November 25, 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, I am transmitting the October 2014 monthly status report on the U.S. Nuclear Regulatory Commission (NRC) activities and use of unobligated carryover funds appropriated from the Nuclear Waste Fund. This report describes NRC activities in October 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 Eugene Dacus, 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

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 October 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 (SRM) 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 progress toward completing 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 October 31, 2014. On October 16, 2014, the NRC staff published SER Volume 3, which is available on the NRC's website, http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1949/. The NRC also distributed the document to the participants in the adjudicatory proceeding and other interested stakeholders. The NRC staff has completed the majority of the milestones for the chapters in Volumes 2, 4 and 5; management provides additional oversight and support for those chapters not meeting the projected schedule. Management and staff are actively working to resolve delays in those chapters to ensure completion of the SER by January 2015. Completion of the SER remains the staff's highest priority for this project.

Agency attorneys provided support to the staff and the Commission on project activities, 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 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, titled, "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." On October 3, 2014, the DOE submitted its 2014 update of this report to NRC staff. The document is available through the NRC's website, http://pbadupws.nrc.gov/docs/ML1430/ML14303A393.pdf.

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, pending a reassessment of available funding in the fall of 2014. The previous cost estimate of \$625,000 for an adoption determination of a DOE-developed EIS supplement will 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 a cost of approximately \$286,000. The Commission has also directed that, pending a reassessment of available funding in the fall of 2014, the LSN document collection should be loaded into a publicly accessible library in ADAMS.

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 October 31, 2014, is projected to be approximately \$10 million.

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

Nuclear Waste Fund Expenditures

During the month of October, the NRC expended \$600,045 of Nuclear Waste Fund (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 \$7,958,416. The August 13, 2013, balance of \$13,549,315 of unexpended NWF funding, less the \$7,958,416, results in a remaining unexpended balance of \$5,590,899. Total unobligated NWF funds remaining as of October 31, 2014, are \$4,423,831. The following table provides further details regarding the NRC's expenditure of NWF funds since August 13, 2013.

Table 1 Status of NRC NWF Funds since the August 13, 2013, Court Decision				
Yucca Mountain Licensing Activities	Cost Estimate	October Expenditures	Cumulative Expenditures	
Completion of the safety evaluation report	\$8,310,000	\$580,305	\$6,914,439	
Loading of Licensing Support Network documents into a nonpublic ADAMS library	\$350,000	\$180	\$285,772	
Development of the environmental impact statement supplement*	\$625,000	\$0	\$47,427	
Program planning and support		\$17,082	\$345,050	
Response to the August 30, 2013, Commission Order		\$0	\$137,518	
Federal court litigation**		\$2,478	\$153,733	
Support/Advice in NRC proceedings		\$0	\$35,535	
Subtotal, other support costs chargeable to NWF funds	\$750,000	\$19,560	\$671,836	
Adjustments to close out contracts funded by previous NWF appropriations		\$0	\$38,942	
Total	\$10,035,000	\$600,045	\$7,958,416	

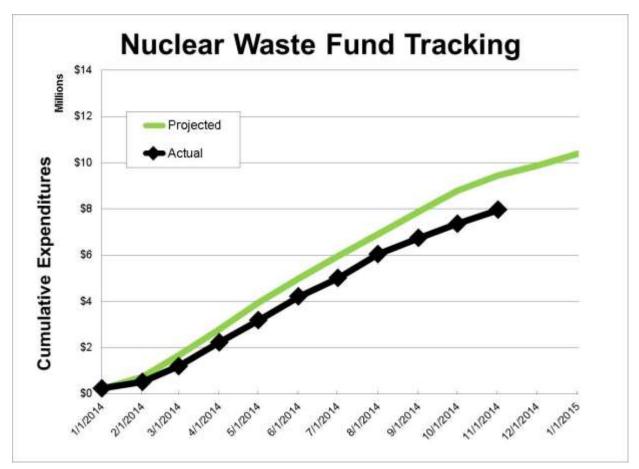
^{*} The estimate of \$625,000 for an adoption determination of a DOE-developed EIS supplement would be revised to account for an NRC-developed EIS supplement as part of the fall 2014 reassessment of remaining NWF funds consistent with Commission direction.

The unexpended NWF fund balance of \$5,590,899 includes \$254,348 of previously appropriated NWF funds that remain unexpended but obligated on contracts with the Center for Nuclear Waste Regulatory Analyses.

^{**} 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 had sought the views of the Comptroller General as to whether this payment is properly paid with NWF funds. Because the issue related to a pending motion for attorneys' fees filed by the other petitioners in the *Aiken County* litigation, GAO declined to provide the Commission with its views. On October 23, 2014, the Court of Appeals for the District of Columbia Circuit denied the motion for attorneys' fees.

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 October 31, 2014, as given in Table 1.

Figure 1. Nuclear Waste Fund Tracking



Stakeholder Communications and Interactions

On October 15, 2014, the NRC issued a media advisory concerning the publication of SER Volume 3 and e-mailed this advisory to the participants in the adjudicatory proceeding and other interested stakeholders. On October 16, the staff issued a press release concerning the publication of SER Volume 3 and e-mailed the document to the participants and other stakeholders.

Milestone A	Milestone Achieved as of October 31, 2014
CHAPTER MILESTONES	SIGN STEEDS STORMS AND
Valime 2: Beulew of Bennettony Safety Before Bormanent Closine	
Charter 1 - Site Description	
Chapter 2 - Description of Structures. Systems. & Components and Operations	
ID Hazard & Initiating Events	
Chapter 4 - ID Event Sequence	6/10/2014
Chapter 6 - ID Structures, Systems, & Components Important to Sefety	
	8/8/2014
Chapter 8 - ALARA	
Chapter 9 - Retrieval	
Chapter 10 - Decontamination & Demolition	
Abstract	
Executive Summary	9/10/2014
Introduction	
Glossary	
Conclusions	9/24/2014
Appendices - Not Applicable	

Milestone Achieved as of October 31, 2014	
CHAPTER MILESTONES CHAPTE	9103437
Chapter 1 - Multiple Barriers	
Chapter 2 - Scenarios (Features, Events, & Processes)	
Chapter 3 - Probability	
Chapter 5 - Mechanical Disruption of Engineered Barriers	
Chapter 6 - Water Chemistry & Barriers	
Chapter 7 - Radionucilde Release	
Chapter 8 - Climate & Infiltration	
Chapter 9 - Flow in the Unsaturated Zone	
Chapter 10 - Radionuclides in the Unsaturated Zone	
Chapter 11 - Flow in the Saturated Zone	
Chapter 12 - Radionuclides in the Saturated Zone	
Chapter 13 - Igneous Disruption	
Chapter 14 - Radionuclides in Groundwater	
Chapter 15 - Airborne Transport & Redistribution	
Chapter 16 - Biosphere	
Chapter 17 - Individual Protection	
Chapter 18 - Human Intrusion	
Chapter 19 - Groundwater Protection	
Chapter 20 - Expert Elicitation	
Abstract	
Executive Summary	
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Conclusions	
Appendices - Not Applicable	

Milestone Ac	Milestone Achieved as of October 31, 2014
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CHAPTER MILESTONES	1990 September
Volume 4: Review of Administrative and Programmatic Requirements	onts
Chapter 2 - Performance Confirmation Program Chapter 3 - Quality Assurance Program	9/10/2014
Chapter 6 - Key Positions	
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	
Chapter 12 - Uses of Geologic Repository Operations Area for Other Purposes	
Abstract	
Executive Summary	7/11/2014
Introduction	7/11/2014
Glossary	
Conclusions	9/10/2014
Appendices - Not Applicable	

