



**Kansas Department of Health and Environment
Division of Environment
Bureau of Air and Radiation**

DIRECT HEATING UNIT (FURNACE)

- 1) Source ID Number: _____
- 2) Company/Source Name: _____
- 3) Emission Unit Identification: _____

- 4) Process utilizing direct heating unit: _____

If process is aluminum related: Are fluxes used? Yes ___ No ___

Is chlorine demagging used? Yes ___ No ___

Is fluorine demagging used? Yes ___ No ___

If process is wool/fiberglass related, rate of emission discharge (lb/hr): Max _____ Avg _____

- 5) Type of direct heating unit: _____

If calciner, indicate type: Expansion furnace ___ Multiple Hearth ___ Other _____

Manufacturer: _____ Model No.: _____

Date of installation or latest modification: _____

Heating unit operating schedule: _____ hours/year

Maximum design heat-input rate: _____ BTU/hr

Attach a diagram of the burner configuration if available.

- 6) Charging method: _____

Describe the composition of the charge, including alloys and flux.:

1. _____ - _____ lb or ton per charge or hour*

2. _____ - _____ lb or ton per charge or hour

3. _____ - _____ lb or ton per charge or hour

4. _____ - _____ lb or ton per charge or hour

5. _____ - _____ lb or ton per charge or hour

6. _____ - _____ lb or ton per charge or hour

If amounts are per charge: (*circle the appropriate units)

Maximum charging rate: _____

Estimated annual output: _____ tons of product/year

If amounts are per hour:

Maximum design capacity of furnace: _____ lb or ton/ hour

DIRECT HEATING UNIT (FURNACE)
(cont.)

- 7) Primary Fuel: _____ Amount burned/hr _____ Annual consumption _____
Secondary Fuel: _____ Amount burned/hr _____ Annual consumption _____
- 8) Fuel Specific Data:
Natural Gas: Pipeline quality? Yes ____ If no, heating value: _____ BTU/cu. ft.
Coal: % Sulfur: _____ % Ash: _____ Heating value: _____ BTU/lb.
Fuel Oil: % Sulfur: _____ Grade: _____ Heating value: _____ BTU/gal.
Density: _____ lb. / gal.
Other (attach appropriate data): _____ % Sulfur: _____ % Ash: _____
Heating value: _____ BTU/gal. Density: _____ lb. / _____
- 9) Emissions discharged to atmosphere _____ ft. above grade through stack _____ ft. diameter at _____ °F temperature, with _____ cfm flow rate and _____ fps velocity.
- 10) Did construction, modification, or reconstruction commence after April 23, 1986; and, is the plant associated with the minerals' industry? Yes ____ No ____
If yes, this plant may be subject to NSPS, 40 CFR Part 60, Subpart UUU.
- 11) For emission control equipment, use the appropriate CONTROL EQUIPMENT form and duplicate as needed.
Be sure to indicate the emission unit that the control equipment is affecting.