

Emerson's DL8000 a Reliable Custody Transfer Solution for Purity Liquid Products at Terminals

RESULTS

- Delivered precise measurement at the point of sale for truck and rail terminals using latest API standards for Natural Gas Liquids (NGL) measurement
- Reduced project execution time due to complete packaging with no onsite programming or assembly required
- Ensured safe loading with precise load control and overfill protection visibility



APPLICATION

Liquids measurement and custody transfer of Natural Gas Liquids at MarkWest truck and railcar terminals

CUSTOMER

MarkWest Energy Partners, LP

CHALLENGE

MarkWest needed a reliable custody transfer solution for produced purity liquid products to their customers per contracts negotiated by their marketing staff. Precise measurements were also required to balance plant inventory levels against inlet and production measurements.

Their current loading process was difficult to use and would cause delays resulting in decreased plant production throughput. Without accurate measurement, plant inventory levels would be inaccurately maintained, and each truck/rail load would run the risk of over/underfill. As a Greenfield project, MarkWest wanted the most accurate and user friendly interface for multiple transporters/loaders. Their vision included local control and metering of skid mounted valves and instruments that interfaced seamlessly with their plants Distributed Control System (DCS).

“The DL8000’s canned programmed controller, design, and startup greatly reduced our project execution time.”

MarkWest Energy Partners, LP

SOLUTION

MarkWest implemented Emerson's DL8000 preset controller to serve the need for the product transfer process. The DL8000 was integrated with skid mounted process equipment and utilized Syncade Logistics LTM as the managing software. The contracted liquids measurement points included custody transfer accuracy with temperature and pressure correction to API specifications.

The DL8000 delivered exact measurement at the point of sale for truck and rail transport methods along with ease of use with minimal training needed. MarkWest's downtime was reduced due to the reliable and proven controller packaging while increasing availability to sell more product. With the DL8000's canned programmed controller, design, and startup, MarkWest's project execution time was greatly reduced.

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