

Job Title:

**Pasteuriser**

Company:

**LacPatrick**

Location:

**Monaghan, Ireland**

Duration:

**2 Weeks**

Objectives:

- **Recommission old Pasteuriser**
- **Upgrade PLC to a newer model**
- **Install our HMI solution**

LacPatrick is a Dairy Company who are Headquartered outside Monaghan Town, Co. Monaghan.

During the milk processing procedure milk undergoes Pasteurisation, Homogenization and Separation before it is ready to move onto micro-filtration and packaging. In order to achieve successful results from the process accurate and precise monitoring and control must be achieved. LacPatrick is a Dairy company who had a plant that had been running in manual because their automation system wasn't working.

#### Customer Requirements:

- Replace old and outdated PLC and I/O modules with newer technology.
- Update SCADA's and use our software.
- Four-day lead time for the electrician to install the new PLC, reconnect the hardware and for MWCS to upload their software and test the plant.

#### MWCS During the Project

- In the week leading up to the project the SCADA's and software was prepared so no time would be wasted on site with the plant not running.
- MWCS assisted the electrician with fault finding and also made soft copies of how they wired the I/O modules for future maintenance support.
- Whilst the hardware was being wired our engineers checked the drawings provided to us against what was actually on site to avoid any confusion and time wasting later on.
- Every I/O was tested individually within a 12-hour period by putting our team on two separate shifts to increase efficiency.
- After everything had been tested individually we ran water through the plant automatically to ensure the programmes were working.
- After the first batch of milk to be processed was monitored and our engineers were satisfied with how the plant was running, we showed the LacPatrick operators how to use the SCADA.

#### Result of Project:

- Before the project had started LacPatrick were using a 20 years old PLC and they were unable to run their plant automatically.
- Now every part of their milk processing procedure is automated using new and supported equipment.
- Because MWCS prepared as much of the project before arriving on site as possible and we worked from Friday to Monday only 2 working days were lost by LacPatrick.