

**ATTACHMENT 6**

**NEW SOURCE PERFORMANCE STANDARDS FOR PRE-2007 MODEL YEAR  
NON-EMERGENCY COMPRESSION IGNITION ENGINES**

**I. APPLICABILITY**

[40 CFR 60.4200(a)(2)(i) & (a)(3)]

The standards contained in this Attachment apply to owners/operators of non-emergency stationary compression ignition engines (CI ICE) that are manufactured after April 1, 2006 or have been modified or reconstructed after July 11, 2005 but are not 2007 model year or later. Specifically applicable units are identified as such in the Authorization to Operate (ATO). These standards are required in addition to those in the Specific Conditions and the Additional Permit Requirements. **All conditions in this Attachment are Federally Enforceable Conditions.**

**II. OPERATIONAL LIMITATIONS**

[PCC 17.12.185.A.2]

**A. Emission Limits**

[40 CFR 60.4203, 4204(a) & Table 1 of Subpart IIII]

1. New CI ICE subject to this Attachment must be certified by the manufacturer at or below the applicable emission standards and shall continue to meet them for the certified emissions life of the engine.
2. Modified or reconstructed CI ICE subject to this Attachment must be certified by the entity that conducts the modification or reconstruction (via the appropriate testing according to 40 CFR 60.4212, if appropriate). This certification must state that emissions will be at or below the applicable emission standards and the unit shall continue to meet them for the useful life of the engine.
3. Applicable emission standards and the certified emissions life of the engine are identified in Section III of the ATO (Supplemental Requirements).
4. The Permittee must operate and maintain applicable units according to the manufacturer's written instructions or procedures developed by the Permittee that are approved by the engine manufacturer, over the entire life of the engine. [40 CFR 60.4206]

**B. Fuel Requirements**

[40 CFR 60.4207]

Beginning October 1, 2010, stationary CI ICE subject to this Attachment that use diesel fuel must purchase diesel fuel that meets the following requirements on a per-gallon basis:

[40 CFR 60.4207(b) & 80.510(b)]

- a. Sulfur content: 15 ppm maximum;
- b. Cetane index or aromatic content, as follows:
  - i. A minimum cetane index of 40; or
  - ii. A maximum aromatic content of 35 volume percent.

**C. Installation Restrictions**

[40 CFR 60.4208]

1. After December 31, 2008, the Permittee may not install stationary CI ICE (excluding fire pump engines) that do not meet the applicable requirements for 2007 model year engines.

[40 CFR 60.4208(a)]

2. After December 31, 2009, the Permittee may not install stationary CI ICE with a maximum engine power of less than 25 HP (excluding fire pump engines) that do not meet the applicable requirements for 2008 model year engines. [40 CFR 60.4208(b)]
3. After December 31, 2012, the Permittee may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 175 HP, including those above 750 HP, that do not meet the applicable requirements for 2011 model year non-emergency engines. [40 CFR 60.4208(e)]
4. After December 31, 2013, the Permittee may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 75 HP and less than 175 HP that do not meet the applicable requirements for 2012 model year non-emergency engines. [40 CFR 60.4208(d)]
5. After December 31, 2014, the Permittee may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 25 HP and less than 75 HP that do not meet the applicable requirements for 2013 model year non-emergency engines. [40 CFR 60.4208(c)]
6. After December 31, 2016, the Permittee may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 750 HP that do not meet the applicable requirements for 2015 model year non-emergency engines. [40 CFR 60.4208(f)]
7. After December 31, 2018, the Permittee may not install non-emergency stationary CI ICE with a maximum engine power greater than or equal to 804 HP (600 KW) and less than 2,680 HP (2,000 KW) and a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder that do not meet the applicable requirements for 2017 model year non-emergency engines. [40 CFR 60.4208(g)]
8. The requirements of II.C.1 through 7 of this Attachment do not apply to stationary CI ICE that have been modified or reconstructed, and do not apply to engines that were removed from one existing location and reinstalled at a new location. This provision does not extend to imported units which shall be treated as new sources. [40 CFR 60.4208(i) & (h)]

D. Compliance

[40 CFR 60.4211]

1. The Permittee must operate and maintain the applicable stationary CI internal combustion engine according to the manufacturer's emission-related written instructions or procedures developed by the Permittee that are approved by the engine manufacturer. In addition, the Permittee may only change those settings that are permitted by the manufacturer. [40 CFR 60.4211(a)]
2. With respect to pre-2007 model year stationary CI ICE subject to this Attachment, the Permittee must demonstrate compliance according to one of the following methods: [40 CFR 4211(b)]
  - a. Purchasing an engine certified according to 40 CFR part 89 or 40 CFR part 94, as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.
  - b. Keeping records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in 40 CFR 60.4212 and the methods must have been followed correctly.

- c. Keeping records of engine manufacturer data indicating compliance with the standards.
- d. Keeping records of control device vendor data indicating compliance with the standards.
- e. Conducting an initial performance test to demonstrate compliance with the emission standards according to the requirements specified in 40 CFR 60.4212, as applicable.

III. Monitoring Requirements

[PCC 17.12.185.A.3.d]

Diesel Particulate Filter Installation

If the Permittee owns or operates a stationary CI internal combustion engine equipped with a diesel particulate filter to comply with the emission standards in 40 CFR 60.4204, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached.

[40 CFR 60.4209(b)]

IV. Recordkeeping Requirements

[PCC 17.12.185.A.4]

A. With respect to engines subject to this Attachment that are greater than 175 HP and are not manufacturer-certified, the Permittee must keep records of the following information:

[40 CFR 60.4214(a)(2)]

- 1. All notifications submitted to comply with 40 CFR 60 Subpart IIII (this Attachment) and all documentation supporting any notification;
- 2. Maintenance conducted on the engine;
- 3. If the stationary CI internal combustion is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards; and
- 4. If the stationary CI internal combustion is not a certified engine, documentation that the engine meets the emission standards.

B. Diesel Fuel Recordkeeping

The Permittee shall maintain records that verify compliance with the diesel fuel requirements in II.B of the Specific Conditions.

V. Reporting Requirements

[40 CFR 60.4214(a)(1)] [PCC 17.12.185.A.5]

With respect to engines subject to this Attachment that are greater than 175 HP (130 KW) and are not manufacturer-certified, the Permittee must submit an initial notification as required in 40 CFR 60.7(a)(1). The notification must include the following information:

- A. Name and address of the Permittee;
- B. The address of the affected source;
- C. Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement;

D. Emission control equipment; and

E. Fuel used.

VI. Testing Requirements

[40 CFR 60.4212] [PCC 17.12.185.A.3.a]

Should the Permittee elect to or be required to conduct performance testing to demonstrate compliance with the applicable standards of this Attachment, the Permittee shall do so in accordance with 40 CFR 60.4212.

VII. Additional Requirements

[40 CFR 60.4218 & 60.4214(b)]

The General Provisions of 40 CFR 60.1 through 19 apply to applicable CI ICE as indicated in Table 8 of 40 CFR Subpart III except that the Permittee is not required to submit an initial notification unless required by section V of this Attachment.

VIII Facility Recordkeeping

[PCC 17.12.185.A.4]

All records required by, or generated to verify compliance with this attachment shall be maintained for five years.

