Your Energy Partner®
OPPD
Omaha Public Power District

Fort Calhoun Station
Final Spent Fuel Moves and Dry Cask Storage

May 14, 2020

Orano TN project team expanded storage

Crews expanded the Independent Spent Fuel Storage Installation (ISFSI) from 10 original Horizontal Storage Modules (HSMs) to 42

TN manufactured and delivered 30 canisters

Technicians in North Carolina fabricated and welded each canister to exacting specifications, with all 944 bundles mapped to a specific location in the framework

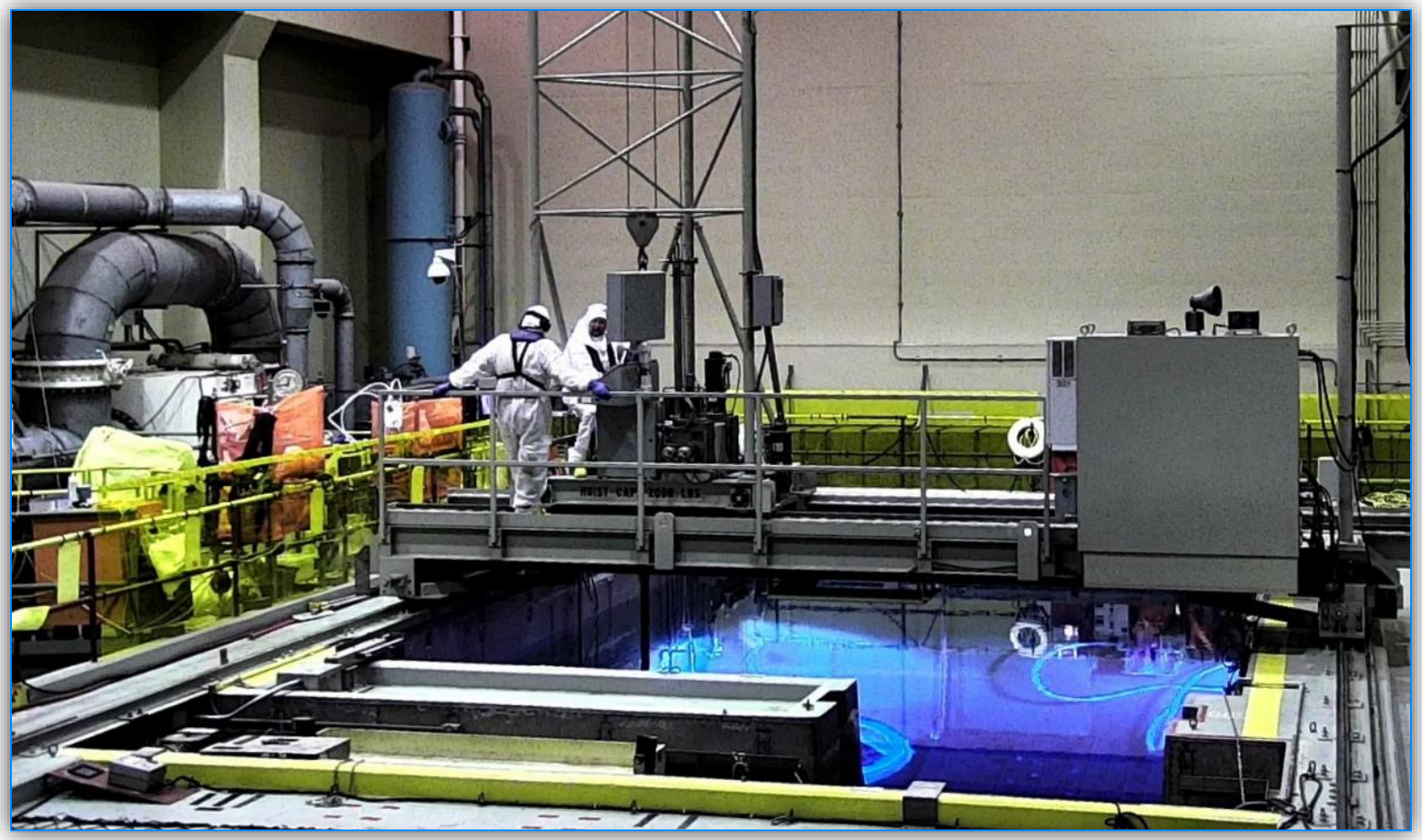
OPPD & TN inspectors validated quality

OPPD's Nuclear Oversight group provided valuable feedback and guidance throughout the process

At FCS, canisters were re-inspected & readied for fuel

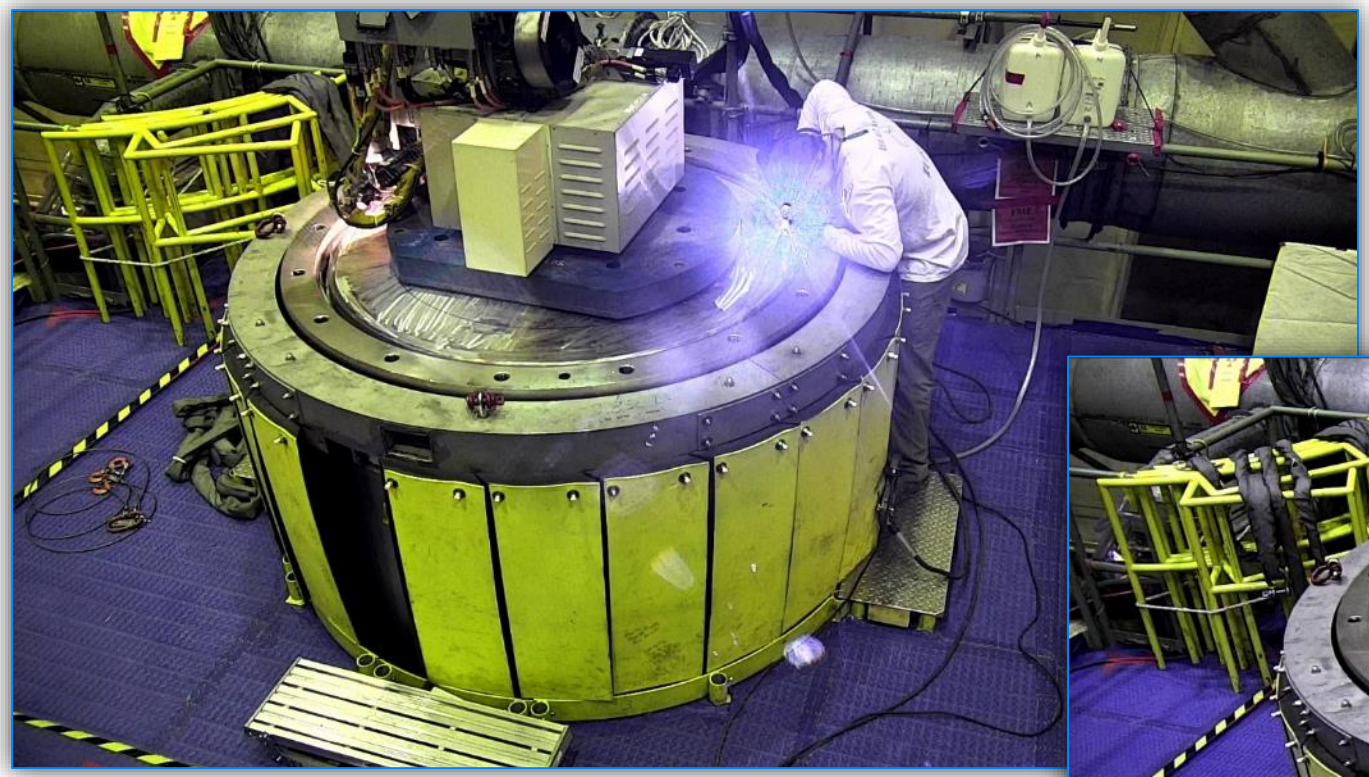
Each canister weighs 46,000 pounds empty. Material and weld inspections ensured canisters were undamaged during transport.

OPPD operators safely loaded fuel into canisters



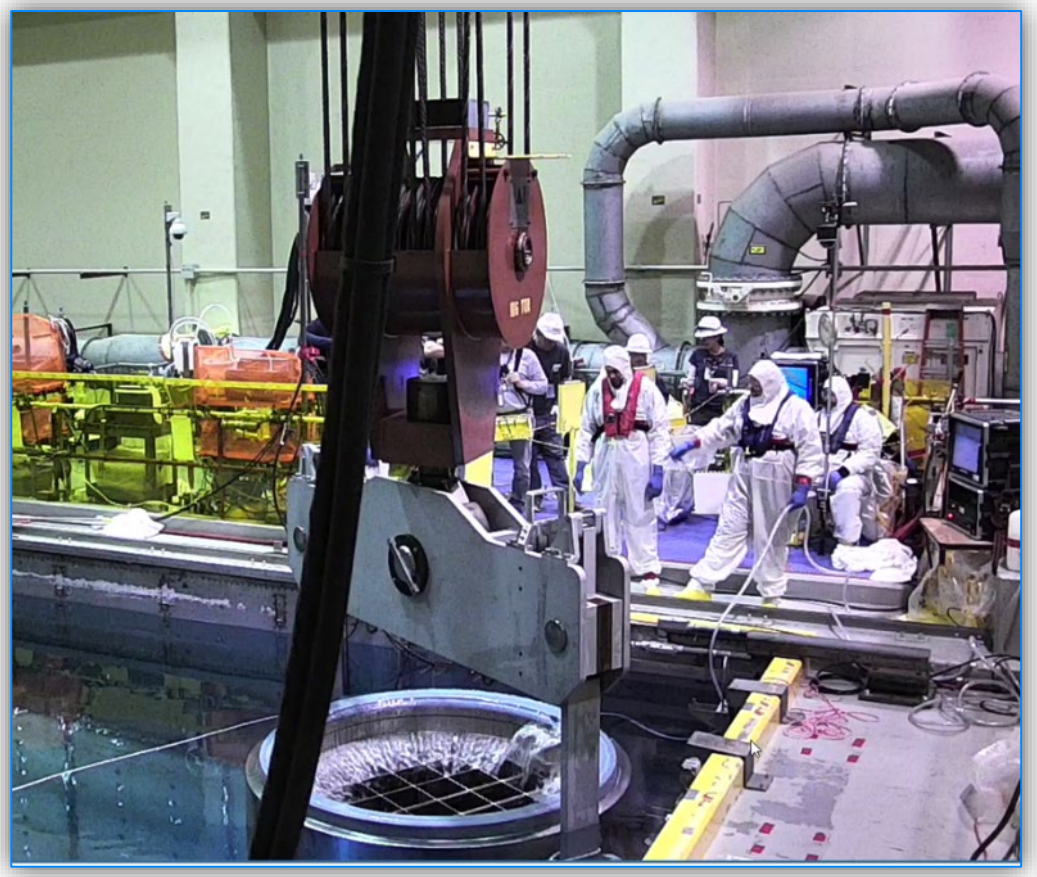
Fuel handlers underwent extensive training and had rigorous oversight to perform this precision work

Canisters were vacuum dried and welded shut

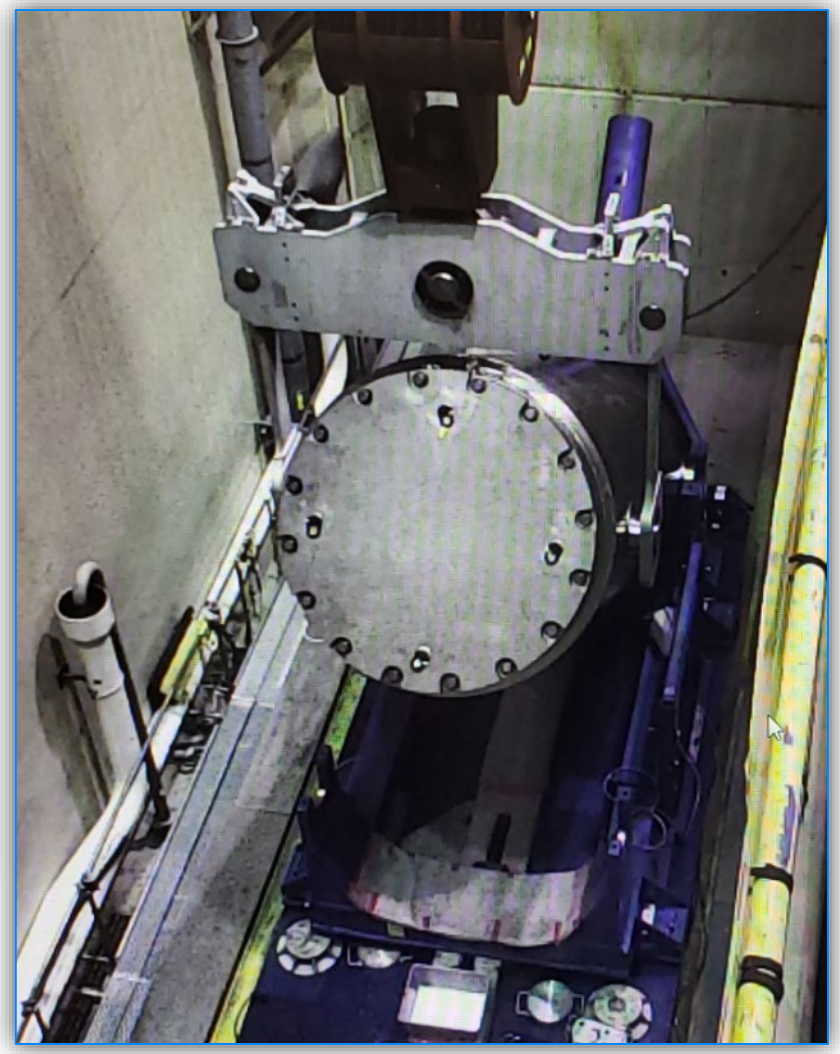


Shielding and industry-standard administrative controls minimized worker's exposure to radioactivity

OPPD Maintenance operated & maintained the crane



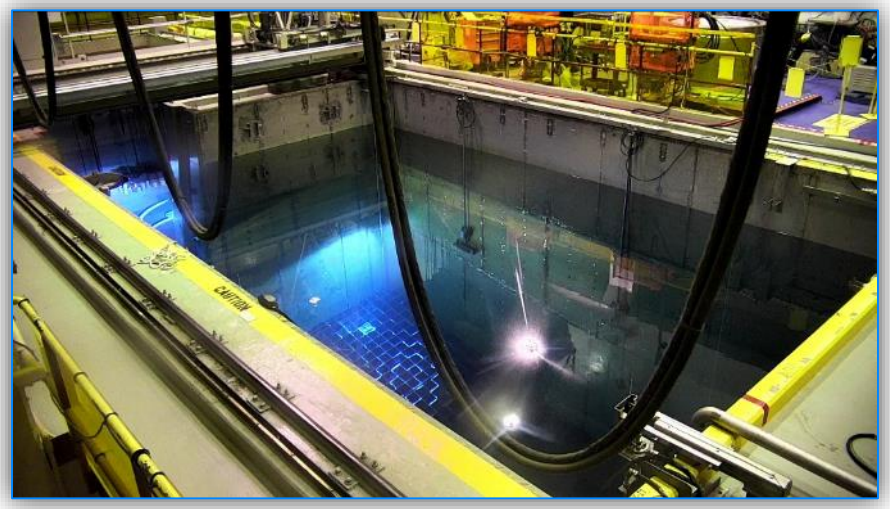
The ‘HE-2’ heavy equipment crane was essential to the project’s success



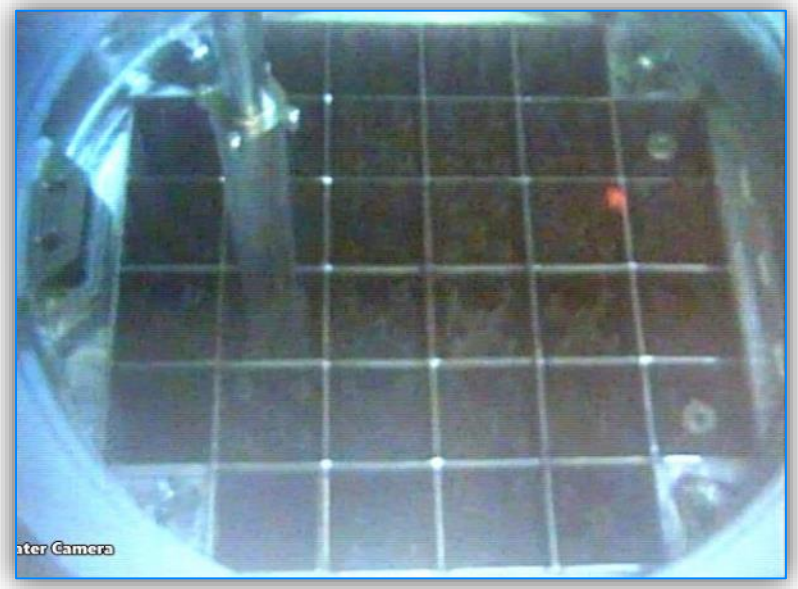
FCS Security oversaw TN's cask moves to the ISFSI

Slowly and safely, technicians transported canisters to the ISFSI and inserted them into the HSM, then securely bolted down the door

Final canister receipt, inspection and fuel load



OPPD Fuel Handlers placed the last bundle May 8 at 1:55 p.m. →



Final canister transport and placement

Technicians secured the final door bolt May 13 at 10:08 p.m. →

Massive support across OPPD & Orano TN

- Most importantly: **safe and event-free!**
- District-wide collaborative effort
- More than 250 OPPD employees
- Many thousands of planning and work hours
- 30 canisters, 944 fuel bundles
- First bundle removed Oct. 14, 2019
- Last canister secured May 13, 2020
- Remaining work
  - Notify NRC
  - Finalize paperwork