Savannah River Recovery Act Program

Office of Environmental Management Savannah River Operations Office Savannah River Site Aiken, South Carolina



Savannah River Site Citizens Advisory Board Meeting

Update on Savannah River Recovery Act Program

September 27, 2010

Presented by Zack Smith, Director Savannah River Recovery Act Program

Presentation Overview



Project Performance

> TRU

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- P & R Reactor
- M & D Area
- P & R Ash Basin
- Foot Print Reduction



105-R Decommissioning Removing HEPA Filters

Project Performance- TRU



	June 2010	July 2010
CPI	0.73	1.00
SPI	0.78	1.00

- Scope of Work:
 - Disposition 5,000 cubic meters legacy waste Dec. 2012
- Challenges:

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- Project baseline developed using historical SRS experience in limited operational experience in repacking large boxed waste
- Key Areas that were under estimated:
 - Contaminated water in container and drum integrity issues
 - Worker protection controls for opening and resizing/ repackaging high Plutonium Equivalent Curie (PEC)
 waste
 - Significantly higher Pu-238 concentrations requiring additional controls, more 85 gallon overpacks
 - Facility modifications to address fire egress life safety code
 - Extensive training for newly hired ARRA works
 - Increased scope of dispositioning 5,000 cubic meters of TRU waste by the end of 2012

Achievements & Path Forward:

- Project changes recognized & incorporated
- Resumed WIPP Shipments on August 19th
- Repackaged 22 of 25 large steel boxes in H-Canyon (currently 2 months ahead)
- Awarded TRUPACT-III fabrication in September

TRU Accomplishments



TRU Legacy Waste Program



TRU Accomplishments





Project Performance- P & R Reactor



	June 2010	July
R- Reactor- CPI	1.38	.94
R- Reactor- SPI	0.60	1.02
P- Reactor- CPI	2.38	.91
P- Reactor- SPI	0.69	1.30

Scope of Work:

- Grout reactor building below grade, vessel, disassembly basin
- Modify selected roofs for drainage
- Remove stack to +55 foot-level
- Seal reactor building exterior

Challenges:

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- Started late
- Grout Supply Subcontract impacted by Davis Bacon determination
- Davis Bacon determination delayed awards of major procurements and construction start
- Cost saving resulting from competitive bid

Achievements and Path Forward-P & R Reactor



P Reactor

- 60,000 out of the 100,000 cubic yards of grout placed in reactor
- Evaporated 3.5 of 4.2 mgals disassembly basin water
- Initiated roof modification preparations



Grouting and Roof Modifications

R Reactor

- Completed moderator draining -40 level
- Mobilized in the -40 level to start grouting
- Completed 94% grouting in the disassembly basin
- Removed HEPA Filter



Grouting basin was stopped about 18 inches below floor level to allow removal of handrails. Photo shows basin with handrails removed

Project Performance- M & D Area



	June 2010	July 2010
CPI	.88	.89
SPI	1.02	1.03

- Scope of Work:
 - M Area:
 - 45 acres in size; includes former reactor fuel manufacturing area
 - Contaminated with volatile organic compounds
 - Construct 2 Passive Soil Vapor Extraction
 - D Area:
 - 210 acres; location former heavy water production facilities
 - Contaminate with volatile organic compounds
 - Remove PCB coatings from 420-D (Pump House) slab
 - Remediate tritium-contaminated soils and concrete
 - Remediate portion of D Ash Basin

Challenges:

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- D Area Moderator Facility:
 - Treatability study data led to need for larger sized detritation cells
 - Increased depth of PCB contamination at 420-D slab required additional time and labor
- D Area Bubble Tower:
 - Required remediation of larger area, requiring installation of more remediation wells
 - Bid procurement higher than estimated cost

Achievements and Path Forward-M & D Area

M Area

Completed August 2010

D Area

Completed installation of 11 enhanced passive soil vapor extraction wells

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Savannah River Site

- Completed Thermal Detritiation Treatability Study
- Two campaigns performed under Treatability Study successfully remediated 165 cubic yards of tritiated concrete and soil
- Started construction of three additional Thermal Detritiation Units
 - Units will be used along with unit used in Treatability Study to remediate remaining inventory of tritiated concrete and soil



Project Performance-P and R Ash Basin



	June 2010	July 2010
R- Ash Basin- CPI	1.38	.94
R- Ash Basin- SPI	0.60	1.02
P- Ash Basin- CPI	2.38	.91
P- Ash Basin- SPI	0.69	1.30

P Ash Basin-

- Scope of Work:
 - 40 acres in size; received ash sluice water from P Powerhouse operations (1953-1991)
 - Consolidate ash into basin; install 2foot thick non-structural soil cover over consolidated ash and soil
- Challenges (All past, none current):
 - Late start
 - Additional 5 acres of ash found outside footprint
 - Soil Stockpiling equipment costs greater than planned

R Ash Basin-

Scope of Work:

- 14 acres in size; received ash sluice water from R Powerhouse operations (1953-1964)
- Consolidate ash into basin; install 2foot thick non-structural soil cover over consolidated ash and soil
- Construction is underway
- Challenges (All past, none current):
 - Late start
 - Unplanned Roadway
 - Soil Stockpiling equipment costs greater than planned

Achievements and Path Forward-P & R Ash Basin



- **Achievements:** **
 - Completed vegetation removal P
 - Project performance is strong A
 - Expected to complete on schedule and below cost estimates 2



R Ash Basin 8/20/2010





Footprint Reduction



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Footprint Reduction



Planned Date	Actual Date	Area	Waste Units / Facilities	Square Miles	Square Miles Completed
Jan-10	Jan-10	P Area	P-AREA REACTOR AREA CASK CAR RR TRACKS, NBN	3.9	3.9
Jan-10	Jan-10	P Area	ECODS P-2 (South of P-Area) (Issue ROD)	3.9	3.9
Jan-10	Jan-10	R Area	R-AREA REACTOR AREA CASK CAR RR TRACKS, NBN	1.8	1.8
Jan-10	Jan-10	R Area	ECODS R-1A, -1B, -1C (EAST OF R REACTOR) (Issue ROD)	1.8	1.8
Jul-10	Jul-10	B Area	Complete D&D of 710-B SRTC Hazard Waste Storage Facility	7.0	7.0
	Jul-10	R Area	GUNSITE 012 RUBBLE PILE, NBN	1.8	1.8
	Jul-10	R Area	RUBBLE PILE ACROSS FROM GUNSITE 012, NBN	1.8	1.8
	Jul-10	R Area	ECODS G-3 (ADJACENT TO GUNSITE 012), NBN	1.8	1.8
	Aug-10	M Area	POTENTIAL RELEASE OF HEAVY METALS FROM 321-M SL	9.9	9.9
1203151	Aug-10	M Area	SALVAGE YARD, 741-A	9.9	9.9
	Aug-10	M Area	UNDERGROUND SUMP 321 M #001 321-M	9.9	9.9
	Aug-10	M Area	UNDERGROUND SUMP 321 M #002 321-M	9.9	9.9
	Jul-10	P Area	POTENTIAL RELEASE FROM P-AREA DISASSEMBLY BASIN, 105-P (Issue ROD)	3.9	3.9
	Jul-10	P Area	POTENTIAL RELEASE FROM P-AREA RX COOLING WATER, 186/190-P (Issue ROD)	3.9	3.9
Jun-11	Jul-10	P Area	SPILL ON 3/15/79 OF 500 GALS OF CONTAM WATER, NBN	3.9	3.9
Sep-10		R Area	R-AREA GROUNDWATER, NBN	1.8	1. A DESIGN
Total Sq 1	Miles				75.1
	Completed				

Completed schedule Schedule

SRS Footprint Reduction





Summary



- Major progress achieved under ARRA
 - 912 cubic meters of TRU shipped to date
 - 1980 cubic meters of TRU processed to date
 - > 75.1 miles Footprint Reduction achieved
- Aggressive / Manageable plans for continued progress



TRU Waste Shipment leaving E Area to WIPP

Focused

15

- TRU Disposition
- Footprint Reduction