

Compliance Certification for Agricultural Equipment - Boilers and Other Combustion Units

The following federally enforceable requirements may apply to boilers, or other (non-IC) combustion units at your facility. We have summarized each applicable requirement. Not all sections of each rule are included. The complete rules can be viewed online at www.sbcapcd.org/rules/dlrules.htm. For each requirement listed, you must check whether you are in compliance and if not, enter a proposed compliance date and include a separate attachment describing the actions you will take to achieve compliance by the proposed date. For assistance, contact your permit engineer or our Business Assistance Line, 961-8868.

Rule 304 – Particulate Matter – Northern Zone

A person shall not discharge into the atmosphere from any source particulate matter in excess of 0.3 grains per cubic foot of gas at standard conditions.

Method used for determining compliance:

I have knowledge that no emissions from any discrete point source of air pollution within the stationary source exceed the limits of Rule 304.

Compliance Status:

- | | | |
|---|---|---|
| <input type="checkbox"/> in compliance with rule 304 and will continue to comply with all requirements. | <input type="checkbox"/> not in compliance with rule 304 at this time, but will be by: <u> </u> / <u> </u> / <u> </u> (submit plan per instructions) | <input type="checkbox"/> these requirements do not apply to my farming operations because no equipment operated at the stationary sources is subject to Rule 304. |
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Rule 305 – Particulate Matter Concentration – Southern Zone

A person shall not discharge into the atmosphere from any source particulate matter in excess of the concentration shown in Table 305(a).

The provisions of this Rule shall not apply to emissions resulting from the combustion of liquid or gaseous fuels in steam generators or gas turbines.

Method used for determining compliance:

I have knowledge that no emissions from any discrete point source of air pollution within the stationary source exceed the limits of Rule 305.

Compliance Status:

- | | | |
|---|---|---|
| <input type="checkbox"/> in compliance with rule 305 and will continue to comply with all requirements. | <input type="checkbox"/> not in compliance with rule 305 at this time, but will be by: <u> </u> / <u> </u> / <u> </u> (submit plan per instructions) | <input type="checkbox"/> these requirements do not apply to my farming operations because no equipment operated at the stationary sources is subject to Rule 305. |
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Rule 309 – Specific Contaminants

- A. A person shall not discharge into the atmosphere from any single source of emission any one or more of the following contaminants, in any sate or combination thereof, exceeding in concentration at the point of discharge:
 - 1. Sulfur compounds calculate as SO₂: 0.2%, by volume.
 - 2. Combustion Contaminants:
 - a. Northern Zone: 0.3 grains/ft³ of gas calculated to 12% CO₂
 - b. Southern Zone: 0.1 grains/ft³ of gas calculated to 12% CO₂

- D. Incinerator Buring – Southern Zone
 - 1. A person shall not discharge into the atomosphere from any incinerator or other equipment used to dispose of combustible refuse by burning:
 - a. Particulate matter in excess of 0.1 grains/ft³ of gas calculated to 12% CO₂ for equipment having design burning rates > 100 lbs./hr.
 - b. Particulate matter in excess of 0.3 grains/ft³ of gas calculated to 12% CO₂ for equipment having design burning rates ≤ 100 lbs./hr.
 - c. CO₂ produced by combustion of fuel shall be excluded from calculations to 12% CO₂ in a. and b.

- E. Fuel Burning Equipment
 - 3. A person shall not build, erect, install or expand any non-mobile fuel burning equipment unit unless the discharge into the atmosphere of contaminants will not exceed any of the following rates:
 - a. 200 lbs./hr. of sulfur compounds calculated as SO₂
 - b. 140 lbs./hr. of nitrogen oxides, calculated as NO₂
 - c. 10 lbs./hr. of combustion contaminants derived from the fuel.

- F. Fuel Burning Equipment – Oxides of Nitrogen – Southern Zone

A person shall not discharge into the atmosphere from any non-mobile fuel burning article, machine, equipment or other contrivance, having a maximum heat input rate > 1,775 million Btu/hr., flue gas have a concentration of nitrogen oxides, calculated as NO₂ at 3% O₂, in excess of 125 ppm when fired by a gaseous fuel and 225 ppm when fired by a liquid or solid fuel.

- G. Carbon Monoxide – Southern Zone
 - 1. The provisions of §G. shall not apply to emissions from internal combustion engines.
 - 2. A person shall not discharge into the atmosphere CO in concentrations exceeding 2000 ppm by volume (dry).

Method used for determining compliance:

I have knowledge that no emissions from any discrete point source of air pollution within the stationary source exceed the limits of Rule 309. Source test results that verify compliance are attached.

Compliance Status:

- in compliance with rule 309 and will continue to comply with all requirements. not in compliance with rule 309 at this time, but will be by: ___/___/___ (submit plan per instructions) no activities subject to this requirement.

Rule 311 – Sulfur Content of Fuels

- B. No person shall burn within any portion of the Southern Zone any gaseous fuel containing sulfur compounds in excess of 15 grains per 100 cubic feet (calculated as H₂S) or any liquid fuel having sulfur content in excess of 0.5% by weight.
- C. No person shall burn within any portion of the Northern Zone any gaseous fuel containing sulfur compounds in excess of 50 grains per 100 cubic feet (calculated as H₂S) or any liquid fuel having sulfur content in excess of 0.5% by weight.

Method used for determining compliance:

I have knowledge that all fuels used at this stationary source comply with the sulfur content limitations stipulated in Rule 311.

Compliance Status:

- in compliance with rule 311 and will continue to comply with all requirements. not in compliance with rule 311 at this time, but will be by: __/__/____ (submit plan per instructions) no activities subject to this requirement.

Rule 342 – Control of Oxides of Nitrogen from Boilers, Steam Generators, and Process Heaters

A. Applicability

This rule applies to boilers, steam generators, and process heaters with rated heat inputs greater than or equal to 5 million Btu per hour.

D. Requirements – Emission Standards

- 1. Units rated \geq 5 million Btu/hour and permitted annual heat input of \geq 9 billion Btu/hour emissions of NO_x shall not exceed:
 - a. 30 ppmv or 0.036 lbs./mmBtu when operated on gas
 - b. 40 ppmv or 0.052 lbs./mmBtu when operated on nongaseous fuel.CO concentration shall not exceed 400 ppmv.
- 2. Units Units rated \geq 5 million Btu/hour and permitted annual heat input of $<$ 9 billion Btu/hour shall be:
 - a. operated such that stack gas O₂ concentrations $<$ 3%; or
 - b. O₂ trim system set at 3.00% \pm 0.15%; or
 - c. annual tuning; or
 - d. operated in compliance with applicable emission level of D.1.

E. Requirements – Equipment

F. Requirements – Compliance Determination

G. Requirements – Testing

I. Record Keeping

J. Reporting

Method used for determining compliance:

I have knowledge that all boilers with heat inputs greater than or equal to 5 MMBtu/hour that are operated on the stationary source comply with the stipulations of Rule 342.

Compliance Status:

- in compliance with rule 342 and will continue to comply with all requirements. not in compliance with rule 342 at this time, but will be by: __/__/____ (submit plan per instructions) no activities subject to this requirement.

Rule 352 – Natural Gas-Fired Fan-Type Central Furnaces and Residential Water Heaters

D. Requirements – General

No person shall supply, sell, offer for sale, install, or solicit the installation of any natural gas-fired fan-type central furnace or residential water heater for use within the District after March 16, 2000:

1. With emissions of NOx in excess of 40 nanograms/joule or 0.093 lbs./MMBtu of heat output. That is not certified in accordance with §E. of the Rule 352.

Method used for determining compliance:

I have knowledge that all new natural gas-fired fan-type central furnaces and residential water heaters purchased after March 16, 2000 that are operated on the stationary source comply with the stipulations of Rule 352.

Compliance Status:

- in compliance with rule 352 and will continue to comply with all requirements. not in compliance with rule 352 at this time, but will be by: __/__/____ (submit plan per instructions) no activities subject to this requirement.

Rule 360 – Emissions of Oxides of Nitrogen from Large Water Heaters and Small Boilers

C. Requirements

1. After Oct. 17, 2003 no person shall install any new unit with rated heat capacity $\geq 75,000$ Btu/hour and $\leq 400,000$ Btu/hour that does not meet the following requirements:
 - a. NOx emissions ≤ 40 nanograms/joule, or 93 lbs./billion Btu heat output, or 55 ppm NOx @ 3.00% O₂ stack gas by volume (dry); and
 - b. The unit is certified by the Control Officer
2. After Oct. 17, 2003 no person shall install any new unit with rated heat capacity $> 400,000$ Btu/hour and $\leq 2,000,000$ Btu/hour that does not meet the following requirements:
 - a. NOx emissions ≤ 30 ppm NOx @ 3.00% O₂ stack gas by volume (dry) and CO emissions ≤ 400 ppm @ 3.00% O₂ stack gas by volume (dry); and
 - b. The unit is certified by the Control Officer

Method used for determining compliance:

I have knowledge that all new boilers and water heaters purchased after October 17, 2003 with heat inputs greater than or equal to 75,000 Btu/hour and less or equal to 2 MMBtu/hour that are operated on the stationary source comply with the stipulations of Rule 360.

Compliance Status:

- in compliance with rule 360 and will continue to comply with all requirements. not in compliance with rule 360 at this time, but will be by: __/__/____ (submit plan per instructions) no activities subject to this requirement.