



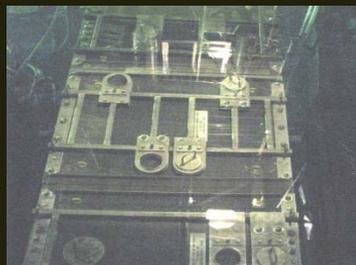
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*DOE-RL Update
K Basins
Sludge Treatment Project*

Roger Quintero
*Acting Federal Project Director
K Basin Closure Project*

June 11, 2013



K Basins Closure Project – May 2008



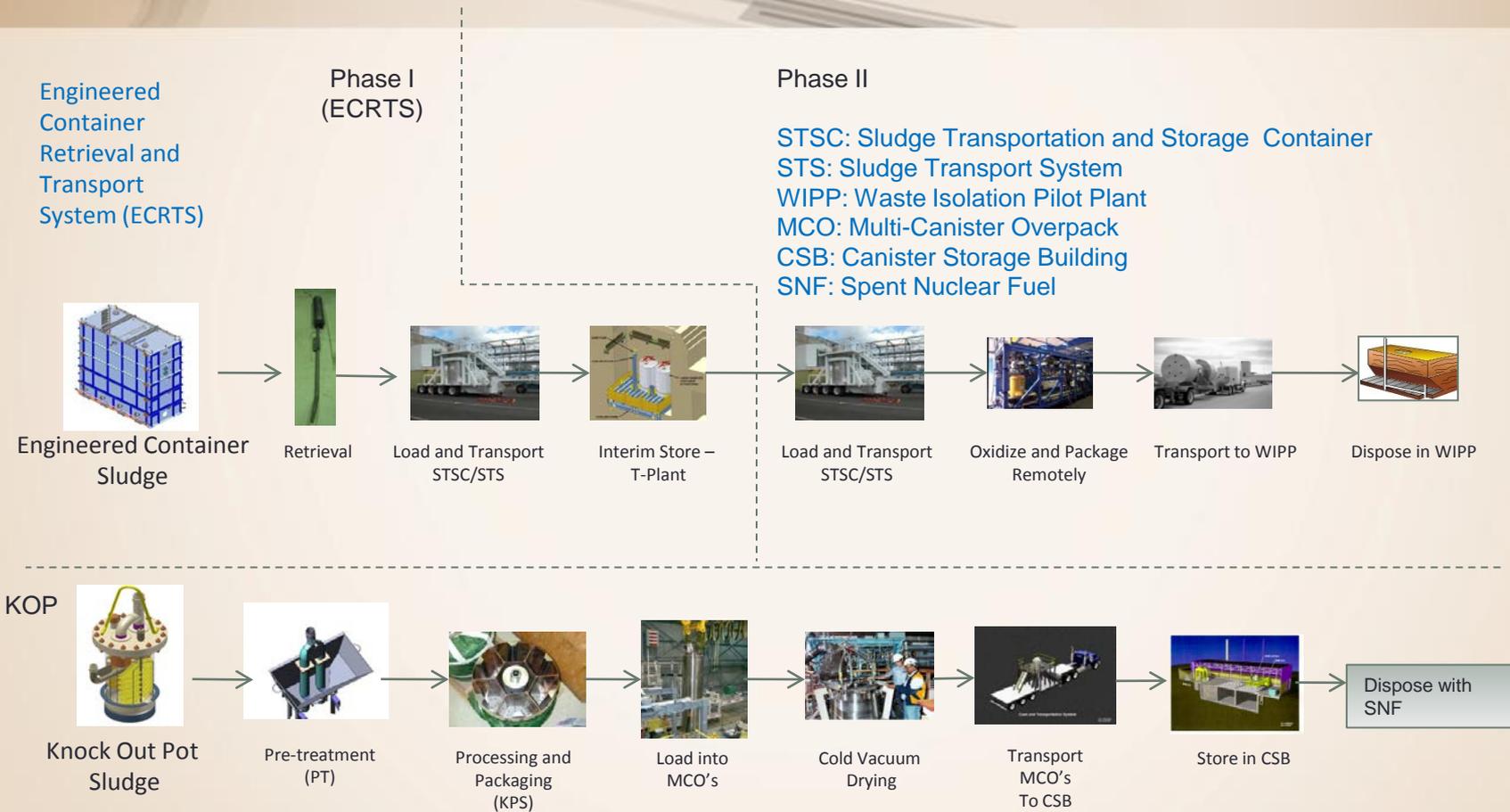
K Basins Closure Project – December 2012



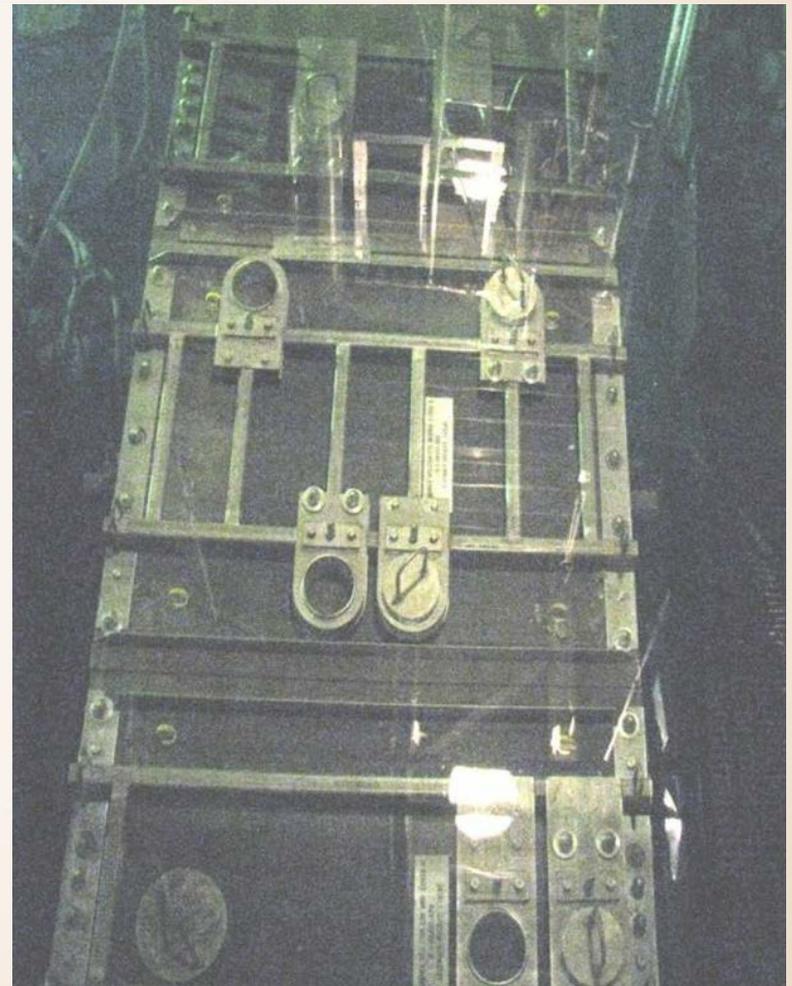
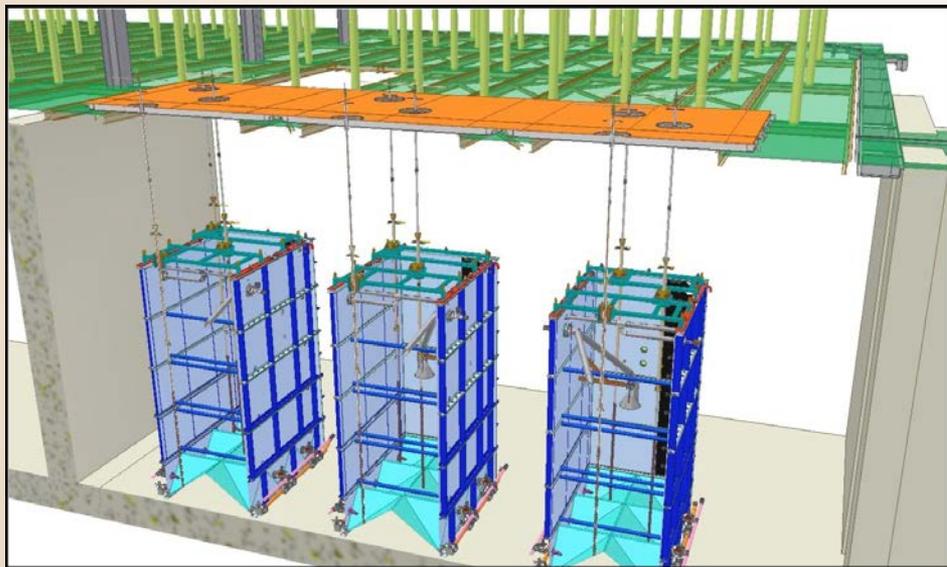
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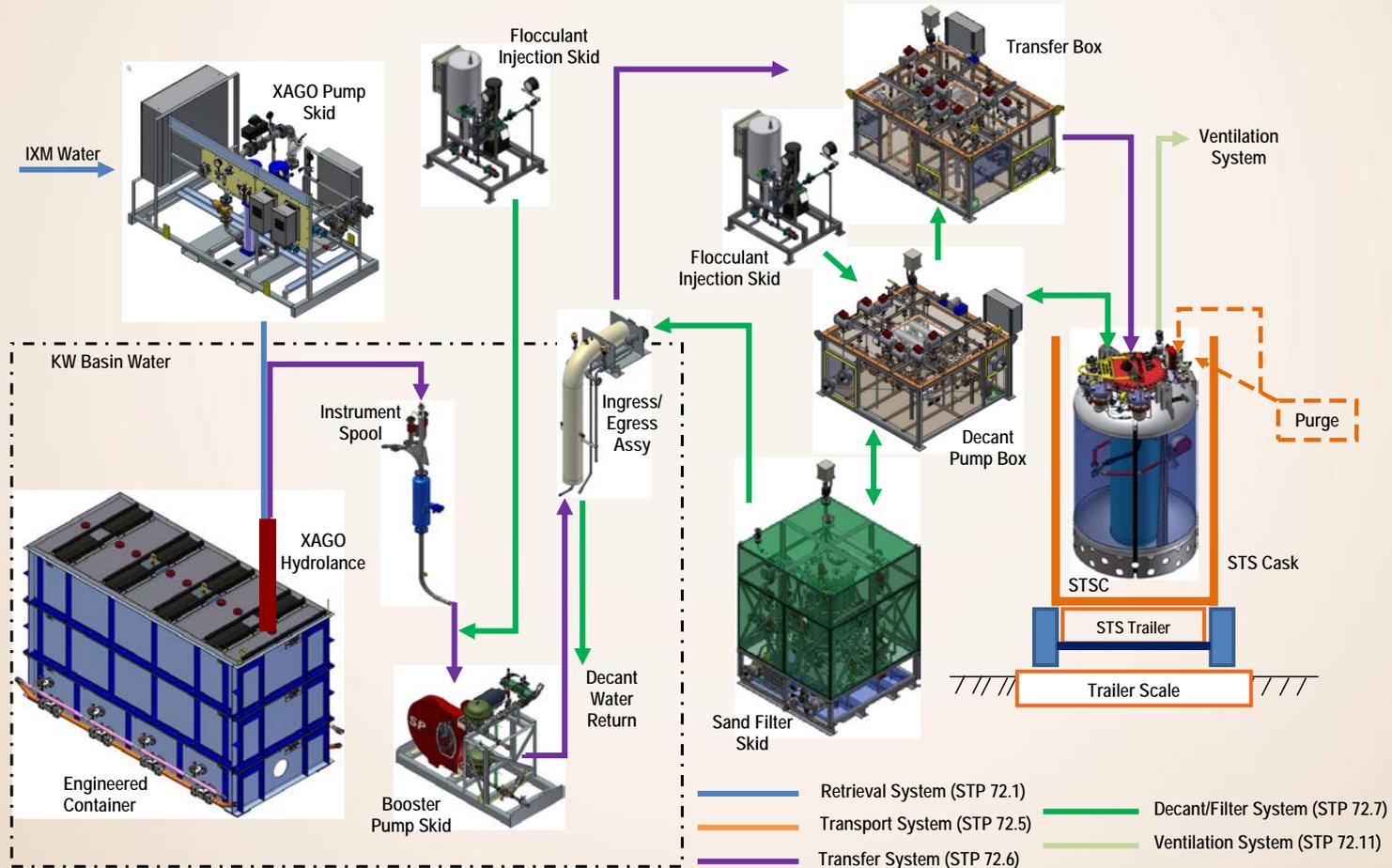
K Basins Sludge Treatment Project



K West Basin Sludge Engineered Containers



K Basins Sludge Removal Process (ECRTS) Simplified Process Flow Diagram



KW Basin Modified Annex

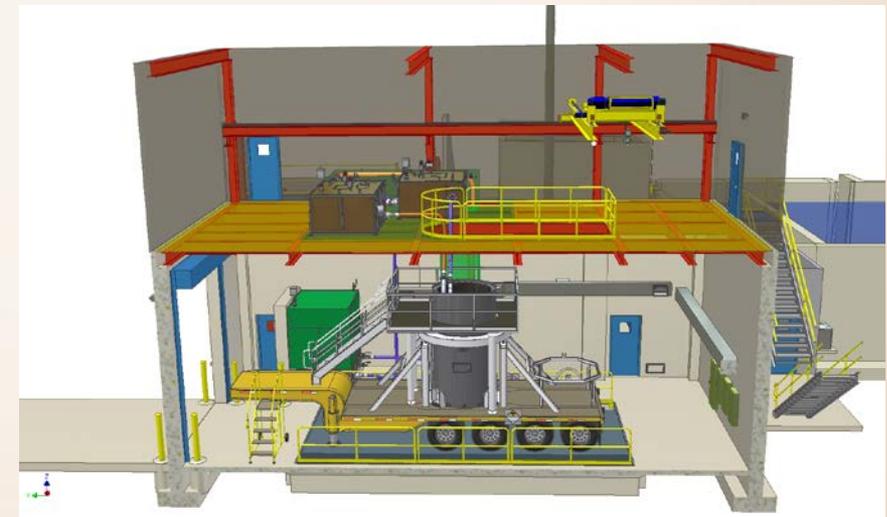
KW Basin



KW Basin w/ Annex (future)



KW Basin Modified Annex



Modified KW Basin Annex Construction

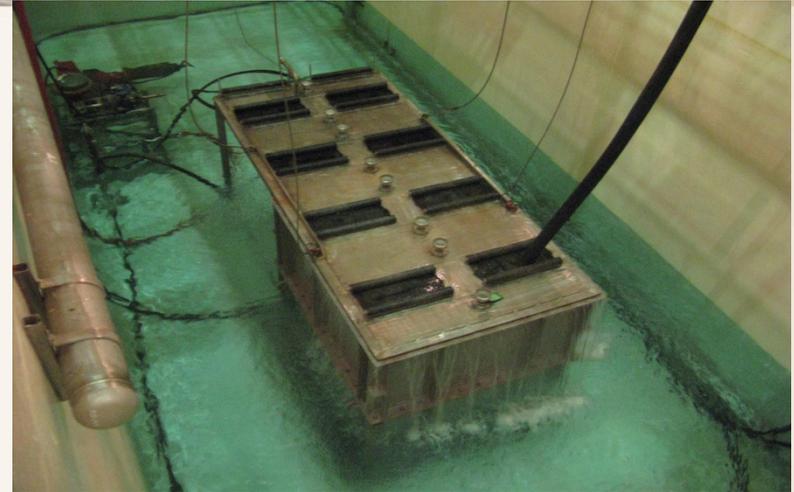
KW Basin Annex Truck Scale Slab



Dismantlement of wall forms

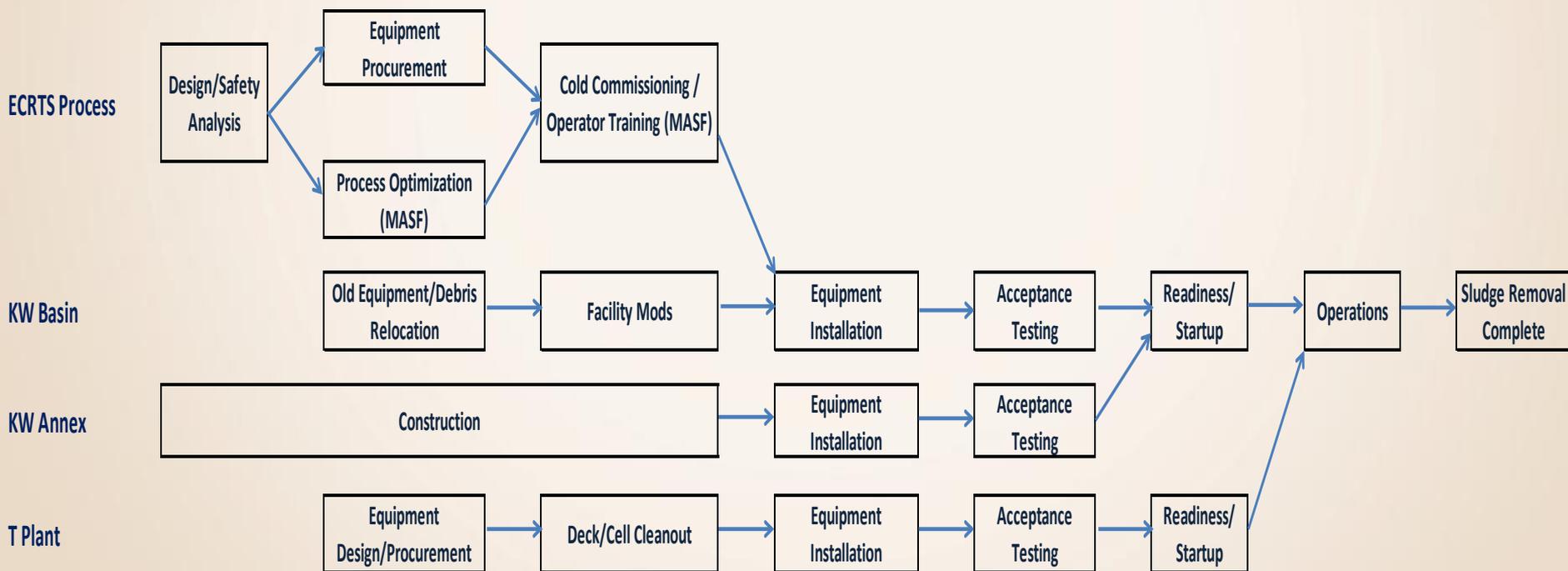


ECRTS Test Facility and Mockup (400 Area Maintenance and Storage Facility, MASF)



K Basins Sludge Removal (ECRTS) Summary Plan

K Basins Sludge Removal Project Summary Plan



K Basins Sludge Removal (ECRTS) Project Challenges and Efficiency Initiatives

- Challenges/Impacts:
 - FY13 funding reductions
 - Continuing Resolution – equipment procurement and T Plant mods
 - Sequester – suspended KW Annex construction
 - Annex construction issues
 - Stand down on quality related work
 - Number of design changes
 - Annex remobilization

K Basins Sludge Removal (ECRTS) Project Challenges and Efficiency Initiatives

- Efficiency Initiatives:
 - Annex Constructability Review
 - Identify lessons learned, corrective actions
 - Review structural design, minimize design changes after construction resumes
 - Process optimization at MASF
 - Baseline runs on full-scale process system
 - Confirm operability, safety interlocks
 - Operator training and procedure development
 - Cold commissioning

K Basins Sludge Removal (ECRTS) Project Challenges and Efficiency Initiatives

- Efficiency Initiatives:
 - Engineering and safety analysis
 - Sludge loading and blending in STSCs
 - reduce number of STSCs and operations time
 - Modify Engineered Container 230 in KW Basin
 - reduce equipment procurement costs and operational safety requirements

TPA Milestones – K Basins Sludge Removal

- M-016-174
Complete final design of sludge retrieval and transfer system. (9/30/13)
- M-16-175
Begin sludge removal from 105-KW Fuel Storage Basin. (9/30/14)
- M-16-176
Complete sludge removal from 105-KW Fuel Storage Basin. (12/31/15)

Bldg 142K - Cold Vacuum Drying Facility (CVDF)

- Last MCO processed through CVDF Sep 2012.
- Nuclear Facility downgrade completed Mar 2013.
- Fuel processing systems deactivated May 2013.
- “CVDF” no longer exists.



Questions?

Roger Quintero, DOE-RL
Acting Federal Project Director
K Basins Closure Project
509-373-0421
roger.quintero@rl.doe.gov