

Options for Loading and Maintaining Licensing Support Network Documents In Public ADAMS

In accord with the Commission's direction in CLI-13-8, 78 NRC 219, 230 (2013), and the associated November 18, 2013, Staff Requirements Memorandum (SRM)¹, the documentary material from the various parties to the high-level waste (HLW) adjudicatory hearing, other than the NRC staff, that was accessible via the Licensing Support Network (LSN) at the time that system was decommissioned has been loaded into a nonpublic ADAMS library. That documentary material is accessible to internal agency users via the nonpublic ADAMS LSN library. Additionally, (b) (4) Search Engine (i.e., the Option 2 search described below) has been applied to the nonpublic ADAMS LSN library to provide internal agency users with enhanced search capabilities.

Per the direction in the Commission's May 19, 2014, SRM², outlined below are two Office of Information Services-provided options for making the LSN document collections, including the staff's LSN documents, available in a single library in public ADAMS. Both options entail modifying the existing public ADAMS to accommodate access to, and allow searching of, the LSN documents. Each of the two options comprises a publish step and a public access step.

Option 1: In the publish step, the content of the existing nonpublic ADAMS LSN library, along with the staff's LSN documents that are in public ADAMS, would be published to a new LSN library in public ADAMS. In the public access step, the content of the LSN library in public ADAMS would be made available to the parties to the HLW adjudication and the public for searching and viewing. This option would provide the basic searching capabilities that are already available in public ADAMS (i.e., linear search capabilities that would access the basic content and metadata of the documents).

Option 2: Under this option, the publish and public access steps would be the same as Option 1, except that enhanced search indexes would be created using the (b) (4) Search Engine to allow for advanced (i.e., Boolean search and search-within-search) capabilities.

Under both options, to implement the publish and public access steps, time and resources would be needed for development, testing, deployment, and conducting a security impact analysis. The security impact analysis would seek to determine whether and how the changes made to ADAMS caused by implementing the chosen option would affect the overall security of ADAMS and any connected NRC information systems.

Because all of the documents provided to the NRC by the parties to the Yucca Mountain adjudication were previously publicly available, there are no plans to perform the standard ADAMS document review to identify and preclude the release of Sensitive Unclassified Non-Safeguards Information prior to making the existing LSN collection public, and the current estimate assumes no such review. With regard to DOE documents, which make up most of the current LSN collection, DOE confirmed in a letter dated November 18, 2014 (ML14325A832)

¹ Staff Requirements—SECY-13-0113—Memorandum and Order Concerning Resumption of Yucca Mountain Licensing Process, dated November 18, 2013 (ML13322A007).

² SRM-COMSECY-14-0013, Staff Requirements – COMSECY-14-0013 – Yucca Mountain Project Activities, dated May 19, 2014 (ML14139A264).

that all of its LSN documents or headers in the NRC's possession can be made publicly available.

Each of these options includes annual recurring costs for maintaining the system, including software licenses. Expenses associated with the long-term maintenance of LSN documents in public ADAMS would be paid using regular NRC fee-based appropriations. (b) (5)

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(b) (5) All of the parties' LSN documents are now NRC official agency records and must be preserved in compliance with National Archives and Records Administration requirements and other applicable laws.

Relative to the timing of any decision on whether and when to create, load, and make accessible the public ADAMS LSN library, the Atomic Safety and Licensing Board Panel notes that if the adjudicatory hearing associated with licensing the Yucca Mountain repository were to be reinstated, not having the public ADAMS LSN library in place at the time of restart would create the substantial likelihood that the discovery process will be delayed and/or extended.

The pros and cons of the two options are listed below:

	Option 1	Option 2
Pros	<ul style="list-style-type: none">• Less expensive than Option 2• Faster to implement than Option 2	<ul style="list-style-type: none">• Would provide advanced Boolean and search-within-search capabilities that would provide the parties to the HLW adjudication and the public with accessibility to this discovery database of more than 3.66 million documents that more closely resembles what was available via the LSN's search engine• Once implemented under this option, the enhanced (b) (4) Search would be available without additional cost for all searches made in public ADAMS
Cons	<ul style="list-style-type: none">• Would provide linear searches only, using basic content and meta-data searches that would provide the parties to the HLW adjudication and the public with accessibility to this discovery database of more than 3.66 million documents that is less dynamic than what was available via the LSN's search engine and could require additional agency support to assist users in finding documents	<ul style="list-style-type: none">• Would take more time (approximately 1 to 3 additional months) to implement than Option 1• More expensive than Option 1, primarily because of the search engine licensing requirements

Below is a breakdown of the costs and timing necessary to implement each option, including the annual costs associated with continuing maintenance of such a public records database.

Cost of Loading and Storage (applies to both options)	Funding Source	
	NWF	Fee-based
Annual cost (for first year and annually thereafter) to lease and maintain additional servers to house LSN documents	(b) (4)	
First year (one-time) cost to deploy and configure servers for testing and publishing process, including security impact analysis		
Option 1 (for searching and access)		
Costs to modify public ADAMS to accommodate and allow searching of LSN documents	(b) (4)	
Total first-year funds required for Option 1	\$385,000	\$87,000
Total annual funds required for Option 1 after first year	\$0	\$127,000
Total implementation duration: 5 to 7 months, which is highly dependent on length of security authorization process		
Option 2 (for searching and access)		
Annual cost (for first year and annually thereafter) to acquire additional servers providing enhanced search capabilities	(b) (4)	
Costs to acquire licenses for new servers (b) (4)		
First year (one-time) cost to install, maintain, and conduct additional security impact analysis for additional servers		
Total first-year funds required for Option 2	\$1,045,000	\$165,000
Total annual funds required for Option 2 after first year	\$0	\$321,000
Total implementation duration for Option 2: 6 to 8 months, which is highly dependent on length of security authorization process		