

2003 EXCELLENCE IN HOT-DIP GALVANIZING INDUSTRIAL



DOW 32 KILN PROJECT, 830 INCINERATOR PROJECT

*Voigt &
Schweitzer, Inc.*

Location:
Midland, Michigan

Specifier, Architect, & Engineer: Dow Design & Construction

Fabricator: Johnson Steel Fabrication

Dow Chemical Company has moved toward hot-dip galvanizing as its global standard for structural steel coating. With worldwide locations facing a wide variety of harsh environmental conditions, long-term cost is an important consideration. The Midland, Michigan projects were no exception: fabricated through harsh Michigan weather, hot-dip galvanizing was the only coating system that would meet the critical requirements.

The Dow 32 Kiln and 830 Incinerator were fast-track jobs, requiring overlapping of several projects, structural steel being the critical path. Special handling was a necessity. To be galvanized were 2,100 tons of steel — including W40 x 655 girders weighing 20,000 pounds each and trusses measuring 10' deep x 42' long, plus 50,000 square feet of grating and floor plate, 76,000 bolts, miles of handrail, and 39 cage ladders. The structural steel contract was completed ahead of schedule, enabling the project to meet its tight construction deadlines.

Dow Chemical feels that hot-dip galvanizing was a key contributor to the success of these projects and has decided to continue using hot-dip galvanized steel as its global standard. It is not only the most cost-effective long-term solution, but it improves schedules, provides a superior visual impact, and allows for safer construction. Project safety is Dow's top priority — galvanizing substantially reduces field paint touch-up (a relatively difficult task), thus reducing field construction hours and lowering the safety risk to complete the job.

