

July 21, 2014

The Honorable Fred Upton
Chairman, Committee on Energy
and Commerce
United States House of Representatives
Washington, DC 20515

Dear Mr. Chairman:

On behalf of the Commission,¹ I am transmitting the June 2014 monthly status report on the U.S. Nuclear Regulatory Commission (NRC) activities and utilization of unobligated carryover funds appropriated from the Nuclear Waste Fund. This report describes the NRC actions that were taken in June 2014 to address the remand by the U.S. Court of Appeals for the District of Columbia Circuit in *In re Aiken County*, regarding the licensing process for the U.S. Department of Energy's Yucca Mountain license application.

Please feel free to contact me or Amy Powell, Acting Director of the Office of Congressional Affairs, at (301) 415-1776 if you have questions or need more information.

Sincerely,

/RA/

Allison M. Macfarlane

Enclosure:
[As stated](#)

cc: Representative Henry A. Waxman

¹ Commissioner George Apostolakis did not participate; his term on the Commission ended June 30, 2014.

Identical letter sent to:

The Honorable Fred Upton
Chairman, Committee on Energy
and Commerce
United States House of Representatives
Washington, DC 20515
cc: Representative Henry A. Waxman

The Honorable John Shimkus
Chairman, Subcommittee on Environment
and the Economy
Committee on Energy and Commerce
United States House of Representatives
Washington, DC 20515
cc: Representative Paul Tonko

The Honorable Barbara Boxer
Chairman, Committee on Environment
and Public Works
United States Senate
Washington, DC 20510
cc: Senator David Vitter

The Honorable Sheldon Whitehouse
Chairman, Subcommittee on Clean Air
and Nuclear Safety
Committee on Environment
and Public Works
United States Senate
Washington, DC 20510
cc: Senator Jeff Sessions

The Honorable Ed Whitfield
Chairman, Subcommittee on Energy
and Power
Committee on Energy and Commerce
United States House of Representatives
Washington, DC 20515
cc: Representative Bobby L. Rush

The Honorable Harold Rogers
Chairman, Committee on Appropriations
United States House of Representatives
Washington, DC 20515
cc: Representative Nita Lowey

The Honorable Mike Simpson
Chairman, Subcommittee on Energy
and Water Development
Committee on Appropriations
United States House of Representatives
Washington, DC 20515
cc: Representative Marcy Kaptur

The Honorable Dianne Feinstein
Chairman, Subcommittee on Energy
and Water Development
Committee on Appropriations
United States Senate
Washington, DC 20510
cc: Senator Lamar Alexander

**U.S. Nuclear Regulatory Commission Monthly Status Report
Activities Related to the Yucca Mountain Licensing Action
Report for June 2014**

Background

On August 13, 2013, a panel of the U.S. Court of Appeals for the District of Columbia Circuit issued its decision in the case *In re Aiken County* directing the U.S. Nuclear Regulatory Commission (NRC) to “promptly continue with the legally mandated licensing process” for the U.S. Department of Energy’s (DOE’s) application to construct a geologic repository for high-level waste at Yucca Mountain, NV. The NRC promptly began taking steps to comply with the court’s direction following the issuance of the decision. On November 18, 2013, the Commission approved a Memorandum and Order, which set a course of action for the Yucca Mountain licensing process that is consistent with the Appeals Court decision and with the resources available. The Commission also issued a related Staff Requirements Memorandum on November 18, 2013. The Commission provides further direction to the staff as needed.

Accomplishments and Ongoing Work

The NRC staff in the Office of Nuclear Material Safety and Safeguards, with the support of the Center for Nuclear Waste Regulatory Analyses, continues to make significant progress toward completing the four remaining volumes of the safety evaluation report (SER). Attached is the task tracking tool, “Status of Safety Evaluation Report (SER) Chapters and Volume Tasks,” which documents work completed through June 30, 2014. The majority of chapter milestones have been completed on time or ahead of due dates; any chapter that does not meet the projected schedule receives further management attention. Management and staff are actively working to resolve delays in those chapters that have not met their due dates. Although several chapters are currently behind schedule, the final volume end dates have not changed. Completion of the SER remains the staff’s highest priority for this project and is on track for completion by January 2015.

Agency attorneys provided support to the staff and the Commission on project activities and participated in ongoing Federal court litigation related to Yucca Mountain. Agency attorneys also advised the staff on issues related to SER development and continued reviewing draft chapters of the SER.

Schedule and Cost for Remaining Activities

Completion of the SER is scheduled to take approximately 12 months, ending in January 2015. To date, no unforeseen technical or process issues have arisen that would affect the completion date. SER activities are proceeding within the September 2013 budget estimate of \$8.3 million.

The schedule for completion of an environmental impact statement (EIS) supplement is currently being considered. On February 28, 2014, DOE informed the NRC that it would not complete an EIS supplement that the staff has determined is needed for the review of DOE’s application under the National Environmental Policy Act, but rather would provide an update to a 2009 technical report that would inform an EIS supplement. On April 7, 2014, NRC staff met with DOE staff in a public meeting to discuss DOE’s revision of this report, entitled, *Analysis of Postclosure Groundwater Impacts for a Geologic Repository for the Disposal of Spent Nuclear Fuel and High-Level Radioactive Waste at Yucca Mountain, Nye County, Nevada*. NRC is awaiting receipt of the update to the 2009 technical report.

Enclosure

After DOE informed the NRC that it would not complete an EIS supplement, the Commission necessarily revised its earlier direction to adopt DOE's supplement. The Commission has directed the staff to plan to develop and issue an EIS supplement. The work on the EIS supplement would not begin until at least the fall of 2014, when work on the SER is substantively complete and appropriate personnel are available to support the EIS supplement effort. At that time, staff will submit to the Commission its assessment of remaining Nuclear Waste Fund (NWF) funds and its proposed plan to complete the EIS supplement. The Commission will then provide direction on the allocation of funding to this task based on the staff's updated assessment. The previous cost estimate of \$625,000 for an adoption determination of a DOE-developed EIS supplement would be revised to account for an NRC-developed EIS supplement as part of the fall 2014 reassessment.

The Licensing Support Network (LSN) document collection is fully available to internal users in a nonpublic library of the NRC's Agencywide Documents Access and Management System (ADAMS). This project was completed in April 2014 at an estimated cost of \$350,000. The Commission has also directed that, pending available funding, the LSN document collection should be loaded into a publicly accessible library in ADAMS when work on the SER is substantively complete and available funding from the NWF can be reassessed. This activity would not begin until at least the fall of 2014.

The staff's February 2014 estimate that related activities, such as the work performed by NRC attorneys on Federal court litigation following the issuance of the mandamus order, monthly reporting, and other support efforts, will require approximately \$750,000 over the course of the project has not changed.¹

The total cost estimate for the work described above as of June 30, 2014, is projected to be approximately \$10 million.

¹ This total does not include any potential agency liabilities from external litigation.

Nuclear Waste Fund Expenditures

During the month of June, the NRC expended \$799,737 of NWF funds on its actions in direct response to the court's decision. Cumulative expenditures since the August 13, 2013, U.S. Court of Appeals decision are \$4,999,634. The August 13, 2013, balance of \$13,549,315 of unexpended NWF funding, less the \$4,999,634, results in a remaining unexpended balance of \$8,549,681. Total unobligated NWF funds remaining as of June 30, 2014, are \$6,934,447. The following table provides further details regarding the NRC's expenditure of NWF funds since August 13, 2013.

Yucca Mountain Licensing Activities	Cost Estimate	June Expenditures	Cumulative Expenditures
Completion of the safety evaluation report	\$8,310,000	\$788,602	\$4,052,736
Loading of Licensing Support Network documents into a nonpublic ADAMS library	\$350,000	\$0	\$272,240
Development of the environmental impact statement supplement*	\$625,000	\$0	\$47,427
Program planning and support		\$9,213	\$267,180
Response to the August 30, 2013, Commission Order		\$0	\$137,518
Federal court litigation**		\$1,922	\$148,056
Support/Advice in NRC proceedings		\$0	\$35,535
Subtotal, other support costs chargeable to NWF funds	\$750,000	\$11,135	\$588,289
Adjustments to close out contracts funded by previous NWF appropriations		\$0	\$38,942
Total	\$10,035,000	\$799,737	\$4,999,634

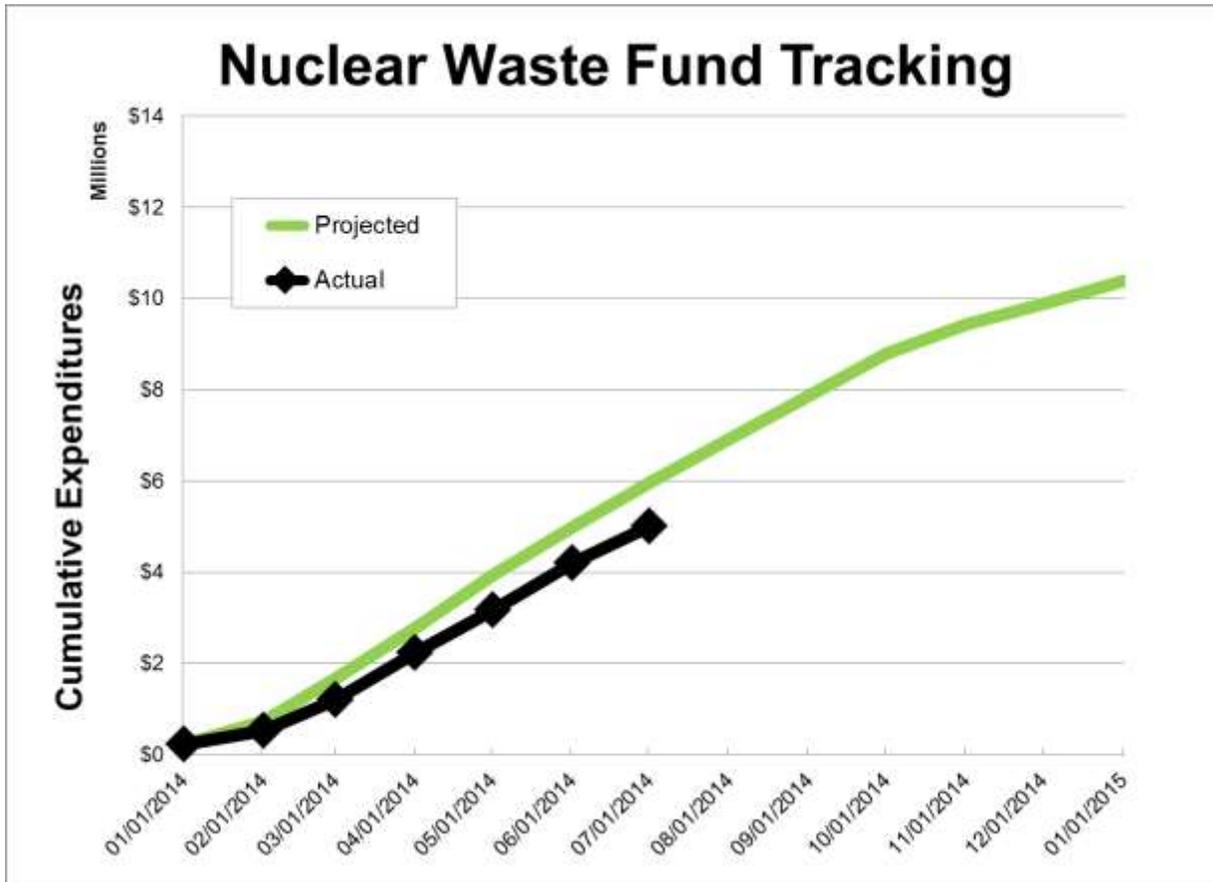
* The estimate of \$625,000 for an adoption determination of a DOE-developed EIS supplement would be revised to account for an NRC-developed EIS supplement as part of the fall 2014 reassessment of remaining NWF funds consistent with Commission direction.

** Includes a \$59,000 expenditure in May for the agency's agreement to settle the Equal Access to Justice Act claim of one of the *Aiken County* petitioners. The agency has sought the views of the Comptroller General as to whether this payment is properly paid with NWF funds.

The unexpended NWF fund balance of \$8,549,681 includes \$254,348 of previously appropriated NWF funds that remain unexpended but obligated on contracts with the Center for Nuclear Waste Regulatory Analyses.

The staff has estimated the expenses necessary to complete the SER and related activities directed by the Commission. Figure 1 on page 4 shows the cumulative projected and actual expenditures. Projected expenditures include cost estimates shown in Table 1. The actual cumulative expenditures reflect costs through June 30, 2014, as given in Table 1.

Figure 1. Nuclear Waste Fund Tracking



Stakeholder Communications and Interactions

On June 10, 2014, staff presented a status update of the NRC's review of the Yucca Mountain license application at the Fuel Cycle Information Exchange held at NRC headquarters in Rockville, MD.

Status of Safety Evaluation Report (SER) Chapters and Volume Tasks

Volume 2 - Volume 5

 Milestone Achieved as of June 30, 2014

CHAPTER MILESTONES	Staff Develops SER Inputs	Staff Completes SER Inputs	Branch Chief Review	OGC Chapter NLO Review	OGC Chapter Comment Resolution	Staff Verifies References Are Publicly Available	Technical Editor Review	Project Manager Accepts/Rejects Tech Edits
Volume 2: Review of Repository Safety Before Permanent Closure								
Chapter 1 - Site Description								07/11/2014
Chapter 2 - Description of Structures, Systems, & Components and Operations								09/27/2014
Chapter 3 - ID Hazard & Initiating Events								06/10/2014
Chapter 4 - ID Event Sequence								06/10/2014
Chapter 5 - Consequences								07/11/2014
Chapter 6 - ID Structures, Systems, & Components Important to Safety								05/27/2014
Chapter 7 - Design of Structures, Systems, & Components								06/09/2014
Chapter 8 - ALARA								06/10/2014
Chapter 9 - Retrieval								
Chapter 10 - Decontamination & Demolition								05/13/2014
Abstract								09/10/2014
Executive Summary								09/10/2014
Introduction								09/10/2014
Glossary								09/10/2014
Conclusions								09/24/2014
Appendices								09/24/2014

Status of Safety Evaluation Report (SER) Chapters and Volume Tasks

Volume 2 - Volume 5

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CHAPTER MILESTONES	Staff Develops SER Inputs	Staff Completes SER Inputs	Branch Chief Review	OGC Chapter NLO Review	OGC Chapter Comment Resolution	Staff Verifies References Are Publicly Available	Technical Editor Review	Project Manager Accepts/Rejects Tech Edits
CHAPTER MILESTONES								
Volume 4: Review of Administrative and Programmatic Requirements								
Chapter 1 - Research & Development Program to Resolve Safety Questions								06/27/2014
Chapter 2 - Performance Confirmation Program								06/10/2014
Chapter 3 - Quality Assurance Program								
Chapter 4 - Records, Reports, Tests, and Inspections								
Chapter 5 - DOE Organization Structure - Construction								
Chapter 6 - Key Positions								
Chapter 7 - Qualifications and Training								
Chapter 8 - Plans for Startup Activities and Testing								
Chapter 9 - Plans for Conduct of Normal Activities								
Chapter 10 - Emergency Planning								
Chapter 11 - Controls to Restrict Access and Regulate Land Use								05/13/2014
Chapter 12 - Uses of Geologic Repository Operations Area for Other Purposes								
Abstract								
Executive Summary								07/11/2014
Introduction								07/11/2014
Glossary								
Conclusions								06/10/2014
Appendices								06/10/2014

Status of Safety Evaluation Report (SER) Chapters and Volume Tasks

Volume 2 - Volume 5

 Milestone Achieved as of June 30, 2014

CHAPTER MILESTONES	Staff Develops SER Inputs	Staff Completes SER Inputs	Branch Chief Review	OGC Chapter NLO Review	OGC Chapter Comment Resolution	Staff Verifies References Are Publicly Available	Technical Editor Review	Project Manager Accepts/Rejects Tech Edits
CHAPTER COMPLETE!								

CHAPTER MILESTONES	Staff Develops SER Inputs	Staff Completes SER Inputs	Branch Chief Review	OGC Chapter NLO Review	OGC Chapter Comment Resolution	Staff Verifies References Are Publicly Available	Technical Editor Review	Project Manager Accepts/Rejects Tech Edits
Volume 5: License Specifications								09/24/2014
Chapter 1 - License Specifications								09/27/2014
Abstract								09/27/2014
Executive Summary								09/27/2014
Introduction								09/27/2014

VOLUME MILESTONES	Camera-Ready Combined File to Branch Chief	Branch Chief Concurrence	SFAS Deputy Director Concurrence	SFAS Director Concurrence	OGC NLO	NMSS Office Director Concurrence and Authorization of	NUREG Publication	Final SER Volume Published
Volume 2					10/03/2014	11/09/2014	12/04/2014	
Volume 3					10/03/2014	10/09/2014	11/09/2014	
Volume 4					10/16/2014	10/23/2014	11/20/2014	
Volume 5					10/03/2014	11/09/2014	12/11/2014	

Abbreviations and Acronyms:

- NLO** No Legal Objection
- NMSS** Office of Nuclear Material Safety and Safeguards
- OGC** Office of the General Counsel
- SFAS** Division of Spent Fuel Alternative Strategies
- SER** Safety Evaluation Report. This document consists of 5 volumes. Volume 1: General Information (NUREG-1949) was published in August 2010. The remaining volumes are scheduled for completion as noted in the chart above.