Owner/General Contractor: Alliant Energy

High Voltage Contractor: Hooper Corporation

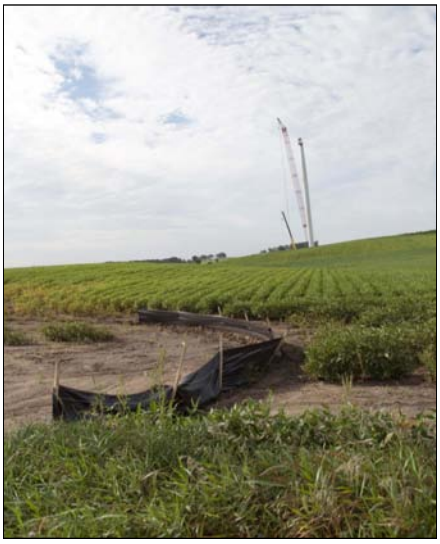
Overhead Line and Substation Departments

Bent Tree Wind Farm

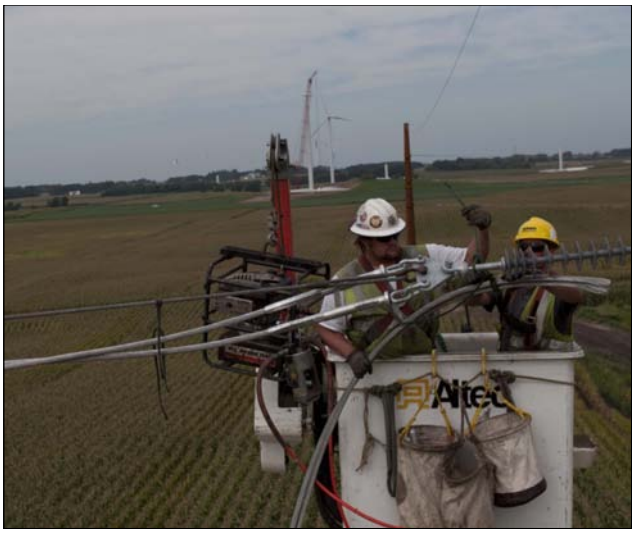
Record Rainfall, Unstable Soil, Tight Schedule Overcome by Hooper Crews

- Hooper Corporation crews installed 4.2 miles (66,000 feet) of 161 kV T2 795 single circuit conductor.
- Extensive composite matting was used throughout construction to access poles due to record rainfall of more than 20 inches in 90 days and environmental concerns.
- Tracked and rough terrain equipment were necessary to protect landowner properties from damages due to erosion and standing water caused by the torrential rains.
- The Hooper management team coordinated with the Minnesota Department of Transportation area road construction, utility outages, material manufacturer lead times, and constant coordination with engineering and subcontractors, in addition to handling a tightened project schedule due to inclement weather.
- Hooper was also responsible for the civil construction for the Vanryswk Collector Substation. The scope of this work included the site development, foundations, conduit, grounding, and fence installation.

Crewmembers struggle through wet and muddy conditions to trench in the 4/0 copper ground grid.



Soil erosion measures were implemented to protect ROW and sensitive wetlands.



Hooper Corporation crewmembers dead end wire on steel structures and make jumper connections.

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