

Over 170 Multi-Purpose Canisters Loaded in 2018 -- an Industry Record

We are pleased to report successful dry storage implementations of both PWR and BWR multi-purpose canisters (MPCs) in HI-STORM vertical ventilated modules at numerous nuclear plant sites, setting new records in their curie content and heat load. Out of the total of 170 HI-STORM systems loaded thus far, 135 have been loaded by Holtec's own site services group. The total number of Holtec systems loaded globally to date stands at 1235 at this writing. The nuclear units that have increased their dry storage population of HI-STORM vertical ventilated systems (VVMs) in 2018 are (in alphabetical order): Browns Ferry (TVA), Callaway (Ameren), Clinton (Exelon), Comanche Peak (Luminant), Diablo Canyon (PG&E), D.C. Cook (American Electric Power), Farley (Southern Nuclear), Pilgrim (Entergy), SONGS (Southern California Edison), Vermont Yankee (Entergy), Vogtle (Southern Nuclear) and Watts Bar (TVA).

Of the loadings this calendar year listed above, Callaway is a subterranean (below-ground) storage system known as HI-STORM UMAX, which is also designated as the storage technology for the consolidated interim storage facility named HI-STORE CISF. HI-STORE CIS is being licensed with grass roots support from the Eddy Lea Energy Alliance (ELEA) representing the counties of Eddy, Lea and the cities of Hobbs and Carlsbad in southeastern New Mexico.

D.C. Cook tops the list of operating plants for loading the most MPCs in one campaign (16) and TVA claims the top billing for loading the maximum heat load canister at 29.90 kW. The crew dose came in at or below the target at nearly every plant, with Exelon's Clinton Station performing the best in this category (approximately 75% below the estimated dose).

Vermont Yankee's loading was its last with its entire in-pool inventory of used fuel placed in dry storage in preparation for decommissioning. A total of 45 MPCs were loaded in VY's "whole pool de-fueling" campaign completed this summer. Pilgrim, also scheduled to be decommissioned, still has 2,378 fuel assemblies in the pool, which will be transferred to dry storage shortly after its shutdown in mid-2019. Thus far, 29 MPCs have been loaded at SONGS with the loading of the remaining 44 scheduled to be completed by mid-2019. Inaugural MPC loading campaigns are imminent at South Texas Project and Laguna Verde (Mexico). Ukraine's national nuclear utility, NAEK Energoatom, is poised to begin operating the world's first functioning Consolidated Interim Storage Facility utilizing Holtec's VVER Canisters in HI-STORM vertical ventilated storage modules beginning in Spring 2020. South Africa's Koeberg Nuclear Power Station will also begin its dry storage deployment using HI-STAR 100s next year. Within the Chernobyl Exclusion Zone, there are currently more than 22,000 RBMK assemblies from the long-shuttered Chernobyl reactors stored at an aging wet spent fuel storage facility called ISF-1. Holtec is in the final phases of completing the construction, testing and commissioning of dry storage facility called ISF-2. ISF2 includes world's largest "hot cell" for segmentation of RBMK fuel assemblies. The dismembered fuel assemblies will be stored in Holtec's patented *Double Walled Canisters* (DWCs).

"A relentless drive to make fuel loadings safe and efficient, to reduce radiation dose to the workers and the environment, and to make dry storage systems an invincible fortress of safety, are all core undertakings of our Company. Lessons learned from ongoing operations are continuously leveraged to further strengthen our dry storage program across the 16 countries where we have the privilege to serve," says Holtec's Chief Communications Officer, Ms. Joy Russell.

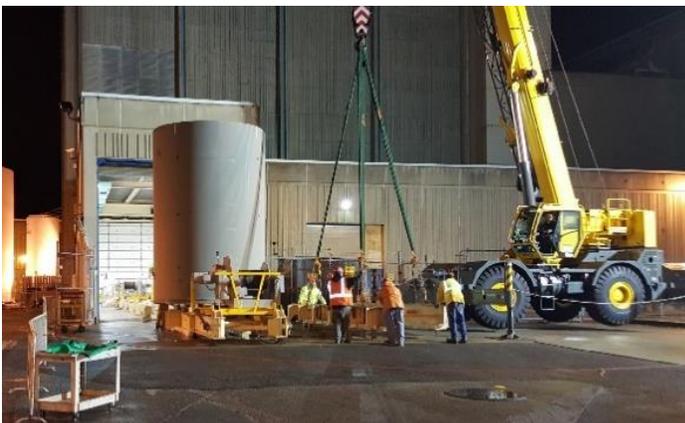
Captioned photos from this year's site services campaigns presented below capture the ethos of our dry storage program.



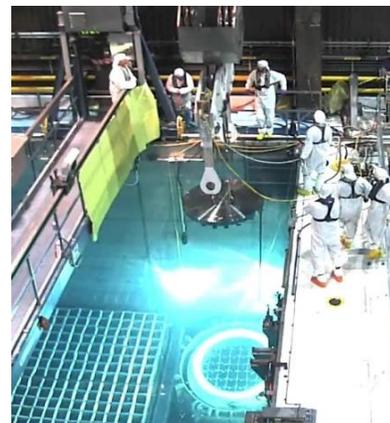
HI-STORM FW overpack
being removed from the Fuel Building



HI-TRAC being transported to hatch for
stack up at Pilgrim Station



Loaded HI-STORM being moved out of Fuel Building at
Pilgrim Station on elevated rail system



MPC lid being installed at
Diablo Canyon