

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 that support 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-1](#) 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-1 Ventilation Stack Parameters

Building Stack (Release Point)	Stack Average Velocity m/sec (ft/min)	Stack Inside Diameter m (ft)	Stack Release Height Above Grade m (ft)	Height of Building Above Grade m (ft)	Building Dimensions m
Reactor/Fuel Building Stack	17.78 (3,500)	2.40 (7.9)	52.77 (173.09)	48.20 (158.09)	Reactor Building: X-Z plane: 49 x 48.20 Y-Z plane: 49 x 48.20 Fuel Building: X-Z plane: 21 x 23.00 Y-Z plane: 49 x 23.00
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	17.78 (3,500)	1.34 (4.4)	18.15 (59.59)	12.15 (39.89)	X-Z plane: 32.8 x 12.15 Y-Z plane: 65 x 12.15