

Fact Sheet

Zion Station Decommissioning and Site Restoration



Site Restoration



(L to R) Connecticut Yankee Nuclear Power Plant Before, During, and After Site Restoration
Photo at far right was taken from different angle; brown area to the right is where the nuclear plant once stood.

Site restoration involves demolition and removal of clean equipment, buildings, and structures from the Zion Station site that remain after radiological decommissioning work is completed. ZionSolutions will backfill and stabilize below-grade openings or cavities, then grade and seed the site to achieve a natural contour with the surrounding environment.

ZionSolutions, with the support of resources from EnergySolutions, has extensive experience in the decommissioning, waste management, large component disposition, and/or site restoration of nuclear power plants. Following are a few project highlights.

Big Rock Point—Responsible for waste management, large component disposition, and on-site independent spent fuel storage installation.

Yankee Rowe—Supported decontamination and decommissioning (D&D) activities including removal of spent fuel from pool to on-site dry storage facility; demolition of structures; remediation of contaminated soils and concrete; and final status survey to meet NRC requirements (primary subcontractor to NAC International).

At the conclusion of site restoration, the site will be ready for beneficial reuse. Only the dry fuel storage facility and switchyard will remain. The Zion Station licenses will be amended to reflect completion of radiological decommissioning work and to cover future spent fuel monitoring until the U.S. Department of Energy (DOE) accepts the spent fuel.

Connecticut Yankee—Supported D&D, including management of low-level radioactive waste.

Magnox (U.K.)—Reactor operations, decommissioning, and waste management.

Quick Facts

- With ZionSolutions, site restoration and beneficial reuse of the Zion Station will be achieved at least 12 years earlier than the current plan.
- Clean building and structures will be removed from the Zion Station site and the grounds will be restored to match the surrounding landscape. The site will be prepared for beneficial reuse and returned to Exelon's control.
- The dry fuel storage facility will remain on the property until the federal government meets its legal obligation to remove the spent fuel.
- Proven methods will ensure worker and public safety during all decommissioning activities.
- The lakefront and wetlands will be protected through rigorous environmental controls and a comprehensive monitoring program.
- ZionSolutions will coordinate regulatory interface support, submittals, and compliance.
- Project provides cost certainty with no further contributions from Illinois electric ratepayers.

For more information:

Larry Booth
Community Outreach Manager
lwbooth@energysolutions.com
phone 224-789-4015
www.zionsolutionscompany.com
www.energysolutions.com