

FEDERAL FACILITIES TASK FORCE

NGA Center for Best Practices

June 2021

PRESENTATION OUTLINE

Complex-Wide Updates

EM Organization and Leadership Updates

Recent and Upcoming Reports

FY22 Budget Request Highlights

EM Liabilities Update

Note: A digital copy of this presentation will be circulated with the FFTF

UPDATES FROM ACROSS THE COMPLEX

February – May 2021

- February 25th – Energy Secretary confirmed
- March 15th – Los Alamos National Laboratory Monitors PFAS
- April 13th – EM Releases 2021-2031 Strategic Vision
- May 20th – DOE discusses interim storage plans



UPDATES FROM ACROSS THE COMPLEX

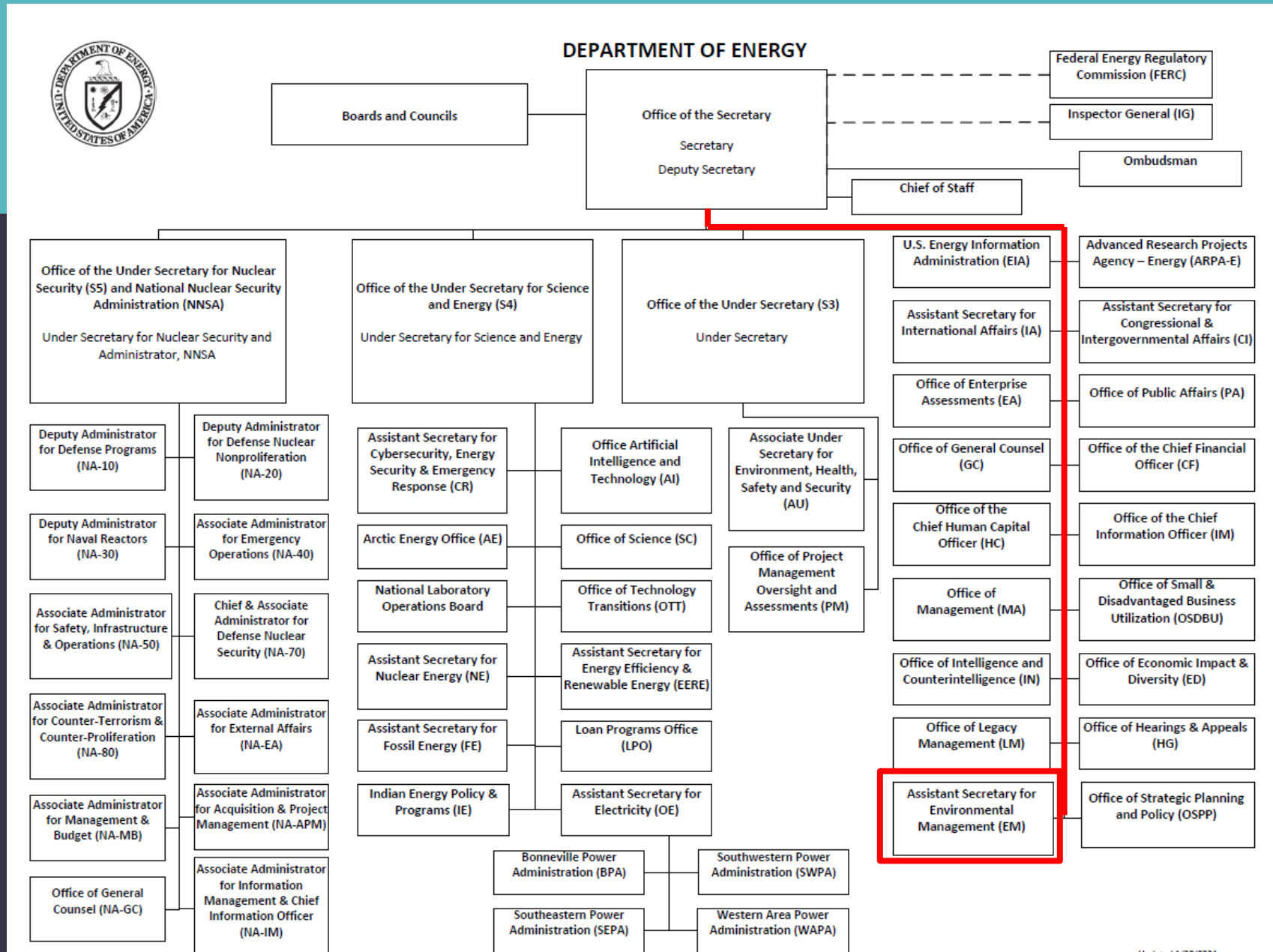
Throughout the past several months:

- *WIPP infrastructure upgrades continue, including waste panel excavation and Safety Significant Confinement Ventilation System*
- *EM sites continue to move through COVID-19 phased approach to reopening*
- *NNSA plans for plutonium pit production continue*



CHANGES AT DOE

- New DOE org chart moves EM out from under Science and reporting directly to Secretary of Energy
- Ike White's title changed from "Senior Advisor" to Acting EM-1
- Potential EM-1 nominees Anderson and Connery



RECENT REPORTS

HLW: DOE [Report to Congress](#)

- Evaluation of inventory of reprocessing waste that is in storage at SRS, INL, and Hanford. Classifying these reprocessing wastes as non-HLW could enable DOE to begin disposition of such waste earlier, reduce costs, and lower the risk to workers, the public, and the environment.

WIPP: [GAO Report](#)

- Staffing and other problems at the Waste Isolation Pilot Plant continued to be voiced by the federal government's watchdog agency in a two-year report seeking to identify struggling areas in the government and ways to improve operations.

West Valley: [GAO Report](#)

- As of February 2020, DOE reported spending about \$3.1 billion on contracted cleanup activities, but it cannot estimate the cleanup's final cost until it decides how it will address the remaining waste. DOE has been unable to dispose of the high-level and transuranic wastes stored at West Valley because there are no facilities authorized to accept these wastes.

RECENT REPORTS

Hanford: [GAO Report](#)

- DOE intends to “close” the C-farm by leaving the nearly empty tanks in place and filling them with grout. DOE has started the determination process, but as GAO has previously found, DOE is likely to face a lawsuit because of questions about its legal authority.

Contracting: [National Academies of Sciences Report](#)

- Provides background information on the sites currently assigned to EM; discusses current practices for management and oversight of the cleanups; offers findings and recommendations on such practices and how progress is measured against them; and considers the contracts under which the cleanups proceed and how these have been and can be structured to include incentives for improved cost and schedule performance.

Fraud: [GAO report](#)

- Identifies 9 categories of contracting fraud schemes that occurred at the DOE from 2013 to 2019, including billing schemes and bid-rigging. Report found that the DOE's methods for gathering information about its fraud risks do not capture all of the contracting fraud risks it faces.

UPCOMING REPORTS: PART 1

2021 NDAA Section 3125:

- DOE to use a federally funded research and development center to conduct a follow-on analysis to approaches for treating low-activity waste at the Hanford
- Analysis to provide decisionmakers with the ability to make a direct comparison between approaches for the supplemental treatment of low-activity waste at the Hanford Nuclear Reservation based on criteria that are relevant to decision making and most clearly differentiate between approaches

UPCOMING REPORTS: PART 2

National Academies will review the analysis carried out by the Federally Funded Research and Development Center (FFRDC) selected by EM on approaches for supplemental treatment of low-activity waste at the Hanford Nuclear Reservation. The review will evaluate the technical quality and completeness of the following:

1. Does the FFRDC's report clearly lay out a framework of decisions to be made among the treatment technologies, waste forms, and disposal locations?
2. Does the FFRDC's report consider in its analysis all the elements, criteria, and factors specified in Section 3125 of the National Defense Authorization Act of 2021?
3. Does the FFRDC's report provide additional analysis for the grout treatment approach as identified in the FFRDC report for Section 3134 of the National Defense Authorization Act of 2017?

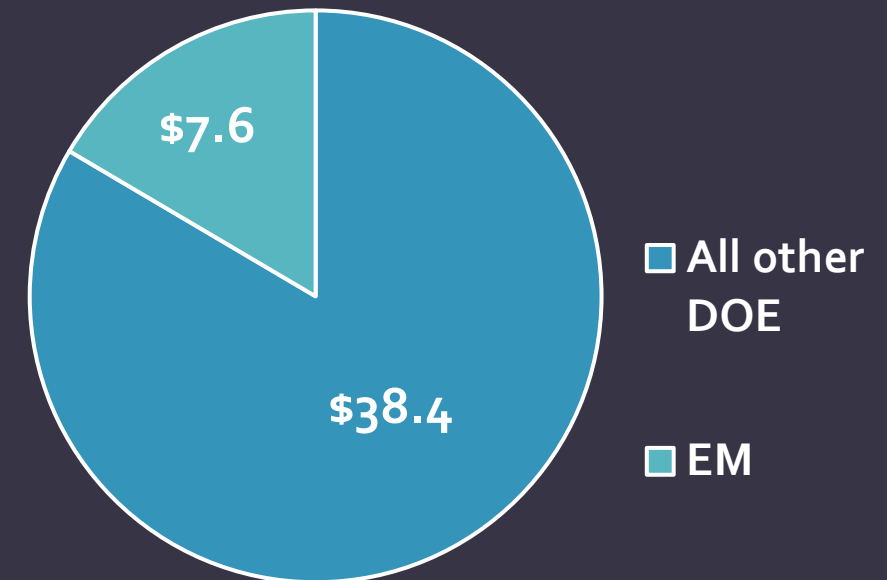
DOE FY22 BUDGET REQUEST: HIGHLIGHTS

DOE: \$46.1 billion for DOE

EM: \$7.6 billion

- RP funding decreases from \$1.64 to \$1.54 billion; \$586 million for low-activity waste funding, down from \$786 million FY21
- Spending on high-activity waste facilities would increase to \$60 million from \$25 million

Site	Change
Idaho	- \$63m (\$445 to \$381m)
LANL	+ \$107m (\$226 to \$335m)
Moab	+ \$37m (\$47.8 to \$85m)
Oak Ridge	- \$83m (\$644 to \$561m)
Paducah	- \$40m (\$316 to \$275m)
Portsmouth	+ \$37m (\$509 to \$547m)
SRS	+ \$43m (\$1.7 to \$1.75b)



DOE FY₂₂ BUDGET REQUEST: HIGHLIGHTS (CONTINUED)

Note: Project Schedule Range is unchanged from FY₂₁ budget request

Environmental Management Project Schedule Range 50% to 80% Confidence Level (Single date indicates both 50% and 80% Confidence Levels are the same)	
Site	Completion Date
Energy Technology Engineering Center	TBD ^a
Separations Process Research Unit	2021
Brookhaven National Laboratory	2020
Lawrence Livermore National Laboratory	2023
Sandia National Laboratory	2028
Nevada Nuclear Security Site	2030
Moab	2034
Waste Isolation Pilot Plant	2035 - 2042
Los Alamos National Laboratory	2036
West Valley Demonstration Project	2040 - 2045
Idaho National Laboratory	2045 - 2060
Portsmouth Gaseous Diffusion Plant	2039 – 2041
Oak Ridge	2046
Paducah Gaseous Diffusion Plant	2065 - 2070
Savannah River Site	2065
Hanford Site	2070-2075

EM ENVIRONMENTAL LIABILITY UPDATE

2020 Total US Env Liabilities:
\$603b

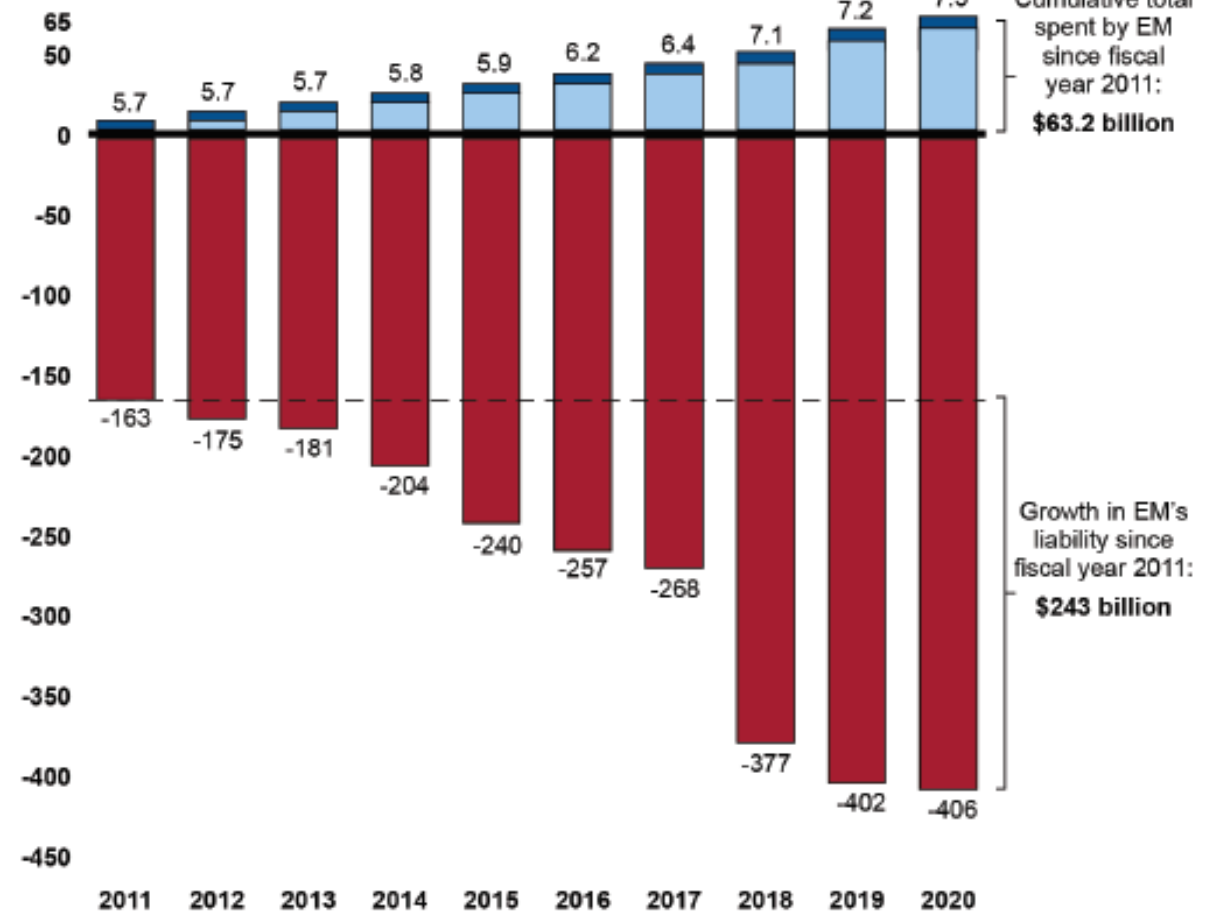
↳ DOE \$512b

↳ DOE EM \$406b

EM's Annual Spending and Estimated Environmental Liability

(Fiscal Years 2011 - 2020)

Dollars (in billions)



Fiscal year

- Annual EM spending
- Cumulative EM spending
- Estimated EM environmental liability

Source: GAO analysis of DOE financial and budget data. | GAO-21-585R

END OF UPDATE PRESENTATION

Thank you!