



A Division of B&D Industrial

## CHEMICAL INDUSTRY

# SPECIALIZED APPLICATION INCREASES EFFICIENCIES

### CUSTOMER PROFILE:

GNS Polycarb, a DOW Chemical subsidiary located in Roberta, Georgia

### THE PROBLEM

Our customer needed to upgrade existing scale instrumentation and functionality for four process tanks and one floor scale. However, the instrumentation was located in a hazardous area rated Class I, Division I, Groups C&D, requiring additional planning before engineering a solution. The customer needed help:

- Replacing obsolete instrumentation that had become increasingly difficult to support
- Interfacing critical weight data via a PROFIBUS interface to the facility's existing programmable logic controller (PLC) infrastructure
- Making the process leaner by allowing operators to tare the scales directly from the production floor rather than in a remote setting

### THE SOLUTION

Scale Systems recommended a multi-faceted and cost-effective solution. We replaced obsolete instrumentation that was becoming increasingly difficult to support, interfaced critical weight data via a PROFIBUS interface to an existing PLC infrastructure and improved productivity with added functionality. Scale Systems installed:

- Mettler-Toledo IND560x hazardous area terminals, one for each tank
- Mettler-Toledo APS power supplies (also rated for hazardous areas)
- Mettler-Toledo ACM 500 interface modules for the PROFIBUS interface to the PLC, located in a safe area
- Additional IND560x terminals without scale interfaces to be used as remote terminals for taring functions

## Hazardous Classified Locations

### Ratings Overview

Classification	Group	Quick Definition	Example
Class I	Group A	Gases & Vapors	Acetylene
	Group B	Gases & Vapors	Hydrogen
	Group C	Gases & Vapors	Ethylene
	Group D	Gases & Vapors	Propane

Class II	Group E	Dust	Metal Dust
	Group F	Dust	Coal Dust
	Group G	Dust	Grain Dust

478-746-7623

corporate@bdindustrial.com

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