



Department of  
Comprehensive Planning  
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May 16, 1995

**TO: LICENSE SUPPORT SYSTEM ADVISORY REVIEW PANEL (LSSARP)**

The License Support System Advisory Review Panel (LSSARP), Technical Working Group (TWG), met on May 12, 1995 at the Nuclear Regulatory Commission (NRC) in White Flint, Maryland. The primary agenda for this meeting was to finalize a comprehensive list of Phase 1 Functional Requirement recommendations to the LSSARP.

The final draft version of the Phase 1 Functional Requirements document is attached for your review and comment. Please provide your comments to:

Mr. John Hoyle  
LSSARP Chairman  
U.S. Nuclear Regulatory Commission  
Mail Stop 16 H3  
Washington, D.C. 20555  
Phone (301) 415-1968  
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Sincerely,

A handwritten signature in black ink, appearing to read 'Roger Hardwick'.

**ROGER HARDWICK**  
Principal Planner

RH/al  
attachments

27lssarp.rh

**COMMISSIONERS**

Yvonne Atkinson Getes, Chair • Paul J. Christensen, Vice-Chairman  
Jay Bingham, Lorraine Hunt, Erin Kenny, Myrne Williams, Bruce L. Woodbury  
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**LICENSING SUPPORT  
LEVEL 1  
FUNCTIONAL REQUIREMENTS**

**MAY 12, 1995**

As defined at the Licensing Support System Advisory Review Panel (LSSARP), Technical Working Group (TWG) meeting on May 12, 1995 at the Nuclear Regulatory Commission (NRC) offices, here are the System Level 1 Functional Requirements for the LSS:

**[LSS1-001]**

LSS components shall be integrated using modular design techniques and well-documented interfaces which allow new components to be integrated into the system without seriously impacting other components.

**[LSS1-002]**

The LSS shall adhere to established government and/or industry hardware and software standards to the extent feasible.

**[LSS1-003]**

The LSS shall provide an electronic information exchange function to facilitate communications between authorized users. This function shall allow users to transmit and receive electronic documents (e.g. motions, filings, orders, decisions, etc.). Each user shall have a corresponding electronic message center to receive and store electronic correspondences. {2.1002 (a), 2.1013 (c)(1)}

**[LSS1-004]**

The LSS shall be capable of accepting electronically formatted documentary materials. Within the LSS there must be a concept of a records package and the records package grouping must be logically accessible. {2.1003 (a)(1), 2.1003 (b)(1)}

**[LSS1-005]**

The LSS shall provide the capability to recognize characters from the digital image of a document and convert these characters into a standard text representation of the document. This optical character recognition function shall achieve character recognition accuracies that are achievable with the best commercial products available at the time of the LSS system design. {2.1003 (a)(1), 2.1003 (b)(1)}

**[LSS1-006]**

The LSS shall have the capability to create a digital image of each page of a document. {2.1003 (c)(1)}

[LSS1-007]

Documentary material not suitable for imaging and conversion to a standard text file shall be identified with a header that includes a reference to the storage location of the material. This reference shall be descriptive enough for users to identify the location of the material and how to access the material. {2.1003 (c)(2)}

[LSS1-008]

The LSS shall include a function that allows document submitters to verify that document information entered into the LSS data base is identical to the document information submitted to the LSS Administrator.

[LSS1-009]

The LSS shall provide a function to allow all users to detect that subsequent revisions to a document exist. {2.1004 (b)(3), 2.1004 (c)(2)}

[LSS1-010]

The LSS shall be accessible from the following locations as a minimum:

- DOE Headquarters, Washington DC
- DOE Project Office, Las Vegas, NV
- NRC Headquarters, White Flint, MD
- NRC Region 1 Office, King of Prussia, PA
- NRC Region 2 Office, Atlanta, GA
- NRC Region 3 Office, Glenn Ellyn, IL
- NRC Region 4 Office, Arlington, TX
- NRC Uranium Recovery Field Office, Denver, CO
- Las Vegas, NV
- Reno, NV
- Carson City, NV
- Nye County, NV
- Lincoln County, NV

{2.1007(a)(1), 2.1007(a)(2), 2.1007(a)(3)}

[LSS1-011]

The LSS shall provide one of two search and retrieval modes depending upon whether a notice of hearing on the high-level waste license application has been issued:

*Prior to notice* - Full-text search of each field in the bibliographic headers and retrieval of the header and associated image.

*After notice is issued* - same as above plus full-text search of the standard text files.

Given concurrence of the LSS Advisory Review Panel, the latter search mode can be provided prior to the hearing notice. {2.1007(a)(1), 2.1007(a)(2), 2.1007(a)(4), 2.1007(a)(5)}

**[LSS1-012]**

The LSS shall be capable of electronically storing and retrieving the bibliographic headers in the system. {2.1007(a)(1), 2.1007(a)(2), 2.1007(a)(4)}

**[LSS1-013]**

The LSS shall be capable of electronically storing and retrieving document text. {2.1007(a)(5), 2.1007(c)(1)}

**[LSS1-014]**

The LSS shall be capable of electronically storing and retrieving the digital image associated with each page in a document. {2.1007(a)(5), 2.1007(c)(2)}

**[LSS1-015]**

Potential parties, interested governmental parties, and parties who access the LSS from locations other than those listed in requirement [LSS1-010] and those specified by the Administrator shall be provided full text search capability through dial-up access at the requester's expense. {2.1007(c)(1)}

**[LSS1-016]**

Potential parties, interested governmental parties, and parties who access the LSS from locations other than those listed in requirement [LSS1-010] and those specified by the Administrator shall be provided access to images at the requester's expense. {2.1007(c)(2)}

**[LSS1-017]**

Potential parties, interested governmental parties, and parties who access the LSS from locations in addition to those listed in requirement [LSS1-010] shall be capable of electronically requesting a paper copy of a document at the time of search. {2.1007(c)(3)}

**[LSS1-018]**

The system shall provide the LSS Administrator with the necessary tools to ensure LSS availability and the integrity of the LSS data base. {2.1011(d)(7)}

**[LSS1-019]**

The system shall provide the LSS Administrator with the necessary tools to ensure the security of the LSS. The electronic information exchange function shall provide password protection for all documents transmitted electronically. {2.1011(d)(9)}

**[LSS1-020]**

The LSS shall provide tools to assist the user in retrieving documents when the unique identifiers for the documents are not known to the users. Examples might include synonym processing, thesaurus, natural language queries, or other search aids. {2.1011(d)(11)}

**[LSS1-021]**

The LSS must have capture functionality and the capability to validate material submitted in required electronic form. {2.1011(d)(11)}

[LSS1-022]

The LSS shall provide a user interface that is consistent with the acceptable user interfaces available at the time of the LSS design. {2.1011(f)(2)(v)}

[LSS1-023]

The LSS shall have a function that assists the LSS Administrator in identifying duplicate documents. {2.1011(f)(2)(v)}

[LSS1-024]

The electronic information exchange function shall provide for an electronic acknowledgement that mail has been delivered to the recipient's electronic message center. The acknowledgement shall include as a minimum, the name and address of the recipient and the date the electronic mail was delivered. {2.1013(c)(3)}. 2.1013(c)(4)(i)}

[LSS1-025]

System Definition -- The totality of hardware, software, communications, data, processes and procedures dedicated to providing document intake, storage, searching, retrieving, and delivery to the users of the headers, text and images as detailed in the mission statements found in 10 CFR 2, Subpart J.

[LSS1-026]

The system shall be able to load transcripts from proceedings and transcripts from depositions. {2.1013, 2.1019}

[LSS1-027]

The LSS will include the capability to catalog records packages and link the bibliographic headers for the records package and the bibliographic headers for the components of the package. {2.1003}

[LSS1-028]

The LSS must accommodate a protective order file, the access to which is provided only under authorization by the presiding officer. {2.1013}

[LSS1-029]

The LSS must be able to provide a mechanism that will allow retrieval and display of pages of text with the associated images.