



U.S. DEPARTMENT OF
ENERGY

2015 Hanford Lifecycle Scope, Schedule and Cost Report

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Background/History

- TPA milestone M-036-01 “Lifecycle Report”, negotiated as part of the 2010 Consent Decree/TPA Change Package
- Issued annually, 2015 LCR is fifth iteration
- 2011-2014 LCRs, Fact Sheets, Comments are posted on www.hanford.gov
- Synopsis of public/regulator comments received on prior reports:
 - Ecology very supportive of detail and annual frequency of report
 - EPA supports the report but has questioned timing (annual vs. biennial), supports deletion of alternatives analysis requirement
 - Oregon and HAB advice issued that commend the report, want additional “what if” analysis, have suggested only issuing after major baseline changes
- From the Lifecycle Report advice and feedback received, there still appears to be some misunderstanding about the scope of the milestone requirement and the report content.

Milestone M-036-01 Requirements

What the Milestone requires:

- Submit reports to EPA and Ecology by January 31 each year
- Present “compliance case” (within practicable limits) scope, schedule and cost for EM mission completion at RL and ORP
- Establish reasonable upper-bound estimates (“alternative analysis”) for future cleanup decisions
- Provide costs at PBS Level 3 for 2-5 years and at PBS Level 2 for remaining lifecycle

Preparing the LCR

- MSA PFM is lead contractor, supporting DOE-RL Senior Management
- Compiles all regulatory decisions made and yet to be made
- Every year “alternatives analysis” of future cleanup decisions are evaluated for inclusion
 - 2015 LCR has no alternative analysis per TPA agency agreement
 - Agreement was negotiated to forego preparation of alternatives analysis and accomplish report streamlining

2015 LCR Input

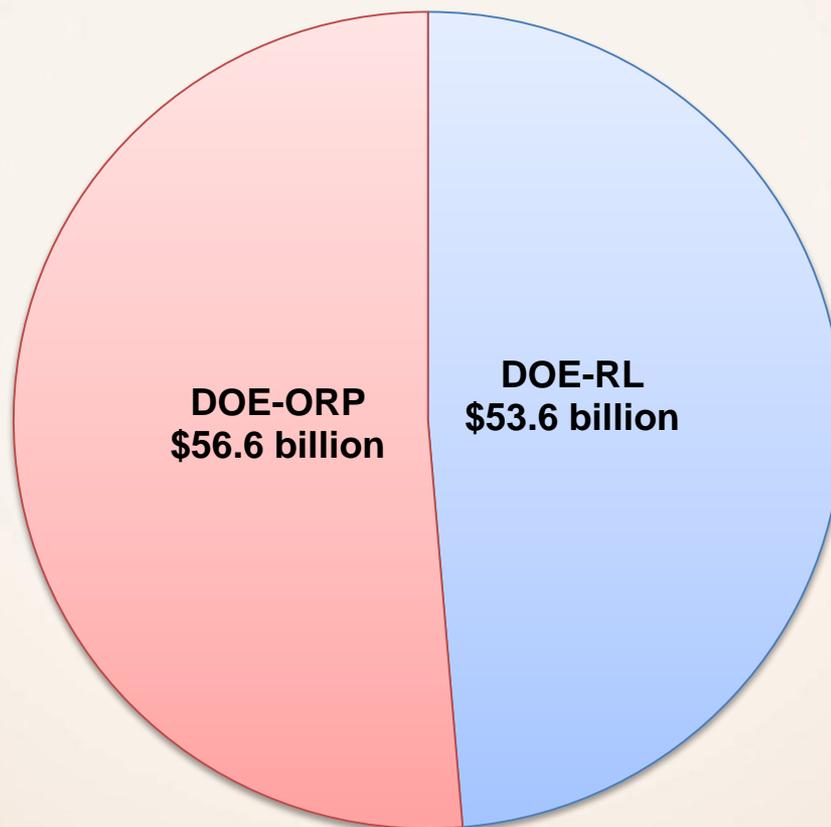
Source data (2015-2090)

- ORP - System Plan Rev. 4 (in use since 2011- last authorized baseline)
- Budget Formulation FY15-20 and EM Liability FY21-Lifecycle (accelerated to be compliant)
- Final Reactor Disposition costs (2054-2068)
- Long-term Stewardship costs (2060-2090)

What's New in the 2015 LCR

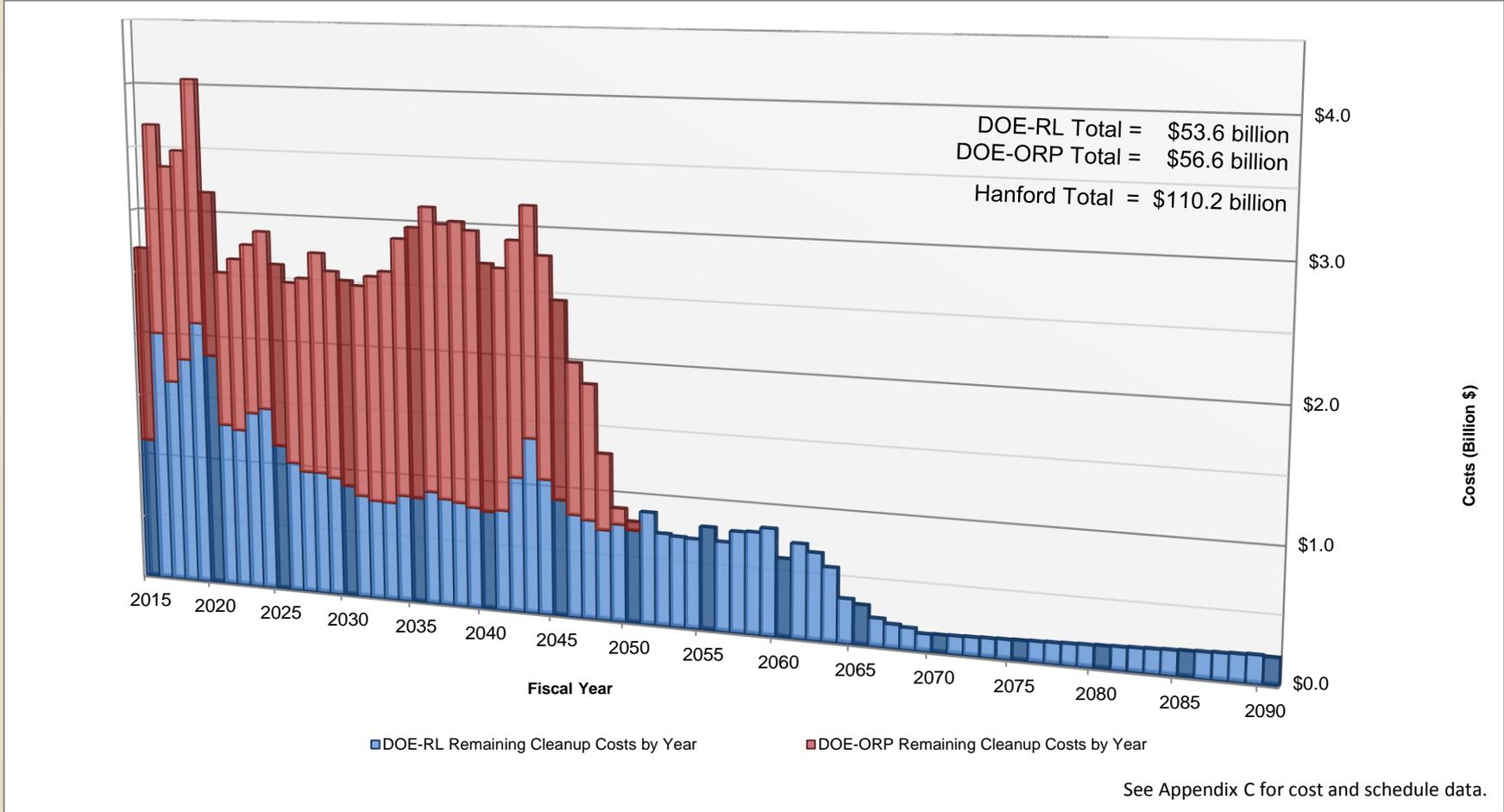
- Summary of cost changes by PBS between 2014 and 2015 Lifecycle Reports
- Clarified that ORP costs include contingency to reflect probability of national repository delay and resulting on-site storage of IHLW (in response to Department of Ecology concern)
- Reduced report size and eliminated development of complex graphic figures - with concurrence of EPA and Ecology
- Improved overall process and (senior management approved) data confidence methodology

2015 LCR Summary: Estimated Cleanup Cost by DOE Field Office



Hanford Site
Remaining Cost
Estimate
FY2015 - FY2090
\$110.2 billion

2015 LCR Summary: Remaining Cleanup Costs by Fiscal Year



2015 LCR Summary: Contrast 2014 to 2015 by PBS

(Note: Only 2015 data is shown in the 2015 LCR)

Project Work Scope	2014 LCR ¹ (Billion \$)	2015 LCR (Billion \$)	Difference	Notes
NM Stabilization and Disposition – PFP (PBS RL-0011)	\$0.6	\$0.6	-\$14M	
SNF Stabilization and Disposition (PBS RL-0012)	\$0.4	\$0.5	+\$113M	Increased schedule and operations
Solid Waste Stabilization and Disposition - 200 Area (PBS RL-0013C)	\$7.1	\$7.8	+\$621M	Sludge Disposition, T Plant, SWS
Safeguards and Security (PBS RL-0020)	\$3.1	\$3.6	+\$470M	Refined estimates
Soil and Water Remediation - Groundwater/Vadose Zone (PBS RL-0030)	\$8.5	\$8.9	+\$432M	200-ZP-1, Integration & Assess, Monitoring
Nuclear Facility D&D - Remainder of Hanford (PBS RL-0040)	\$16.7	\$18.0	+\$1.3B	200-PW-1/3/6 & -CW-5, refined estimates
Infrastructure and Services (PBS RL-0040)	\$6.8	\$4.0	-\$2.8B	Revised estimates, SWS
Nuclear Facility D&D - River Corridor Closure Project (PBS RL-0041)	\$1.3	\$1.4	+\$90M	Site-wide Services (SWS)
Nuclear Facility D&D - Fast Flux Test Facility Project (PBS RL-0042)	\$0.8	\$1.0	+\$240M	Revised risk posture, SWS
Richland Community and Regulatory Support (PBS RL-0100)	\$2.0	\$1.2	-\$788M	Revised estimates based on actuals
Radioactive Liquid Tank Waste Stabilization and Disposition (PBS ORP-0014)	\$54.4	\$54.4	\$0	
Major Construction - Waste Treatment Plant (PBS ORP-0060)	\$2.2	\$2.2	\$0	
Hanford Site Total Remaining Estimated Cleanup Costs	\$103.9	\$103.5	-\$0.4B	
Long-Term Stewardship (PBS RL-LTS) ²	\$5.4	\$4.8	-\$570M	Refined estimates, liquid waste efficiencies
Final Reactor Disposition ²	\$1.9	\$1.9	\$0	
DOE-EM Total Remaining Estimated Cleanup Costs	\$111.2	\$110.2	-\$0.9B	RL refined estimates and LTS costs

DOE-RL Path Forward

- 2015 LCR and Fact sheet posted to www.hanford.gov in-mid February
- Feedback due by April 30, 2015