

## *Decommissioning Site Fuel Storage*

# **NAC SUPPLIED OVER HALF OF THE USED FUEL SYSTEMS AT DEFUELED DECOMMISSIONING U.S. UTILITY SITES**

When it comes to addressing used fuel and waste needs at shutdown sites, the track record is clear—**NAC International (NAC) is the proven expert**, with experience at many U.S. decommissioning sites.

### **KEY POINTS:**

- With 20 years of experience, NAC is a leader in decommissioning efforts
- Our technology system designs help minimize risk and dose
- NAC has proven success with record fuel loading and transfer times

*Experience, robust design and versatility make **NAC** the best choice for minimizing risk to decommissioning schedules.*

NAC has supplied

# 57%

of U.S. dry storage systems at defueled commercial nuclear power plant decommissioning projects.

### **PROVEN EXPERTISE**

When it comes to the transfer and storage of used nuclear fuel, fuel debris, and greater-than-class-C (GTCC) waste, NAC provides the benefits of more than 20 years of decommissioning experience. This experience has taught our experts a major lesson – used fuel storage is more intricate at decommissioned facilities than at operating plants.

NAC's project experience, knowledge and system designs will streamline fuel removal from the plant to dry storage (defueling), which accelerates decommissioning. With a proven track record, NAC has successfully addressed key elements of used fuel, GTCC, and high-level waste (HLW) at shutdown sites including:

- Demonstrating safety, seismic and dose performance (all projects measured near 0 mrem/year at ISFSI and site boundary)
- Handling and packaging damaged fuel, fuel debris, and GTCC waste
- Employing non-invasive draining and drying operations
- Mobilizing large-scale fabrication efforts
- Addressing unique infrastructure challenges, demanding schedules, and public and government constituencies



Transport of the 24th MAGNASTOR system to the Kewaunee ISFSI pad.

# SUCCESSFUL DECOMMISSIONING EFFORTS AT U.S. SITES

NAC International has unparalleled experience supporting nuclear plant decommissioning. NAC played an integral role in the decommissioning of six U.S. nuclear power plants, supplying transportable storage systems for used nuclear fuel, GTCC waste and other material.

## **A** YANKEE ROWE

**Cask Systems:** 16 NAC-MPCs

**Fuel Assemblies:** 533, GTCC Waste

## **B** MAINE YANKEE

**Cask Systems:** 64 NAC-UMS

**Fuel Assemblies:** 1,432, GTCC Waste, Damaged Fuel

## **C** CONNECTICUT YANKEE HADDAM NECK

**Cask Systems:** 43 NAC-MPCs

**Fuel Assemblies:** 1,019, GTCC Waste

## **D** LACROSSE BWR

**Cask Systems:** 5 NAC-MPCs

**Fuel Assemblies:** 333, Damaged Fuel

## **E** ZION NUCLEAR STATION

**Cask Systems:** 65 NAC MAGNASTOR

**Fuel Assemblies:** 2,226, GTCC Waste, Damaged Fuel

## **F** WEST VALLEY DEMONSTRATION PROJECT

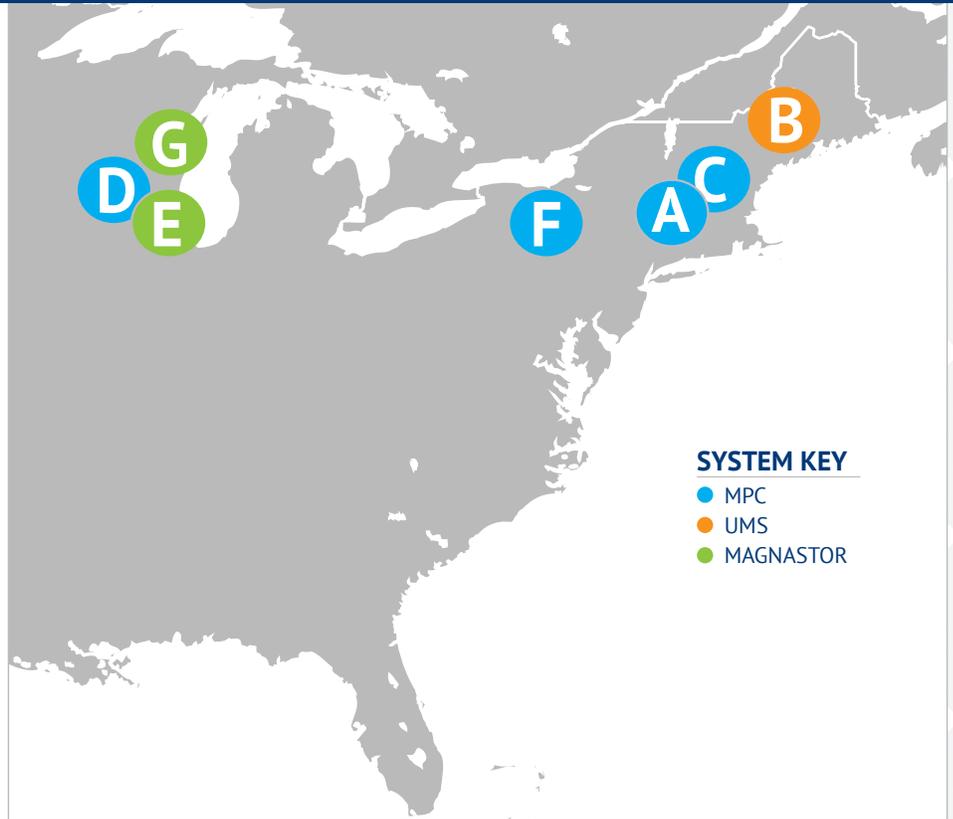
**Cask Systems:** 56 NAC MPCs

Each holds 5 canisters of vitrified High-Level Waste

## **G** KEWAUNEE POWER STATION

**Cask Systems:** 24 MAGNASTORs

**Fuel Assemblies:** 888, Damaged Fuel



**Top photo:** NAC MAGNASTOR spent fuel casks on the Zion ISFSI pad.

**Bottom Photo:** Cask temperatures are continuously monitored at the ISFSI.

 **NAC  
INTERNATIONAL**

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