

## **30 TAC 117 Subchapter D, Division 2 Minor Source NO<sub>x</sub> Rule**

The applicability for 30 TAC 117 Subchapter D, Division 2 is for boilers, process heaters, stationary reciprocating internal combustion engines, and stationary gas turbines (including duct burners) at any stationary source that is not a major source of NO<sub>x</sub>.

Affected units & NO<sub>x</sub> emission specifications include:

### **Boilers & Process Heaters**

- Greater than 2.0 MMBtu/hr, except for:
  - Firing 1.8 billion Btu/yr or less, for > 2.0 MMBtu/hr but < 5.0 MMBtu/hr units
  - Firing 9.0 billion Btu/yr or less, for = or > 5.0 MMBtu/hr units.
- Emission Specification
  - Gas-fired, 0.036 lb/MMBtu, or 30 ppmv @ 3.0% O<sub>2</sub>, dry.
  - Liquid-fired, 0.072 lb/MMBtu, or 60 ppmv @ 3.0% O<sub>2</sub>, dry.

### **Stationary Gas Turbines**

- All stationary gas turbines placed into operation after 10/1/01, and stationary gas turbines greater than 1.0 megawatt placed into operation on or before 10/01/01.
- Emission Specification
  - All, 0.15 lb/MMBtu.

### **Engines**

- All stationary engines except for engines:
  - less than 50 hp,
  - used for research & testing,
  - used for performance verification & testing,
  - used solely to power other engines or gas turbines during startup,
  - used exclusively for emergency, except for 52 hours/year for testing/maintenance (excluding new, modified, reconstructed, or relocated diesel engines placed into service after 10/1/01),
  - used for officially declared disaster/state of emergency,
  - used for directly/exclusively for agricultural operations for growing crops/raising animals,
  - diesel engines placed into service before 10/1/01 operating < 100 hr/yr and haven't been modified, reconstructed, or relocated on or after 10/1/01,
  - new, modified, reconstructed, or relocated stationary diesel engine placed into service on or after 10/1/01 that operates < 100 hr/yr in other than emergencies, and meets emission specifications for non-road engines in 40 CFR 89.112(a).
- Emission Specifications:
  - Stationary gas-fired engines:
    - Land-fill gas, 0.60 g/hp-hr.
    - All others, 0.50 g/hr-hr.

Stationary dual-fuel engines,

- All, 5.83 g/hp-hr.

Diesel engines:

- Placed into service before 10/01/01, not modified, reconstructed or relocated after 10/01/01, 11.0 g/hp-hr.

- All other diesel engines:

engines between 50 - 100 hp & installed, modified, reconstructed or relocated (IMRR)

10/1/01 - 9/30/03, 6.9 g/hp-hr,

10/1/03 - 9/30/07, 5.0 g/hp-hr,

10/1/07 or later, 3.3 g/hp-hr.

engines between 100 - 175 hp & IMRR:

10/1/01 - 9/30/02, 6.9 g/hp-hr,

10/1/02 - 9/30/06, 4.5 g/hp-hr,

10/1/06 or later, 2.8 g/hp-hr.

engines between 175 - 300 hp & IMRR:

10/1/01 - 9/30/02, 6.9 g/hp-hr,

10/1/02 - 9/30/05, 4.5 g/hp-hr,

10/1/05 or later, 2.8 g/hp-hr.

engines between 300 - 600 hp & IMRR:

10/1/01 - 9/30/05, 4.5 g/hp-hr,

10/1/05 or later, 2.8 g/hp-hr.

- engines between 600 - 750 hp & IMRR:

10/1/01 - 9/30/05, 4.5 g/hp-hr,

10/1/05 or later, 2.8 g/hp-hr.

- engines between 750 or greater hp & IMRR:

10/1/01 - 9/30/05, 6.9 g/hp-hr,

10/1/05 or later, 4.5 g/hp-hr.

**Alternative Emission Specification**

Units with annual capacity factor of 0.0383 or less, 0.060 lb/MMBtu.