

According to the South Coast Air Quality Management District, all power washers operating in Southern California require forms for either a permit or filing of operation with AQMD.

The following is Hydro Tek's interpretation of the SCAQMD Burner emission standards and rules for operation as of January 2012 as a helpful guideline only:



NATURAL GAS AND PROPANE HEATED POWER WASHERS

Natural gas and propane heated pressure washers must follow **Rule 1146.2** Emissions of Oxides of Nitrogen (NOx) from large water heaters and small boilers and process heaters. Because of their inclusion in **Rule 219** Natural Gas and Propane heated pressure washers below 1 million Btu's do not require a written permit. Pressure washers above 2 million Btu's will need a permit. Under section (2) (b) NG and LPG machines under 2,000,000 Btu's are exempt.

Air Quality Regulation: All NG and LPG pressure washers must comply with the requirement of 20ppm of NOx at 3% oxygen which was amended in 2008. NG and LPG pressure washers fall under Regulation 1146.2. 1146.2 requires NOx emissions to be 20ppm or less. As a side note, no pressure washer complies with the standard of 20ppm of NOx above 400,000 Btu's. Until an amendment changes the only option to operate a NG or LPG machine is to use the 9,000 therms per calendar year exemption specified under Rule 222.

When the requirement can't be met the equipment owner can file and pay a filing fee under **Rule 222** for \$169.49 (subject to change) and check the Note 3: for the 9,000 therms per calendar year, (you must be able to demonstrate therm usage with gas bills or, if necessary, a separate meter on the gas line to the burner). This may require a fuel meter to measure the amount of fuel used in a year.

DIESEL HEATED AND OIL FIRED POWER WASHERS

Oil fired heated pressure washers must follow **RULE 1147 NOx Reduction from miscellaneous sources**. Oil Fired Pressure Washers will be classified under regulation 1147. There is no exemption for oil fired pressure washers. **Permitting is required.** Under regulation 1147 the end user, not the distributor or dealer, will need a permit. If they are a large business, more than 10 employees and making more than \$500,000 per year, the cost of a permit, under Schedule A, is \$1,332.65 and under Schedule B is \$2,123.92.

Small Businesses pay 50% of applicable permit processing fees if the following definition is met:

- (A) the number of employees is 10 or less; and
- (B) the total gross annual receipts are \$500,000 or less; or
- (C) not-for-profit training center

In most cases the owner can request a permit under Schedule A, instead of Schedule B. A fees listing for Rule 301 can be found on AQMD website.

Contact AQMD for information and the latest applications and fee schedules.

South Coast AQMD, 21865 Copley Dr, Diamond Bar, CA 91765

(909) 396-2000, 800-CUT-SMOG (288-7664)

SCAQMD website: <http://www.aqmd.gov>

- Form for Rule 222 can be found here: <http://www.aqmd.gov/permit/forms.html>
- Or Form 400-E-9a here: <http://www.aqmd.gov/permit/forms.html#Supplemental Forms>

SAMPLE FORMS BELOW: Refer to AQMD website to fill out forms online.



South Coast Air Quality Management District
 P. O. Box 4944
 Diamond Bar, CA 91765
 (909) 396-2000

APPLICATION FOR RULE 222 FORM 222-B BOILERS/WATER HEATERS AND PROCESS HEATERS (1 – 2 Million BTU/Hr Heat Input)

Section I – Administrative Information

LEGAL NAME OF OPERATOR/OWNER				
BUSINESS MAILING ADDRESS		STREET	STATE	ZIP CODE
EQUIPMENT LOCATION ADDRESS	STREET	CITY	STATE	ZIP CODE
				E-MAIL ADDRESS

Sample

Section II – Technical Information

BOILERS/WATER HEATERS & PROCESS HEATERS EQUIPMENT INFORMATION
 (EQUIPMENT WITH A RATING HEAT INPUT FROM 1,000,000 BTU PER HOUR UP TO AND INCLUDING 2,000,000 BTU PER HOUR)

FOR SCAQMD
 USE

CHECK ONLY ONE

- ? BOILER/HEATER (Certified by SCAQMD) (Note 1)
- ? RETROFITTED BOILER / HEATER (Note 2)
- ◆ BOILER / HEATER (Gas usage < 9000 therms/calendar year) (Note 3)
- ? BOILER / HEATER (Note 4)

MFR. Hydro Tek Systems, Inc MODEL NO. On product label SERIAL NO. On metal label

EQUIPMENT RATING (BTU/HR): On product label or Tek sheet

- NOTE 1: IF MANUFACTURED ON OR AFTER 1/1/2000, IT MUST BE CERTIFIED PER RULE 1146.2
- NOTE 2: RETROFITTED (LOW NO_x BURNER) TO COMPLY WITH RULE 1146.2
- NOTE 3: EXEMPT FROM RULE 1146.2 IF GAS USAGE IS LESS THAN 9000 THERMS PER CALENDAR YEAR
- NOTE 4: COMPLIANCE WITH RULE 1146.2 MAY BE REQUIRED

FILING FEE: \$169.49 PER EQUIPMENT (EFFECTIVE 7/1/11 – 6/30/12)

NOTE: SEPARATE FORM FOR EACH BOILER/WATER HEATER/PROCESS HEATER REQUIRED

 FACILITY I.D. #

 APPLICATION
 NO.

I HEREBY CERTIFY THAT ALL INFORMATION CONTAINED HEREIN AND INFORMATION SUBMITTED WITH THIS APPLICATION IS TRUE AND CORRECT.
 SIGNATURE OF RESPONSIBLE OFFICIAL OF FIRM: _____ DATE SIGNED: _____

TYPE OR PRINT NAME OF RESPONSIBLE OFFICIAL OF FIRM:	TITLE OF RESPONSIBLE OFFICIAL OF FIRM:	RESPONSIBLE OFFICIAL'S TELEPHONE NUMBER () -
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AQMD USE ONLY	CHECK/MONEY ORDER #	AMOUNT	VALIDATION
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Use the actual form from AQMD website at <http://www.aqmd.gov/permit/forms.html> which is a pdf fill in form.
This form is for instruction only. If you have any questions you can reach forms help at SCAQMD at 909-396-3529



South Coast Air Quality Management District
Form 400-E-9a
External Combustion: Boiler/Heater

Sample

Mail To:
 SCAQMD
 P.O. Box 4944
 Diamond Bar, CA 91765-0944
 Tel: (909) 396-3385
 www.aqmd.gov

This form must be accompanied by a completed Application for a Permit to Construct/Operate - Forms 400-A, Form 400-CEQA, and Form 400-PS.

Section A - Operator Information

Facility Name (Business Name of Operator That Appears On Permit): _____ **Valid AQMD Facility ID** (Available On Permit Or Invoice Issued By AQMD): _____

Address where the equipment will be operated (for equipment which will be moved to various location in AQMD's jurisdiction, please list the initial location site):

If you are mobile list your home office location and check Various Locations **Fixed Location** **Various Locations**

Section B - Equipment Description

Boiler/Heater	Manufacturer: <u>Hydro Tek Systems, Inc</u>	Model: <u>Product label lists number</u>	Serial No.: <u>Attached metal label</u>
	Max. Heat Input Rating (Higher Heating Value - HHV): <u>Machine listed BTU value</u> BTU per hour	Boiler Type: <input checked="" type="radio"/> Water-Tube **Mark water tube <input type="radio"/> Fire-Tube	
Burner	Manufacturer: <u>Diesel burners Beckett or Wayne, LPG or NG Hydro Tek Systems</u>	Model: <u>Diesel ADC, SM, AFG (Beckett) or 384007 (Wayne)</u> <u>Leave blank for LPG or NG</u>	
	Number of burners: <u>1</u>	Rating of each burner (HHV): <u>Machine listed BTU value</u>	Type: <input type="radio"/> Low NOx (please attach manufacturer's specifications) <input type="radio"/> Other: <u>Write N/A and do not check either type</u>
Blower	HP: <u>Write N/A</u>		
Fuel Type	Primary Fuel: <input checked="" type="radio"/> Natural Gas <input type="radio"/> LPG <input type="radio"/> Refinery Gas* <input type="radio"/> Digester Gas* <input type="radio"/> Landfill Gas* <input type="radio"/> Other*: _____ <input type="radio"/> Fuel Oil (Specify Grade): <u>Diesel fired grade is #2</u> If Digester or Landfill Gas, List Higher Heating Value: _____		
	Secondary or Stand-by Fuel: <input type="radio"/> Natural Gas <input type="radio"/> LPG <input type="radio"/> Refinery Gas* <input type="radio"/> Digester Gas* <input type="radio"/> Landfill Gas* <input type="radio"/> Other*: <u>Do not mark this section</u> <input type="radio"/> Fuel Oil (Specify Grade): _____ If Digester or Landfill Gas, List Higher Heating Value: _____		
Type Of Controls (Check All That Apply)	<input type="checkbox"/> Low NOx Burner <input type="checkbox"/> Flue Gas Recirculation <input type="checkbox"/> Oxygen Trim <input type="checkbox"/> CO Catalyst¹ <input type="checkbox"/> Selective Catalytic Reduction (SCR)¹ <input type="checkbox"/> Thermal DeNOx (Selective Non-Catalytic Reduction, SNCR)¹ <input type="checkbox"/> Other (specify): <u>Do not mark this section</u>		
	¹ A separate permit is required, please see Form 400-E-GI for instructions.		
Fuel Usage	Average Load _____ % OR Average Firing Rate (HHV): <u>BTU Rating ÷ 1 Million</u> _____ MMBTU/hr		

Section C - Process Description

Operating Parameters **Turn Down Ratio:** Do not mark this section **Percent Excess Air:** _____ %

Operating Schedule Enter in this section machine operating hours
Normal: _____ hours/day _____ days/week _____ weeks/yr
Maximum: _____ hours/day _____ days/week _____ weeks/yr

Section D - Authorization/Signature

I hereby certify that all information contained herein and information submitted with this application is true and correct.

Preparer Info	Signature: _____ Date: _____	Name: _____
	Title: _____ Company Name: _____	Phone #: _____ Fax #: _____
Contact Info	Name: _____	Phone #: _____ Fax #: _____
	Title: _____ Company Name: _____	Email: _____

THIS IS A PUBLIC DOCUMENT

Pursuant to the California Public Records Act, your permit application and any supplemental documentation are public records and may be disclosed to a third party. If you wish to claim certain limited information as exempt from disclosure because it qualifies as a trade secret, as defined in the District's Guidelines for Implementing the California Public Records Act, you must make such claim at the time of submittal to the District.

Check here if you claim that this form or its attachments contain confidential trade secret information.