Data Requirements for a Refined Risk Management Review

Source Information

The following information is required for a point source (i.e., a source that exhausts pollutants from a stack):

1. Stack height above ground
2. Stack diameter
3. Exit gas temperature
4. Exit gas exhaust flow rate (i.e., actual cubic feet per minute or dry standard cubic feet per meter) or velocity. If the flow rate is at standard conditions, provide the standard temperature assumed.
5. If there is a rain cap or if the exhaust is horizontal rather than vertical and if the stack is located on top of a building, provide a diagram showing the distance from the stack to the sides of the building upon which it is located.

If the source is not a point source, provide the following:

1. The length and width of the sides of the area over which emissions occur.
2. The height above the ground at which emissions occur.

If the pollutants are emitted from the openings of a building (i.e., doors, vents, windows, etc.) provide the following information:
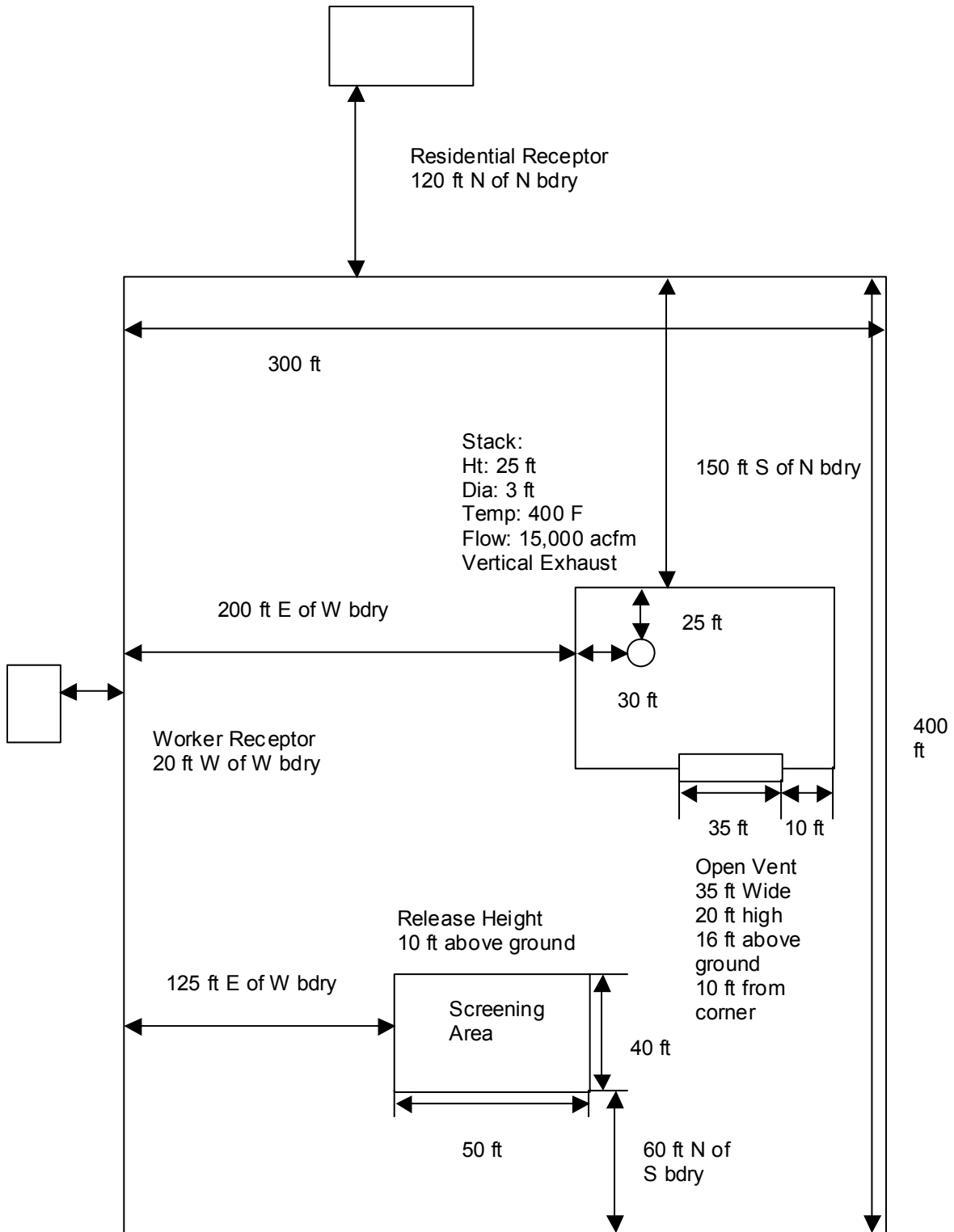
1. The height above the ground of center of the opening.
2. The width of the opening.
3. The height of the opening.
4. The distance from the opening to the nearest corner of the building.

In addition, a diagram should be provided showing the location of each source within the plant boundaries. (It is preferable for this diagram to be to scale.) Distances from one source to another should be shown. Distances to the boundaries should also be shown.

Receptor Information

The distance from the boundary of the facility and the direction (in compass points such as north, northwest, east southeast, etc.) should be provided for the nearest residence and the nearest worker (either commercial or industrial). If schools, hospitals, or other sensitive receptors are located near the facility, the distance and direction to those receptors should be provided. The receptor locations should be shown on a map or plot diagram of the facility if possible.

Note: Examples of the information needed is attached.

Residential Receptor
120 ft N of N bdry

300 ft

Stack:
Ht: 25 ft
Dia: 3 ft
Temp: 400 F
Flow: 15,000 acfm
Vertical Exhaust

150 ft S of N bdry

200 ft E of W bdry

25 ft

30 ft

Worker Receptor
20 ft W of W bdry

400 ft

35 ft   10 ft

Open Vent
35 ft Wide
20 ft high
16 ft above
ground
10 ft from
corner

Release Height
10 ft above ground

125 ft E of W bdry

Screening
Area

40 ft

50 ft

60 ft N of
S bdry

Scale: 1 in = 30 ft