



Air Pollution Control Board  
Brian P. Bilbray District 1  
Dianne Jacob District 2  
Pamela Slater District 3  
Leon L. Williams District 4  
John MacDonald District 5

Air Pollution Control Officer  
R. J. Sommerville

## COMPLIANCE ADVISORY

### Notice of Adoption of New Rule 69.4 Stationary Reciprocating Internal Combustion Engines

On September 27, 1994, the Air Pollution Control Board adopted Rule 69.4, a new rule that regulates emissions of oxides of nitrogen (NO<sub>x</sub>) resulting from new and existing stationary reciprocating internal combustion engines. The rule regulates emissions from stationary reciprocating internal combustion engines in San Diego County with a power rating greater than 50 brake horsepower (BHP), but only applies to such engines located at major sources (facilities emitting 50 tons of NO<sub>x</sub> per year or more).

Rule 69.4 establishes separate NO<sub>x</sub> emissions standards for rich-burn and lean-burn engines operated on gaseous fuel or gasoline and for engines operating on diesel fuel.

The new rule will accomplish the following:

#### Exemptions

Engines used exclusively in connection with a structure designed for and used as a dwelling for not more than four families, and engines used exclusively in agricultural operations for the growing of crops or the raising of fowls are exempt from all rule requirements.

Additionally, NO<sub>x</sub> emission standards do not apply to:

- Engines operating less than 200 hours per calendar year;
- Emergency standby engines provided that their operation for maintenance purposes does not exceed 52 hours per calendar year;
- Emergency standby engines at a nuclear generating station either during emergency situations or for maintenance purposes, provided that the operation for maintenance purposes does not exceed 500 hours per calendar year;

- Any engine used in conjunction with military tactical deployable equipment operated at military sites, provided that the operation of the engine does not exceed 1,000 hours per calendar year.

**NOx emission limits**

Limit NOx emissions to 50 parts per million, by volume, (ppmv) calculated at 15% oxygen, on dry basis, for rich-burn engines operating on a gaseous fuel or gasoline or reduce uncontrolled emissions by 90%.

Limit NOx emissions to 125 ppmv calculated at 15% oxygen, on dry basis, for lean-burn engines operating on fossil derived gaseous fuel or reduce uncontrolled emissions by 80%.

Limit NOx emissions to 125 ppmv calculated at 15% oxygen, on dry basis, for engines operating on waste derived gaseous fuel or reduce uncontrolled emissions by 80%.

Limit NOx emissions 700 ppmv calculated at 15% oxygen, on dry basis, for engines operating on diesel fuel or reduce uncontrolled emissions by 25%.

**CO emission limit**

Limit carbon monoxide emissions to 4,500 ppmv calculated at 15% oxygen, on dry basis, for all engines subject to the rule.

**Recordkeeping requirements**

For all affected engines require records of engine manufacturer's name and model number, manufacturer's recommended maintenance manual, horsepower rating, type of fuel used, method of combustion, and annual engine maintenance.

Specify additional monitoring and recordkeeping requirements for rich-burn engines with add-on control equipment, lean-burn engines and diesel engines.

Specify additional recordkeeping requirements for engines exempt from NOx emission requirements.

**Test methods specified**

Specify test methods for determining compliance with the rule.

**Compliance schedule**

Specify that any existing engine at a major source of NOx emissions be in compliance with all provisions of the rule by May 31, 1995.

**Require that any new engine at a major source of NOx emissions be in compliance with the rule upon installation and startup.**

Many engines currently operating under a District Permit to Operate are already equipped to meet the emissions standards of the proposed rule. However, there are a number of engines in the District, mostly diesel engines, that are not yet required to limit their emissions. Some of these engines may have to be retrofitted with combustion modifications to meet the NOx emissions standards of Rule 69.4.

For more information, please call the District's Engineering Division at (619) 694-3307.

For a copy of Rule 69.4, please call (619) 694-3307.



#### Air Pollution Control Board

Greg Cox	District 1
Dianne Jacob	District 2
Pam Slater	District 3
Ron Roberts	District 4
Bill Horn	District 5

#### Air Pollution Control Officer

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## COMPLIANCE ADVISORY

### SECOND NOTICE FOR MAY 31, 1995 COMPLIANCE SCHEDULE FOR:

#### Rule 69.4 Stationary Reciprocating Internal Combustion Engines

On September 27, 1994, the Air Pollution Control Board adopted Rule 69.4, a new rule that regulates emissions of oxides of nitrogen (NOx) resulting from new and existing stationary reciprocating internal combustion engines. The rule regulates emissions from stationary reciprocating internal combustion engines in San Diego County with a power rating greater than 50 brake horsepower (BHP), but only applies to such engines located at major sources (facilities emitting 50 tons of NOx per year or more). In October 1994, a Compliance Advisory was sent to sources and interested parties advising them of the rule requirements.

**By May 31, 1995, any owner or operator of an engine subject to the requirements of this rule must meet one of the following:**

- (1) For an existing engine which does not need modification and/or add-on control equipment, submit documentation to the Air Pollution Control District's (District) Engineering Division showing the engine is in compliance with all applicable requirements. Please call the contacts listed below to determine the specific information needed for your facility; or
- (2) For an existing engine which does require modification and/or add-on control equipment, the modification and/or installation of add-on equipment must be completed by May 31, 1995 and have been constructed in accordance with an Authority to Construct. Applications for Authority to Construct were required to be submitted to the District no later than January 27, 1995.

Attached is a copy of the first advisory which contains more detailed information on rule requirements, exemptions, recordkeeping, etc.

If you have any questions regarding this advisory, please contact Gary Smith, Engineering Division, at (619) 694-3587 or Jerry Carrier, Compliance Division, at (619) 495-5342.

For a copy of Rule 69.4, please call (619) 694-3307.