

Project Name: Cargill Grain Handling Terminal Automation/Upgrade/Maintenance

Location: Various Locations in Saskatchewan, Alberta and Manitoba

1. Cargill Elm Creek Plant Upgrade:
 2. Cargill Rose town Plant Modernization:
 3. Cargill Dauphin Grain Elevator Control:
 4. Cargill Oakner Grain Elevator Control:
- Cargill various Plant Upgrade/Maintenance:

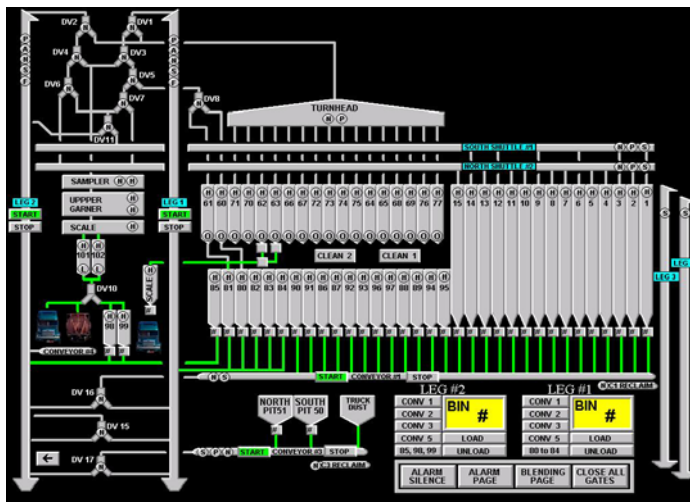
Owner: Cargill, Canada



Owner’s Profile: Cargill provides agriculture, food and risk management services internationally in 63 countries. In Canada, Cargill has business and facilities for meat, egg and oilseed processing, animal feed, salt, fertilizer manufacturing, chocolate, natural gas, as well as grain handling and merchandising. Cargill AgHorizons, a division of Cargill, has 45 centers for grain origination and crop inputs in Western Canada and 14 in Ontario.

Delco Automation’s Scope of Work:

- Designed PLC/HMI based grain elevator control/automation systems and dryer hazard monitoring systems
- Manufactured, supplied and installed control panels
- Offered various services for maintenance, modernization, troubleshooting and customer training for various plants



Technology: Modicon Quantum PLCs as well as Modicon Compact PLCs are programmed for grain handling process control. The PLC functions as primary controller for all grain handling and cleaning equipments. Wonderware based HMI system is developed for monitoring process operations, alarms and inventories. PLC and HMI are interfaced using Ethernet and serial communications. Modbus and ACSII protocols are used to interface to the truck and bulkweigher scales. On some sites the PLC/HMI provides the legal for trade bulkweigher control as well.