

# AUTOMATIC PRODUCTION REPORTING HELPS QA

## RECIPE REPORT

Product : Product 1
Batch ID : ABC123
Start : 2002-03-20 14:32:17
End : 2002-03-20 18:28:44

Material	Phase	Target	Units	Actual	Error (%)
<b>MAIN_MIX</b>					
Corn Syrup	TANK201_BLEND_IN_O_UOP:1	21,424.00	LBS	21,426.20	0.01
Water	MAIN_WATER_ADD_UOP:1		LBS	56,723.20	n/a
<b>MINORS_PREBATCH</b>					
Water	WATER_ADD_UOP:1	6,218.80	LBS	6,220.10	0.10
Powders	HAND_ADD_UOP:1	441.90	LBS	441.10	-0.18
Water	WATER_ADD_UOP:2	4,792.10	LBS	4,794.02	0.04
<b>OIL_PREBATCH</b>					
Oil Type A	OIL1_XFEROUT_UOP:1	5,718.20	LBS	5,716.50	-0.03
Oil Type B	OIL2_XFEROUT_UOP:1	4,269.00	LBS	4,271.10	0.05
Oil Type C	OIL3_XFEROUT_UOP:1	9,476.80	LBS	9,471.10	-0.06
<b>POWDER_PREBATCH</b>					
Powder B	TANK102_XFEROUT_UOP:1	8,200.00	LBS	8,194.00	-0.07
Powder A	TANK101_XFEROUT_UOP:1	20,000.00	LBS	20,004.00	0.02
<b>WEIGH</b>					
Powders	TANK202_HAND_ADD_UOP:1	632.00	LBS	632.00	0.00
Water (Vitamins)	TANK202_COOL_ROW_XFER_UOP:1	800.00	LBS	797.80	-0.28
Water (Minerals)	TANK202_HOT_ROW_XFER_UOP:2	600.00	LBS	598.80	-0.20
Powders	TANK202_HAND_ADD_UOP:1	455.30	LBS	455.30	0.00
Water (Minerals)	TANK202_HOT_ROW_XFER_UOP:1	800.00	LBS	804.20	0.53
Water (Vitamins)	TANK202_COOL_ROW_XFER_UOP:1	600.00	LBS	605.20	0.86

FINAL WEIGHT IN FINISHED PRODUCT TANK					
Final Weight	FP_TANK_DWELL_UOP:1		LBS	125,470.00	n/a

Reviewed By: \_\_\_\_\_

Production Team Advisor: \_\_\_\_\_ QC Team Advisor: \_\_\_\_\_  
Date: \_\_\_\_\_ Date: \_\_\_\_\_

2002-03-22 16:21:59

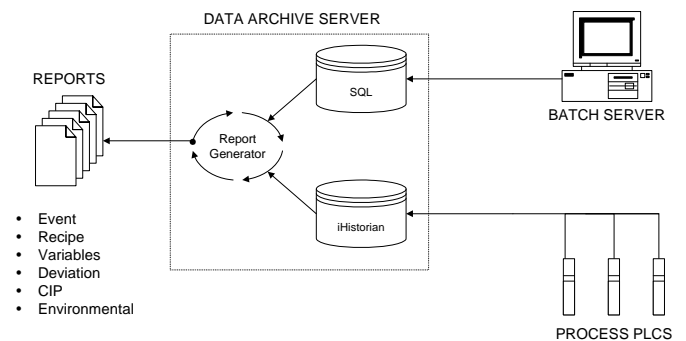
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- Logging deadbands used for process variables to save disk space.

### ENGINEERING TASKS AND SERVICES:

- Integrated Intellution Software, SQL Server, PLC Hardware, and VisualBasic code to implement the reporting system,
- Validated the reports via extensive data verification,
- Provided user and technical manuals.

### SYSTEM ARCHITECTURE:



**Malisko Engineering, Inc (MEI)** was asked, to provide a comprehensive, validated Data Logging and Reporting System for Quality and Production Reporting. The System logs process, batch, and CIP data, and automatically generates reports.

### GOALS:

- Efficiently and accurately log process events and parameter values,
- Log CIP events and parameter values,
- Automatically generate useful reports on events, production statistics, and results compliant with QA requirements.

### SYSTEM FEATURES:

- Combines process, batch, and CIP data into intuitive reports,
- Automatic report generation,
- “On-Demand”, configurable report generation,
- Configurable historical trend charts with the ability to save chart configurations,
- Shows statistical calculations for critical process variables,
- Batch data logged to SQL server,
- Process variable data logged to high speed secure database,
- Data is collected directly from PLC’s per the client request,

### PROJECT SUCCESSES:

- Fully-Validated QA & Production Reporting,
- Integrated historical and batch data into useful reports,
- Reports and data are used to release finished product.

### For More Information, please contact:

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