

PROJECT CASE STUDY

LEWIS & CLARK WATER TREATMENT PLANT

Three standby power generator set packages were installed at the Water Treatment Plant for the new Lewis & Clark Regional Water System in Vermillion, South Dakota. The project will become operational in March 2012. Once completed, it will cover 337 miles and deliver water to more than 300,000 customers in southeastern SD, northwestern IA and southwestern MN. All 3 gensets are protected by custom, sound attenuated generator enclosures produced at Lectrus' Tea, South Dakota facility. They perform "double duty" – as standby power sources for the 8 pumps at the treatment plant, and by supplying power for both the facility and the local power utility during "load shedding."

This vast network of water systems is designed to do what no other water project has ever done before—deliver high-quality water to the rural citizens of a vary large region. Actually producing power for the utility, as well as standing guard as an emergency power source for an entire plant, is also a unique new engineering feat. To accomplish this, project managers wanted the best equipment in the strongest enclosures. That is why they chose Butler Machinery for the 2MW CAT diesel generators and Lectrus for the sound attenuated generator enclosures.

"More gensets have to be built for this project and Lewis & Clark intends to use only Lectrus generator enclosures for the equipment needed", Engineering Project Manager Dave Odens said. "Having (the equipment) in a Lectrus generator enclosure is critically important because you can operate and maintain that generator in adverse weather conditions. We've used Lectrus enclosures in quite a few projects over the years. It's more or less a standard of how we design and operate standby power systems."

Lectrus' robust, stationary generator enclosures are used to build fully integrated, UL-listed genset packages which also contain the generator set, exhaust system and optional fuel tank. They can be designed "skin-tight" to match factory style or as a full, NEMA 3R walk-in metal enclosure. They feature a compact footprint and low profile design with easy servicing access to all major components. Dozens of options are available to meet specific customer or market-specific needs.



PROJECT PROFILE

// PROJECT //

Lewis & Clark Water Treatment Plant

// LOCATION //

Vermillion, South Dakota

// MARKET SEGMENT //

Water/Wastewater

// EQUIPMENT PROTECTED //

Three, 2MW CAT 3516C-HD TA diesel generators

// PRODUCT //

Generator enclosure

// ENCLOSURE SIZE //

12 feet wide x 14 feet long x 14.3 feet high

// DATE COMMISSIONED //

May 2010

// CUSTOMER //

Butler Machinery

// ENGINEER //

HDR Engineering & Banner Associates

// CONTRACTOR //

Foley Company

// OWNER //

Lewis & Clark Regional Water System

lectrus®

ENGINEERED TO SPEC. BUILT TO LAST.

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