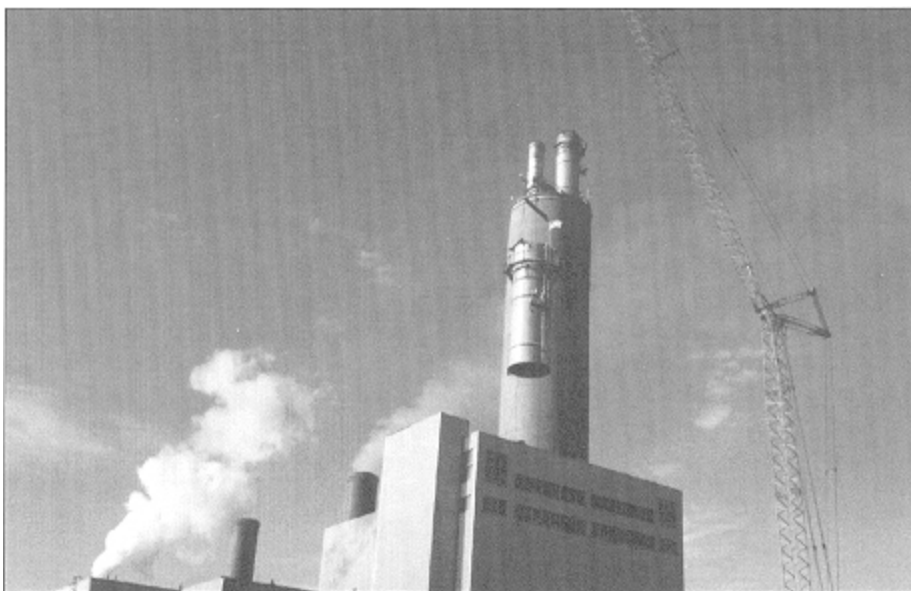


Power Station Chimney Flues

DERAKANE Epoxy Vinyl Ester Resins – Case History



Location / Year

New York State Electric and Gas (NYSEG) Corporation's Milliken Station in Lansing New York, installed in 1994.

Fabricator

An-Cor Industrial Plastics
North Tonawanda, New York USA

Fabrication

DERAKANE™ 510N epoxy vinyl ester resin used for the corrosion barrier made with 1 layer of carbon veil and 2 layers of E-glass mat. Structure filament wound using DERAKANE 510C-350 epoxy vinyl ester resin. MEKP cure system used throughout.

Technical Data

- Chimney Flues (2)
- 3.66 meter (12 feet) diameter
- 69.2 meter (227 feet) long

Service Conditions

Flue gas from the power plant's coal fired boilers that has been scrubbed with limestone slurry

Operating temperature of 50°C (120°F).

Design / Comment

The flues were shop fabricated and trucked to the plant site in 12.2 meter (40 feet) sections and joined in place by field crews.

Due to the size, elevation and exposure of the flues, wind and seismic loading were important factors considered in the design. The flues were designed for wind speeds 120 kilometers (80 miles) per hour. The flues are supported 21.6 meters (71 feet) from their top by an anchor system, with bumpers at several points within the chimney below their primary support point. The top 21.6 meters (71 feet) of the flues are free standing, with one bump point 6.1 meters (20 feet) up from the anchor.

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