

## Project Name: Can-Oat Milling Saskatoon Terminal Automation

Location: Saskatoon, Saskatchewan

1. Plant Automation and Control:
2. Plant Maintenance/Upgrade:

Owner: Can-Oat Milling, Saskatoon

Prime Consultant: VCM Contractors and Engineers Ltd. Saskatoon



Can-Oat Milling in Saskatoon, Saskatchewan.

**Plant Facility:** Can-Oat Milling operates milling facility in Portage la Prairie, MB and Saskatoon SK. The milling terminals are highly automated and operate seven days a week. The Milling terminal at Saskatoon produces intermediate to finished products from the raw oats. The plant consists of various automated control systems such as raw oat cleaning, cutting, grinding, processing and finish product/by product load out system.

### Delco Automation's Scope of Work:

- Engineered, manufactured, commissioned and implemented the PLC/HMI based Plant Automation System
- Maintenance/Upgradation of designed automation/control system.

**Technology:** Three PLCs are programmed for plant, kiln and load out systems using Allen Bradley AI series and Rockwell Automation ControlLogix 5 software. PLCs function as primary control device that operates/monitors and controls various processes. The yield management system is designed to monitor yields after each stage of Oat Milling Process for every selected hour shifts. A FIX-32 based SCADA system is developed for operator interface. The four HMI nodes are designed for interfacing from control room, rail load out booth and truck load out booth. These nodes are connected to main SCADA through Ethernet connection. A reporting system is developed using SQL application that gathers continuous information from SCADA for generating reports and yield graphics.

