



Carty Generation Station



2021

ABOUT THIS PROJECT:

Market Segment:
Power and Utilities

General Contractor:
W.I. Construction Inc.
(dba W.I. Inc.)

Products Used:
Xypex Admix C-500 NF

Location:
Boardman, OR, USA

Owner:
Portland General Electric

DESCRIPTION

The Carty Generation Station project marks a significant breakthrough in the power and utilities industry, focusing on sustainable energy through the transition from coal to natural gas power generation. Located in Boardman, Oregon, within the wind-swept Columbia Gorge, the project faced unique challenges due to the high winds and temperature extremes characteristic of the area.

Portland General Electric, the project's owner, hired W.I. Construction, a company renowned for its innovative approach to concrete placement techniques, to construct the wind turbine ballast bases at this remote site.

THE XYPEX SOLUTION

W.I. Construction decided to add Xypex Admix C-500 NF to the concrete mix at the batching stage to protect the concrete from the damaging effects of water penetration and chemical attack. This technology plays a crucial role in enhancing the concrete's durability against harsh environmental conditions of the power station.

During the addition of Xypex Admix C-500 NF on the conveyor line, the high winds presented a significant challenge.



To prevent inaccuracies and losses due to the wind, Xypex provided custom-sized bags for precise dosing, which eliminated any fugitive dust issues and any related safety and environmental issues. This method simplified tracking the number of bags used per load, ensuring accurate dosing with confidence.

Large-scale projects like this require meeting demanding construction deadlines. Despite a two-week lead time requirement, W.I. Construction expedited the process due to an accelerated construction schedule. W.I. Construction contacted Xypex on a Thursday, and by Monday morning, customized precision dose bags were en route to the batch plant, ensuring uninterrupted project progress. This collaboration underscores the commitment of both W.I. Construction and Xypex to seamless execution, even amidst evolving timelines and logistical challenges.

To learn more about how Xypex protects and waterproofs power and utility structures, [click here](#).