



COMPLIANCE ASSISTANCE BULLETIN
January 2009

RULE 4320 - Advanced Emission Reduction Options for Boilers, Steam Generators, and Process Heaters with a Total Rated Heat Input greater than 5.0 MMBTU/HR

Rule 4320 was adopted on October 16, 2008. The rule contains provisions to lower NO_x emissions or pay an annual emissions fee, and to reduce SO_x emissions from boilers, steam generators, and process heaters. Compliance schedules are staggered according to the criteria stated below. Key provisions of the rule are as follows:

NO_x Emission Reduction Options

Operators of units subject to this rule are required to comply with **ONE** of the following options:

1. Meet the NO_x emission limits specified in Section 5.2 (Table 1). NO_x emission limits range from 5 to 12 ppmv at 3% O₂ depending on unit type, heat input, fuel type, and the chosen option of Standard, Enhanced, or Staged Enhanced Schedule. Accordingly, compliance deadlines are specified from July 1, 2010 to January 1, 2014.
2. Pay an annual emissions fee to the District beginning in 2010 as specified in Section 5.3 for units that will not comply with the applicable NO_x limits. The annual emissions fee calculated as required in the rule is based on the actual emissions from the units during the previous calendar year, not the difference between the actual emissions and the rule limits.
3. Limit heat input to comply with the Low-Use Unit requirements specified in Section 5.5. For units that were installed prior to January 1, 2009, facilities can apply to modify the Permit to Operate (PTO) to limit the heat input to ≤ 1.8 billion Btu per calendar year. New units must meet the applicable NO_x limits at the time of installation.

SO_x Emission Reduction Requirements

Except for Low-Use Units, operators are required to limit and monitor SO_x emissions by complying with **ONE** of the following options:

1. Fire exclusively on PUC-quality natural gas, commercial propane, butane, or liquefied petroleum gas, or a combination of such gases. Operators shall provide a fuel sulfur analysis annually or as specified in the PTO.

2. Limit fuel sulfur content to no more than 5 grains of total sulfur per 100 standard cubic feet. Operators shall provide a fuel sulfur analysis annually or as specified in the PTO.
3. Install and properly operate an emission control system that reduces SO₂ emissions by at least 95% by weight; or limit exhaust SO₂ to ≤ 9 ppmv at 3% O₂. Operators shall conduct District-approved monitoring and a source test annually or as specified in the PTO.

INITIAL COMPLIANCE DATES AND RULE REQUIREMENTS

Below is a listing of upcoming compliance dates for Rule 4320. For additional compliance dates please see Rule 4320.

- **July 1, 2009-** For units listed in Table 1 categories B and C.2, for which the standard schedule option is chosen, an Authority to Construct (ATC) application must be submitted by July 1, 2009, and final compliance must be achieved by July 1, 2010.
- **January 1, 2010-** An Emission Control Plan must be submitted according to Section 6.4.
- **July 1, 2010-** For units that are under the option of Annual Emissions Fee, the first payment is due to the District on July 1, 2010 based on the 2009 calendar year emissions. An annual emissions fee is due on July 1 of each year thereafter.
- ATC applications for subsequent compliance deadlines are due 1 year prior to the “NO_x Compliance Deadline” listed in Section 5.2 (Table 1).
- Source tests shall be performed by the applicable “NO_x Compliance Deadline” to demonstrate full compliance.
- SO_x control requirements shall be met by the applicable “NO_x Compliance Deadline” (including those units that are under the option of Annual Emissions Fee). If a Staged Enhanced Schedule is chosen, the “NO_x Compliance Deadline” is the deadline for the Initial Limit (not the Final Limit). Refinery units, which require equipment modification, shall be in compliance with SO_x reduction requirements by July 1, 2013.

This rule may affect your operation in other ways not mentioned in this bulletin as there are further requirements and exemptions. Please consult a copy of the rule at www.valleyair.org. If you have any questions or need assistance on submitting an ATC application, please contact the District's Small Business Assistance at the following telephone numbers:

Modesto Office 209-557-6446

Fresno Office 559-230-5888

Bakersfield Office 661-392-5665

Northern Region Office
4800 Enterprise Way
Modesto, CA 95356-0244
(209) 557-6400 ♦ FAX (209) 557-6475

Central Region Office
1990 East Gettysburg Avenue
Fresno, CA 93726-0244
(559) 230-6000 ♦ FAX (559) 230-6062

Southern Region Office
34946 Flyover Court
Bakersfield, CA 93308
(661) 392-5500 ♦ FAX (661) 392-5585