

GREENVILLE UTILITIES COMMISSION

**QUESTIONS AND ANSWERS FOR RFB 22-21
FOR INDIRECT NATURAL GAS FIRED WATER BATH HEATER**

MARCH 11, 2022

1) Is there a noise spec on the burner?

Noise level shall not exceed 50 dB(A) measured approximately 50' from heater.

2) What is the required minimum flux rate for the firetube?

The heat flux must be below 12,000btu/hr ft²

3) Is a skid required? If so, does it need to have a continuous drip pan?

A skid is not required. Heater will be mounted on concrete piers.

4) Is there a min expansion tank capacity?

Manufacturer shall appropriately size the expansion tank based upon the needs of the heater.

5) Is a Tee-breech required for the exhaust stack?

Yes, the heater should include a flange stack tee.

6) Does the heater need to be designed to API 12k?

API-12K shall be the design code for the heater shell; however, a certification is not required.

7) Does there need to be a bath low level shutdown switch (to protect the coil)?

Vessel shall be equipped with a high temperature shutdown.

8) Is a burner management system needed? If so, is there a brand preference? If not, how it is preferred to handle the pilot ignition and monitoring?

Burner management system not needed. Burner performance is monitored with bath temperature controller.