



Returned HalfPACT Shipment from WIPP

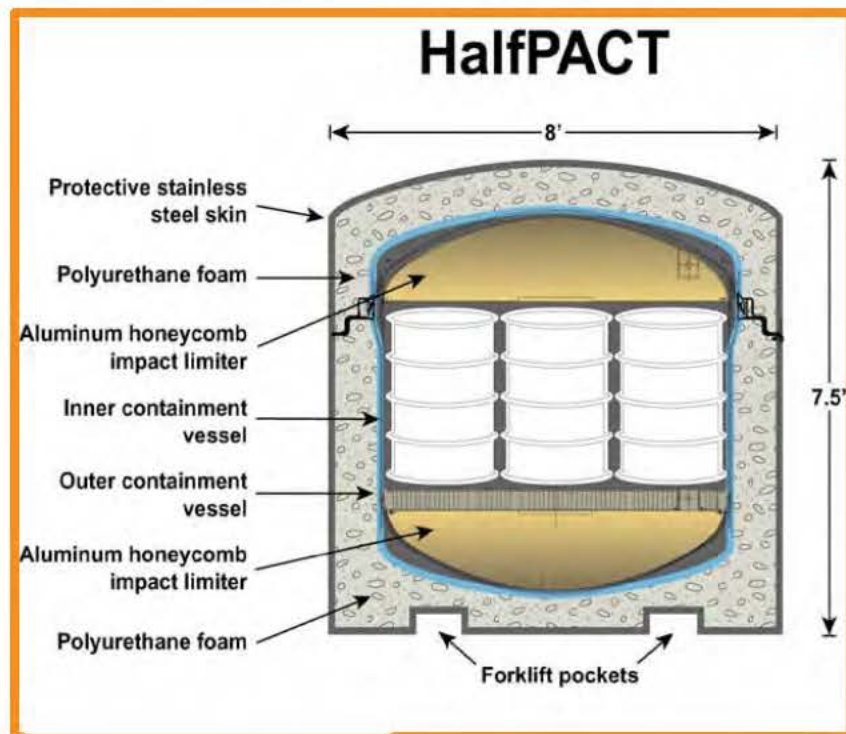
Kerri Crawford
SRNS Solid Waste Programs Manager

Savannah River Site Citizens Advisory Board, Full Board Meeting
September 26, 2023



SRNS-N1000-2023-00026

- Waste Isolation Pilot Plant (WIPP) receives transuranic (TRU) waste for disposal from Savannah River Site (SRS)
- WIPP detected small amount of contamination inside the HalfPact (HP) 506 Inner Containment Vessel (ICV)
- HP 506 ICV returned to SRS for unloading, evaluation, and decontamination
- HP 506 ICV to be returned to WIPP



- **HP 506 ICV**
 - Contains one (1) Standard Waste Box (SWB)
 - *SWB closed per Manufacturer's Instructions October 2012*
 - No contamination found at SRS
 - *Radiological surveys on SWB after closure, during storage & characterization, prior to loading*
 - *Radiological surveys inside ICV prior to loading*
 - *Additional radiological surveys of HP loading & closure equipment*



- **August 2022: HP 506 Shipped to WIPP**
- **September 2022: WIPP initiated receipt process**
 - Contamination found inside ICV
 - Additional samples confirmed contamination present
- **June 2023: WIPP received approval for return shipment**
 - HP 506 ICV inside HP 507 Outer Confinement Vessel
 - Nuclear Regulatory Commission (NRC) approval expires October 31, 2023
- **July 2023: SRS received empty HP for mockup**



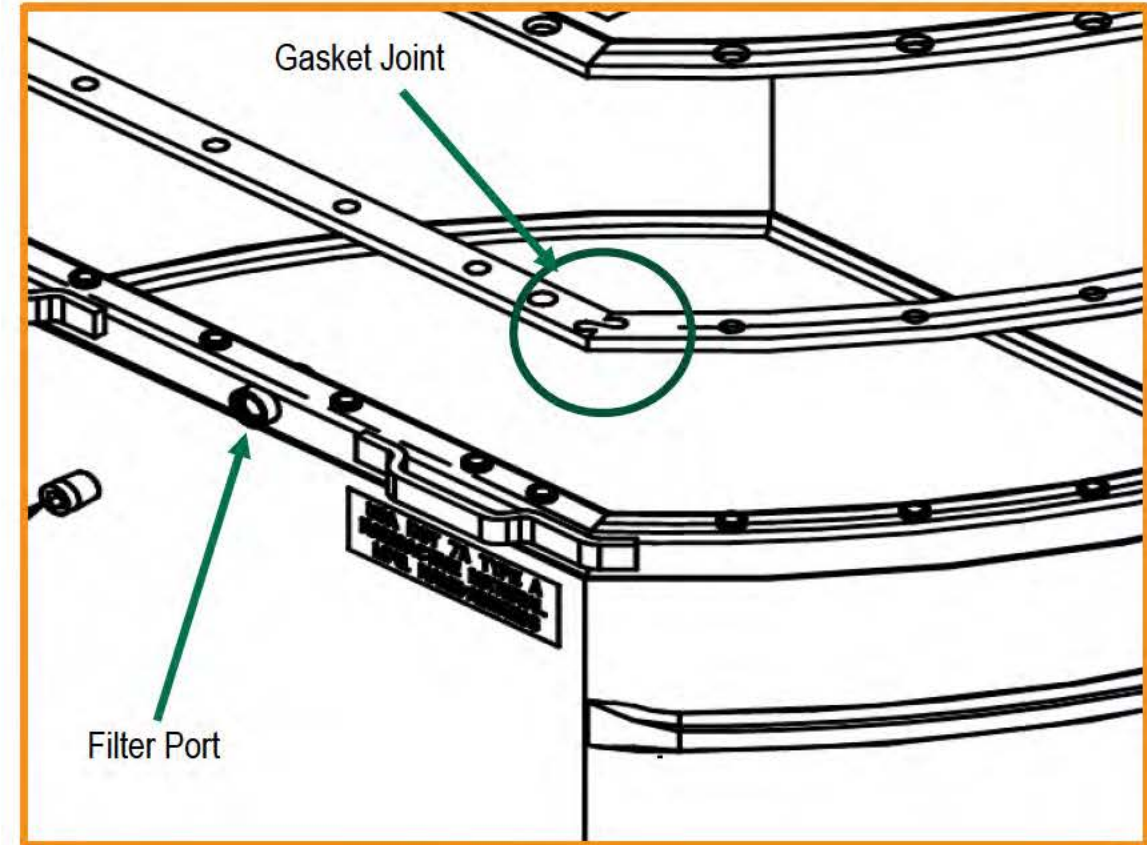
Radiological Assessment Filter
(RAF) used to check ICV

HP 506 Timeline (continued)

- **August 2023: SRS initiated mockups**
- **August 2023: WIPP shipped HP 506 ICV to SRS**
- **September – October 2023 (planned):**
 - SRS open, sample, and survey HP ICV
 - SRS remove, survey, and evaluate SWB
 - SRS decontaminate HP ICV
 - SRS return decontaminated HP ICV to WIPP



- **Waste Stream Paused (> 60 legacy containers)**
 - Shipments expected to resume after SWB evaluation and Department Of Energy – Carlsbad Field Office approval
- **Potential Contamination Pathways**
 - SWB lid gasket
 - SWB filter vents / plugs
- **Lessons Learned**
 - Share across Department of Energy Complex



- HP 506 ICV returned to SRS
- SRS to evaluate contamination pathways
- SRS to return decontaminated HP 506 ICV to WIPP



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