

GREENFIELD: SAFETY STANDARDS

The Greenfield Export Grain Facility will be the safest and most advanced grain handling site in North America.

BY ADOPTING THE LATEST TECHNOLOGY AND BEST-IN-INDUSTRY PRACTICES, GREENFIELD CAN CONTROL OR ELIMINATE THE MOST COMMON CAUSES OF SAFETY INCIDENTS.

Advanced equipment minimizes grain dust, which can fuel a fire if not properly controlled. Autonomously monitored equipment prevents breakdowns and immediately shuts down components at the first sign of wear or malfunction. And increased training and preventative maintenance ensure workers can spot potential problems before they occur.

A VERY LONG CONVEYOR BELT

The most conspicuous part of the Greenfield facility's design is its 2,200-ft conveyor belt that extends from the river to the highest grain silo. Bucket elevators, while the industry norm, have been involved in several major safety incidents at other grain facilities. By replacing bucket elevators with a gradually inclined conveyor, Greenfield dramatically reduces the amount of grain dust generated as grain is moved into storage.

REAL TIME HAZARD MONITORING

Greenfield has advanced Hazard Monitoring Systems that autonomously monitor all major and minor components, from conveyor belts to rotating shafts and bearings. Those systems monitor for any increase in heat, which could be an early indication of a mechanical problem. If any component reaches a pre-programmed temperature, the system triggers an immediate shutdown, preventing a breakdown and allowing for preventative maintenance.

NO PROCESSING OR MANUFACTURING

The Export Grain Facility is a storage and transport site. There will be no processing or manufacturing taking place. This means there is no intense heating and there are far fewer mechanical elements to the facility, making it easier to maintain and monitor.

PRESSURE RELIEF

The Greenfield facility has emergency pressure relief panels that automatically release outward in the event of extreme internal pressure, preventing unsafe pressure build-up.

TRAINING, TRAINING, TRAINING

All of Greenfield's employees receive extensive safety training to prevent injury and ensure all staff are prepared for emergencies.