) 740-3340

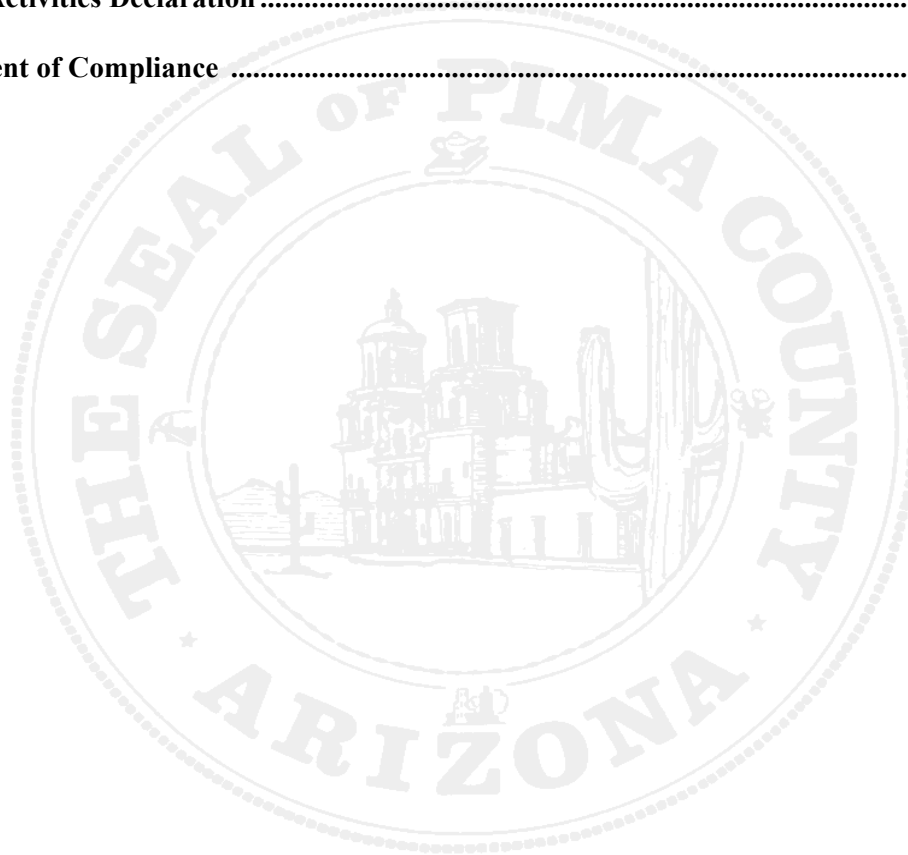


**GENERAL AIR QUALITY
OPERATING PERMIT
for
Class II Generators
(NSPS Generators)**

APPLICATION PACKAGE

TABLE OF CONTENTS

| | |
|---|-----------|
| Introduction | 3 |
| Instructions | 4 |
| Standard Permit Application Form | 6 |
| Form 2: Equipment List | 7 |
| Form 3: Generator Hourly Limitation | 8 |
| Form 4: NSPS Applicability | 10 |
| Form 5: Other Activities Declaration | 13 |
| Form 6: Statement of Compliance | 14 |



INTRODUCTION

The Pima County Department of Environmental Quality (PDEQ) has created this general permit and application package for those sources that have at least one compression ignition (CI) engine subject to New Source Performance Standards (NSPS) *A CI engine is one that is not a spark ignition engine (i.e. does not employ spark plugs or another sparking element)*. This will streamline the permitting process for the large number of sources which would otherwise require substantially similar individual source permits. This action shall reduce PDEQ's workload and afford decreased permitting timeframes. To obtain coverage under this general permit, the applicant shall complete the general permit application form for NSPS generators in order to obtain an *Authorization to Operate* (ATO).

This application package has been created to aid the applicant in submitting an application for this general permit. Applicants must complete and submit this package with an application fee in the form of a check or money order payable to PDEQ in the amount of \$540. Please mail the application package and fee to:

**Pima County Department of Environmental Quality
Air Program
150 W. Congress St., Suite 109
Tucson, AZ 85701**

If, after reviewing this package in its entirety, the applicant has questions regarding the application process, they may be directed to PDEQ in writing at the above address or by telephone to: **(520) 740-3340**.

DISCLAIMERS

Completion of this application package does not void the right of the Control Officer under 17.12.165 of the Pima County Code (PCC) to require the applicant to provide supplemental information before processing the application and issuing or denying an Authorization to Operate (ATO) under this General Permit.

Sources not otherwise required to obtain an air quality permit, but are subject to 40 CFR 60 Subpart III – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, must nevertheless comply with the provisions of that subpart. Although the applicant is not required to obtain an ATO or permit, the standards of that subpart shall continue to apply. Consult **FORM 4: NSPS APPLICABILITY** of this application package to determine if your source is subject to Subpart III. [40 CFR 60.4200(c)]

INSTRUCTIONS

Step 1: **Applicability: Determine whether or not you qualify for this General Permit.**

You qualify for this general permit if you meet all of the following conditions:

- There is at least one *stationary*¹ engine subject to the New Source Performance Standards (NSPS) for compression ignition engines; If you do not have such an engine you do not qualify for this general permit and need to complete the general permit application package for Non-NSPS generators or, the application package for a regular individual permit.
- Other than those units to be covered by this General Permit, there are no other **emission units** co-located at the facility that (1) *are subject to a permitting requirement*² and/or (2) *emit significant quantities of any pollutant*;³
- There are no **operations or activities** conducted on site which (1) *otherwise require an individual permit*⁴ and/or (2) *emit significant quantities of any pollutant*;² and
- *If necessary*, you are willing to accept restrictions on hours of operation to ensure your source does not become a major source.

Step 2: **Complete and sign the STANDARD PERMIT APPLICATION FORM** (Page 5 of this package).

Step 3: **Complete FORM 2: Equipment List** (Page 6 of this package).

- a. Include all requested information for each generator located on-site. All stationary generators located on-site must be listed regardless of capacity (including those less than 325 horsepower on an individual basis). In addition PDEQ **will not begin processing** without a manufacture date.
- b. Capacity must be listed in *maximum* rated horsepower.⁵ To convert from:
 - i. kW: multiply by 1.341 hp/kW.
e.g. (300 kW) x (1.341 hp/kW) = 402 hp;
 - ii. Gal/hr Diesel: multiply by 53.86 hp-hr/gal_D.
e.g. (7.5 gal_D/hr) x (53.86 hp-hr/gal_D) = 404 hp;
 - iii. Gal/hr Gasoline: multiply by 51.11 hp-hr/gal_G.
e.g. (7.5 gal_G/hr) x (51.11) = 383 hp;

¹ A stationary unit is one which is not relocated according to need, but is expected to remain in one location (one contiguous property) for at least 12 consecutive months.

² Such equipment includes, but is not limited to, most crushing and screening equipment, incinerators, asphalt concrete plants, concrete batch plants, petroleum liquid storage vessels, and so on. Such equipment, if demonstrated to be insignificant, may not exempt your source from coverage under this General Permit.

³ Significant emissions are: CO – 100 tons per year (tpy), NO_x – 40 tpy, SO_x – 40 tpy, VOC – 40 tpy, PM₁₀ – 15 tpy, any individual HAP – 10 tpy, and any combination of HAPs – 25 tpy. **Use form 3 to determine potential emissions.**

⁴ Such activities include, but are not limited to, surface coating, reinforced plastic composites production, degreasing with TCE, and so on. Such activities, if demonstrated to be insignificant, may not exempt your source from coverage under this General Permit.

⁵ Anticipated operational horsepower is not an acceptable substitute.

- iv. SCF/hr Natural Gas: multiply by 0.413 hp-hr/SCF.
e.g. (1000 SCF/hr) x (0.413 hp-hr/SCF) = 413 hp; or
- v. Btu/hr Natural Gas: multiply by 0.000393 hp-hr/Btu.
e.g. (1,000,000 Btu/hr) x (0.000393 hp-hr/Btu) = 393 hp.

d. If an individual unit is expected to fire more than one fuel, list all applicable fuels.

Step 4: Complete **FORM 3: Generator Hourly Limitation** (Page 17 of this package). Complete this form only if you meet the criteria stated in the introduction to Form 4.

Step 5: Complete **FORM 4: NSPS Applicability** (Page 9-11 of this package). With regard to all compression ignition engines (as opposed to spark ignition engines), the applicant shall determine and indicate (1) whether such units are subject to 40 CFR 60, Subpart IIII and (2) if so, the applicable *Attachment*.

Step 6: Complete **FORM 5: Other Activities Declaration Form** (Page 12 of this package). If you have no other potential emission sources or activities on site, please state so.

Step 7: Review this application package and sign **FORM 6: Statement of Compliance** (Page 13 of this package).

Step 8: Submit this completed application package with the \$540 fee and any supplementary documents as required to:

**Pima County Department of Environmental Quality
Air Program
150 W. Congress St., Suite 109
Tucson, AZ 85701.**

**STANDARD PERMIT APPLICATION FORM
FOR GENERAL PERMITS**

(As required by A.R.S. § 49-480, and Title 17 of the Pima County Code)

1. Permit to be issued to (Arizona Corporate Commission Registered Name): _____

2. Mailing Address: _____
City: _____ State: _____ ZIP: _____
3. Name (or names) of Owner or Operator: _____
FAX #: _____ Phone: _____
Email: _____
4. Name of Owner's Agent: _____
FAX #: _____ Phone: _____
5. Plant Name (if different than item #1): _____
6. Proposed Equipment/Plant Location Address: _____
City: _____ State: _____ ZIP: _____
7. Plant Manager/Contact Person (if different than item #3): _____
FAX #: _____ Phone: _____
Email: _____
8. General Nature of Business: _____
Standard Industrial Classification Code: _____ State Permit Class: _____ III
9. Type of Organization: Corporation Individual Owner Partnership Government Entity Other
10. Permit Application Basis (Check all that apply): New Source Renewal Portable Source
Revision: Administrative Minor Significant Existing Permit # _____
Date of Commencement of Construction or Modification: _____
Is any of the equipment to be leased to another individual or entity? Yes No
11. Typed or Printed Name of Responsible Official (RO): _____
Official Title of RO: _____
RO Fax #: _____ RO Phone #: _____ RO Email: _____
12. Signature of Responsible Official of Organization: _____ Date: _____

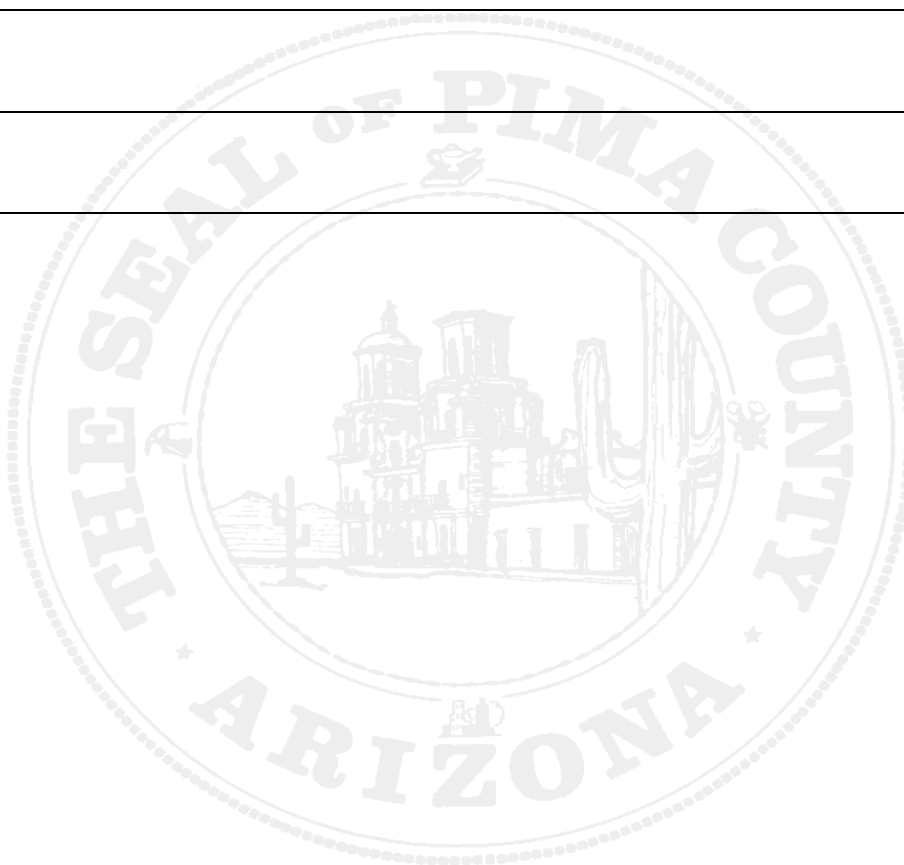
Form 2: Equipment List

| Manufacturer | Model | Serial Number/ Equipment ID # | Capacity (Maximum Rated Horsepower) ⁶ | Date of Manufacture | Fuel(s) | Compression Ignition (Y/N) |
|--------------|-------|----------------------------------|--|------------------------|---------|-------------------------------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

(Duplicate as necessary)

⁶ To convert to horsepower from:
 kW – multiply by 1.341;
 Gal/hr Diesel – multiply by 53.86;
 Gal/hr Gasoline – multiply by 51.11;
 SCF/hr Natural Gas – multiply by 0.413; or
 Btu/hr Natural Gas – multiply by 0.000393.

For Sources whose potential emissions are greater than 100 tpy for NOx and/or CO and would prefer an hourly restriction other than the above Synthetic Emission Limitation or specific hours on different generators, please state the fact, provide a brief explanation, and attach documentation that shows calculations with the preferred hourly restrictions:



Form 4: NSPS Applicability

Complete Form 4 only for compression ignition (CI) engines. A CI engine is one that is not a spark ignition engine (i.e. does not employ spark plugs or another sparking element).⁷ To determine applicability of a CI engine to a specific NSPS-General Permit attachment the applicant shall answer the following series of questions for each CI engine or follow the flowchart included below.

1. Is the unit in question a stationary, compression ignition (CI) engine?

YES NO

If YES, continue to question 2.

If NO, this unit is not subject to the NSPS Attachments.

2. Is the unit in question specifically exempted from requiring a permit by Subpart III? Specific exemptions exist for: (1) stationary ICE being tested at a CI ICE test stand; (2) units that constitute an area source (aggregate emissions < significance levels AND aggregate maximum horsepower on generators on-site <325hp); and (3) sources exempt per 40 CFR 89 (non-road engines), 94 (marine engines), or 1068 (non-road engines).

YES NO

If YES, this unit is not subject to the NSPS Attachments.

If NO, continue to question 3.

3. Was the unit in question ordered or manufactured after April 1, 2006 OR modified or reconstructed after 07/11/05?

YES NO

If YES, continue to question 4.

If NO, this unit is not subject to the NSPS Attachments.

4. Is the maximum rated horsepower of the unit in question greater than or equal to 3000 hp OR, are the unit's cylinders greater than or equal to 10 L each?

YES NO

If YES, the unit is **NOT** eligible for coverage under this General Permit. You must obtain an individual stationary source permit.

If NO, continue to question 5.

5. Is the unit in question a Certified NFPA Fire Pump Engine manufactured after July 1, 2006 OR modified or reconstructed after July 11, 2005?

YES NO

If YES, the unit is subject to **NSPS Attachment 3**; indicate the fact on Table 2 below.

If NO, continue to question 6.

6. Is the unit in question an emergency unit? Emergency units are those whose operation are limited to emergency situations and required testing and maintenance.

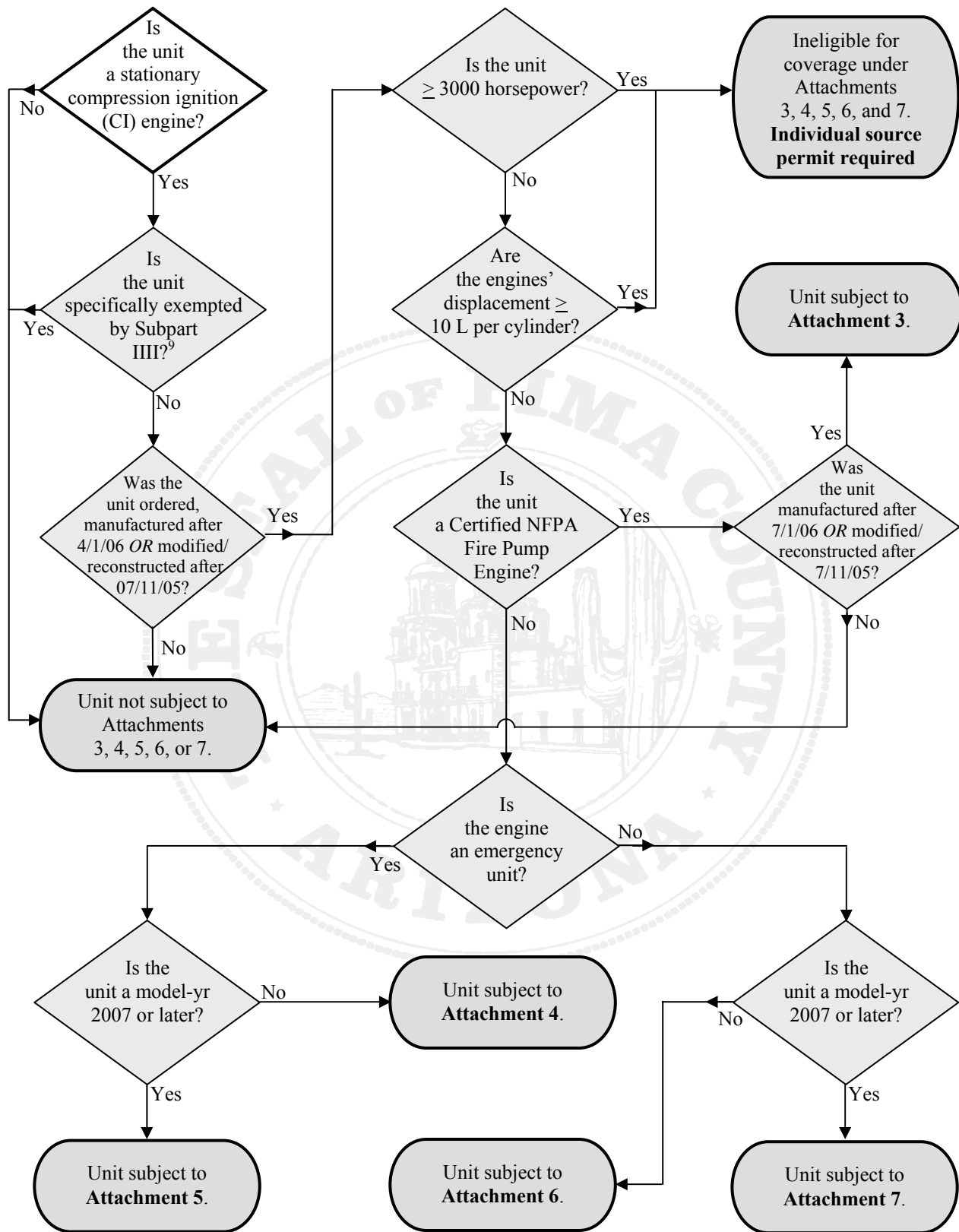
YES NO

If YES, continue to question 7.

If NO, continue to question 8.

⁷ Furthermore, these standards do not apply to engine test-cell stands or non-road and marine engines as defined by 40 CFR 89, 94, and 1068.

NSPS Applicability Flowchart for CI Internal Combustion Engines



⁹ Specific exemptions exist for: (1) stationary ICE being tested at a CI ICE test stand; (2) units that constitute an area source (aggregate emissions < significance levels AND aggregate maximum horsepower on generators/ engines on-site <325hp); and (3) sources exempt per 40 CFR 89 (non-road engines), 94 (marine engines), or 1068 (non-road engines).

Form 6: Statement of Compliance

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 it files a complete application, but prior to release of a proposed permit. Should there be any discrepancies between this application package and Title 17 of the Pima County Code (PCC) or 40 CFR 60 Subpart IIII, the PCC and CFR shall be preferred.

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

The responsible official is defined as a person who is in charge of principal business functions or who performs policy or decision making functions for the business. This may also include an authorized representative for such persons. For a complete definitions see Pima County Air Quality Control, Title 17, Section 17.04.340(A)(199).

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 the Pima County Department of Environmental Quality (PDEQ) as public record. I also attest that I am in compliance with the applicable requirement(s) and will continue to comply with such requirements and any future requirements that become effective during the life of my permit. I further state that I will assume responsibility for the construction, modification, or operation of the source in accordance with the requirements of Title 17 of the Pima County Code and any permit issued thereof.

Name (Print/Type): _____ Title: _____

Signature: _____ Date: _____

Certification of Truth, Accuracy, and Completeness

17.12.165(H) – Certification of Truth, Accuracy, and Completeness. Any application form, report, or compliance certification submitted pursuant to this Chapter shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the documents are true, accurate, and complete.

By my signature I, (Name) _____, hereby certify that based on information and belief formed after reasonable inquiry, the statements and information in this document are true, accurate, and complete.

Signature: _____

Title: _____ Date: _____