

Case Study 15: Power Plant Maintenance

AEP Cardinal Station Unit 3 Cooling Tower - Brilliant, OH

Contractor: Cannon Sline Inc.

Project Scope:

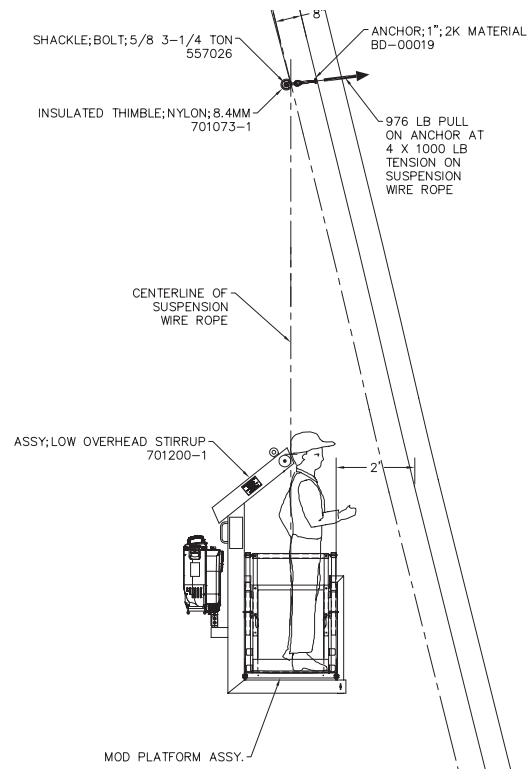
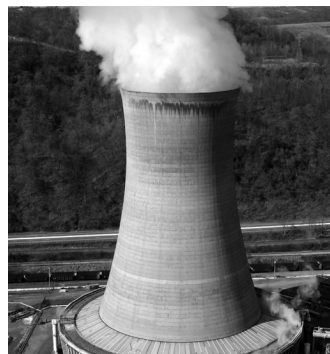
Inspect, repair and coat entire interior surface of cooling tower with dimensions 200 ft (61 m) in diameter and 424 ft (129.2 m) high

Challenges:

- Required custom parapet clamp to work on sloped surface
- Custom design of a platform that could be pulled in using change of direction sheave to allow platform to follow wall slope
- Required winch system and anchor plan to utilize change of direction sheave
- Design topside rigging system around existing lightning protection
- Ensure system was easy to use and relocate to keep to the 11 week outage schedule

Solution:

Designed and built a custom parapet clamp to work on a sloped parapet wall, a platform utilizing a primary and secondary wire rope system with a horizontal lifeline running the length of the platform, and a winch system and sheave system that allow the platform to follow the sloped contour of the tower walls to give access to the underside of the slope. Incorporated standard rental equipment with customized devices to reduce the overall cost of the project. Completed all design, manufacturing and delivery onsite in five weeks.



Custom engineered solution
Call Spider if your project requires more than standard equipment.