



U.S. DEPARTMENT OF
ENERGY

Savannah River Site



*A presentation to the
SRS Citizens Advisory Board*

Facilities Disposition and Site Remediation Committee

C-Area Operable Unit Removal Actions Status

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A M E R I C A N R E C O V E R Y A N D R E I N V E S T M E N T A C T



Purpose

- **Provide a status report to the Facilities Disposition and Site Remediation Committee in accordance with the Committee's Work Plan.**





Background



- **105-C Reactor produced special nuclear material from 1955 to 1985**
- **Completed characterization of soil, subsurface, concrete pads, and process sewers**
- **Constituents of concern identified are radionuclides**
- **The 105-C Reactor Building is being preserved for historical significance**





Removal Actions

- **Cask Car Railroad Tracks**
 - Radioactive contamination in soil
- **105-C Disassembly Basin Water Evaporation & Grouting**
 - Significant levels of radioactive contamination in basin water and sediment
- **C Process Sewer Line as Abandoned**
- **Significant levels of radioactive contamination in portions of the sewer lines**





Cask Car Railroad Tracks



- In May 2011 removed contaminated gravel/soil that exceeded 10pCi/g of Cesium 137
- Soil/gravel was removed to a depth of 2 feet, a total of 20yd³
- Railroad ties, track and gravel were restored to maintain the historical integrity of the area
- Project Mechanical Complete in June 2011





Cask Car Railroad Tracks Following Removal Action





105-C Disassembly Basin Water Evaporation & Grouting



- Installation of the evaporators has been completed.
- Grouting of the D&E Canal and Final Storage were completed in November 2011
- Operation of the evaporators is scheduled to start in January 2012 to evaporate 3 million gallons of water
- 15,000 yd³ of grout will be placed





105-C Disassembly Basin Water Evaporation & Grouting





C Process Sewer Lines as Abandoned



- Design has been completed and a contract awarded for the plugging of the sewer lines
- Grouting is scheduled to start in December 2011 with completion scheduled for April 2012.
- 1,950 cy³ of grout will be used at process tanks, manholes, boxes (access, diversion and junction) and other access points.





Cost

- **Cask Car Railroad Tracks: \$280,000**
- **C Disassembly Basin Water Evaporation & Grouting: \$28,700,000**
- **C Process Sewer Line as Abandoned: \$3,970,000**





Removal Actions Summary

- **Worked performed through CERCLA Non-time Critical Removal Actions in C-Area and funded by the Recovery Act**
- **One of the three Removal Actions has been completed and the other two will be completed in FY12**





Schedule

- **Complete Disassembly Basin water evaporation: June 2012**
- **Complete Disassembly Basin grouting: August 2012**
- **Complete sewer line plugging: April 2012**
- **Submit Rev. 0 Removal Action Reports to regulators: FY13**

