

Project Scope:

Great Northern Engineering provided engineering services to renovate and/or retrofit existing Stand-by Generator fuel systems at seven sites to meet current local and federal fuel storage and Department of Homeland Security standards. Existing 500-to-2000-gallon single-walled above-ground tanks removed and replaced with custom designed double-walled tanks.

Project Detail:

- Designed all piping, controls, monitoring, and day tanks that were replaced.
- Performed renovations at seven unique water well, reservoir, and distribution sites.
- Performed complete hazardous materials study prior to demolition.
- Managed a comprehensive demolition and renovation to avoid unavailability of generator systems.
- Provided tank design to meet minimum runtime requirements.
- Designed custom level monitoring, leak detection, and over-fill alarms in accordance with existing SCADA system and proprietary operations systems.
- All safety and security measures met or exceeded those required by the Department of Homeland Security.
- GNE personnel provided technical expertise to facility engineers and facility operators that prevented potential problems after installation and during operation.

