



## Cheese Plant Project Summary

### Project Summary:

Logicon provided an automation system for an entire cheese plant for Dairy in Mexico. The system was built on Simatic S7 platform with InTouch Scada and Siemens Operator Panel. An extensive Profibus based I/O bus was used also to implement the solution.

|           |                     |
|-----------|---------------------|
| Sector:   | Dairy               |
| Type:     | Cheese Production   |
| Customer: | Large Dairy, Mexico |
| PLC:      | S7-300              |
| SCADA:    | InTouch             |
| Networks  | Ethernet & Profibus |
| I/O count | 800 I/O             |

### Process Summary:

The areas automated were grouped as follows

- Milk Receiving and Storage
- Milk Pasteurisation
- 3 Vats
- 3 Finishing Tables
- 2 Cheese Towers
- Whey Storage and Load-out
- 4-tank CIP System



### Project Implementation:

Logicon provided the following aspects of the project:

- Automation Hardware Design, including Network design for Profibus network for remote I/O.
- Functional Design Specification for entire plant.
- Siemens PLC code for system.
- Siemens OP application coding.
- InTouch Scada system for Control Room.
- Office FAT Testing.
- Commissioning

The client provided flow-sheets and process descriptions and Logicon developed full HDS and FDS which was checked against flow-sheets and approved by client. We then quickly implemented the required PLC code, then Operator Panel and Scada applications were built. After internal testing we performed validation FAT at client offices and also carried out commissioning of the plant. The plant went successfully into production 3 weeks after commencement of commissioning, indicating a successful exercise in generation of PLC and Scada code.

The code was based on Logicon in house libraries, using a powerful step sequencer developed by Logicon staff. This allowed rapid development of accurate code.

Logicon specialise in high level PLC programming allowing large complex projects to be quickly implemented and commissioned.