

ZIONSOLUTIONS FUEL STORAGE

Used fuel transfer to dry storage containers using NAC International MAGNASTOR system

NAC PROJECT HIGHLIGHTS

- Delivered 65 high-capacity MAGNASTOR systems
- All systems loaded at industry-benchmark pace
- One of the largest loaded U.S. ISFSI at shutdown commercial nuclear site

ZionSolutions, a subsidiary of EnergySolutions, has successfully completed the transfer of all used nuclear fuel from the storage pool of Exelon's shutdown Zion nuclear power plant in Illinois.

The used fuel was loaded into 61 MAGNASTOR dry storage systems supplied by Atlanta-based NAC International and successfully transferred to the Independent Spent Fuel Storage Installation (ISFSI) at the Zion site. Four additional MAGNASTOR systems are used to safely store greater than class (GTCC) waste. The used fuel loading campaign was completed in less than one year, an industry-benchmark pace.

The two-reactor Zion Nuclear Power Station operated from 1974 to 1998 and is located on the shore of Lake Michigan. The transfer of the used fuel to dry storage is the largest such loading campaign in the United States to date and is part of a 10-year, \$1 billion decommissioning plan for the Zion site.

In 2010, the U.S. Nuclear Regulatory Commission approved the transfer of the Zion site license from Exelon to EnergySolutions for the duration of the decommissioning, which is expected to be complete in 2020. After that, Exelon will hold the license until the U.S. Department of Energy removes the used fuel for final disposal.



Top photo: The last MAGNASTOR system is transported to the ISFSI pad at Zion. **Bottom Photo:** NAC MAGNASTOR spent fuel casks on the Zion ISFSI pad.

ZionSolutions is responsible for the security and monitoring of the ISFSI while the rest of the site is decommissioned, a project that requires an average of 200 skilled workers a year. As ZionSolutions dismantles the facility, it plans to transport the plant components in bulk to EnergySolutions' disposal site in Utah.

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