

## BOILER WORKSHEET INSTRUCTIONS

Be sure to review the following instructions prior to completing this application. More detailed instructions can be found on Page 4.

- Submit this worksheet as a supplemental document to an *Application for Authority to Construct/Permit to Operate*. If submitting this worksheet without a permit application, or in response to an AQMD request for supplemental information, locate and check the “Supplemental Information” box at the top left of Page 3.
- The worksheet must be filled out completely for all items that are applicable, except where noted as optional.
- The *Application for Authority to Construct/Permit to Operate*, all applicable emission unit and/or control device worksheet(s), and payment should be hand delivered to the AQMD drop box located ([here](#)), or mailed to:  
NNPH, AQMD  
1001 E. Ninth Street, Suite B171  
Reno, NV 89512
- One worksheet must be submitted for each boiler, even if they are identical. If multiple boilers are present, assign an Emission Unit ID (EU ID) to each boiler. An EU ID is a fictitious ID that the facility assigns (ex., boiler #1 EU ID = B1; boiler #2 EU ID = B2, etc.).
- Other forms that may be required in addition to this worksheet:
  - For emission control equipment, use the appropriate *Emission Control Device Worksheet (Control Device, Cyclone, Flare, Fabric Filter/Baghouse, or Scrubber)* and duplicate as needed. Be sure to indicate the emission unit that the control equipment is affecting.
  - If not operating on grid power and/or if there is an engine on site, use the *Internal Combustion Engine Worksheet*.

### ASSISTANCE AND RESOURCES

District Board of Health Regulations Governing Air Quality Management:

<https://www.nnph.org/programs-and-services/air-quality/regulations/index.php>

The Air Quality Management Division Permitting Department can be contacted at (775) 784-7200 or [AQMDPermitting@nnph.org](mailto:AQMDPermitting@nnph.org).

# BOILER WORKSHEET

|                                 |
|---------------------------------|
| <b><u>FOR AQMD USE ONLY</u></b> |
|                                 |
| Permit No.:                     |

## Supplemental Information

| Facility Information  |  |                         |
|---|--|-------------------------|
| 1. <input type="checkbox"/> New Permit <input type="checkbox"/> Permit Modification |  |                         |
| 2. <b>Existing facilities only.</b> Permit Number (AAIRXX-XXXX):                    |  |                         |
| 3. Facility Name:   |  |                         |
| 4. Facility Address:  |  |                         |
| City:   | State:   | ZIP Code:               |
| Specifications  |  |                         |
| 5. Emission Unit ID (EU ID):  |  |                         |
| 6. Manufacturer:  |  | 7. Date of Manufacture: |
| 8. Model No.:   | 9. Serial No.:                                   |                         |
| 10. Max. heat input rate (MMBtu/hr):  |  |                         |
| 11. Max. hours of operation per year:   |  |                         |
| 12. Primary fuel type:     Natural Gas     Diesel     Propane/LPG                   |  |                         |
| Other (specify):  |  |                         |
| 12.a. Sulfur content for distillate fuel other than diesel:                         |  |                         |
| 13. Secondary fuel type:     N/A     Natural Gas     Diesel     Propane/LPG         |  |                         |
| Other(specify):   |  |                         |
| 13.a. Sulfur content for distillate fuel other than diesel:                         |  |                         |
| 14. Max. rated emissions concentrations (in ppm) for the burner:                    |  |                         |
| NO <sub>x</sub> :   | CO:  |                         |
| 15. Exhaust stack parameters:   |  |                         |
| Height (feet):  | Diameter (inches):                               | Temperature (°F):       |
| Velocity (ft/sec):  | <u>OR</u> Exhaust Volume (ft <sup>3</sup> /min): |                         |

|  |
|--|
| <p>16. Did construction, modification, or reconstruction commence after August 17, 1971, but on or before September 18, 1978, and does the indirect heating unit have a maximum design heat input capacity to combust more than 250 MMBtu/hr?      Yes      No<br/>(If “Yes”, this boiler may be subject to <a href="#">40 CFR Part 60, Subpart D</a>)</p>                           |
| <p>17. Did construction, modification, or reconstruction commence after September 18, 1978, and does the indirect heating unit have a maximum design heat input capacity to combust more than 250 MMBtu/hr?      Yes      No<br/>(If “Yes”, this boiler may be subject to <a href="#">40 CFR Part 60, Subpart Da</a>)</p>  |
| <p>18. Did construction, modification, or reconstruction commence after June 19, 1984, and does the indirect heating unit have a maximum heat input capacity to combust more than 100 MMBtu/hr, but less than 250 MMBtu/hr?      Yes      No<br/>(If “Yes”, this boiler may be subject to <a href="#">40 CFR Part 60, Subpart Db</a>)</p>  |
| <p>19. Did construction, modification, or reconstruction commence after June 9, 1989, and does the indirect heating unit have a maximum design heat input capacity to combust 10 MMBtu/hr or more, but less than 100 MMBtu/hr?      Yes      No<br/>(If “Yes”, this boiler may be subject to <a href="#">40 CFR Part 60, Subpart Dc</a>)</p>   |
| <p>20. Is the boiler operating at a major source for hazardous pollutants?      Yes      No<br/>(If “Yes”, and the boiler/process heater is new; OR if “Yes” and construction of the boiler/process heater began after June 4, 2010, and met the applicability criteria at the time of construction, the boiler may be subject to <a href="#">40 CFR Part 63, Subpart DDDDD</a>)</p> |

***Attach manufacturer’s specification sheet(s) for the boiler and the burner. Duplicate sheet as needed.***

## DETAILED WORKSHEET INSTRUCTIONS

### Facility Information

1. Specify if the worksheet is for a new permit or for modification of an existing permit by checking the appropriate box.
2. **For existing facilities only.** Provide the permit number, which can be found at the top of page 1 of the existing Permit to Operate (ex. AAIRXX-XXXX).
3. Provide the facility name as it appears on the *Application for Authority to Construct/Permit to Operate*. If a permit already exists for this operation, enter the name as it appears on the existing permit, which can be found at the top of page 1 of the existing Permit to Operate where it says, "Permit Issued To".
4. Provide the facility address.

### Specifications

6. One worksheet must be submitted for each boiler, even if they are identical. Assign an Emission Unit ID (EU ID) to each boiler. An EU ID is a fictitious ID that the facility assigns (ex., boiler #1 EU ID = B1; boiler #2 EU ID = B2, etc.).
- 7-9. Specify the manufacturer, date of manufacture, model number, and serial number of the boiler.
10. Specify the maximum design heat input rate (in MMBtu/hr) of the boiler.
11. Specify the maximum hours of operation per year. If not 8,760 hours, the maximum provided will be an operational limit in the permit.
12. Specify the primary fuel type that will be combusted in the boiler.
  - 12.a. If distillate fuel oil or used oil/RF04 is combusted as the primary fuel type, list the proposed sulfur content of the fuel in the space provided.
13. Specify the secondary fuel type that will be combusted in the boiler or select "N/A" if not applicable.
  - 13.a. If distillate fuel oil or used oil/RF04 is combusted as the secondary fuel type, list the proposed sulfur content of the fuel in the space provided.
14. Specify the maximum rated emissions concentrations of the burner for each pollutant, as applicable. Emissions concentration rates must be supported by either manufacturer specifications or performance test results. EPA AP-42 emission factors can only be proposed for NO<sub>x</sub> and/or CO if emissions data is not available.
15. Provide exhaust stack information:
  - Exhaust stack height in feet
  - Exhaust stack diameter in inches
  - Temperature in the exhaust stack in degrees Fahrenheit
  - Exhaust stack velocity in feet per second or cubic feet per minute
- 16-20. Select the correct construction timeframe and maximum design heat input capacity for the boiler.