

DISTRICT HEADQUARTERS

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NORTHERN FIELD OFFICE

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**INFORMATION REQUIREMENTS FOR DISTRICT SPECIFIC QUESTIONS
APPLICATION FOR
AUTHORITY TO CONSTRUCT AND/OR PERMIT TO OPERATE**

BOILERS AND LIQUID HEATERS

A separate application is required for each distinct operation which consists in whole, or in part, of equipment, the use of which may cause the issuance of any air contaminant, for which emission limits have been established by the Northern Sierra Air Quality Management District. Such an operation may consist of one individual piece of equipment or a group of two or more items including control equipment.

Submit the following information with your application for an authority to construct and permit to operate:

- 1' **FACILITY LOCATION MAP:** Provide a copy of a U.S. Geological Map with the facility location clearly shown.
2. **EQUIPMENT LOCATION DRAWING:** The drawing or sketch submitted must show at a minimum the following:
 - a. The property involved and outlines and heights of all buildings on it. Identify property lines plainly. Show the location of the property with respect to streets and all adjacent properties. Identify adjacent properties. Show location of all buildings outside the property that are within 150 feet of the equipment involved in the application.
 - b. Location and identification of the boiler or liquid heater and location of stack or vent.
3. **DESCRIPTION OF OPERATION:** The application must be accompanied by a written description of each operation to be carried out in the equipment. The description must be complete and in detail concerning all operations. Particular attention must be given to explaining all stages of the operation where the discharge of any materials might contribute in any way to air pollution. All obtainable data must be supplied concerning the nature, volumes, particle sizes, weights, concentrations and height of emission point above ground level, of all types of air contaminants that may be discharged at each stage in the operation. Describe emissions of a fugitive nature.

4. **ESTIMATE OF EMISSIONS:**

- a. Provide estimates of pollutant concentrations (ppm) and mass emission rates (lb/hr). Emissions shall not exceed 200 lb/hr of sulfur oxides, 140 lb/hr nitrogen oxides, or 10 lb/hr particulate matter, per District Rule 209.
- b. Describe any combustion modifications or control devices employed to reduce NOx emissions. State estimated reduction.
- c. Best Available Control Technology (BACT) is required if pollutant daily emissions are over:

Particulate Matter (PM _{1,01})	150 lb/day
Nitrogen Oxides	220 lb/day
Sulfur Oxides	220 lb/day
Volatile Organic Compounds	220 lb/day
Carbon Monoxide	550 lb/day

5. **DRAWING OF BOILER OR HEATER:** Supply a drawing, dimensioned and to scale, in plan, elevation and as many sections as are needed to show clearly the design and operation of the equipment and the means by which air contaminants are controlled. The following must be shown:

- a. Overall size and shape of the unit.
- b. Fuel type.
- c. Fuel Consumption estimate.
- d. Submit the manufacturers catalog or specifications for the equipment.
- e. Make, model, serial number of equipment.

NOTE: When commercial equipment is to be installed, the manufacture's catalog describing the equipment may be submitted in lieu of the parts of #5 that it covers.

After the authority to construct is granted for any equipment, deviations from the approved plans are not permissible without first securing additional approval for the changes from the Northern Sierra Air Quality Management District.

BOILER AND HEATER SUMMARY

1. Company Name: _____

2. Boiler manufacturer: _____

Model Number: _____

Serial Number: _____

3. Boiler Rating: _____ BTU/hour input

4. Use: _____ steam at _____ psig _____ hot water
_____ space heating _____ industrial process

5. Fuel Type: Indicate which applies and provide the relevant information listed

Gas: _____ natural _____ LPG

H₂S content: _____ grams/100 ft³ heat content: _____ BTU/Std ft³

Oil: _____ kerosene

_____ diesel: _____ No.2 _____ No. 5 _____ No.6

Sulfur content: _____ % by weight

Nitrogen content (if No.6) _____ % by weight

6. Fuel Usage: (give average values of high/low burn)

Natural Gas

Fuel Oil

_____ ft³/hr

_____ gal/hr

_____ ft³/day

_____ gal/day

_____ ft³/yr

_____ gal/yr

7. Operating Schedule: _____ hrs/day

_____ days/week

_____ weeks/year

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