



A Rockwell Automation Company

## Weyerhaeuser GE Series 6 to 90/70 Conversion

### The Client:

Weyerhaeuser is an international forest products company founded in 1900. Weyerhaeuser's Pulp, Paper and Packaging businesses serve markets worldwide. They are the largest producer of market pulp in the world and their paper and packaging products facilitate global communication and commerce daily.

Weyerhaeuser's Saskatchewan operations sell lumber and paper almost exclusively within the North

American market. Weyerhaeuser's focus is on product quality and innovation, customer satisfaction and financial performance. Reliable processes help improve product quality, meet customer demand, reduce costs and ensure responsible environmental performance.

### The Requirement:

Weyerhaeuser was searching for a replacement system for their aging GE Series 6 PLC that controlled their wrapline process. The Series 6 PLC was becoming increasingly difficult to get replacement parts for and the decision was made to replace the GE Series 6 program with the new GE 90/70 platform. Weyerhaeuser wanted a direct translation of the

program and therefore changes to the operation of the program or drawings were not required.

### The Design Solution:

The wrapline was controlled by a GE Series 6 system that consists of the processor, with 5 I/O buses on 2 channels. Some of the Genius I/O blocks were the older phase A variety and were replaced by Weyerhaeuser with Phase B prior to the installation of the new 90/70 controller.

Hinz converted the existing wrapline PLC program from GE Series 6 to GE 90/70 format. In addition to this change, some genius IO blocks were readdressed to reflect changes in channel numbers with the new system.

The bulk of the program conversion was performed with an automatic translation utility developed by

Softech (a division of Hinz). This utility performed approximately 90 percent of the necessary translation; the remaining 10 percent was translated manually. The changes to channel numbers were manual and required manually readdressing the affected genius blocks including approximately 230 I/O points.



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### System Specifications:

- 1 Front Mount, 9 Slot rack
- 1 Communications Coprocessor, CCM, RTU, SNP, and SNPx Protocol
- 1 Ethernet Interface for Series 90-70, Type 2
- 1 CPU, 96 MHz, 2K Discrete I/O, 512K byte fixed user memory
- 5 Series 90-70 Genius I/O Bus Controller
- 1 Power Supply, 120/240Vac, 125VDC, 100 Watts
- 1 Block 115Vac Analog 4 Inputs / 2 Outputs
- 1 Block 115Vac I/O Low Leakage 8 Circuits
- 5 Block 115Vac/125Vdc Low Leak Isolated I/O, w/o Failed Sw Diag, 8 Ckt

For further information or to contact a Hinz office near you, please check our website at:

[www.hinz.com](http://www.hinz.com)