



Scope of Project

COMPANY: A LARGE INTERNATIONAL FOOD COMPANY

OUR ROLE: DESIGN & IMPLEMENT A SUPERVISORY LINE CONTROL SYSTEM UTILIZING THE PACKML MODEL

Spiroflow Automation was awarded a contract to implement supervisory control on a frozen meal food manufacturing line in the United States. Approximately 50% of the existing equipment remained & the balance was replaced with new equipment sections. All equipment PLC processors were updated with the PackML communication standard, providing commonality among all equipment modules & effective communication to a supervisory PLC for line section control & data acquisition. The designed system architecture resulted in a networking strategy, which reduced the number of discrete communication networks from 4 to 2, resulting in \$70,000+ networking hardware cost savings for the customer. SASI coordinated with all equipment suppliers to implement the PackML layer into their respective PLC programs, resulting in a near vertical control system commissioning.

*PackML is a standard for machine automation developed by The Organization for Machine Automation & Control (OMAC)

Customer Realized Benefits

Expedited Change Over: SMED

- Improved changeover time from 1.5 hours on average to 0.5 hours or less.

Equipment Status Dashboard

- Centralized christmas tree status board for fast diagnosis of equipment problems.

OEE Dashboards

- Real Time Operating Equipment Efficiency dashboard

MES Ready: Data & code ready for synchronization between Production, Performance & Enterprise Management systems:

- Recipe Management
- Inventory Management
- Equipment Utilization
- Process Data Historian