



FUEL PIPING UPGRADE AT US ARMY BASE

Project Details

The United States Military is the largest institutional consumer of energy in the world. In 2015, the US Department of Defense consumed an estimated 4 billion gallons of fuel. The Air Force was the largest user at 53%, the US Navy/ Marines at 32% and the US Army at 14%. The Army's 14% equates to over 1.5 million gallons per day.

The Army's training facility at Fort Lee in Virginia has experienced frequent problems with leaks in the fuel distribution system over the past few years. The current system of grooved coupling aluminum piping has certain advantages; It is a mobile system that can be quickly installed. This fuel depot at Fort Lee is a permanent installation and required a better piping design to eliminate

leaks. The decision was made to install a welded steel piping system. Waco was awarded the contract to remove the original aluminum piping and replace it with new welded carbon steel piping. The new system of piping was coated on the exterior with a glossy epoxy based paint (Desert Tan). The fuel depot training facility had to remain operational throughout the project. Waco was responsible for rebuilding almost 120 valves on this project with seals and gaskets to prevent future leaks and extend the life of these valves. Many new PRV's (Pressure Reducing Valves) were added to the project to improve safety along the piping system.

The old aluminum piping, which was dimensionally and structurally in good shape, was neatly stacked on pallets for use at another facility.

Project Facts:

- 2400 lineal feet of piping installed
- 400 new fittings installed
- 3 Pump Stations
- API 570 Pressure Testing of All New Piping
- Waco Project Manager: Jon Coon
- Waco Superintendent: Jimmy Edwards Sr.
- Contract Amount: \$1.1 million

The Department of Defense Annual Operational Energy Report of 2013 had many specific strategies and goals for reducing waste and improving overall energy use. This project was completed in May of 2017 and was one of many projects that this facility instituted to address goals and initiatives set forth in the report.



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