



Product Recovery (Pigging) Case Study:

St Ivel

United Kingdom

How an Automatic Pigging System
Improves Efficiency of Butter Oil
Production

HPS Product Recovery Solutions

www.HPS-Pigging.com



Summary

- **HPS designed, supplied, and commissioned an automatic 2-inch single-pig pigging system.**
- **The system was implemented at a new butter oil processing facility.**
- **The system recovers approximately 200kg of product on each run.**
- **Pigging ensures downtime for cleaning is minimised.**

About St Ivel

St Ivel is a long-established dairy brand which has been through several different ownerships since being founded in 1901. Today, St Ivel products are manufactured at various locations and remain a household name, particularly for buttermilk produced by Müller.

Project Background

St Ivel had produced a new process for use with a new product. The product, a type of butter oil, is transferred in a 90-metre-long pipeline between a tanker and existing storage tanks. The product is transferred in both directions.

To minimise product waste and maximise yield, St Ivel wanted to quickly, efficiently, and reliably pig the line to reclaim as much product as possible.

Why St Ivel Chose HPS as their Pigging Systems Provider

New products and processes can often present challenges. However, because HPS has a proven track record of successfully designing and implementing pigging systems in similar liquid production environments, St Ivel were confident that HPS would deliver a solution to meet their requirements.

The Solution

HPS designed, supplied, and commissioned a 2-inch single-pig pigging system. This included integrating a new HPS control system with an existing control system. Key components supplied by HPS included a 3-way inflatable seal launch valve with pneumatic actuator and pig housing, receive and return module, pig detection systems, various valves, fittings, seals, clamps, control panel, and other equipment.

To perform a pigging operation, the operator selects the start position for the pig prior to the transfer from an existing control system, which in turn communicates instructions to a new HPS control system. The HPS control system relays information back to the existing control system for sequence handling and SCADA display.

At the end of the product transfer sequence, the pig is launched and pushes the product residue to the selected storage tank or to a tanker.

The Results

The primary aims of the project were to minimise product waste and maximise product yields.

The HPS pigging system recovers approximately 200 kilograms of usable product per run that would otherwise go to waste or become effluent. Residual product following pigging is negligible.

The high quantity of product recovered from the pipeline minimises the downtime requirements for cleaning procedures.

Contact HPS

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