

Data Specialists, Inc.



Professional Services:

- Mass Balance Plant Audit

Program Objective - Assist dairy product manufacturers identify and report shrink, yield and quality improvement opportunities directly from their plant floor systems to their financials for accurate and timely cost analysis.

Features:

- Program objective definition
- Problem qualification definition
- Current solution analysis
- Constraints analysis
- Process variance analysis:
 - By process zone
 - Cause & effect correlation
 - Probability analysis
 - Range vs impact analysis
 - Measurement system
 - Baseline & goal determination
- Process capacity / utilization analysis
- Current / future state data flow analysis
- Solution recommendations:
 - Rough cost and time estimates
 - Prioritized by ROI payback model
 - Standard operating procedures
 - Data / information plan - ERP

Technologies Utilized & Evaluated:

- Plant floor automation systems
- Plant floor instrumentation
- Laboratory instrumentation
- Six Sigma quality systems RDMAIC
- Project Management Institute standards
- Linear correlation analysis
- Predictive model control systems
- Lean Manufacturing methods

Customer Benefits Include:

- Greater yields (0.1% - 2.0%)
- Increased quality via reduced variations
- Reduced shrink (0.1% - 5%)
- Accurate and timely mfg costs analysis
- Accurate inventory management
- Component level tracking (Protein, Fat)
- Greater producer satisfaction
- Greater customer satisfaction