

FuelsManager[®]

DEFENSE



*Willbros Government Services
and Varec Alliance*
A Remote Facility Monitoring and Enterprise Reporting Solution

Automated Fuel Dispensing Facilities

Willbros Group, Inc. provides a wide array of project management, engineering, construction and material procurement services to the oil, gas, refining and petrochemical and power industries worldwide. A subsidiary company, Willbros Government Services (U.S.) LLC provides a full range of services to government agencies, including building, owning and operating six Automated Fuel Dispensing Facilities (AFDF) for the Defense Energy Support Center (DESC).

Automated Fuel Dispensing Facilities

Each AFDF provides fuel to all military or other government vehicles on a 24/7 basis, but is also designed and built to meet the particular requirements of a specific location. An automated system captures each transaction as fuel is dispensed. This data is then recorded in Varec's FuelsManager® Defense software. Willbros' on-site Fuels Specialists are then able to upload transactions from FuelsManager to DESC's BSM-Energy enterprise system.

Previously, the overall management of each site from Willbros' engineering center in Tulsa, Oklahoma was extremely challenging, as each facility's reporting system was independent. It was increasingly difficult to monitor and manage the remote locations without some form of integrated enterprise system. Willbros required a system that could assist with monitoring for environmental safety, as the company prides itself on promotion of the health and safety of its employees and company assets, as well as the public, environment and communities in which they work.

As a result of previous experience with Varec's capabilities, products and services, Willbros approached Varec in late 2006 to find and enable a solution for enterprise reporting, inventory management and monitoring safety and integrity issues across multiple facilities. Varec systems engineers worked directly with Willbros to define a solution that met all requirements and provided a number of additional distinct advantages. The agreed solution was then factory tested online before being installed and commissioned in late 2007.

Willbros AFDF Locations

- Fort Bragg, NC (U.S. Army) - two facilities
- Fort Stewart, GA (U.S. Army)
- Fort Gordon, GA (U.S. Army)
- Twentynine Palms, CA (U.S. Marine Corps)
- Fort Campbell, KY (U.S. Army)

FuelsManager Defense

A single FuelsManager Defense server located in Tulsa connects to each facility's FuelsManager Defense workstations via satellite communications. The solution provides real-time monitoring, reporting and archiving of facility operations. It also meets Willbros' internal standards and assures the corporate Risk Department that a system is in place to monitor the safety of each facility. Willbros management personnel are now able to make informed decisions to support their customer, DESC.

Future Growth

The system now in place is able to grow in line with Willbros' business, making it suitable for many years to come. It can be utilized and expanded as needed for U.S. government applications or can be used in other commercial oil & gas applications.

Go to www.willbros.com for more information.



A Remote Facility Monitoring and

Dedicated Satellite Communications



FuelsManager at Each Facility:

- Records information collected from the third-party bulk storage tank measurement system to provide a daily physical inventory.
- Is able to import transaction data collected from the Automated Fuel Dispensing Facilities – providing a record of all book transactions.
- Provides terminal operators a real-time view of their bulk fuel storage tanks. Tank displays, inventory reports and trending allows operators to easily monitor key information to help efficiently manage bulk liquid inventories.
- Improves safety by protecting against tank overfills. Comprehensive real-time alarm and event management provides the relevant information needed to quickly react to and resolve alarm and event conditions.

FuelsManager at Company Headquarters:

- Centralizes all data, allowing tracking of product movements and enterprise reporting on a daily basis without delays.
- Archives all data for safekeeping, ensuring an audit trail.
- Monitors level alarms, providing a secondary tier for averting potential discharges of petroleum products from tank overfills.
- Tracks critical alarm status acknowledgments
- Acts as a gateway for monitoring each facility securely via the Internet from any location.

The AFD facilities provide fuels for wheeled and tracked vehicles, as well as bulk loading for tank trucks.



Measurement, Control and Automation

Oil & Gas

Varec has been a leading innovator in the petroleum and chemical sectors for over seven decades – delivering automated systems and professional services for most major oil companies worldwide. FuelsManager Oil & Gas is an integrated suite of software applications specifically designed for terminals, refineries and petrochemical plants, integrating with Varec's full product line of automatic tank gauging (ATG) instrumentation, communications interface devices and wireless products to deliver a complete solution.

Defense

Varec provides mission critical, commercial off-the-shelf solutions that are essential to air, ground and naval fueling applications. FuelsManager Defense manages and controls all bulk liquid assets in the dynamic environment of a military or government owned fuels facility, including functionality for transaction and inventory management, SCADA, tank gauging, dispatch and ADC.

Aviation

Varec is a worldwide leader in fuels management systems, providing performance solutions for commercial aviation fueling requirements. Varec's FuelsManager Aviation is an integrated, scalable solution – from simple fuels accounting to a fully automated airport – utilizing the latest mobile computing, web-based services, wireless communications and paperless ticketing technology.

Go to varec.com for more information.

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