

Thinking Outside the Box



TEST CELLS

THE CHALLENGE



A well-known generator manufacturer was facing serious challenges in their newly constructed test cell facility. The fuel system that is essential for running accurate generator performance tests was underperforming. Issues with piping, valving, and inconsistent fuel control led to spilled fuel, service disruptions, and unreliable test conditions. The consequences weren't just operational - they posed serious environmental and safety risks, including potential facility shutdowns.

THE SOLUTION



PEI was brought in to assess the situation. Rather than mirror the flawed system, PEI designed and implemented a custom solution: the installation of a process tank that regulates fuel temperature and streamlines the testing process. This new configuration allowed for more precise fuel flow, lower pressure options for specific generator models, and significantly enhanced testing accuracy. The PEI team handled all aspect of the redesign, installation, and commissioning of the system, along with hands-on training for end users and plans for long-term serviceability.

THE RESULTS



The result was a fully optimized and environmentally sound fuel system, tailored specifically to the testing needs of the client.

The system:

- Optimizes safety and integrity of test units to support business objectives
- Eliminates fuel spillage and overflow incidents
- Ensures facility and employee safety with innovative design and implementation
- Saves the client both time and resources by eliminating guesswork and delays
- Exceeded project scope and customer expectations under an extremely tight deadline

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CUSTOMER TESTIMONIAL

*The corporate head of facility maintenance described the PEI team as “**amazing to work with,**” further cementing the success of the partnership. Most importantly, the new fuel system exceeded the client's expectations and enabled the company to move forward with confidence in their testing capabilities.*