

# DESIGN SYSTEMS, INC.

Specializing in Manufacturing Process Design & Integration

## Integrated Dispatch & Receipt

Design Systems, Inc. has provided engineering assistance for the design of new equipment layouts. Our experience includes: coordination with site and equipment manufacturer, on - site project management during installation, testing and start-up. Coordination role is critical to meet schedule and obtain desired throughput.

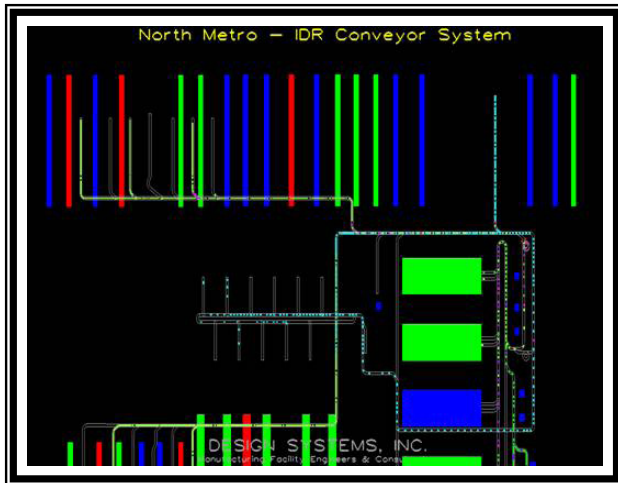
### Site Current Concerns

- How will the new equipment fit ?
- What is the effect to current production ?
- What is the timing schedule ?
- What is the impact of the new equipment ?
- What are the power requirements ?
- How does the new equipment interface ?
- How do we know it will work ?
- What is the testing process ?
- What is the validation process ?

### Design Systems Improvement Activity List

- Develop Operational System Layout
- Develop Milestone Chart
- Develop Detailed Schedule
- Develop Simulation Model
- Conduct Site Power Survey
- Develop Dynamic Simulation
- Develop Emulation
- Develop Detailed Commissioning Plan
- Conduct on-site test & start-up

DSI developed simulation model to validate system throughput capabilities.



### **"BOTTOM - LINE"** **RESULTS:**

- Layout Validation
- On Time Installation
- Equipment Validation
- Reduced Start-Up Cost

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