

Norske Skog



Newsprint Control System Upgrade - \$9m Automation Upgrade Project

Fast Facts

Customer:
Norske Skog

Location:
Albion, NSW, Australia

Project:
Measurement, Automation, Control System Plant Wide Upgrade.

Date: 2002 – 2005

I/O Count: 15,000

Plant Details:
Annual production capacity is around 235,000 tonnes. This represents about 30% of the newsprint and related grades used in Australia each year.

Control System:
Metso DNA2003

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"The team at MIPAC is first class. Their attention to detail, thorough planning and process knowledge reduced the risks on a very complex project. MIPAC made a great contribution to the platform for success of the recent automation upgrade of Norske Skog's Albury plant, delivering a high-quality result on schedule." – Guy Mycroft, Mill Manager, Norske Skog Albury.



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MIPAC has completed a Paper Machine system upgrade 15 hours ahead of schedule, saving Norske Skog more than ¼ million dollars at its Albury Mill.

Project Overview:

Norske Skog, Australia's largest newsprint producer, originally selected MIPAC in 2002 and initiated an Automation Upgrade project to provide a new plant-wide control system and integrated automation platform. Consolidation of control system types and the replacement of obsolete systems to facilitate central control of the plant was the fundamental aim of the project. The project goals were to:

- provide plant operators with a single user interface to the control system
- replace aging and/or unsupported control system hardware and to
- improve the control strategies and alarm management.

MIPAC Scope:

Norske Skog appointed MIPAC to manage the design, implementation and commissioning of the new control system. MIPAC managed a phased upgrade of the automation systems for the whole mill which included more than 15,000 inputs and outputs (I/O). This included the Paper Machine, Steam Plant, Water Treatment and TMP Pulp Mill. MIPAC's scope included:

- Assisting Norske Skog in the selection of the new control system
- Management of project design, commissioning and implementation
- Development of specifications and standards for electrical, instrumentation and control scope
- Detailed design for electrical, instrument and control requirements in all plant areas.
- Application programming for the Water Treatment Plant, Steam Plant and Paper Machine (Stock Preparation and Broke Systems)

The project involved replacing the existing control system which consisted of Honeywell TDC 2000, TDC 3000, Siemens Programmable Logic Controller (PLC) and relay logic.

Results:

Plant operators now have a single user interface, with improved control strategies and alarm management. This will increase productivity and ultimately, profitability.