

# Laird

Smart Technology. Delivered.™

## SUCCESS STORY

### Laird™ Remtron™ Solutions are Powerful for Energy Facility



*At a power facility near Grand Rapids, MN, large amounts of coal are delivered, stored, and ultimately are used in the process of creating electricity.*

*Moving the massive daily tonnage of coal requires several conveyors and machines in an endless cycle of transferring from one location to the next.*

*Looking for a cost-effective answer with the ability to shut down the conveyors in the event of a jam or overload to decrease the impact of an accident or damage to machinery, the company turned to the Laird Remtron family of products as the ideal solution.*

### The Challenge

The power facility stockpiles approximately 1.8M tons of coal on site and uses approximately 100K tons each day in the power generating process. The coal is moved with massive machines that relocate the product into position where large, mobile conveyors then scoop it up and send it into the plant for usage. Should one of these mobile conveyors jam or stall the potential risk for both the workers and machines is costly and dangerous.

### The Solution

The facility selected the Laird Remtron Safe-T-Stop system in a previous project, impressed with its durability of the unit, and decided it preferred the same Laird quality for their conveyor control system. The facility chose operator controllers to be used in combination with a receiver that acts as a power interrupt for the conveyor. Operator controllers are

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used in the cabs of the bulldozers while the third controller is used by a lead on site allowing broad safety coverage should there be an instance where the conveyor must be stopped immediately. In addition, the customer decided on a back-up system due to the criticality of the operation. Lastly, the extended-range receive antennas ensure radio signal coverage of the multi-acre site.

## The Benefits

Allowing multiple machine operators to shut down the conveyor power in the event of a conveyor jam, overload or in the event of an emergency provides the power facility immeasurable benefits in both safety and productivity. Potential conveyor damage is also reduced as well providing investment protection. In addition, the center has seen additional benefits:

**Long Range Operation.** Machine operators and supervisors can effectively move about the work site knowing the system has sufficient range to communicate to the Motor Control Center (MCC) giving them better worksite visibility and less operator fatigue.



Minnesota power plant finds productivity benefits using Laird wireless remote control solutions

**Easy installation and durable design.** The systems were easily installed inside the customer's MCC and the controllers are rugged enough to withstand the working environment of a coal handling facility in northern Minnesota.

The facility, touted as the workhorse of the state's power generation fleet, continues to see increases in safety and productivity as a result of implementing the Laird solution.

Contact our sales staff today to learn how Laird Wireless Automation and Control Solutions can help you streamline your operations today.

[www.lairdtech.com](http://www.lairdtech.com)



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