



New BGE design district regulator station being installed in Linthicum, MD.

## New Concept for District Regulator Stations Using Dresser Prefabricated Sets

### The Challenge

District regulator stations are often constructed in densely populated areas such as sub-division communities. They typically require a developer to commit a sizable piece of real estate and often create an unattractive and unappealing installation to the local residents. They can also be quite onerous to the field technicians who perform maintenance operations.

However, near the southern Baltimore town of Linthicum, Baltimore Gas & Electric, the local utility has developed a concept that is less obtrusive and greatly improves accessibility.

The challenge was to reduce the size of the BGE monitoring regulator station footprint, increase accessibility for maintenance operations by locating the regulators above ground while not creating an unattractive installation. Steve Troch, Supervisor of Gas Engineering and Standards and Craig Buppert, Gas Technical Specialist, were challenged with the task. Working closely with John Gerwig, Business Development Manager for Dresser, they jointly developed a cost effective, efficient, and attractive solution to the standard district regulator station, requiring minimal custom field fabrication.



Cabinet covering above grade piping allows for easy maintenance access and pleasing aesthetics to local residents. Prefabricated in the Dresser Bradford, PA facility allowed for quick and easy field installation of the station.



Regulator station design includes the Dresser 12" dual port Mooney® Flowgrid® regulators.

## The Solution

The design obstacles included a reengineering of the current design to produce a prefabricated skid mounted system which could be easily shipped, offloaded and set in the field while adhering to strict regulation standards and a tight budget.

Dresser and BGE collaborated on the engineering aspects and developed a design that could be factory fabricated and easily transported and offloaded into an excavation. The 2" inlet x 4" outlet station was fabricated, assembled, tested and coated at the Dresser facility in Bradford, PA. Once complete, it was then shipped to BGE in one complete piece with regulators installed, offloaded and installed in BGE's system in October with only inlet/outlet connections made in the field. The set was then buried and above ground cabinets installed.

Steve Troch commented, "Everyone at BGE was very pleased with the final result. BGE hopes to standardize this practice for all future District Regulator Station needs and they will look to Dresser to be the fabricator of choice. Thanks to all that made this a successful project!"

Dresser's unique manufacturing capabilities, engineering experience and fabrication capabilities allow them to offer gas utilities with quality customized measurement and regulation systems. FloSystems stations are custom built to customer specifications and manufactured by API 1104 and ASME Section IX certified welders. From concept to delivery, the Dresser team partners with the customer to provide the right solution.

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