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 November 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 November 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 November 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 November 30, 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/doccollections/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 all of the milestones for the individual chapters in Volume 4 and expects to publish this volume in mid-December. The staff has completed the majority of the milestones for the chapters in Volumes 2 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. The staff has revised the volume milestone dates for the remaining volumes to better reflect their current status. These changes, which do not impact the January 2015 end date, are shown in the attachment. 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 December 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 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 \$289,000. The Commission has also directed that, pending a reassessment of available funding in December 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.

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

Nuclear Waste Fund Expenditures

During the month of November, the NRC expended \$493,640 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 \$8,452,056. The August 13, 2013, balance of \$13,549,315 of unexpended NWF funding, less the \$8,452,056, results in a remaining unexpended balance of \$5,097,259. Total unobligated NWF funds remaining as of November 30, 2014, are \$4,141,075. 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 De	ecision
Yucca Mountain Licensing Activities	Cost Estimate	November Expenditures	Cumulative Expenditures
Completion of the safety evaluation report	\$8,310,000	\$474,939	\$7,389,378
Loading of Licensing Support Network documents into a nonpublic ADAMS library	\$350,000	\$2,929	\$288,701
Development of the environmental impact statement supplement*	\$625,000	\$0	\$47,427
Program planning and support		\$15,581	\$360,631
Response to the August 30, 2013, Commission Order		\$ 0	\$137,518
Federal court litigation**		\$191	\$153,924
Support/Advice in NRC proceedings		\$0	\$35,535
Subtotal, other support costs chargeable to NWF funds	\$750,000	\$15,772	\$687,608
Adjustments to close out contracts funded by previous NWF appropriations		\$0	\$38,942
Total	\$10,035,000	\$493,640	\$8,452,056

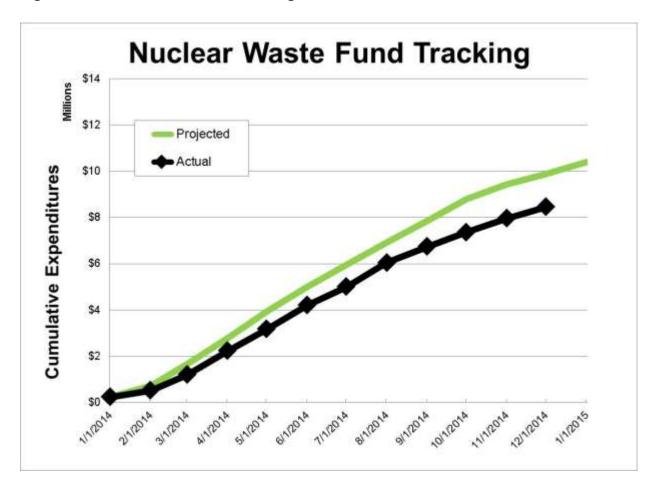
^{*} The estimate of \$625,000 for an adoption determination of a DOE-developed EIS supplement will be revised to account for an NRC-developed EIS supplement as part of the December 2014 reassessment of remaining NWF funds consistent with Commission direction.

The unexpended NWF fund balance of \$5,097,259 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 November 30, 2014, as given in Table 1.

^{**} 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. On October 23, 2014, the Court of Appeals for the District of Columbia Circuit denied the motion from other parties requesting reimbursement for attorneys' fees.

Figure 1. Nuclear Waste Fund Tracking



Stakeholder Communications and Interactions

No stakeholder communications or interactions occurred during November 2014.

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

Volume 2 - Volume 5

Milestone Achieved	ed as of Noven	as of November 30, 2014				
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CHAPTER MILESTONES	Indus Hers	ue/a	000	. 1	36,0	
Volume 2: Review of Repository Safety Before Permanent Closure	NEW YORK	28	0.00	3	2	
Chapter 2 - Description of Structures, Systems, & Components and Operations	423	365				
Chapter 3 - 1D Hazard & Initiating Events						
Chapter 4 - ID Event Sequence						
Chapter 5 - Consequences	3) (5					
Chapter 6 - 10 Structures, Systems, & Components Important to Safety						
Chapter 7 - Design of Structures, Systems, & Components			0.010		08/08/2014	I Taraba Garaga
Chapter 8 - ALARA						
Chapter 9 - Retrieval						
Chapter 10 - Decontamination & Demolition		33				
Abstract						
Executive Summary	25			***	09/10/2014	3.540
Introduction				120		
Glossary						
Conclusions		S.77		an	09/24/2014	
Appendices - Not Applicable					\	
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Status of Safety Evaluation Report (SER) Chapters and Volume Tasks

Volume 2 - Volume 5

Milestone Achieved as of November 30, 2014
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188 165 165 188 188 180 180 180 180 180 180 180 180
Volume 3: Review of Repository Safety After Permanent Closure
Chapter 7 - Radionuclide Release
Chapter 9 - Flow in the Unsaturated Zone
Chapter 10 - Radionuclides in the Unsaturated Zone
Chapter 11 - Flow in the Saturated Zone
Chapter 12 - Radionucides in the Saturated Zone
Chapter 13 - Igneous Disruption
Chapter 14 - Radionuclides in Groundwater
Chapter 15 - Airborne Transport & Redistribution
Chapter 16 - Blosphere
Chapter 17 - Individual Protection
Chapter 18 - Human Intrusion
Chapter 19 - Groundwater Protection
Chapter 20 - Expert Elicitation
Abstract
Executive Summary
Introduction
Glossary
Conclusions
Appendices - Not Applicable

Status of Safety Evaluation Report (SER) Chapters and Volume Tasks Volume 2 - Volume 5

	Milestone Achieved as of November 30, 2014
CHAPTER MILESTONES	SHOT SEE SEGGES SEE SEGGES SEES SEGGES SEGGE
Volume 4: Review of Administrative and Programmatic. Chapter 1 - Research & Development Program to Resolve Safety Ou Chapter 2 - Performance Confirmation Program Chapter 3 - Quality Assurance Program	Requirements resions

Volume 4: Review of Administrative and Programmatic Requirements	nts
Chapter 1 - Research & Development Program to Resolve Safety Questions	
Chapter 2 - Performance Confirmation Program	
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	
Chapter 12 - Uses of Geologic Repository Operations Area for Other Purposes	
Abstract	
Executive Summary	
Introduction	
Glossary	
Conclusions	
Appendices - Not Applicable	

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

Volume 2 - Volume 5

