

Appendix 2B Ventilation Stack Pathway Information for Long-Term X/Q Values

2B.1 Discussion

This appendix provides the gaseous effluent release pathway information for each of the three ventilation stacks used in calculating the standard plant long term X/Q values; this gaseous effluent release pathway information may also be used in generating site-specific long term X/Q values. [Table 2B-201](#) provides the relevant ventilation stack parameters for use with the XOQDOQ computer code ([Reference 2B-1](#)).

2B.2 COL Information

None

2B.3 References

- 2B-1 U.S. Nuclear Regulatory Commission, "XOQDOQ: Computer Program for the Meteorological Evaluation of Routine Effluent Releases at Nuclear Power Stations," NUREG/CR-2919, September 1982.

Table 2B-201 Ventilation Stack Parameters

Building Stack (Release Point)	Stack Average Velocity	Stack Inside Diameter	Stack Release Height Above Grade	Height of Building Above Grade	Building Dimensions
	m/sec (ft/sec)	m (ft)	m (ft)	m (ft)	m
Reactor/Fuel Building Stack	17.78 (3,500)	2.40 (7.9)	52.62 (172.6)	48.05 (157.6)	Reactor Building: X-Z plane: 49 x 48.05 Y-Z plane: 48 x 48.05 Fuel Building: X-Z plane: 21 x 22.85 Y-Z plane: 49 x 22.85
Turbine Building Stack	17.78 (3,500)	1.95 (6.4)	71.3 (234.0)	52.0 (170.6)	X-Z plane: 115 x 52 Y-Z plane: 59 x 52
Radwaste Building Stack ⁽¹⁾	17.78 (3,500)	1.34 (4.4)	18 (59.1)	12.0 (39.4)	X-Z plane: 32.8 x 12 Y-Z plane: 65 x 12

1. As discussed in FSAR [Subsection 2.3.5](#), The Radwaste Building vent stack was tested as a ground release point.