
Project Name: Canadian Pacific Rail Fueling System

Location: Moose Jaw, Saskatchewan

Owner: Canadian Pacific Railways

Prime Consultant: Canadian Pacific Railways



Plant Facility: Canadian Pacific Railway (CPR) is a leading North American railway providing freight transportation services. CPR has over 14,000 miles of rail network across Canada.. The Moose Jaw locomotive Fueling facility transfers over 117 million liters of fuel per year through 12 locomotive Fueling stations which makes it CP rails largest Fueling facility

Delco Automation's Scope of Work: Designed, Engineered, Commissioned and Installed PLC based automatic fueling system at Moose Jaw Station.

Technology: An Allen Bradley PLC 5 main PLC with 4 remote Flex I/O panels was designed and programmed for this project. The operator control console was designed to be extremely simple to operate. The system software contains fuel demand algorithms to automatically determine the transfer pumps required based on the operator's selected no. of locomotives. Stop buttons, flow switches and flow meters were used to determine pump shut down conditions. Fuel spill monitors were used below the fueling stations as emergency shut-downs in the event of severe fuel leaks. Provisions for monitoring and logging of alarms and fuel usage back to the remote office for accounting and inventory control were also included.