

**PARKER CHART SUMMARY OF SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT  
BOILER, WATER HEATER & PROCESS HEATER REGULATIONS EMISSION REQUIREMENTS  
July 2008**

RULE 1146.2 (Passed by SCAQMD 1/9/98)								
NATURAL GAS FIRED BOILERS, WATER HEATERS, & PROCESS HEATERS FROM 75,000 (1.8HP) TO 2,000,000 (48HP) BTUH INPUT								
State	County	District/ Area	Rule #	Date	New Boiler/ Retrofit Rule	BTUH RANGE	NOx & CO @ 3% O2 IN PPM	Exemptions & Notes
CA	Orange, and portions of LA, Riverside & San Bernardino	SCAQMD	1146	January 1, 2000	New	400,000-2,000,000 10-48 HP (Type 2 Units)	30/400	Manufacturers Certification required
			1146	January 1, 2001	New	75,000-400,000 1.8-10 HP (Type 1 Units)	*55/400	Manufacturers Certification Required *55 PPM or 40 nanograms per joule NOx generation.
			1146	July 1, 2002	Retrofit	1,000,000-2,000,000 24-48 HP (Type 2 Units)	30/400	Phase 1 Applicable date for Units manufactured prior to 1992. Exemption: Fuel use < 9000 Therms / year
			1146	1/1/2006 and After	Retrofit	400,000-2,000,000 10-48 HP (Type 1 & 2 Units)	30/400	Exemption: Fuel use < 9000 Therms / year <b>Phase 2:</b> By January 1, 2006 all existing boilers in the field with an input of 400,000 to 2,000,000 BTUH (10-48HP) should have been retrofitted to Low Nox or replaced with a new unit if they were manufactured prior to the year 1992 (i.e 1991 & before) and they do not qualify for an exemption. <b>Staggered Compliance Dates:</b> Up until the year 2014 staggered compliance based on the date of manufacture is required per the following schedule for units from 400,000-2,000,000 BTUH (10-48HP.) This schedule allows a 15 year useful life on the unit.  1992-Units-January 1, 2007 compliance date 1993-Units-January 1, 2008 compliance date 1994-Units-January 1, 2009 compliance date 1995-Units-January 1, 2010 compliance date 1996-Units-January 1, 2011 compliance date 1997-Units-January 1, 2012 compliance date 1998-Units-January 1, 2013 compliance date 1999-Units-January 1, 2014 compliance date

**NOTES:**

- 1 A Type 1 unit is a unit from 75,000 to < 400,000 BTUH (1.8-10 HP) manufactured after Jan. 1, 2001.
- 2 A Type 2 unit is a unit from 400,000 to 2,000,000 BTUH (10-48 HP) manufactured after Jan 1, 2000.
- 3 Rule 1146.2 includes a requirement that the owner of a Type 2 Unit (400,000-2,000,000 BTU) perform maintenance in accordance with the manufacturer's recommendations. Also, the owner must possess the operation and maintenance manual and must maintain a record of maintenance activity on the boiler for the last 3 years. Parker Boiler recommends our boilers (for Rule 1146.2, 30 ppm) be tuned once a year. Normal maintenance activity for the particular boiler should also be done by the Owner.
- 4 The Lancaster Area of Los Angeles county is no longer under the Jurisdiction of the SCAQMD.
- 5 To prove less than 9,000 therms/yr. gas usage, the owner must be able to present the facility gas bill or have a dedicated fuel meter, or an hour meter. Logs of fuel and hour meters are required.
- 6 Units located at Reclaim Facilities are exempt.
- 7 All information subject to change. **Confirm all information with the SCAQMD.**

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FEBRUARY 2009**

**RULES 219, 222, 1146 & 1146.1**

**BOILERS & HEATERS GREATER THAN 1,000,000 BTUH INPUT (24 HP)**

State	County	District/ Area	Rule #	Date	New Boiler/ Retrofit Rule	BTUH Range	Oil Permit Thresh old	NOx & CO Gas @ 3% O2 (IN PPM)	NOx & CO Oil @ 3% O2 (IN PPM)	Exemptions & Notes
CA	Orange, and portions of LA, Riverside & San Bernardino	SCAQMD	219	1988	New	2,000,000 and larger	All Units	NOx ( 12 ) CO(50/100) (for minor sources)	?	CO requirement is 50 PPM for fire tube boilers and 100 PPM for water tube boilers. *Major source level not certain. Permit required.
			222	2001	New & Existing	1,000,000- 2,000,000	All Units	N/A	N/A	Fee Required for Boiler Registration
			1146	1989	Retrofit	>5000000	All Units	30/400	40/400	Exemption - Less than 90,000 Therms use with fuel use data and tune ups. Permit required.
				<b>2014</b>	Retrofit			9 or 12/400	—	<b>2014</b> New Compliance date. 12 ppm for atmospheric type, quarterly tune ups may be required.
			1146.1	1994	Retrofit	2,000,000- 5,000,000	All Units	30/400	30/400	Exemption - Less than 18,000 Therms use with fuel use data and tune ups. Permit required.
				<b>2014</b>	Retrofit			9 or 12/400	—	<b>2014</b> New Compliance date. 12 ppm for atmospheric type, quarterly tune ups may be required.

**NOTES:**

- 1 All information subject to change. **Confirm all information with the SCAQMD.**
- 2 The Lancaster Area of Los Angeles County is no longer under the Jurisdiction of the SCAQMD.
- 3 For an Owner to prove fuel use less than 18,000 or 90,000 therms per year, they must have fuel use recods for 1 full year. If the building gas bill shows more than 18,000 or 90,000 therms per year gas usage, then a dedicated fuel meter is required for the boiler.
- 4 For new Thermal Liquid Heaters greater than 2,000,000 BTUH, higher NOx levels may be allowed for the boiler.
- 5 For units less than 2,000,000 BTUH, refer to Rule 1146.2.