

Underground Storage Tanks & New Engineering Control Center (ECC)

VAMC Buffalo

Buffalo, NY

Project Owner:
VA Western New York
Healthcare System

Professional Services:
2018—On going

Construction:
Anticipated 2019—2020

Est. Construction Cost:
\$2.25 million



KEY ELEMENTS

Thorough existing conditions investigations

Facility-wide controls integration

Integration of other hospital systems into ECC

Hazardous material remediation

Restoration of finishes

Fuel pumping and quality maintenance skid

SUMMARY DETAIL:

The project includes design of new No. 2 Fuel Oil storage tanks and fuel pumping system to serve as a 10-day emergency fuel backup for the 14-story Veterans' Hospital. Design included hazardous removal and decontamination of the previous tanks, excavation, and installation of new tanks. As well, a new mechanical vault was designed below grade adjacent to the new tanks to house the fuel oil pumping skids and fuel oil filtration and maintenance system equipment. Architectural upgrades included all new windows and intake louvers throughout the exterior of the boiler house. Multistory banks of operable windows are being designed to allow for operator comfort.

The New Engineering Control Center aspect of this project is similar to the scope of work described in this Solicitation. Presently, the facility utilizes a myriad of legacy systems scattered throughout the hospital, with limited to no reporting back to the plant engineering staff and mechanics charged with maintaining these systems. PDC is currently engineering a new Engineering Control Center to be located within the main boiler plant that will integrate the facility's HVAC Controls, Fire Alarm, Public Address, Central Boiler Plant Controllers, Reserve Fuel Tank Level Monitoring, Emergency Generator Controllers, Security & Access Control Systems, and Hospital Medical Gas Alarms.

The ultimate goal of the project is to allow a single plant operator at their station to monitor all systems within the facility; many of which currently require mechanics to physically inspect, thus delaying response. The new control center will allow continuous problem monitoring, alarms, and long-term performance trending to help inform long term maintenance programs. Similar to this project, limited legacy pneumatic controls are being replaced with digital controls. Limited asbestos abatement and replacement of finishes are being completed where impacted.