

III-k | BACKUP POWER TECHNICAL SUMMARY

Emergency Backup Power:

The project will utilize diesel backup generation to support essential facility functions. These functions include critical IT networking, lighting, and essential health, safety, control, and security systems.

The generators will be installed in dedicated equipment yards next to the buildings. Each unit is integrated into a large, weathertight enclosure and directly mounted on a manufacturer-designed fuel storage tank. Each tank has a total volume of approximately 9,500 gallons and will be fueled independently. With only limited annual runtimes expected for testing, fueling is projected to be required no more than once per year. The fuel storage tank will meet UL142 standard aboveground steel tank for flammable and combustible liquids. The primary containment tank is contained within a steel secondary containment shell forming an interstitial (annular) space, which will be monitored for leakage from either the interior or exterior walls. The fuel storage tank will be fitted with an overfill prevention valve and fill/spill bucket. A spill prevention, control, and countermeasure (SPCC) plan will be developed for the facility in accordance with SPCC rule, 40 CFR Part 112.

The backup system is designed to prioritize life safety and critical IT and control systems. This will allow the facility to be safely managed and seamlessly restored if utility power is lost. However, due to the project's connection to the high-level utility transmission system, the probability of an outage is low.