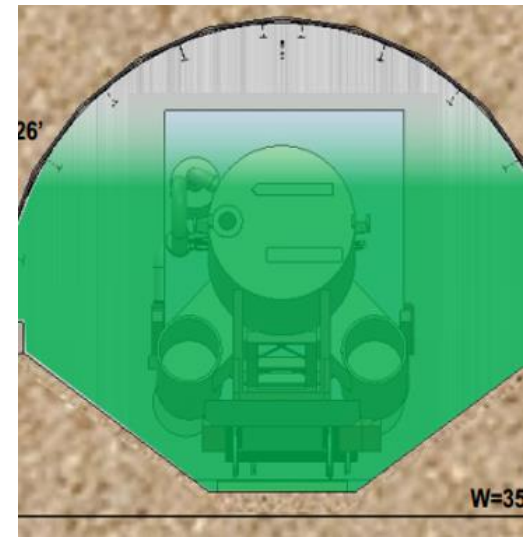
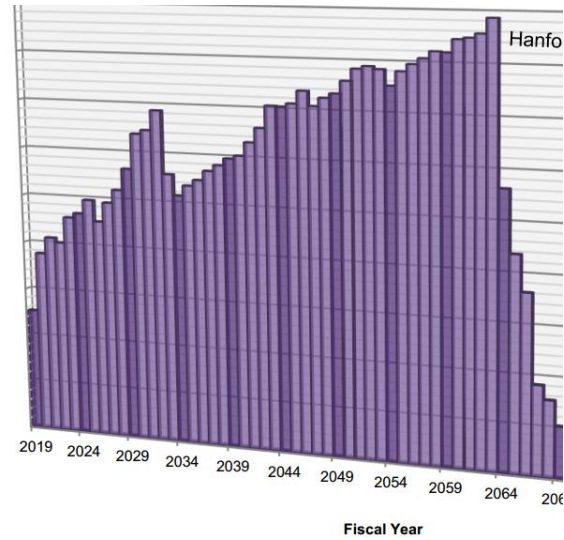
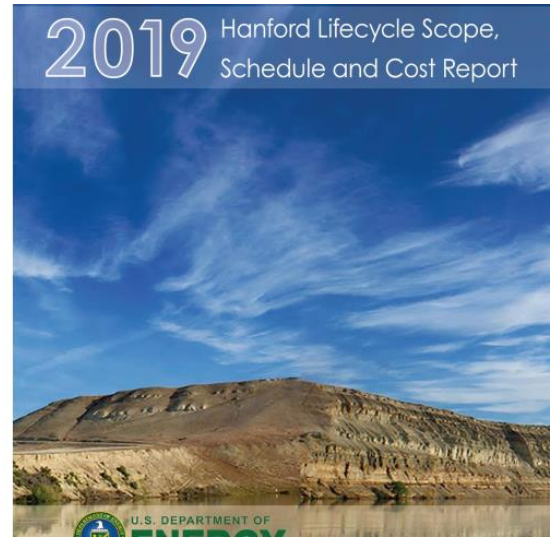


Oregon Department of ENERGY

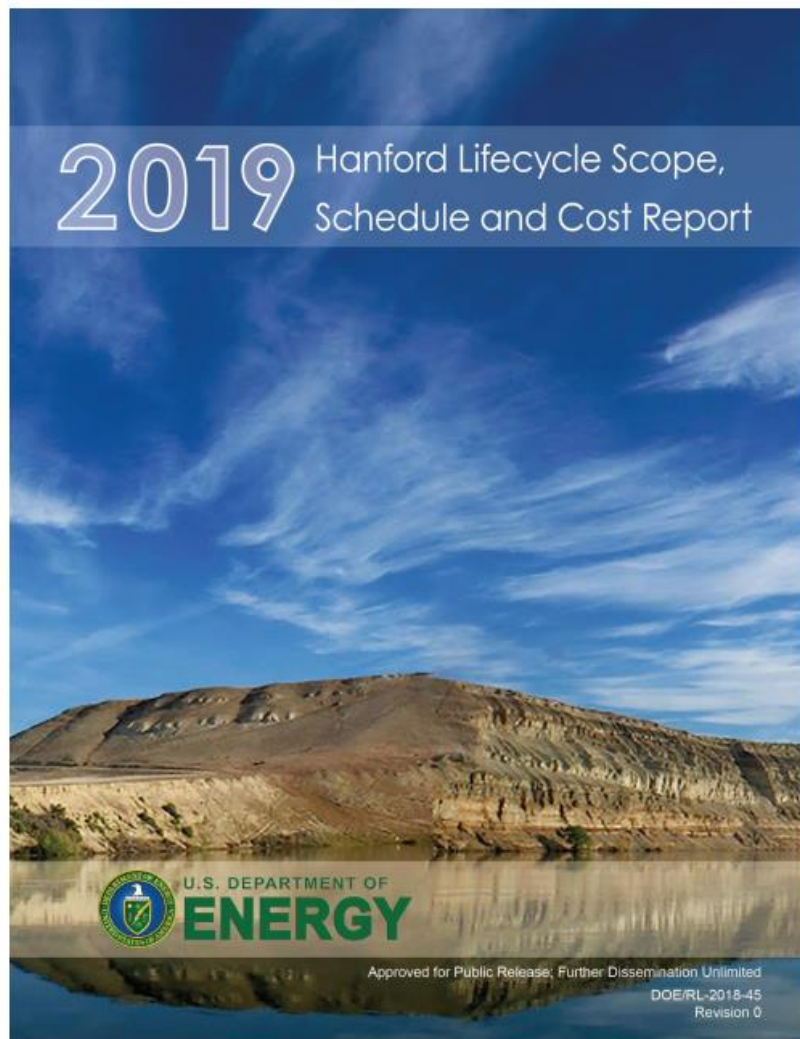
What's happened since our November meeting?

Ken Niles
March 11, 2019



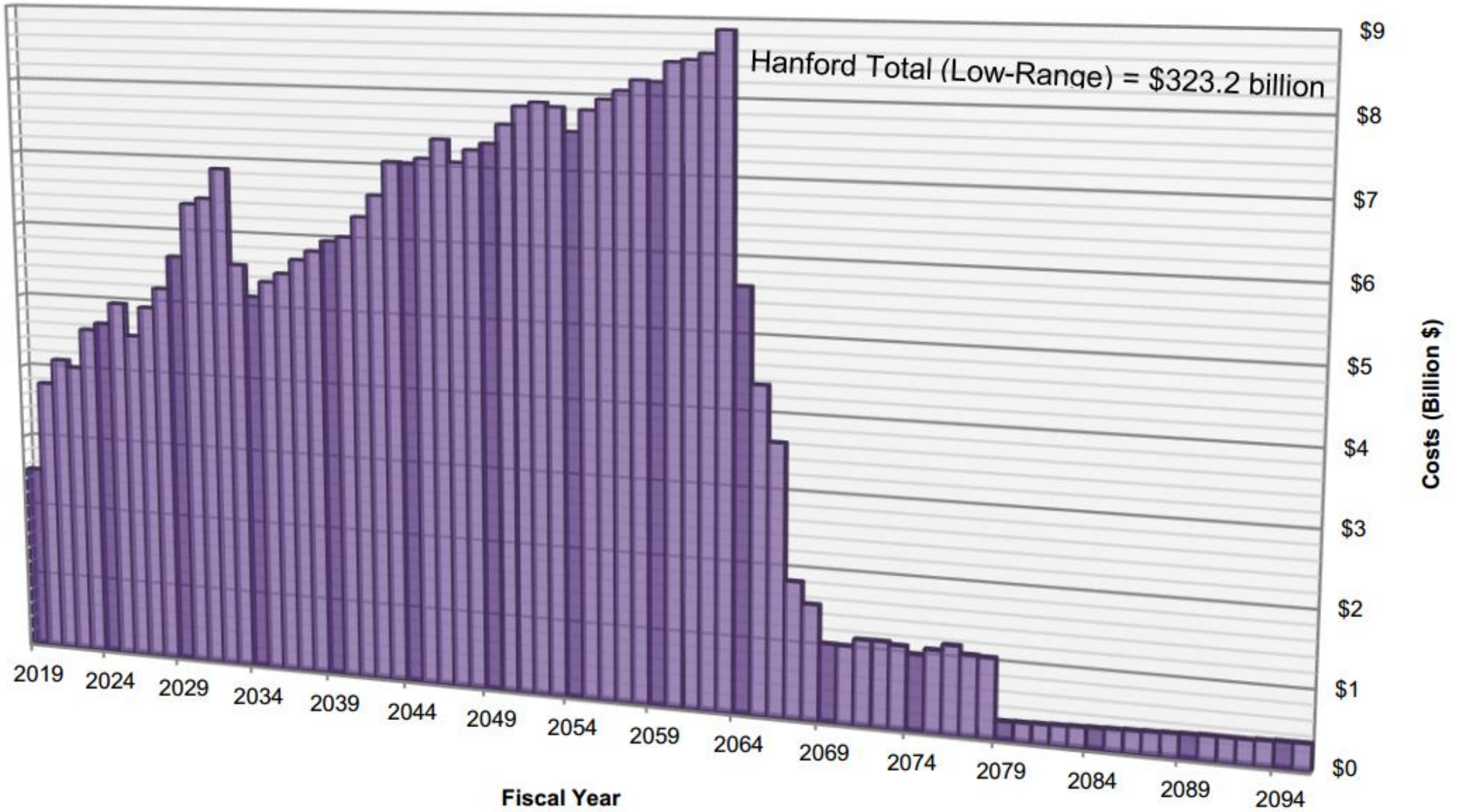


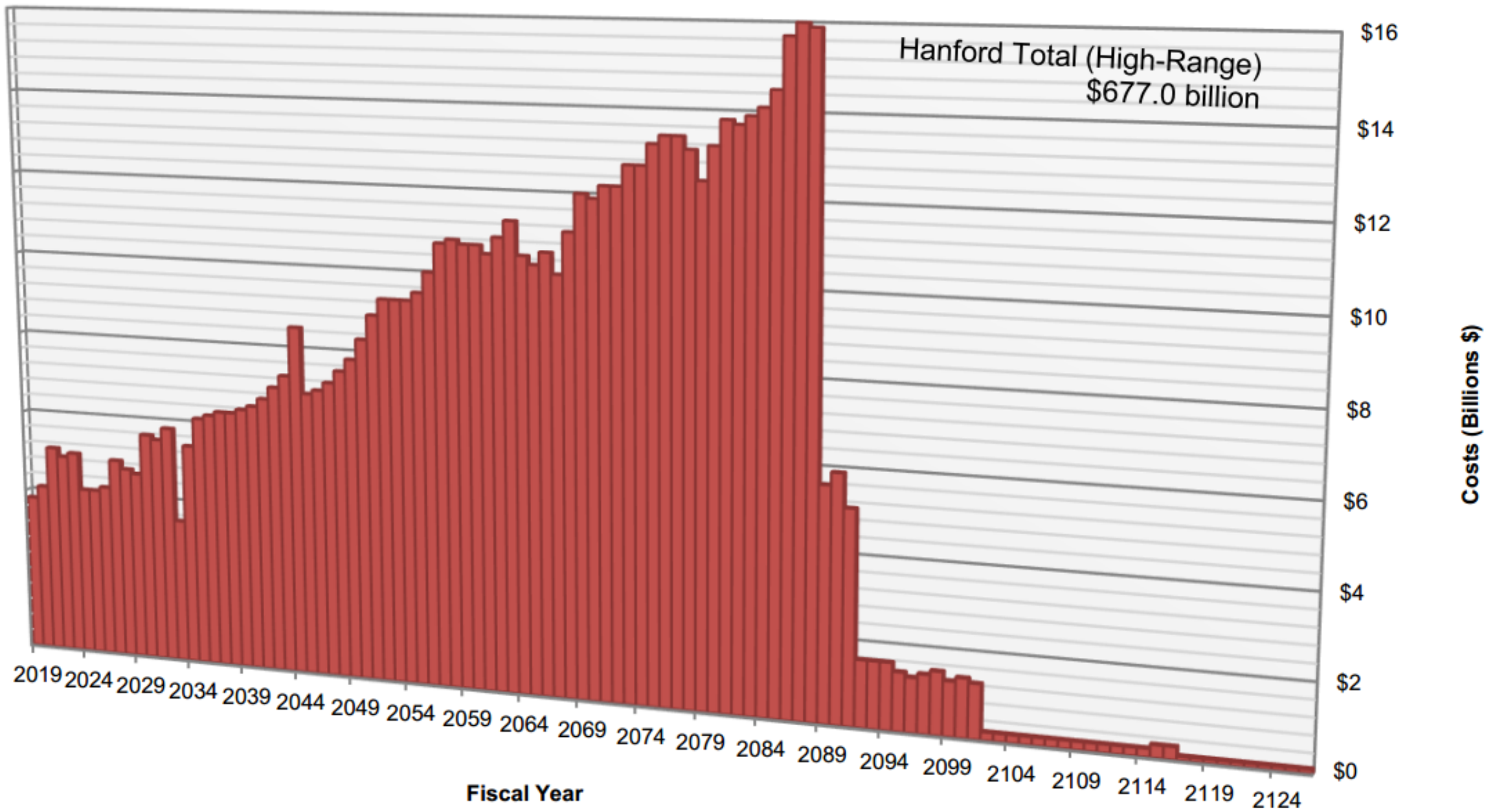
In the News



**\$323.2 billion to
\$677 billion**

**cleanup continues
through 2078 to 2102**





“The findings of this report, and the developments on which it is based, show that a new approach is needed for the mission at Hanford,” DOE said in a statement.

“These increases have been years in the making and, while not unexpected, the implications are clear,” DOE said.

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Program-Wide Strategy and Better Reporting Needed to Address Growing Environmental Cleanup Liability

January 2019

What GAO found:

- DOE's Environmental Management program faces an environmental liability of \$377 billion, according to DOE's 2018 financial statement
- EM's environmental liability at Hanford increased by nearly \$130 billion from 2014 to 2018
- EM's liability will likely continue to grow
- Four sites account for more than 80% of EM's fiscal liability – Hanford, Oak Ridge, Idaho National Laboratory and the Savannah River Site

An Upcoming Opportunity for EM to Balance Risks and Costs:

- DOE is generally required to remove up to 99% of the waste in each group of single-shell tanks
- Independent experts question that need, noting that 90% of the risk to groundwater came from only 58 of the 149 single shell tanks
- Developing a risk-based plan targeting removal of waste from higher risk SSTs and allowing more waste to be left in other SSTs could potentially save billions of dollars



DOE Should Take Action to Improve Oversight of Cleanup Milestones

February 2019

What GAO found:

- DOE's cleanup at 16 sites is governed by 72 agreements and hundreds of milestones
- Sites are inconsistent in their reporting of milestones
- EM does not accurately track met, missed or postponed cleanup related milestones
- EM has not consistently reported to Congress on the status of the milestones, as required, and the information it reports is often incomplete
- EM does not track the history of milestone changes that are renegotiated – this hinders management's insight into the true performance of the project

What GAO recommends:

- DOE should establish a standard definition of milestones
- DOE should track original milestone dates as well as changes
- DOE should report annually to Congress on the status of its cleanup milestones
- DOE should conduct root cause analyses of missed or postponed milestones

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MEDICINE

Supplemental Treatment of Low-Activity Waste at Hanford

Nov 29-30 – Richland
January 8 - Atlanta



Washington Ecology comments in November

- The primary waste form must be shown to perform “as good as glass.” To date, the State has not seen evidence that any waste form other than glass prevents the release of these contaminants in amounts that exceed drinking water standards in groundwater.
- There is insufficient information to support cost estimations. It must be full life-cycle and include all necessary facilities, treatment costs, transportation costs, and disposal costs for all associated waste forms.



PUREX TUNNEL 2

INTERIM STABILIZATION PROGRESS

March 3rd, 2019

HEADLINES

This Week

No safety events this week
 0 cubic yards of grout
 0 trucks

Total To Date

No safety events
 31,166 cubic yards of grout
 3,130 trucks

Forecasted Completion – March 2019

Project is analyzing completion date impact due to weather delays

Tunnel 2 Bulk Fill ≈ 78% Complete

GROUT DELIVERY NUMBERS

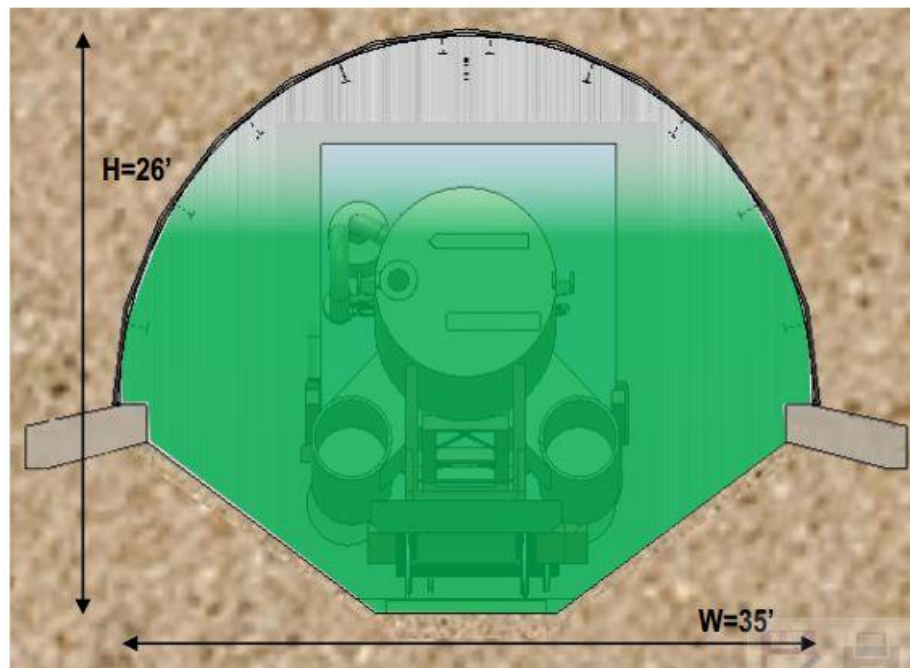
- Total Volume ≈ 39,800 yd³
- 500 yd³ per day
- ~10 yd³ per Truck

Grouting Risk Tracking

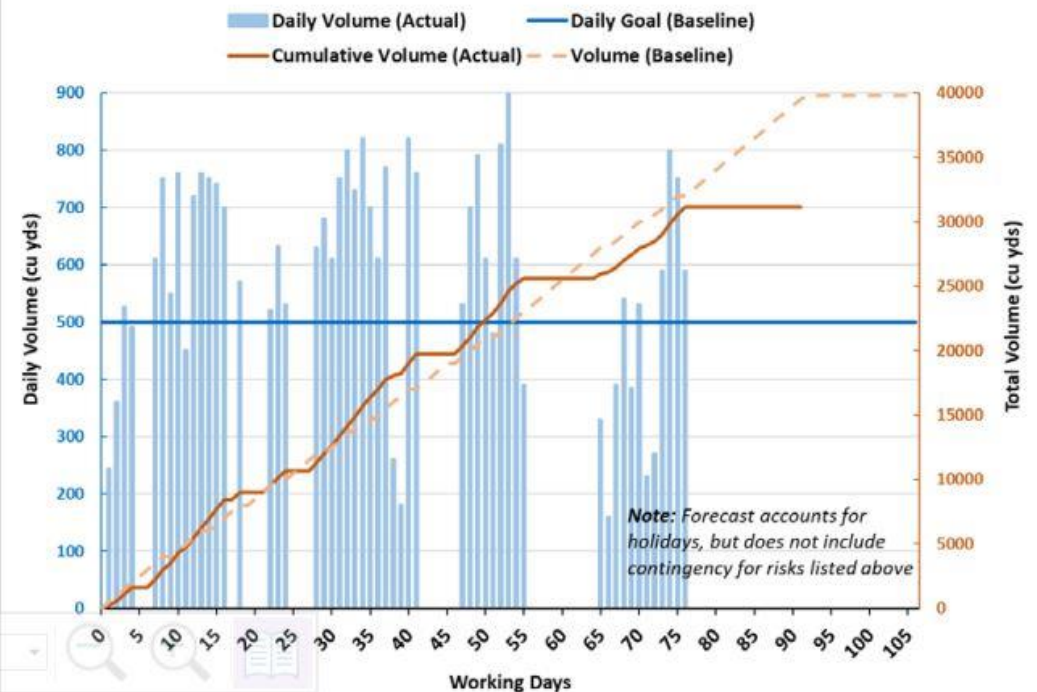
Weather Delays – 15 days
 Grout Delivery Issues – none to date
 Grout Equipment Issues – 4 days
 Monitoring Equipment Issues – none to date
 Resource Limitations – none to date
 Grout Flowability Issues – none to date
 Conveyance System Maintenance – 13 days
 Tunnel As Found Condition Repairs – 4 days
 Days Lost – Current Week: 4
 Total to Date: 36

Tunnel Profile View

(Illustrative only)



Purex Tunnel 2 Baseline Status













Oregon comment letters

- Oregon comments on DOE interpretation of High-Level Waste
- Made one comment on the Draft RFP for the Central Plateau Cleanup Contract: “The DOE’s goal is to optimize the scope, cost and schedule associated with performance of all work...” No mention of quality of work, or protectiveness, or thoroughness
- Comments to NRC regarding groundwater protection in in-situ uranium mining

Hanford Advisory Board meetings

- December meeting cancelled as government agencies shut down in honor of former President George H.W. Bush
- Planning for February meeting impacted by partial federal government shutdown – could not provide a 30 day Federal Register Notice
- Plans were to go forward with a one-day “administrative” meeting
- Snow forced cancellation of February meeting

Proposal to Create Oregon Climate Authority

The need exists for comprehensive state leadership on climate change, greenhouse gas mitigation and the transition to low-carbon clean energy resources

Establishes the Oregon Climate Authority, which shall:

- Be the central repository within state government for collection and analysis of data on climate change risk and impacts
- Coordinate state agency actions toward achieving reductions in greenhouse gas emissions
- Coordinate state agency actions toward achieving state goals related to clean energy
- Advise the Governor on climate change and energy-related matters

Proposal to Create Oregon Climate Authority

The State Department of Energy is abolished

All of the duties, functions and powers of the State Department of Energy are imposed upon, transferred to and vested in the Oregon Climate Authority

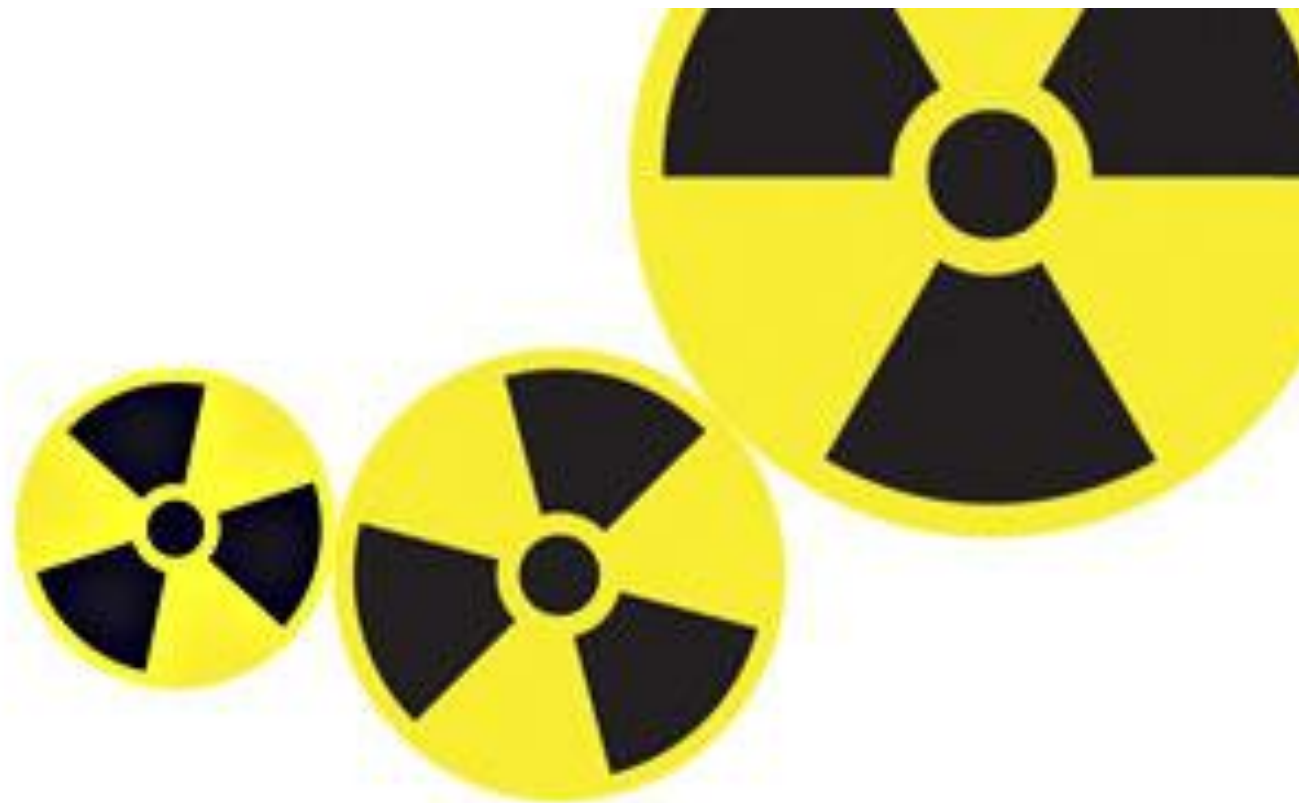
- The small-scale energy loan program is transferred to the Oregon Business Development Department

Proposal to Create Oregon Climate Authority

Establishes the *Energy Program Review Task Force*, which shall:

- Review all the duties, functions and powers of the Oregon Climate Authority
- Provide recommendations to the Governor and to the Legislative Assembly on duties, functions and powers that should be abolished, amended or transferred to other agencies of state government
- Report due to Legislative interim committee no later than September 15, 2021

The bizarre world of nuclear..



GO TO THE PICK-UP POINT



OFFROAD  **NUCLEAR WASTE TRANSPORT**
TRUCK DRIVER

TRANSPORT THE WASTE
TO THE LANDFILL



OFFROAD 
NUCLEAR WASTE TRANSPORT
TRUCK DRIVER



**THIS IS
THE END**