

**U.S. Nuclear Regulatory Commission Monthly Status Report
Activities Related to the Yucca Mountain Licensing Action
Report for February 2015**

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, prepared and issued Volumes 2, 3, 4 and 5 of the safety evaluation report (SER) over the course of a year, completing the last volumes in January 2015. All of these documents are available on the NRC’s website at <http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1949/>. The NRC also distributed the documents to the participants in the adjudicatory proceeding and other interested stakeholders.

Completion of the SER cost an estimated \$8.3 million. The staff will have a more accurate accounting of the SER completion cost after the remaining invoices from the Center for Nuclear Waste Regulatory Analyses are paid over the coming months.

In December 2014, the staff provided the Commission with its assessment of available remaining funding from the Nuclear Waste Fund. The assessment (COMSECY-14-0041, “Yucca Mountain Project Activities,” dated December 24, 2014), which includes a description of proposed work, is available on the NRC’s website at <http://pbadupws.nrc.gov/docs/ML1506/ML15062A495.html>. On February 3, 2015, the Commission responded to the COMSECY by approving the staff’s recommendations to develop an environmental impact statement (EIS) supplement and undertake certain SER “wrap-up” activities, including records retention and the development of lessons-learned reports. The Commission also approved a path forward for making Licensing Support Network (LSN) documents publicly available. The Commission’s staff requirements memorandum (“Staff Requirements – COMSECY-14-0041 – Yucca Mountain Project Activities”) is available on the NRC’s website at <http://pbadupws.nrc.gov/docs/ML1503/ML15034A086.pdf>.

Schedule and Cost for Remaining Activities

The staff has developed and the Commission has approved a schedule and revised cost estimate for completing the EIS supplement that the staff has determined is needed for the review of DOE’s application under the National Environmental Policy Act and the Nuclear Waste

Policy Act. The staff estimates that it will take a period of 12-15 months at an approximate cost of \$2 million to complete the EIS supplement (see Table 1 on the following page). In developing the supplement, which will be limited to addressing certain topics related to groundwater impacts from the proposed repository, the staff will use a technical report developed by DOE and available through the NRC's website at <http://pbadupws.nrc.gov/docs/ML1430/ML14303A393.pdf>.

The Commission has also approved the staff's recommendation to proceed with SER "wrap-up" activities. The specific activities are document retention and management, including the archiving of documents used in preparing the SER, and the development of lessons-learned reports about aspects of the licensing process. The staff estimates that it can complete these activities in approximately 1-2 months at a cost of approximately \$100,000.

The Commission has also directed that the LSN document collection be loaded into a publicly accessible library in the Agencywide Documents Access and Management System (ADAMS) with enhanced search capability. It is estimated that this task can be completed in 6-8 months at a cost of approximately \$1.1 million. This activity would not begin until the fall of 2015, after verification that sufficient funding is available.

The staff previously estimated 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, would require approximately \$750,000 over the course of the SER project. As shown in Table 1, actual costs for these activities as of February 28, 2015, are approximately \$763,000. To accommodate the EIS supplement and wrap-up activities described in this report, the staff has estimated that an additional \$75,000 will be needed for these supporting activities.

The total estimated cost for the work completed as of February 28, 2015, is approximately \$9.5 million. As described above, the estimate for work remaining (EIS supplement, SER wrap-up activities, and loading LSN documents) is approximately \$3.2 million.

Nuclear Waste Fund Expenditures

During the month of February, the NRC expended \$175,569 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 \$9,433,754. The August 13, 2013, balance of \$13,549,315 of unexpended NWF funding, less the \$9,433,754, results in a remaining unexpended balance of \$4,115,561. Total unobligated NWF funds remaining as of February 28, 2015, are \$3,387,957. The following table provides further details regarding the NRC's expenditure of NWF funds since August 13, 2013.

Yucca Mountain Licensing Activities	Cost Estimate	February Expenditures	Cumulative Expenditures
Completion of the safety evaluation report	\$8,310,000	\$152,478	\$8,292,207
Loading of Licensing Support Network documents into a nonpublic ADAMS library	\$350,000	\$2,482	\$280,152
Loading of Licensing Support Network documents into a public ADAMS library	\$1,100,000	\$0	\$0
Development of the EIS supplement*	\$2,000,000	\$10,760	\$58,187
SER wrap-up activities	\$100,000	\$1,122	\$1,122
Program planning and support		\$8,587	\$435,456
Response to the August 30, 2013, Commission order		\$0	\$137,518
Federal court litigation**		\$140	\$154,635
Support and advice in NRC proceedings		\$0	\$35,535
Subtotal, other support costs chargeable to NWF funds***	\$825,000	\$8,727	\$763,144
Adjustments to close out contracts funded by previous NWF appropriations		\$0	\$38,942
Total	\$12,685,000	\$175,569	\$9,433,754

*Updated estimate for NRC staff to complete the EIS supplement, including issuing a draft for public comment, holding public meetings, and completing a final document responding to comments.

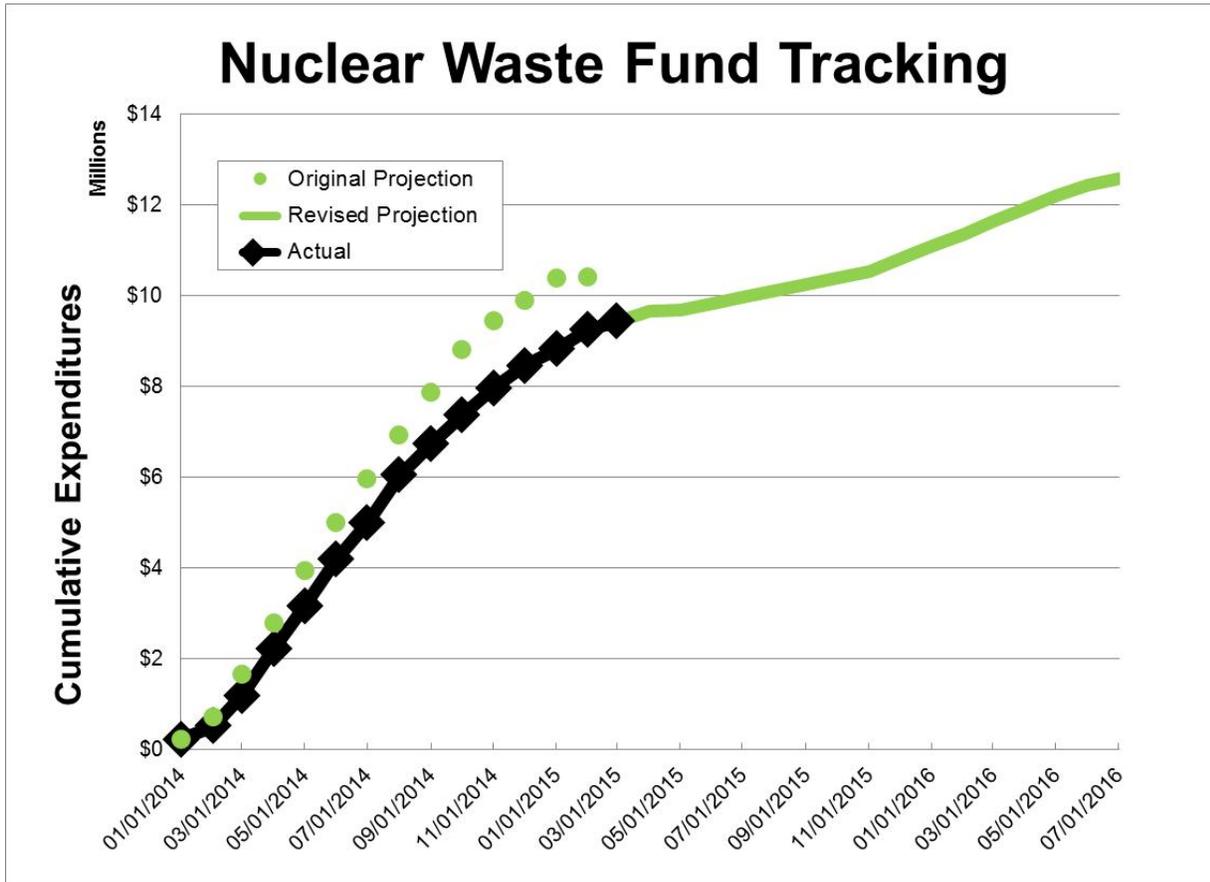
**Includes a \$59,000 expenditure in May 2014 for the agency's agreement to settle the Equal Access to Justice Act claim of one of the *Aiken County* petitioners. On October 23, 2014, the Court of Appeals for the District of Columbia Circuit denied the motion from other parties requesting reimbursement for attorneys' fees.

***Updated estimate includes an additional \$75,000 for programmatic activities indirectly supporting the EIS supplement, wrap-up activities, or LSN activities.

The unexpended NWF fund balance of \$4,115,561 includes \$239,199 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 February 28, 2015, as given in Table 1.

Figure 1. Nuclear Waste Fund Tracking



Stakeholder Communications and Interactions

No stakeholder communications or interactions occurred during February 2015, beyond responding to inquiries related to the NRC's issuance of the SER volume and release of the Commission decision on remaining activities.