



A Rockwell Automation Company

Serviplast Packaging Plant Bagging PLC Upgrade

The Client:

Serviplast is a division of Servi-Logistix Inc. and provides services to the plastics industry. These services include, among others, warehousing, bagging and boxing, bulk transfers, distribution and transport services.

Some of their major clients include Imperial Oil,

Alcan, Nova Chemicals, Petro-Canada, Dow Chemical Canada and Shell Canada. Serviplast expanded to the Edmonton area in 1999 employing 75 people. They also have facilities in Montreal, Mississauga, Corunna and Sarnia.

The Requirement:

The automated bagging system had an old Allen-Bradley PLC 2 running two remote racks of digital I/O. Several power supply and processor failures caused Serviplast to begin to look into upgrading this control

system. The existing program functionality and all existing controls were to remain intact

The Design Solution:

The old Allen-Bradley PLC 2 was replaced with a ControlLogix 5550 processor. The program was converted from PLC 2 ladder logic to ControlLogix ladder code. In order to minimize the shutdown time, existing I/O was reused. New remote I/O communication cards were needed to talk to the ControlLogix processor and a new chassis was needed

to house the new processor. New power supplies for the racks were provided. The new system was installed in half a day and commissioned over the course of the following two days, while operating in manual mode.

