ABB’s Industrial IT – The Way to True Integration in P&G

The paper process is merging more and more functions under the same control areas. The walls around the traditional distributed control systems have come down. Now, with increasing amount of device level intelligence and capabilities, the truly integrated solution requires a superior functionality as an inheritance from distributed controls.

By Leif Lindberg

Spurred by major developments in computer-to-computer communications technology and interface standards, the automation systems in pulp and paper mills are evolving into networks (strike-through: where process controls and machinery controls are intertwined) with enhanced information management capability.

ABB’s decades of experience and hundreds of projects have honed the automation platform, dedicated controllers and drive design in the right direction... finally towards Industrial Information Technology (IT) solutions enabling seamless millwide functionality to be achieved.

Industrial IT is the name of the pulp and paper practice that combines ABB’s integrated automation solutions, comprehensive services, deep industry knowledge, and common global processes. The Industrial IT practice dramatically improves the quality of information that papermakers acquire and use for more successful decisions.

In both examples, the I/O is accomplished with ABB’s S800 units, machine control is installed in ABB’s Advant Controller (450) stations, and the drive controls are located in Advant Controller (80) stations.

Regardless of scale, Industrial IT characterises the intellectual expertise that ABB blends with its automation products to achieve a larger goal. In the field of pulp and paper and papermaking, Industrial IT is defined as the real-time integration of automation and information systems in support of three primary customer objectives: Decision Support, Asset Optimization and Global Processes.

Industrial IT – The True Integration Story

Integration of process, machine and drive controls must not lead to moving costs pocket-to-pocket, or shift coats to a later point in the paper machine life cycle.

The True Integration is a giant leap to better paper making processes and customer success. If all the pitfalls are realised and poorly supported solutions can be avoided, the anticipated cost efficiency can be achieved.

Depending on the customer and individual needs Industrial IT could be as simple as an open control system automatically configuring instruments for a new paper machine, or it could integrate thousands of complex systems across a vast, integrated pulp and paper mill.

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