HI-STORM 100S General Loading Operations at US NPPs

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Objective of NATC ISOE Dry Cask Global Dose Project

- To standardize RWP (REP) tasks and sub-tasks to facilitate ISOE benchmarking dry cask ALARA information exchange
- To identify and share good ALARA Practices for dry cask campaign worker dose reduction e.g., time lapse video
- To promote ISOE member incentive to achieve the lowest possible dose per cask processing/ storage
Prepare HI-TRAC/MPC for Loading Fuel
Annulus Filling with Demineralized Water
Annulus Seal Installation
HI-TRAC Raised to Spent Fuel Pool Floor
HI-TRAC Placed into the Spent Fuel Pool
HI-TRAC Lowered to the Spent Fuel Pool Floor
Lift Yoke Removal From the Spent Fuel Pool
Add the Lift Yoke Extension
HI-TRAC and Cask Stand Operations
HI-TRAC and Cask Stand Operations
Lift Yoke Extension Removal
Fuel Loading in the MPC
Underwater MPC Lid Installation
HI-TRAC Raised from the Cask Loading Area
HI-TRAC and Cask Stand Operations
HI-TRAC Placed Back on the Cask Stand
Removal of the Lift Yoke Extension
Reinstallation of the Lift Yoke
HI-TRAC Movement to the Cask Loading Area
Lift Yoke Removal
Annulus Seal Removal
Install Automated Welding System
Weld the MPC Lid
Force Helium Dehydrator Attached to the MPC
MPC Draining, Drying and Backfill
RVOAs Removed
Vent And Drain Port Covers Installed
Closure Ring Installed
Closure Ring Welding
Automated Welding System Removal
HI-TRAC Lid and Lift Cleat Installation
Mating Device Installation on HI-STORM
HI-TRAC Moved to the Transfer Location
HI-TRAC Mated with HI-STORM
Downloader Slings Tensioned
Lift Bags Inflated
Pool Lid Bolt Removal
Pool Lid Lowering
Mating Device Opened
HI-TRAC Removal from the Mating Device
Mating Device Closure
Mating Device Removal from HI-STORM
HI-STORM Moves To The ISFSI

Placing the HI-STORM at ISFSI
HI-STORM Moves To The ISFSI

Placing the HI-STORM at ISFSI
Questions