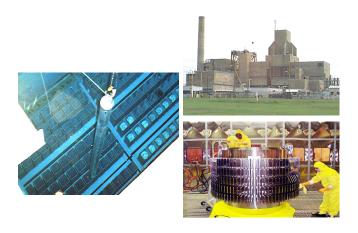


A Presentation to the Citizens Advisory Board Nuclear Materials Committee



Nuclear Material Disposition Accomplishments



Allen Gunter, Nuclear Material Stabilization Program Savannah River Operations Office

Acronyms

DE – Destructive Examinations

DOE – Department of Energy

DRR – Domestic Research Reactor

DWPF – Defense Waste Processing Facility

FRR – Foreign Research Reactor

HEU – Highly Enriched Uranium (>20% U-235)

HLW - High Level Waste

Kgs - Kilograms

LEU – Low Enriched Uranium (<20% U-235)

MT – Metric Ton

NDE – Non-Destructive Examinations

NOI – Notice of Intent

Pu – Plutonium

AROD – Amended Record of Decision

SEIS – Supplemental Environmental Impact Statement

SNF – Spent Nuclear Fuel

SRNS – Savannah River Nuclear Solutions

SRS - Savannah River Site

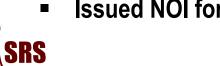
TVA – Tennessee Valley Authority





Plutonium Disposition in HB-Line

- Completed 33 of 34 NDEs and 16 of 18 DEs (Plan to complete all by 9/30/10)
- Plan to disposition a total of approximately 400 kgs Pu thru 2012
- H Area has dissolved over 65 kgs of 3013 Surveillance Material in FY2010
- Pu solution will be sent to DWPF for inclusion in HLW glass
- Issued NOI for Pu Disposition SEIS







Unirradiated HEU Disposition in H-Canyon

- Completing the dissolution of the 5.6 MT unirradiated HEU from offsite by mid-September 2010 (~600 kgs in FY 2010)
- Shipped ~ 18 MT LEU (20 trailers) to TVA and plan to ship an additional ~ 3 MT (4 trailers) by end of September 2010
- Plan to begin SNF processing in H Canyon in September 2010 after approval of the Amended ROD









Spent Nuclear Fuel

- Completing preparations to support shipping of SNF to H Canyon
- Received SNF from Chile as part of the non-proliferation program, the first "non U.S. Orgin material"
- Received 13 casks of FRR SNF
- Received 14 casks of DRR SNF









2009/2010 Infrastructure Upgrades

- H-Canyon/HB-Line
 - HB-Line Replacement Dissolvers
 - Refurbishing Canyon Pier Supports
 - Replacement Evaporators
- K-Area
 - Replaced Roofs
 - Resurfaced Parking Lot
- L-Area
 - Cask Car (70 ton) Refurbishment









H-Canyon Documented Safety Analysis (DSA)

- Upgraded DSA has been approved by DOE
- Being implemented by SRNS to support SNF processing beginning September 2010
- Allows closure of CAB Recommendation # 259



Summary

- Demonstrated Safe Storage and Disposition of Pu and HEU Materials
- Plan to initiate processing SNF by end of fiscal year upon approval of the AROD
- Support of Non-Proliferation program by continued receipt of HEU SNF.



