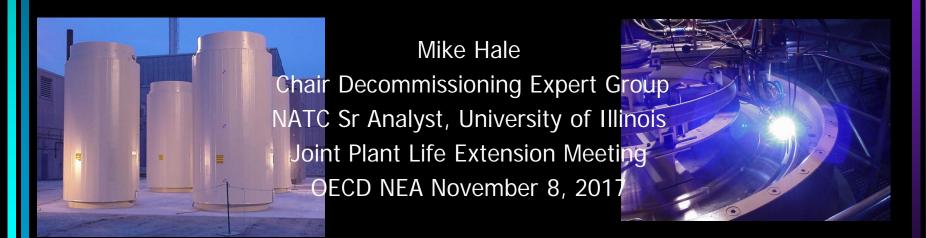






HI-STORM 100S General Loading Operations at US NPPs



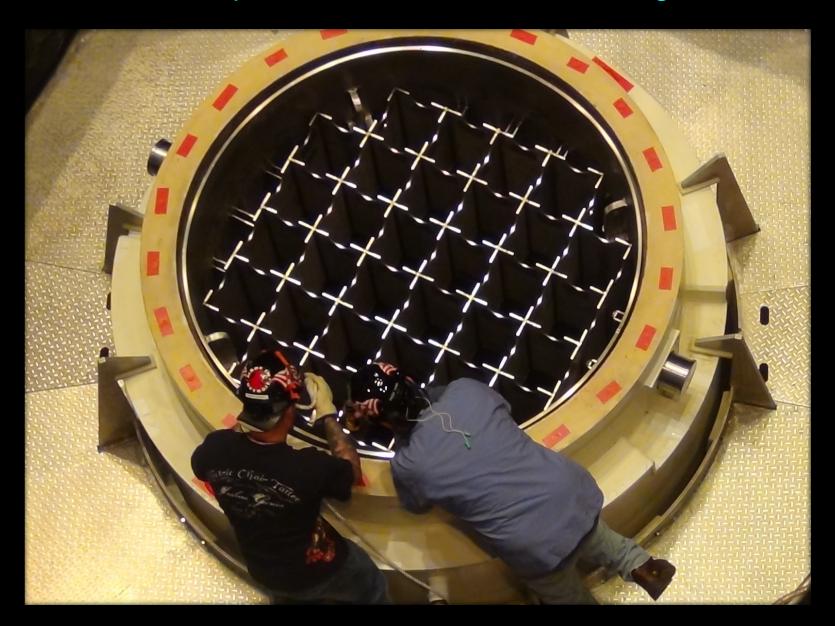
Objective of NATC ISOE Dry Cask Global Dose Project

- 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

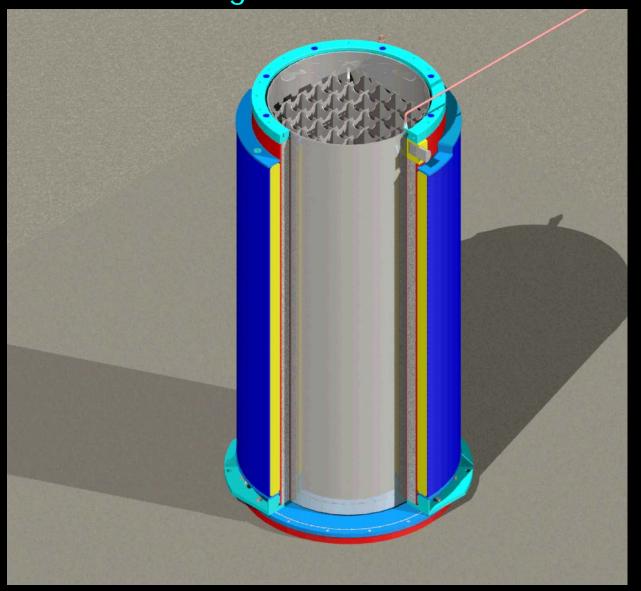
Empty MPC Placement Inside HI-TRAC



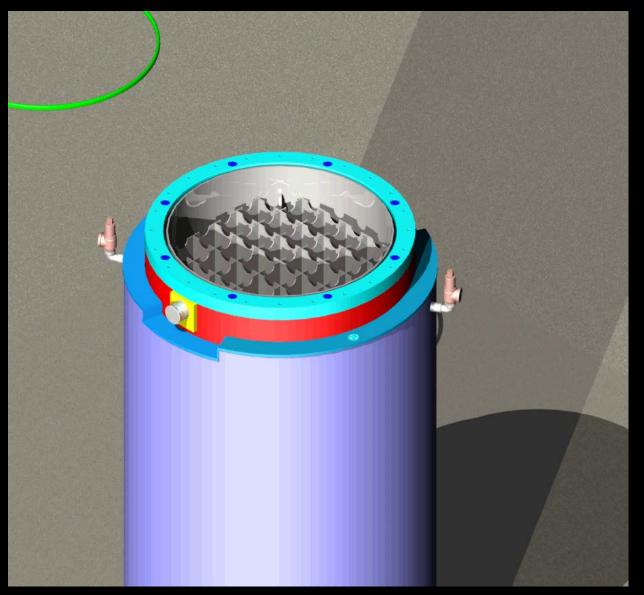
Prepare HI-TRAC/MPC for Loading Fuel



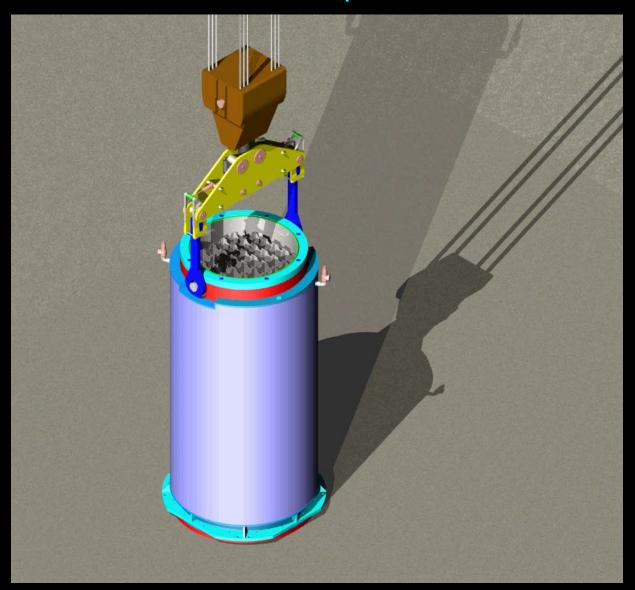
Annulus Filling with Demineralized Water



Annulus Seal Installation



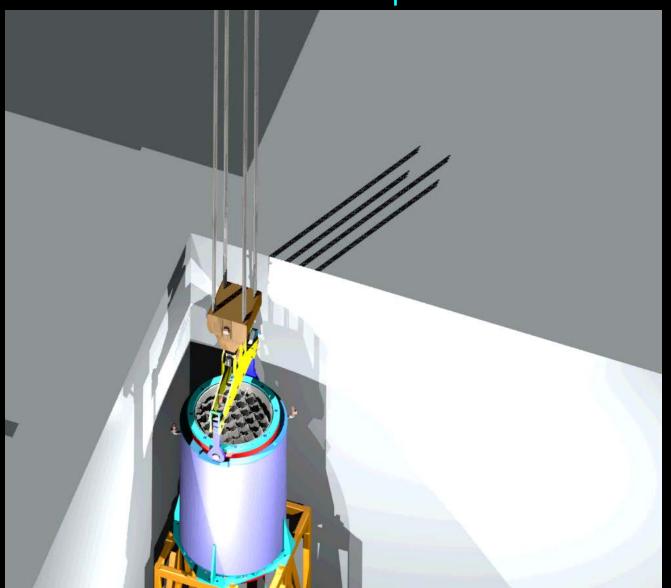
HI-TRAC Raised to Spent Fuel Pool Floor



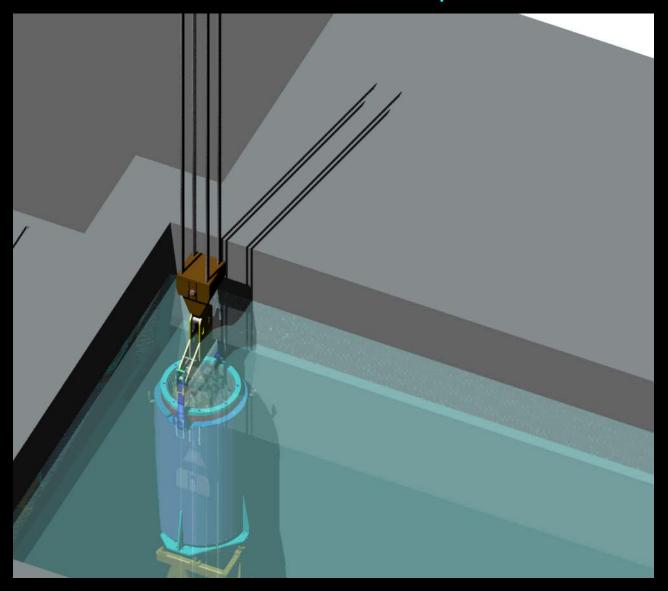
HI-TRAC Placed into the Spent Fuel Pool



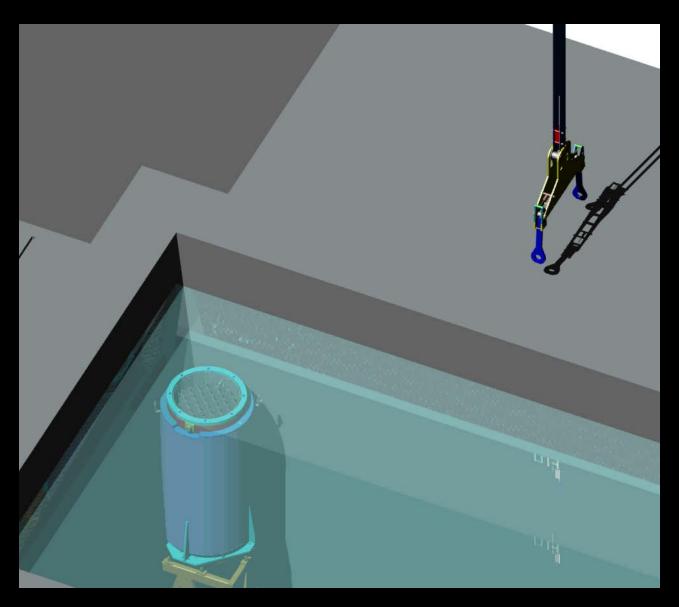
HI-TRAC Lowered to the Spent Fuel Pool Floor

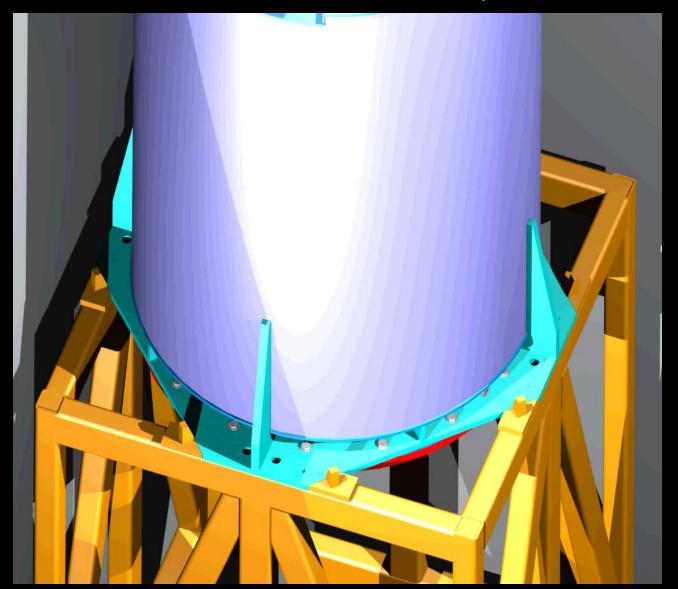


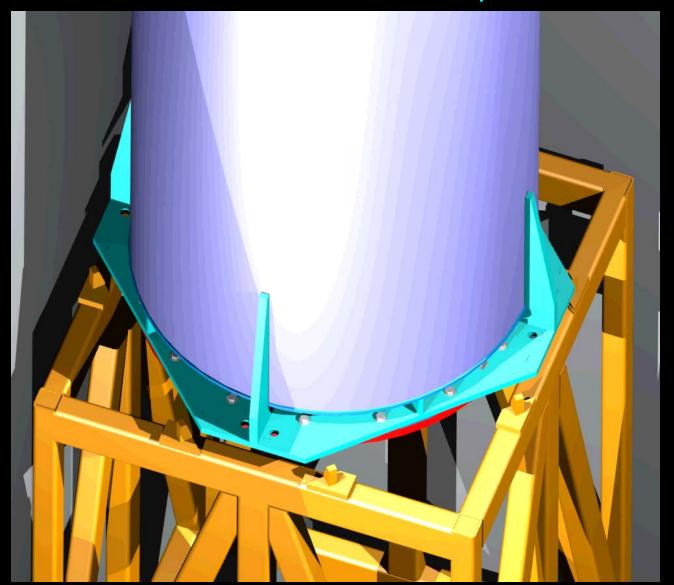
Lift Yoke Removal From the Spent Fuel Pool

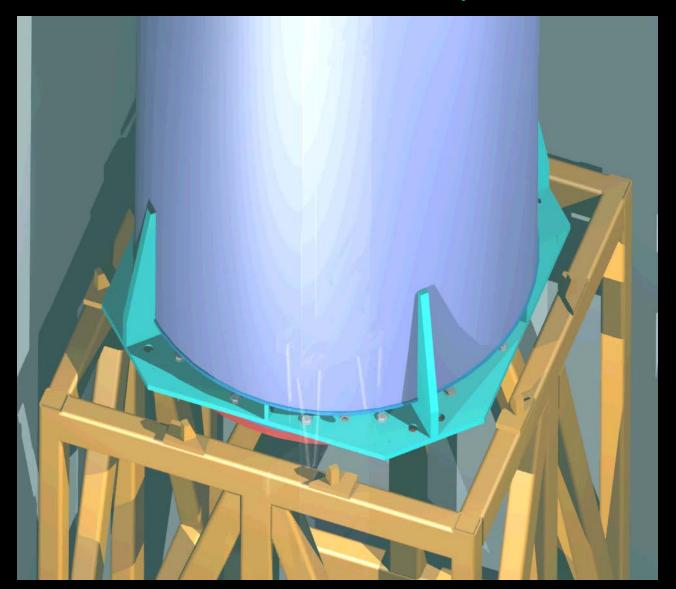


Add the Lift Yoke Extension

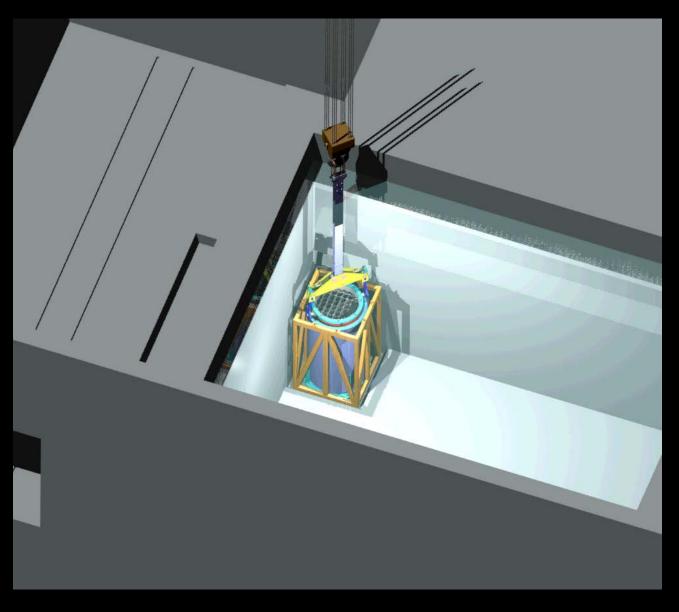




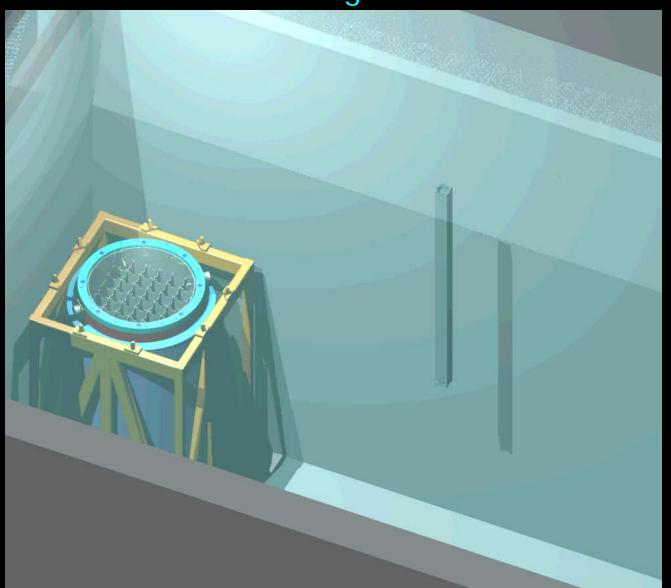




Lift Yoke Extension Removal



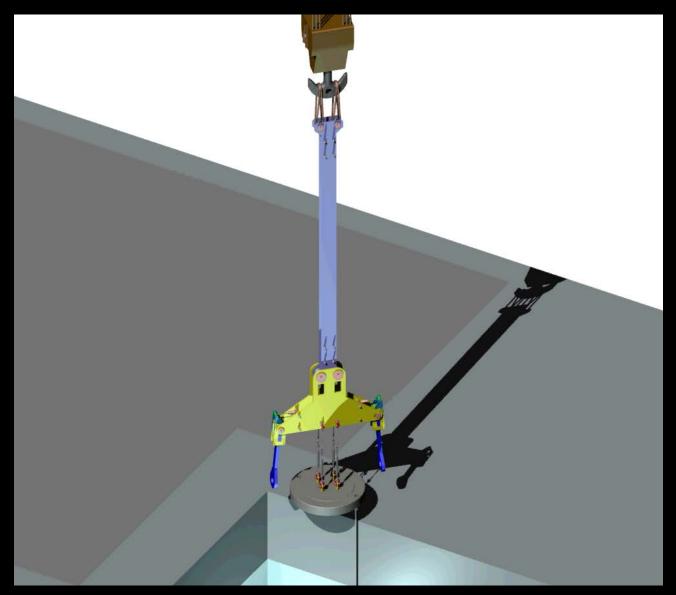
Fuel Loading in the MPC



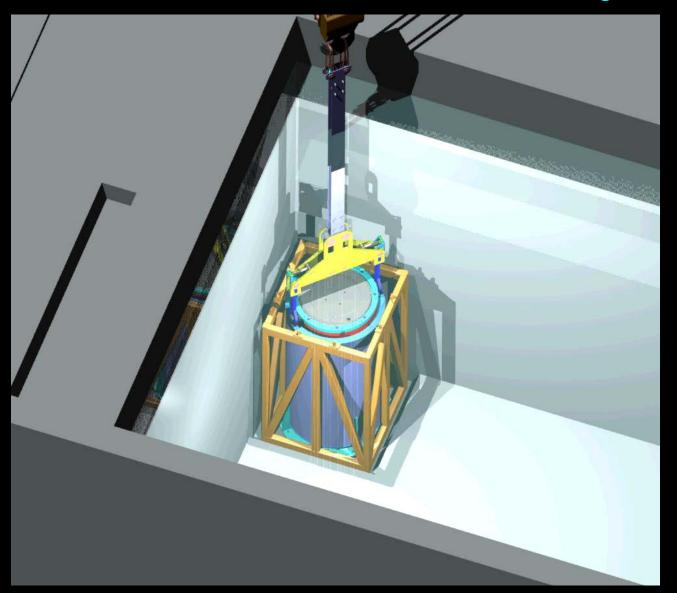
MPC Drain Line Installation

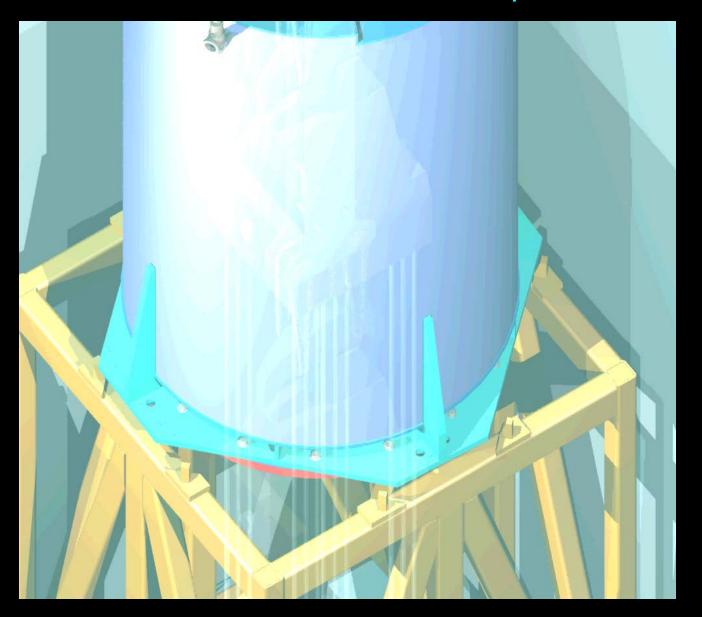


Underwater MPC Lid Installation

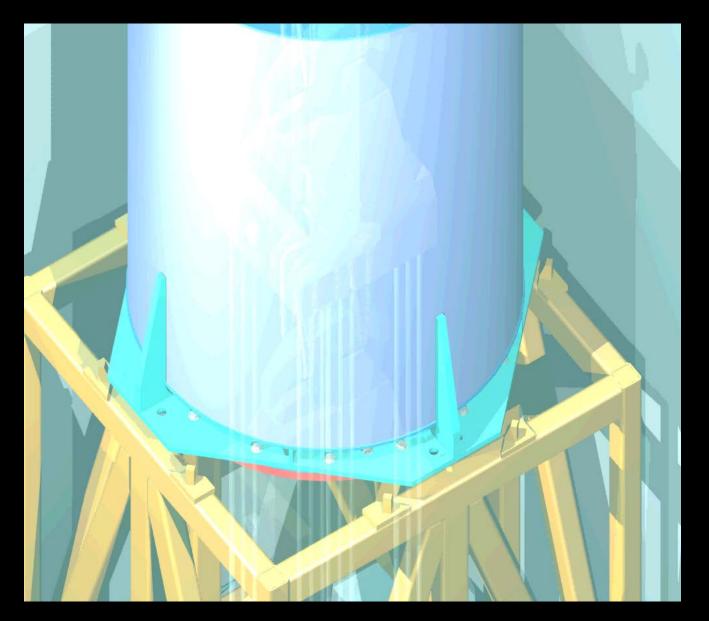


HI-TRAC Raised from the Cask Loading Area

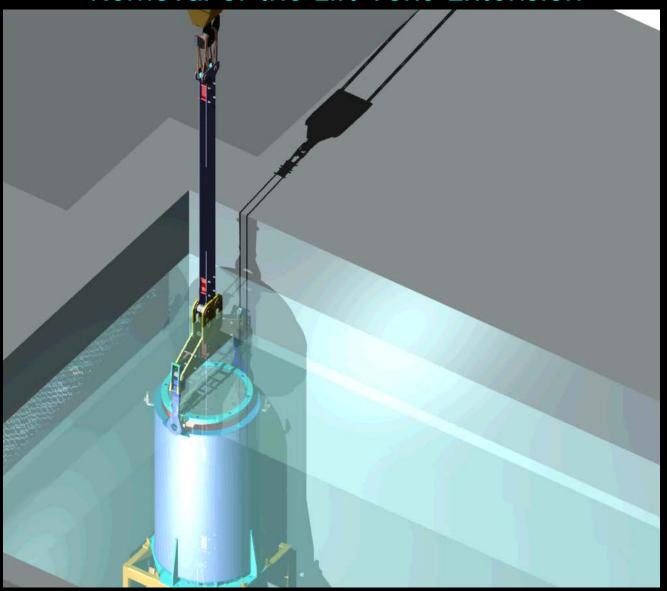




HI-TRAC Placed Back on the Cask Stand



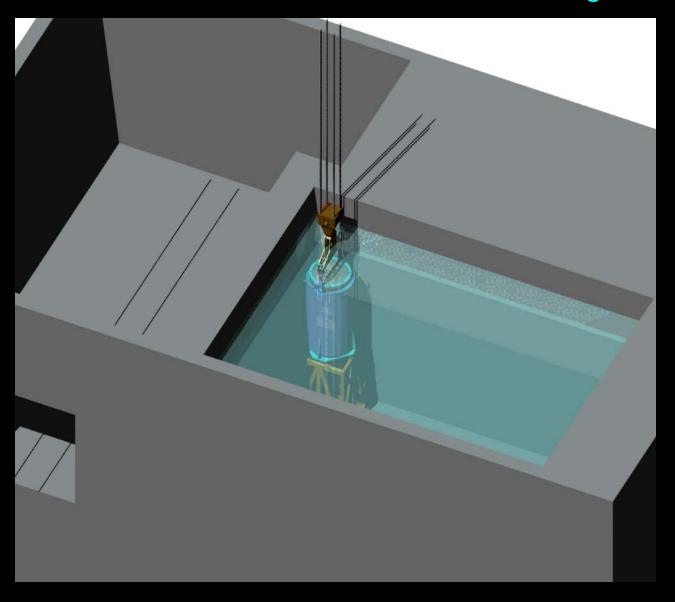
Removal of the Lift Yoke Extension



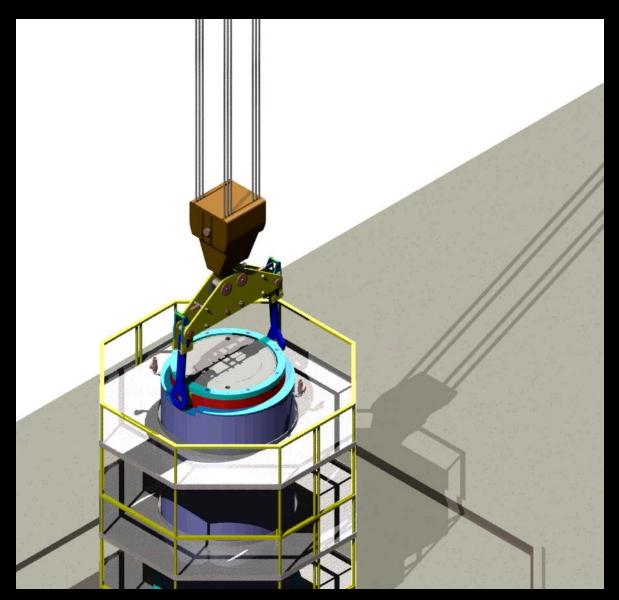
Reinstallation of the Lift Yoke



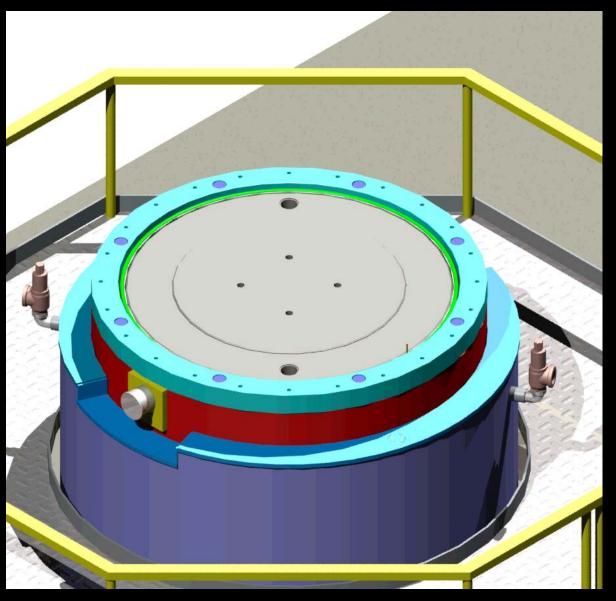
HI-TRAC Movement to the Cask Loading Area



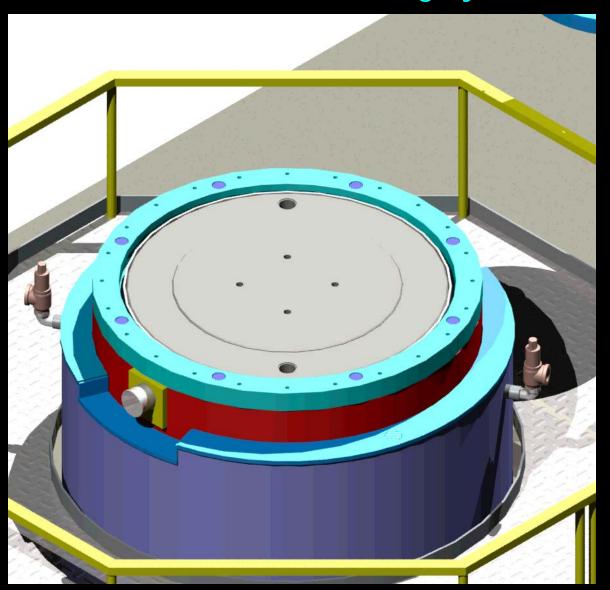
Lift Yoke Removal



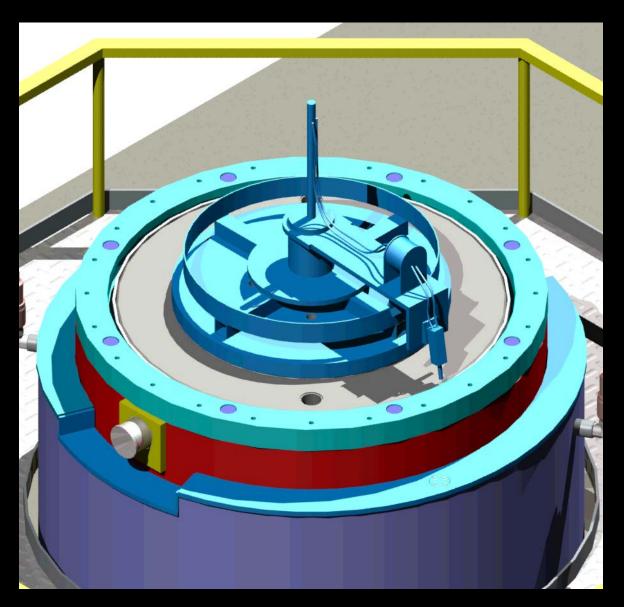
Annulus Seal Removal



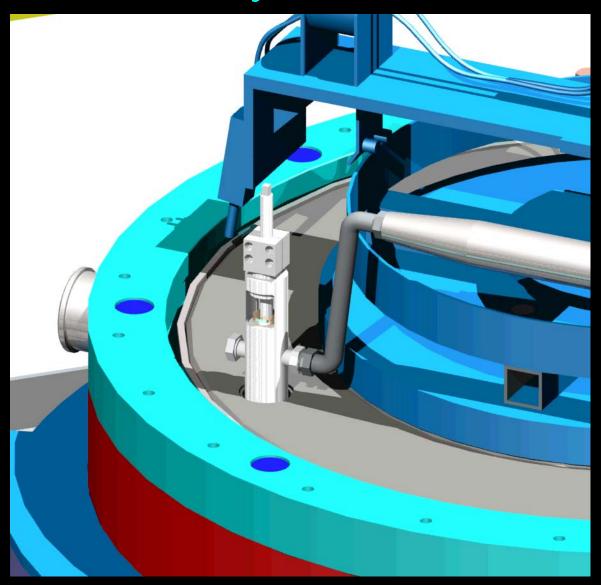
Install Automated Welding System



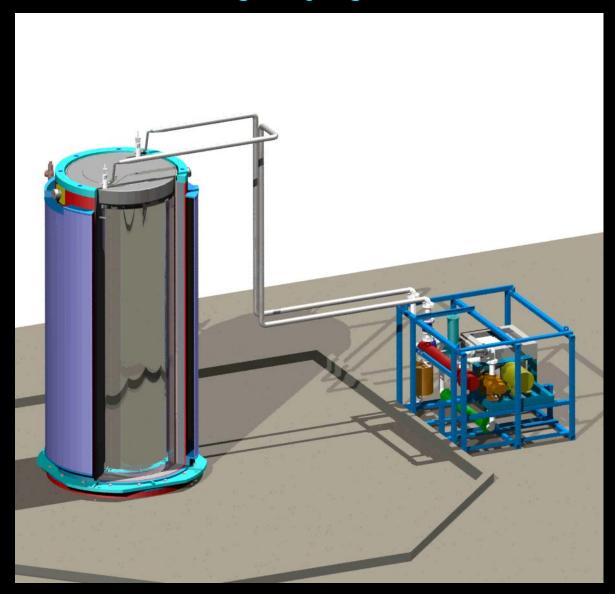
Weld the MPC Lid



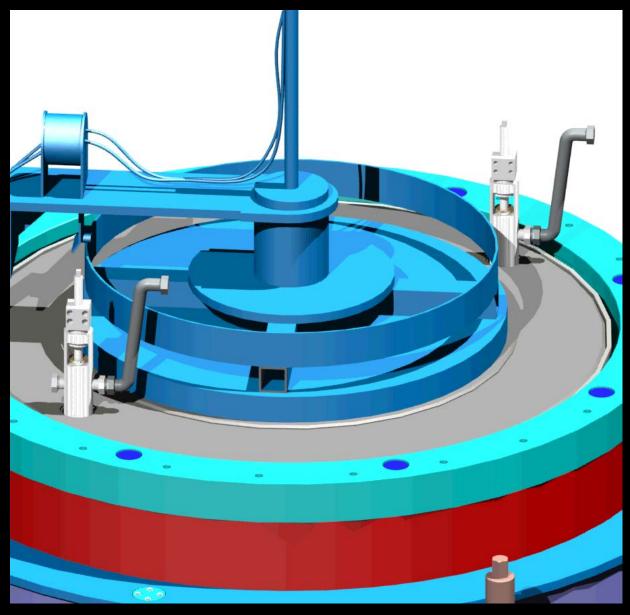
Force Helium Dehydrator Attached to the MPC



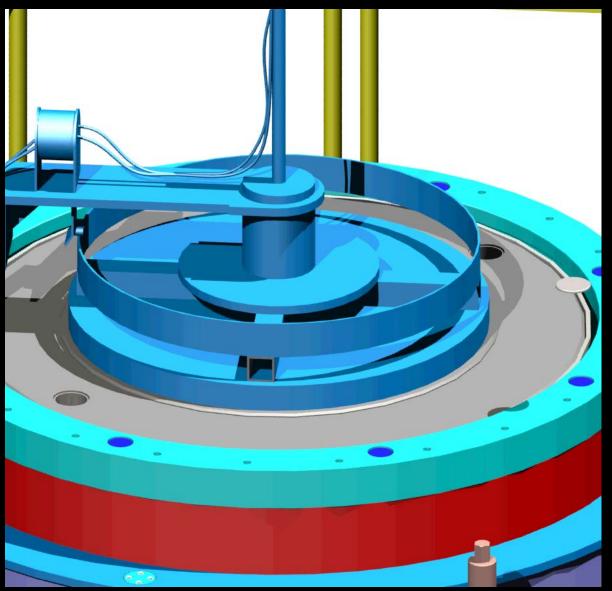
MPC Draining, Drying and Backfill



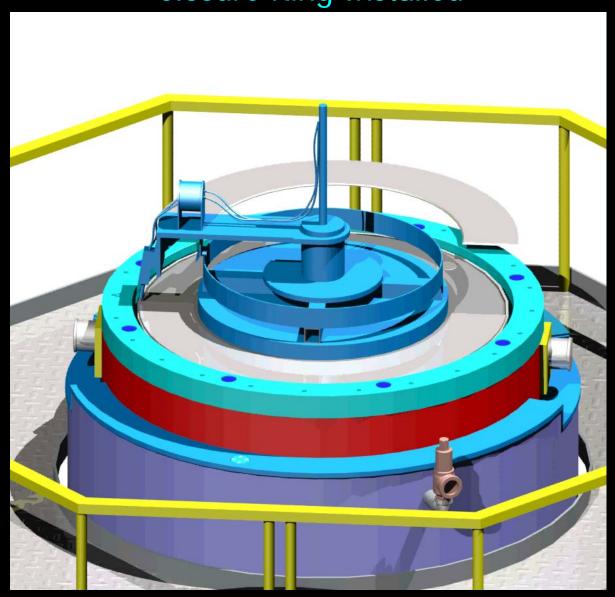
RVOAs Removed



Vent And Drain Port Covers Installed



Closure Ring Installed



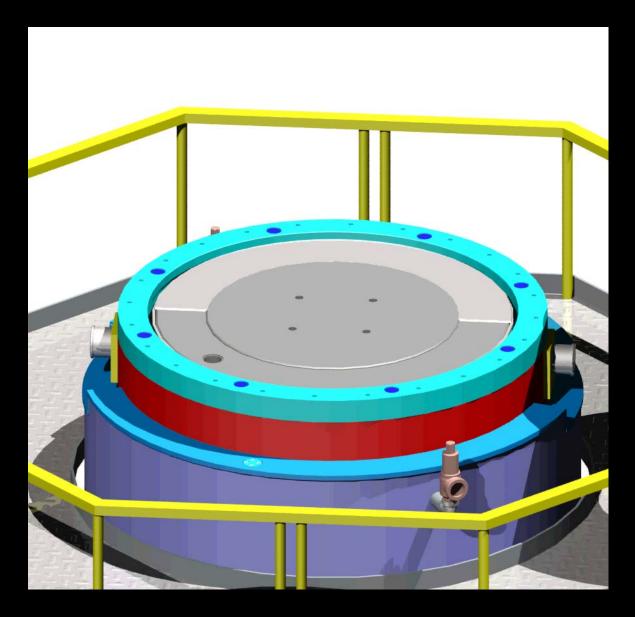
Closure Ring Welding



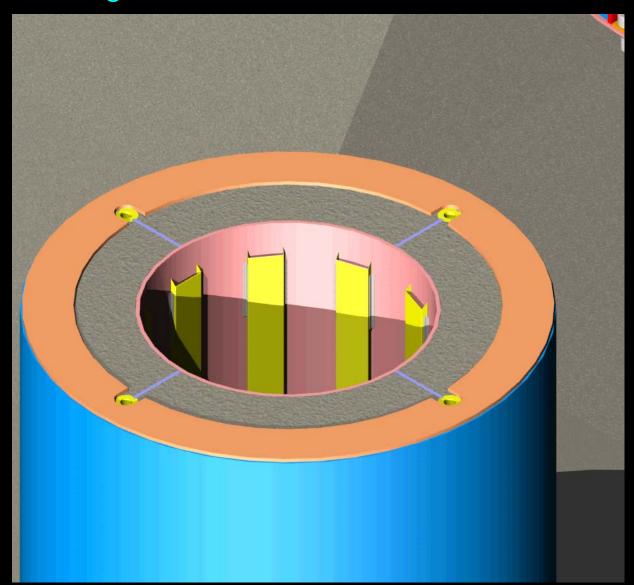
Automated Welding System Removal



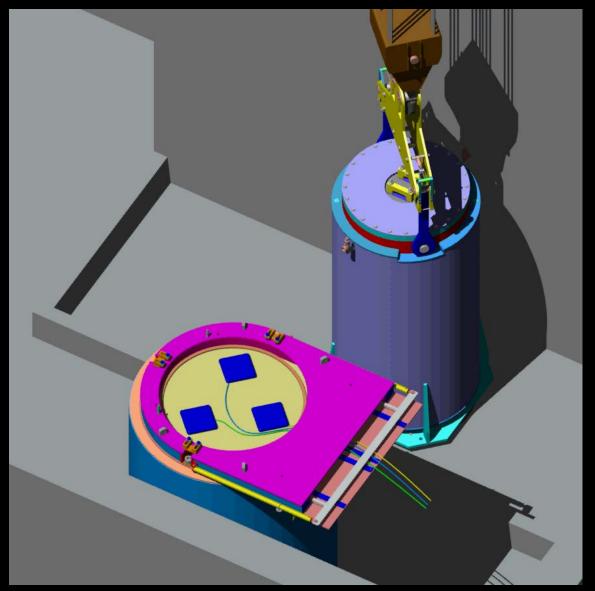
HI-TRAC Lid and Lift Cleat Installation



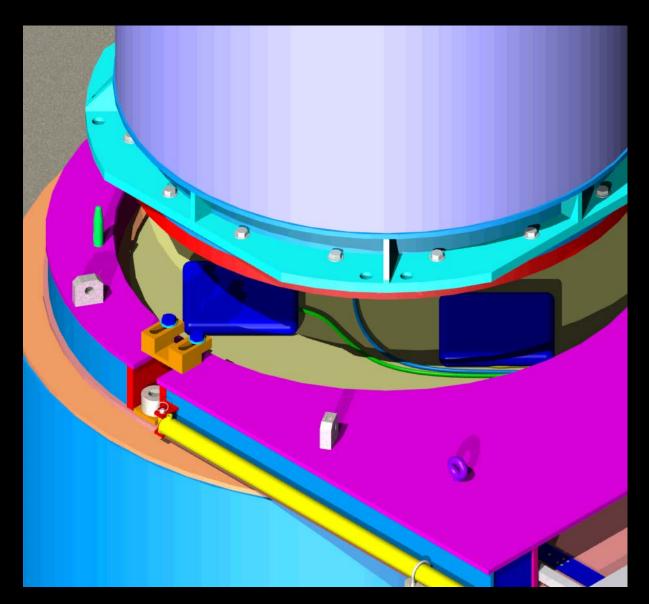
Mating Device Installation on HI-STORM



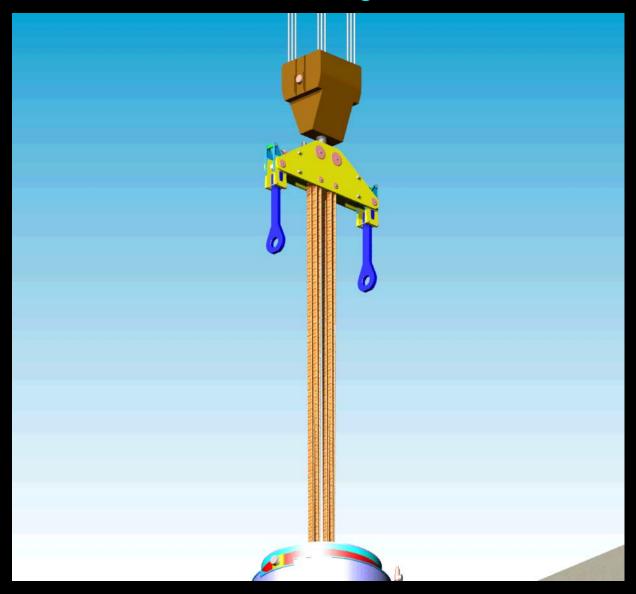
HI-TRAC Moved to the Transfer Location



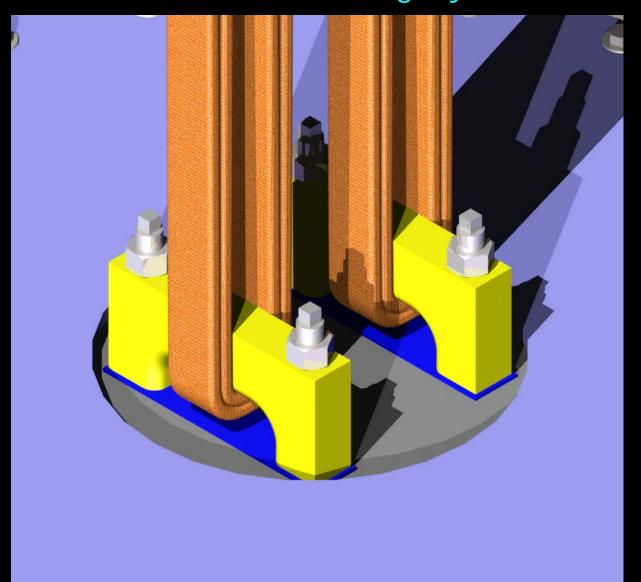
HI-TRAC Mated with HI-STORM



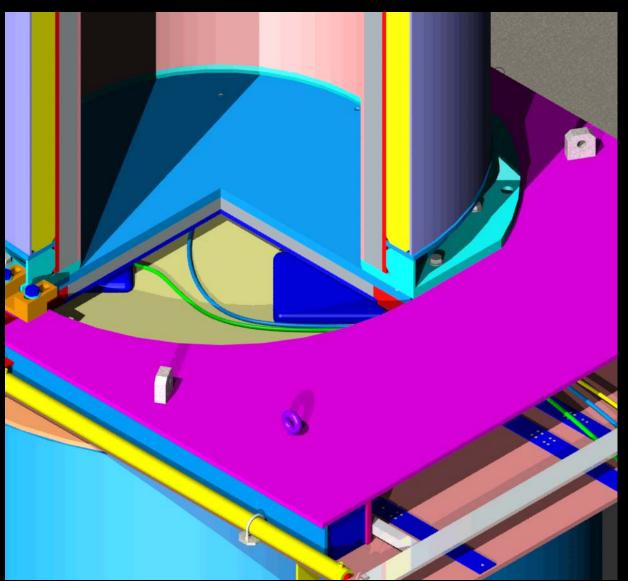
Downloader Slings Tensioned



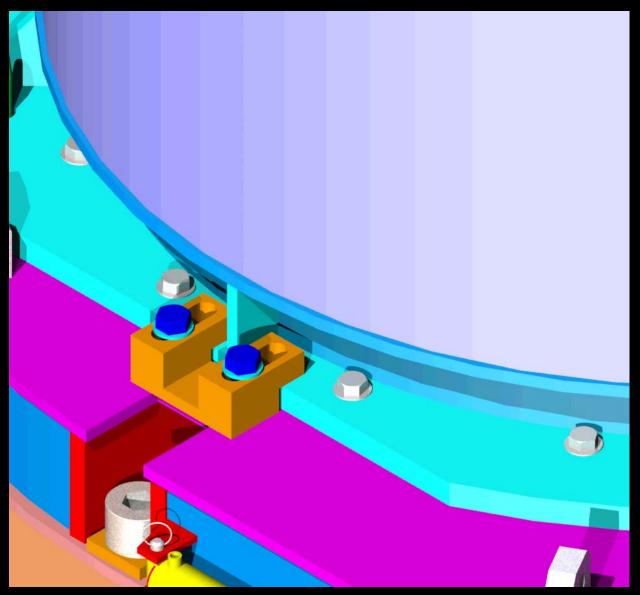
MPC Raised Slightly



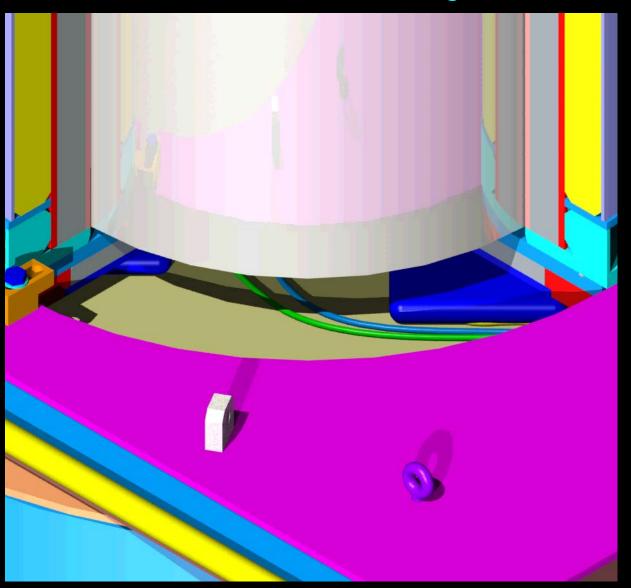
Lift Bags Inflated



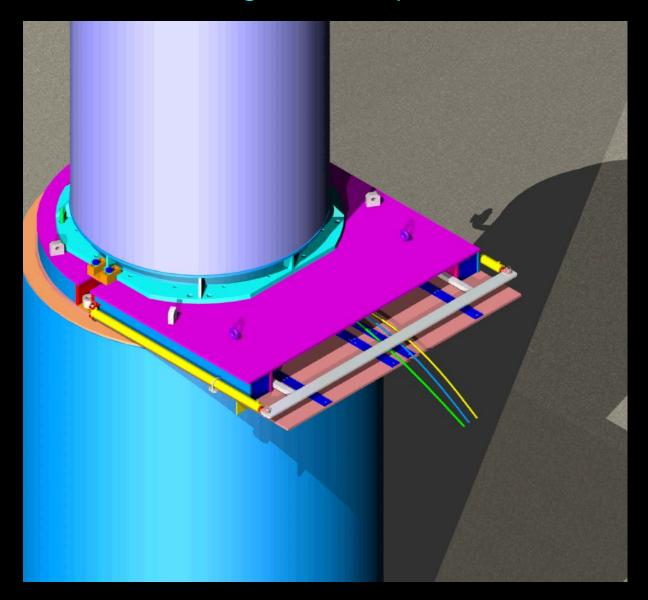
Pool Lid Bolt Removal



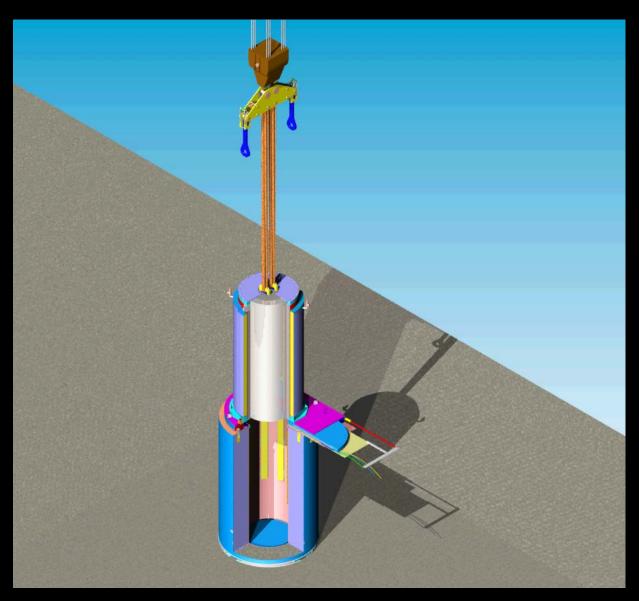
Pool Lid Lowering



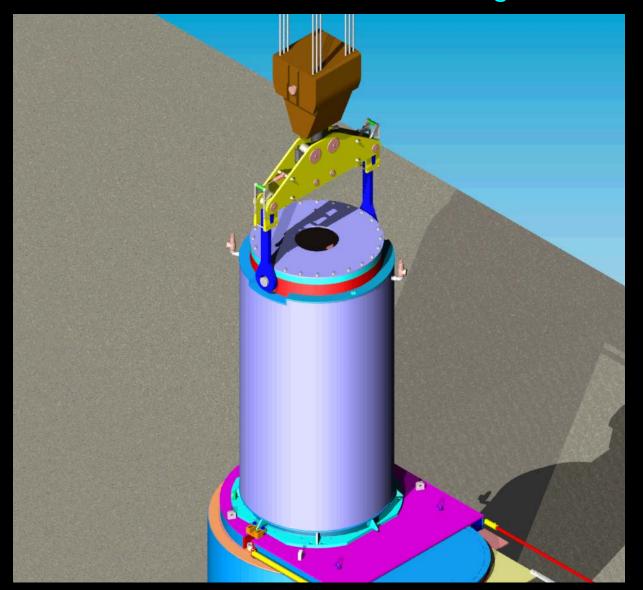
Mating Device Opened



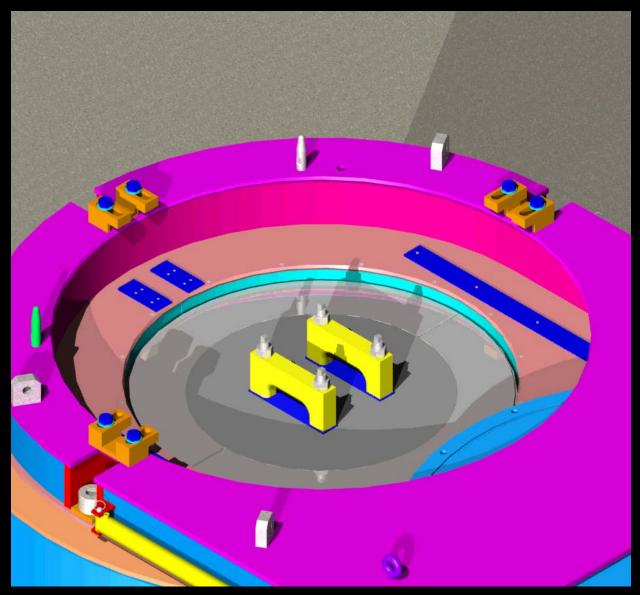
MPC Lowered Into HI-STORM



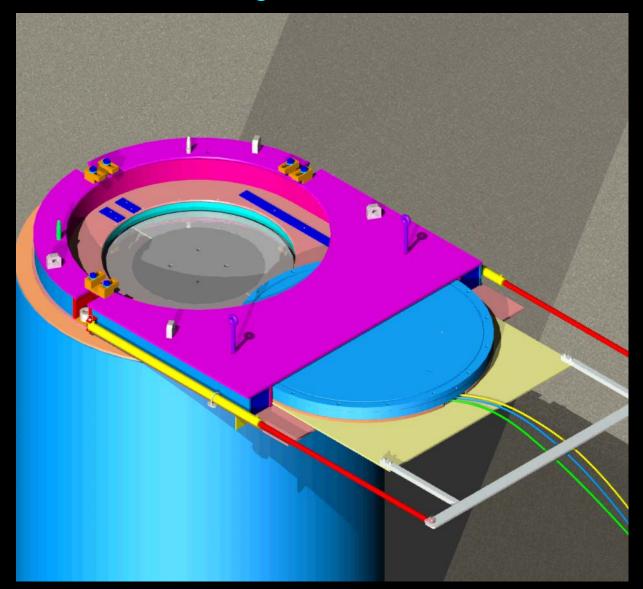
HI-TRAC Removal from the Mating Device



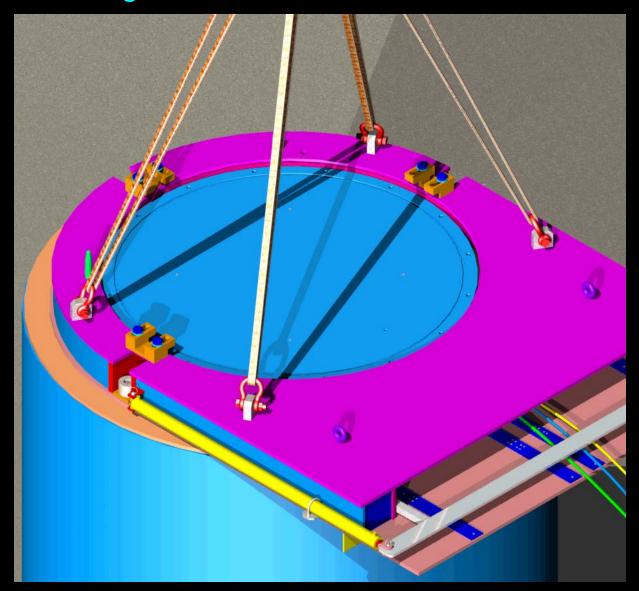
Lift Cleat Removal



Mating Device Closure



Mating Device Removal from HI-STORM



HI-STORM Moves To The ISFSI



HI-STORM Moves To The ISFSI



Questions