Presentation on Target Residue Material

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May 23, 2017
Purpose

- To Provide an overview of the Target Residue Material Handling in H-Canyon
- Intermodal Container (aka ISO* Container) with a Legal Weight Transport (LWT) Cask inside, being transported to H-Canyon

* ISO = International Organization for Standardization
• Straddle carrier being moved into position around the ISO container
• ISO container lifted from the transport trailer by the straddle carrier
• Preparing to pull the transport trailer away from the straddle carrier
• Straddle Carrier has placed the ISO container on a dolly
• Lid has been lifted by a forklift from the ISO container
• Preparing to move the lid to a temporary storage location
• Preparing to move the ISO container into the Canyon Truck-well
• Container has been wrapped to prevent contamination of the ISO container and cask
• Load mover* (tug) is moving the ISO container into the truck well

* Load Movers (tugs) are also used to move airplanes at airports
The cask impact limiter and cask plug have been removed.
The cask is in the upper part of the picture with the end of the cask barely visible.
The Container Retrieval System has been mounted to the cask and is preparing to pull a container into the pig (shown in horizontal position near the middle of the picture).
The gripper used to remove the container from the cask is in the lower left corner of the picture.
• Pig has been uprighted
• Preparing to lift the pig from the Container Retrieval System
• Note the remote reach tool being used by the operator in the lower right corner
• Pig is being moved to the Container Unloading Station
• Note the use of remote reach tools again
Empty container is being "swiped" to check for potential contamination
Preparing to insert an empty container into the shipping cask

* Swipes are counted using instruments that are able to detect contamination
- Empty container is being lowered into an unshielded “half pig”
- Next: half pig with container will be rotated horizontally
- Empty container is being pushed from the “half pig” into the shipping cask
- Final steps: cask will be prepared for shipment back to Canada with empty containers