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Memo

Date	January 17, 2025
To	Mayor Mark Spaetzel
From	John Martin, ScD, CIH, CHMM
	Steven M. Gross, CP, CPG
Subject	Peer review: The Deigan Group “Final implosion December 19, 2024 Air Monitoring Data Set”
Project Number	31201

Verdantas conducted a peer review of the Deigan Group summary report entitled “Final Implosion December 19, 2024 Air Monitoring Data Set-Former Avon Lake Generating Station”. As part of this peer review Verdantas reviewed the report for completeness, appropriate data collection methods, and reporting.

The report consists of a figure indicating locations of air monitoring stations on December 19, 2024, the day of the implosion of the former Avon Lake Generating Station. The report provides 6 summary tables for total dust analysis, respirable dust analysis, metals analysis (including mercury), particulate matter with aerodynamic diameter of 2.5 micrometers (“µm”), and silica analysis. Supporting laboratory report documentation is provided in Attachment A of the report.

Results of total dust were reported to be less than 0.49 milligrams per cubic meter (mg/m³) at all stations, except station number 5 that was positioned in a parking lot on Lake Road south of the former Avon Lake Generating Station. All results were reported less than 1% of the United States Occupational Safety and Health Administration (US OSHA) Permissible Exposure Limit (PEL) for Total Dust.

Similarly, results of respirable dust concentrations were reported to be less than 0.041 mg/m³ at all locations. Reported results are less than 1% of the US OSHA PEL for respirable dust.

Results of metals analysis, including mercury, were found to be less than the limit of quantitation, which is considerably less than the corresponding OSHA PEL for all metals, including mercury.

Results of asbestos samples collected at each station were reported to be less than 0.0010 fibers per cubic centimeter (f/cc), which is considerably less than the US OSHA PEL of 0.1 f/cc and the United States Environmental Protection Agency Building Occupancy Clearance Standard of 0.01 f/cc.

Results of respirable crystalline silica (RCS) for all reported by the laboratory to be less than the limit of quantitation, and therefore less than the US OSHA PEL of 0.05 mg/m³.

In summary, the results of measurements and analysis collected by the Deigan Group appear to align with results collected by Verdantas. In both cases, the risk of overexposure to site personnel to any of the constituents of concern is minimal. Moreover, based upon real Time monitoring and time integrated air sampling, the risk to occupational or public health appears minimal for all constituents of concern.