

Presentation to the SRS Citizens Advisory Board

Environmental Management Cleanup Program Integrated Lifecycle Estimate Update

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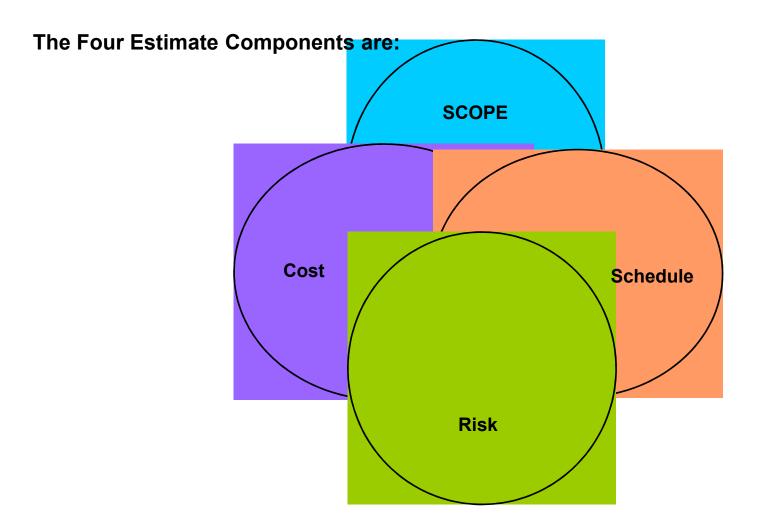
SRS Lifecycle Update

Purpose:

- Satisfy Strategic & Legacy Management Committee Request for Annual Update of the Lifecycle Estimate
- Define What is the Environmental Management Lifecycle Estimate
- Provide Rationale for the Lifecycle Estimate
- Describe Considerations used in Development of the Lifecycle Estimate
- Share the Results and Impacts of the Lifecycle Update
- Describe the Lifecycle Update Process

Components of the Lifecycle Estimate

The Lifecycle Estimate is an Integrated Plan Describing the Remaining Cleanup Programs at SRS



LIFECYCLE CLEANUP PROGRAM BY FUNCTIONAL AREA

FUNCTIONAL AREAS BY CLEANUP PROGRAM BASELINE SUMMARY (PBS)

- 1. Nuclear Materials
 - PBS 11C Nuclear Materials Stabilization and Disposition
 - PBS 12 Nuclear Spent Fuel Stabilization and Disposition
- 2. Waste Disposition
 - PBS 13 Solid Waste Stabilization and Disposition
 - PBS 14C Radioactive Liquid Waste Stabilization and Disposition

3. Area Completion

- PBS 30 Soil and Groundwater Remediation
- PBS 40 Nuclear Facility Decommission and Demolition

4. Site Support

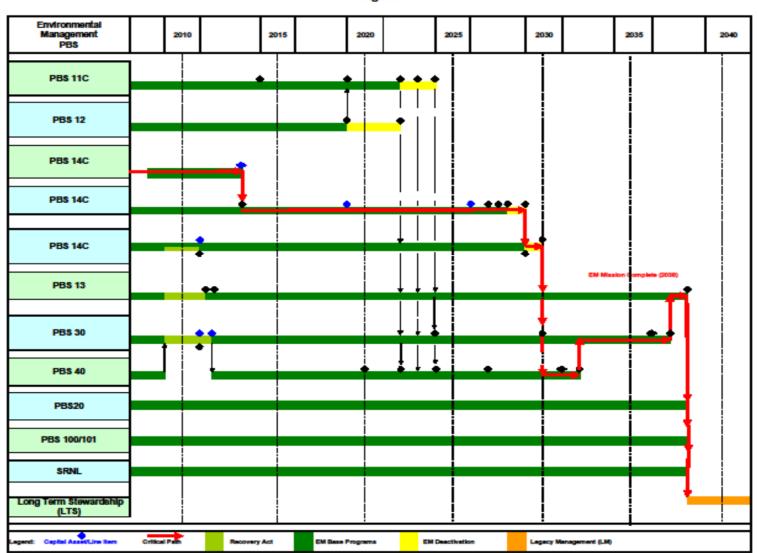
- PBS 20 Safeguards and Security
- PBS 100 Non-Closure Mission Support
- PBS 101 Community and Regulatory Support

SRS Lifecycle Estimate was Last Updated in 2008

Since Then

- Change in Site Contractor Two New Prime Contractors
- Three Years of Funding Impacts and Scope Deferrals
- Scope Accelerations
 - American Recovery and Reinvestment Act (ARRA) Scope
 - Liquid Waste Technology Enhancements
- Re-sequence and Integration between PBSs
- Change in Risk Methodology for Contingency funding calculations
- Combined PBSs
- Environmental Liability Finding

Integrated Lifecycle 2008 Version



SRS EM PROGRAM LIFECYCLE (FY2011 - FY2038) Original

Lifecycle Update Development Considerations

Drivers, Interdependencies and Other Logic Considerations

Primary Drivers

- DOE Head Quarters Identified Legacy Liquid Waste (LW) Disposition as one of the Department's Critical Mission
- New Technology Opportunities Accelerated LW Completion Schedule

Program Operations

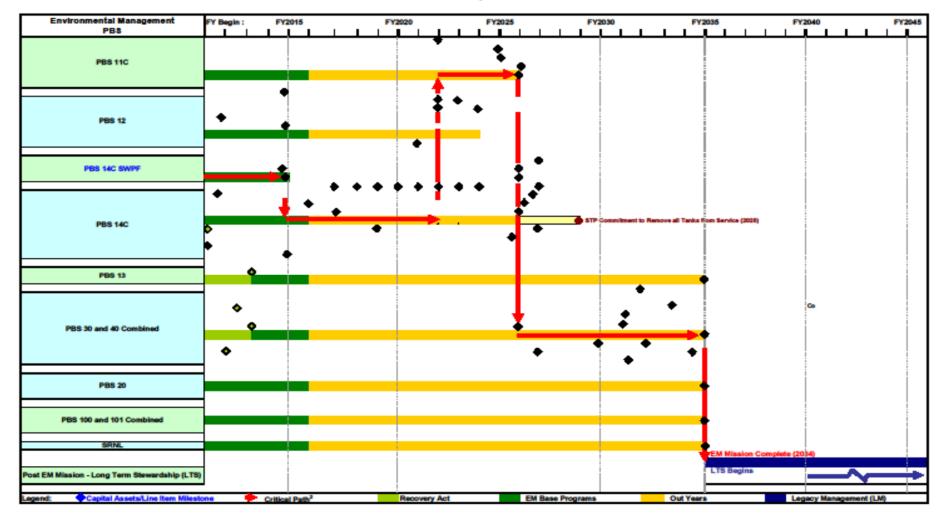
- LW operations is affected by Construction Completion of Salt Waste Processing Facility
- Nuclear Materials (NM) Operations is impacted with the end of LW Operations
- Area Completion scope Increases after Completion of LW and NM Operations
- Solid Waste E-Area Trench Disposal quantities affected by Area Completion Facility D&D and Remediation of Waste Sites

Other Support Functions

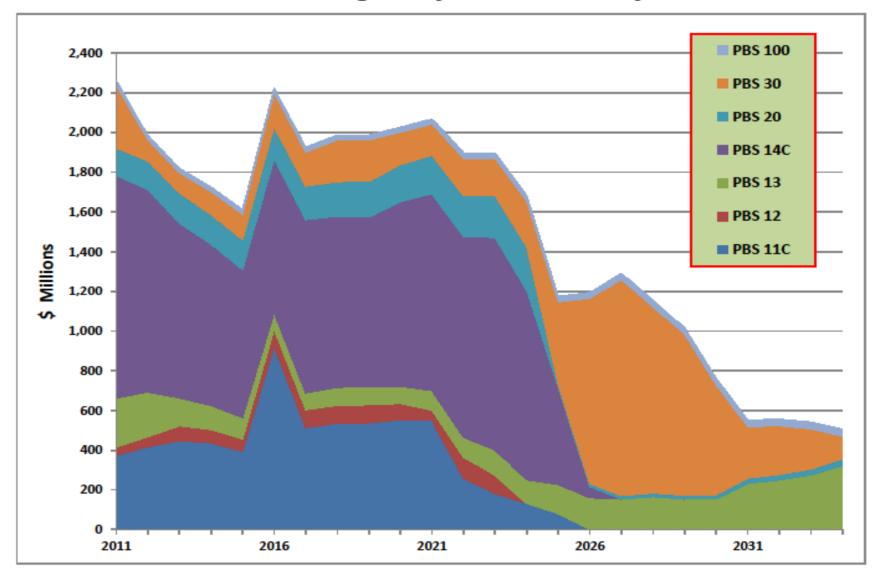
- Safeguards and Security Program is affected by Nuclear Materials K-Area Deinventory
- Community & Regulatory Support

Integrated Lifecycle FY2011 Update

SRS EM PROGRAM LIFECYCLE (FY2011 - FY2034) FY11 Update



Remaining Lifecycle Cost Profile by PBS



FY11 Remaining Lifecycle Total Cost by PBS

Impacts of the FY11 Lifecycle Estimate Update

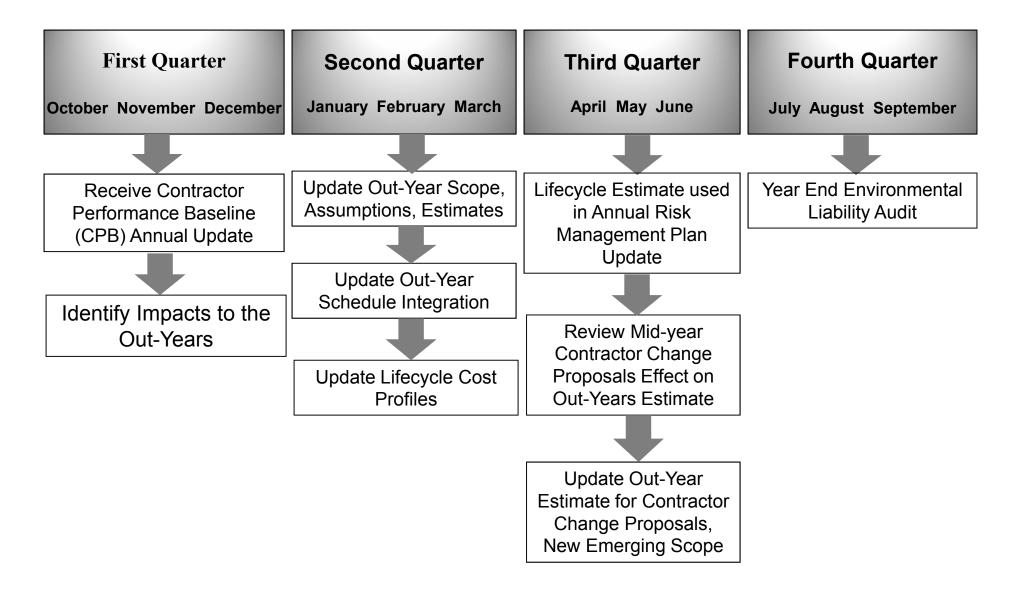
- Incorporates the site approved FY11-15 Contractor Performance Baseline, Liquid Waste System Plan 16, ARRA and the Salt Waste Processing Facility Line Item Project
- Accelerated EM Completion Schedule 4 years from FY2038 to FY2034
- ➢ Cost Increase of \$5.5B
- Lifecycle Estimate Range of \$54.5B to \$65.5B with 3 year Schedule Contingency

Primary Source of Cost Increase

- Increased Pension and Post Retirement Benefits
- Deferred Current Period Scope Not Picked Up in Out-Years
- Methodology Changes
- Increased Scope
- Increased Facilities for D&D
- Extended Safeguards & Security

Integrated Lifecycle Update Process

ANNUAL PROCESS FOR LIFECYCLE ESTIMATE UPDATES



<u>Summary</u>

- The FY11 Lifecycle Estimate Fully Describes the Remaining SRS Scope
- The Lifecycle Estimate Process Resulted in a High Confidence Estimate for the Remaining Lifecycle, Fully Describing Environmental Management(EM) scope at SRS
- The Lifecycle Estimate is a Key Component to the DOE-SR Federal Risk Management Plan Annual Update and the EM Environmental Liability Annual Review
- As a Result of the Strong Lifecycle Estimate Process, SRS Gained Confidence with the EM Liability Auditors Resulting in No Findings and Reduced Emphasis on SRS