



Cavendish Farms - Plant No. 2 New Annan, P.E.I.

Total Area 187,000 ft²
Total Construction Cost \$75,000,000.00
Project Completion August 1996
Client..... Cavendish Farms
Specialist Consultant
..... F.C. O'Neill, Scriven & Associates Ltd.



In June of 1995, Cavendish Farms started construction on what was to become the most modern and sophisticated plant of its kind in the world today. With an automated production facility, it processes 1.4 million pounds of potatoes per day into 700,000 pounds of french fries and formed potato products.

As a fast track process with phased construction, it was January of 1996 when F.C. O'Neill, Scriven & Associates Ltd. was selected to design the closed circuit surveillance for production and security systems, as well as the core communications system.

The process instrumentation involves in excess of 1300 instruments controlling in excess of 700 motors plus other equipment; through 31 programmable logic controllers (PLC's), 6 personal computers (PC's) and 14 main machine interface units (MMI's). All of this operates through miles of copper and fibre optic cabling, 9 gateways, 7 hubs, and a fibre optic switch. The ethernet communications support both 10 Base T and 100 Base T protocols through virtual networks.

The communications networks interface from the process directly into management information and maintenance systems. The design utilizes the latest technologies and equipments, however most importantly, it is designed to the latest and current standards. Standards help to ensure multi-vendor, multi-user application, as well as to ensure continuous and seamless evolution.

The closed circuit surveillance system employs 17 cameras, 24 monitors and dual control stations. Multi-plex recorders simultaneously record all camera outputs to allow production supervisors to re-play any event. All cameras have pan, tilt and zoom lens control. Microprocessor controlled, the system ensures future flexibility and expandability.

With the plants' official opening on September 25, 1996, all systems were on line, operational and performing as intended.
