

DESIGN SYSTEMS, INC.

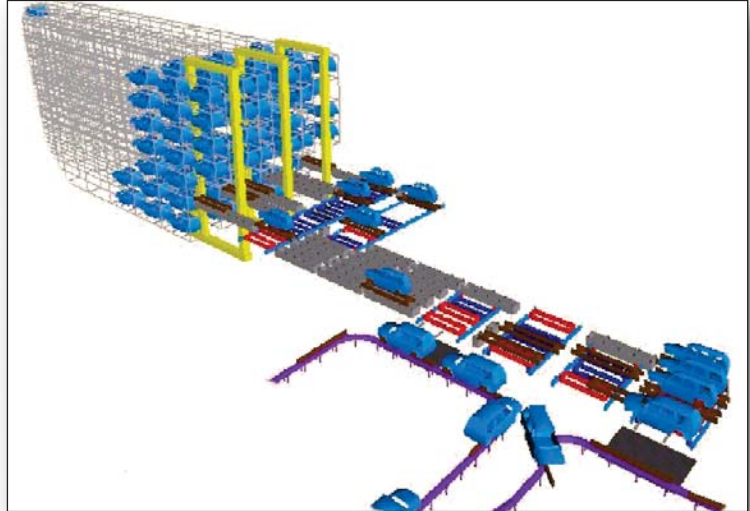
Electrical Controls Engineering

Investment Capital Savings by Improving Project Start-Ups

Design Systems, Inc. provides customers with the unique ability to emulate and verify all controls logic for new or modified systems.

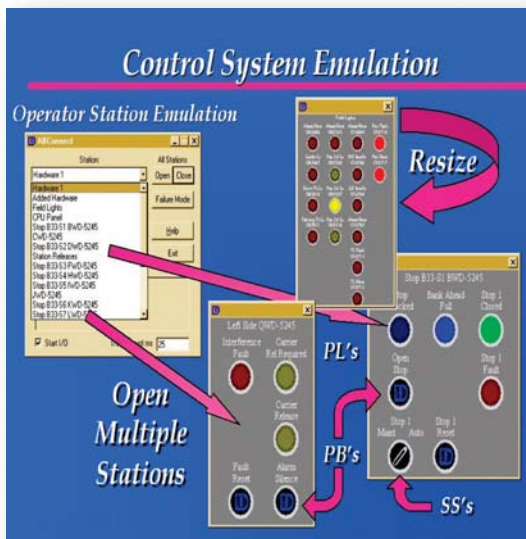
verified and tested exactly as it will operate in your production environment.

Emulation uses a detailed model connected directly to your PLC (Programmable Logic Controller) to emulate the production environment. The emulation uses the graphical features of simulation to depict the physical system, creating movement of the equipment to replicate the production environment. The PLC, running its actual program code, responds to Inputs received from the model just as it would on your production floor. In conjunction the graphical model responds to the PLC Outputs, as would the actual control devices on the plant floor.



Design Systems has used our Emulation package to test complete systems with up to as many as ten PLC processors. Multiprocessor verification is a huge advantage over single processor testing, since an entire complex system can be

All of the Inputs and Outputs of the system are emulated including, manual operator stations and hardware interlocks, so NO modifications must be made to the original running logic.



“BOTTOM-LINE” RESULTS:

- Minimal debug and start-up times
- Logic debug before construction
- Test complex routing requirements
- Operator and maintenance training
- Start-up production risk mitigation
- Start-up schedule risk mitigation
- Substantial start-up cost savings

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