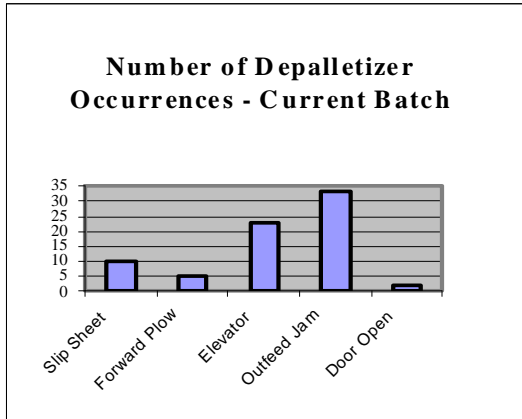


Downtime Tracking & Monitoring System



Malisko Engineering, Inc (MEI) was asked, to provide a Downtime Tracking System to pinpoint sources of production inefficiencies and assist with prioritizing corrective maintenance planning. The System was designed, programmed, tested, installed, and validated for a worldwide leading manufacturer of Infant and Adult Nutritional Products.

GOALS:

- Identify & Quantify Sources of Production Line Downtime,
- Provide 'Root Cause' Information for Downtime,
- Provide both Real-time & Historic Data,
- Analysis via SQL (Structured Query Language) Database.

Malisko Engineering, Inc was involved in every aspect of this Project, from Conception and Capital Budgeting to Real Time Production.

CHALLENGES:

- Identify Possible Sources of Downtime Based on Empirical Study,
- Use Existing Sensors & Devices Only,
- Aggressive Project Schedule,
- Overcome Plant's Skepticism Due to Inaccuracies of Downtime Tracking Systems Previously Supplied by Others,

SYSTEM FEATURES:

- Monitor Line from Can Depalletizer Through High-Speed Fillers/Seamers,
- Forty-two (42) Unique Causes Monitored,

- Log to Microsoft Access Database Each Line Stoppage Occurrence with the Following:
 - Root Cause
 - Date & Time of Occurrence
 - Elapsed Time of Stoppage
 - Batch Code
 - Production Line Number
- Display Real-time Table of the Causes,
 - By Production Line Number
 - By Equipment Section
 - Accumulative Number of Occurrences of Each Cause for the Batch
 - Accumulative Downtime of Each Cause for the Batch
- Display Real-time Pareto Charts by Production, Line Number & Equipment Section
- Display Real-time Bar Charts of Accumulative, Downtime of Each Cause by Line Section
- Automatically Generate Hardcopy Downtime, Summary Reports & Pareto Charts at the End of Each Batch
- Can Generate Reports & Charts on Demand.

PROJECT SUCCESSES:

- Production & Maintenance Groups Immediately Started Using the Information,
- Efficiency Improvements were Quickly made by Addressing the Primary Culprits of Downtime,
- Achieved ALL Goals,
- System Installed in 1996 & Continues to be Used.

For More Information, please contact:

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