

Licensing Support Network Advisory Review Panel Meeting

June 3-4, 2003





Agenda

- ***LSNARP Chairman's Opening Remarks***
- *NRC Organizational Responsibilities and Roles*
- *LSN Administrator Report on Status of LSN*
- *Panel Discussion; Questions and Answers*
- *Alternatives for High-Level Waste Electronic Docket Documents*
- *Panel Discussion*
- *Draft Guidance for Submission of Electronic Docket Materials*
 - *Technical Specifications*
 - *Electronic Submittal Instructions*
 - *EIE Process*
- *Summary and Panel Discussion*
- *Discussion of LSN Rule Issues*
- *Update on Digital Document Management System (DDMS)*
- *Open Discussion and Public Comments*

LSNARP Chairman's Opening Remarks

Andy Bates

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NRC Organizational Responsibilities and Roles

John J. Linehan

High Level Waste Business and Program Integration

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Atomic Safety & Licensing Board Panel (ASLBP)

- *Conducts all licensing and other hearings as directed by the Commission*
- *LSN Administrator is responsible for the design, construction, and operation of:*
 - *Licensing Support Network (LSN), the electronic, web-based discovery database for the high-level waste repository licensing proceeding*
 - *Digital Data Management System (DDMS), which will support digital information retrieval, utilization, and display in a hearing room environment*



ASLBP Contacts

LSN and DDMS

Dan Graser

LSN Administrator

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Office of the Secretary (SECY)

- *Required to maintain an Electronic Hearing Docket (EHD) for any proceeding on the DOE application for a license to receive and possess high-level radioactive waste at a proposed geologic repository at Yucca Mountain*
- *Chairs the LSNARP*



SECY/LSNARP Contacts

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LSNARP

Dr. Andrew L. Bates

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LSNARP*

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Office of the Chief Information Officer (OCIO)

- *Integrate and support a suite of software applications and information technology (IT) infrastructure required for the high-level waste proceeding*
- *Process and make electronically available information relevant to the high-level waste proceeding*



OCIO Contacts

IT Systems and Infrastructure

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Document Submission and Processing

Lynn Scattolini

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Management Division*

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Office of the General Counsel (OGC)

- *Provides legal advice to and representation of the NRC, including the Commission and its regulatory staff*



OGC Contact

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Senior Attorney
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Office of Nuclear Material Safety and Safeguards (NMSS), Division of Waste Management (DWM)

- *Regulates the U.S. Department of Energy (DOE) to assure safety of a proposed high-level waste geologic repository*
- *Performs an independent evaluation of any license application submitted by DOE*
- *Protects public health and the environment, and ensures safety*



NMSS/DWM Contact

Janet R. Schlueter

Chief, NMSS/DWM/High-Level Waste Branch

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High Level Waste Business and Program Integration Staff (HBPI)

- *Responsible for assuring integration of all programmatic and Information Technology/ Information Management elements necessary to support the high-level waste (HLW) licensing process*
- *Serves as spokesperson on programmatic and information technology/information management matters for all staff activities related to the HLW licensing process*



HBPI Contact

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LSN Administrator's Report on Status of the LSN

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Guidelines

- *Optical Character Recognition (OCR) guideline standards revised*
 - *Target 95% on OCR conversion from an image*
 - *Target 100% on rendering from authoring software (word processing, etc.) to PDF*
 - *LSNA reports will be based on word counts*
- *Editorial changes*
 - *Document searching guideline*
 - *Passwords guideline*
 - *Table of Contents*
 - *Acronym list*



Version 2.3 Redesign Features

- *Improved security and reliability (e.g., SQL server failover capability)*
- *Ability to process larger document sets (e.g., DOE collection)*
- *Enhanced audit capability to identify anomalies (e.g., broken URLs)*
- *XML header generator is still available via LSN*



Spider

- ***Part of the combined system making documentary materials electronically available to the parties, potential parties & interested governmental participants***
- ***Multiple “threads” parse headers & content files***
 - ***Builds indexes and pointers without which documents are not electronically accessible***
- ***Constrained by communications, speed of servers, volume of transactions***
 - ***Tuned to be in harmony with speed of LSN index build database***
- ***Current capacity range is 10,000-25,000 documents per day (all parties)***
 - ***Throughput varies according to collection and individual document attributes***
- ***Capacity estimates for daily processing:***
 - ***Conservative is 10,000 documents***
 - ***Baseline target is 20,000 documents***
 - ***Optimal is 25,000 documents***



Testing of New Components

- *Search engine page capacity – 15 million pages*
- *Crawler capacity – 100,000 documents over a 5-day week for planning purposes*



Administrative Module

- *Revised to add security for remote access*
 - *CD-resident client-side components required to activate*



Training

- ***November 2003 workshop at meeting of Nevada state librarians in Lake Tahoe***
 - *All libraries in state have Internet access available to public*
 - *Training tools include updated Quick Start Reference Sheet, CD-ROM tutorial, LSN Brochure*
- ***Similar products available for parties and participants***
 - *LSN staff available to train core groups*
 - *Scheduling & coordination needed*



Participant Collection Projections

- *NRC – 35,000 docs / 805,000 pages*
- *DOE –*
 - *Low end 3,000,000 docs / 27,500,000 pages*
 - *High end 4,000,000 docs / 36,500,000 pages*
- *Nevada – 0 docs / 0 pages*
- *Nye – 1,000 docs / 1,000 pages*
- *Other parties – 1,000 docs / 10,000 pages*

Total range: 3,037,000 docs / 28,316,000 pages
4,037,000 docs / 37,316,000 pages



Planning for Growth

- *Have requested FY 2003 and FY 2004 funds to re-architect platform*
 - *Scale from 15 million to 45 million pages*
 - *Target operational by December 2003*
- *Effort to further enhance speed of spider in FY 2003 is partially covered by current FY budget*



LSN Operations

- ***Lincoln County, White Pine County, NEI, and NRC have started populating collections***
 - ***NRC documents on LSN have been screened for Homeland Security***
 - ***NRC's screening process will be ongoing as materials are added to collection***
- ***These four collections are available via the LSN as of May 29, 2003***
- ***LSNA monitoring participant activities for -***
 - ***DOE***
 - ***Nye County***
 - ***Clark County***
 - ***Eureka County***
 - ***City of Las Vegas***



Points of Contact

<p><i>LSN Administrator:</i> <i>Dan Graser</i> <i>(301) 415-7401</i> <i><u>DJG2@nrc.gov</u></i></p>	<p><i>LSN Project Manager:</i> <i>Matt Schmit</i> <i>(301) 415-7469</i> <i><u>MRS3@nrc.gov</u></i></p>
<p><i>LSN Auditor:</i> <i>Joe Turner</i> <i>(301) 415-7410</i> <i><u>JXT1@nrc.gov</u></i></p>	<p><i>LSN Info. Mgt. & Training:</i> <i>Margie Janney</i> <i>(301) 415-7245</i> <i><u>MAJ@nrc.gov</u></i></p>

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Alternatives for High-Level Waste Electronic Docket Documents

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Outline

- *Introduction*
- *Challenges of Large Documents*
- *Functional Areas of Large Documents*
- *Summary of the Alternatives*
- *Recommended Approach*
- *Background Slides*



Introduction

- *10 C.F.R. 2, Subpart J, requires an electronic docket for the Yucca Mountain adjudicatory proceeding*
- *The Electronic Hearing Document (EHD) is separate from the Licensing Support Network*
- *NRC expects to receive large electronic files associated with the high-level waste (HLW) adjudicatory proceeding*
- *The following evaluation applies to electronic submission of materials to the EHD by all participants in the HLW proceeding*



Why Are There Document Challenges?

- *Documents are voluminous*
- *Documents are complex*
- *Documents need to be used by stakeholders for different purposes in different user environments*



What Are The Document Challenges?

- *Ability to transmit electronically through Electronic Information Exchange (EIE)*
- *Ability to ensure fidelity and integrity*
- *Ability to store as official agency record*
- *Ability for users to search and navigate across the document in its entirety while still being able to view and download pages in a timely manner*
- *Ability to produce paper copies when requested*



Document Lifecycle Information Management Functional Model

■ *Transmit*

- *Activities that transmit a submittal from submitter to the NRC*
- *Submittals will be either electronic format or physical object (e.g., hardcopy, core sample)*
- *Electronic submittal either through EIE, optical storage media, email, or fax*

■ *Capture*

- *Activities related to the receipt of an electronic submittal*
- *Notifications provided according to approved service list*
 - *EIE notifications include a link to the just-received object*
 - *Optical storage media notifications state how it was sent and expected delivery date*
- *Submittal staged for additional processing, such as indexing, scanning, etc.*



Document Lifecycle Information Mgmt. Functional Model (cont.)

■ *Index & Cross-Reference*

- *Submittal indexed based on prescribed profile templates*
- *Submittal may be cataloged as part of package or compound document*
- *Submittal may have cross references to other documents*

■ *Store*

- *Activities that manage storage location of submittal*
 - *If electronic submittal, location within folder or larger collection*
 - *If optical storage media, location of media*
- *Activities also include maintaining security and audit controls, document history, and maintaining retention schedule*



Document Lifecycle Information Mgmt. Functional Model (cont.)

■ Search & Retrieve

- *Activities that support query and display of data and text, followed on by the display of the pertinent object(s)*
- *Manage electronic file viewers (such as Adobe® Reader®), to provide rapid display of text pages (e.g., “byte serving”)*

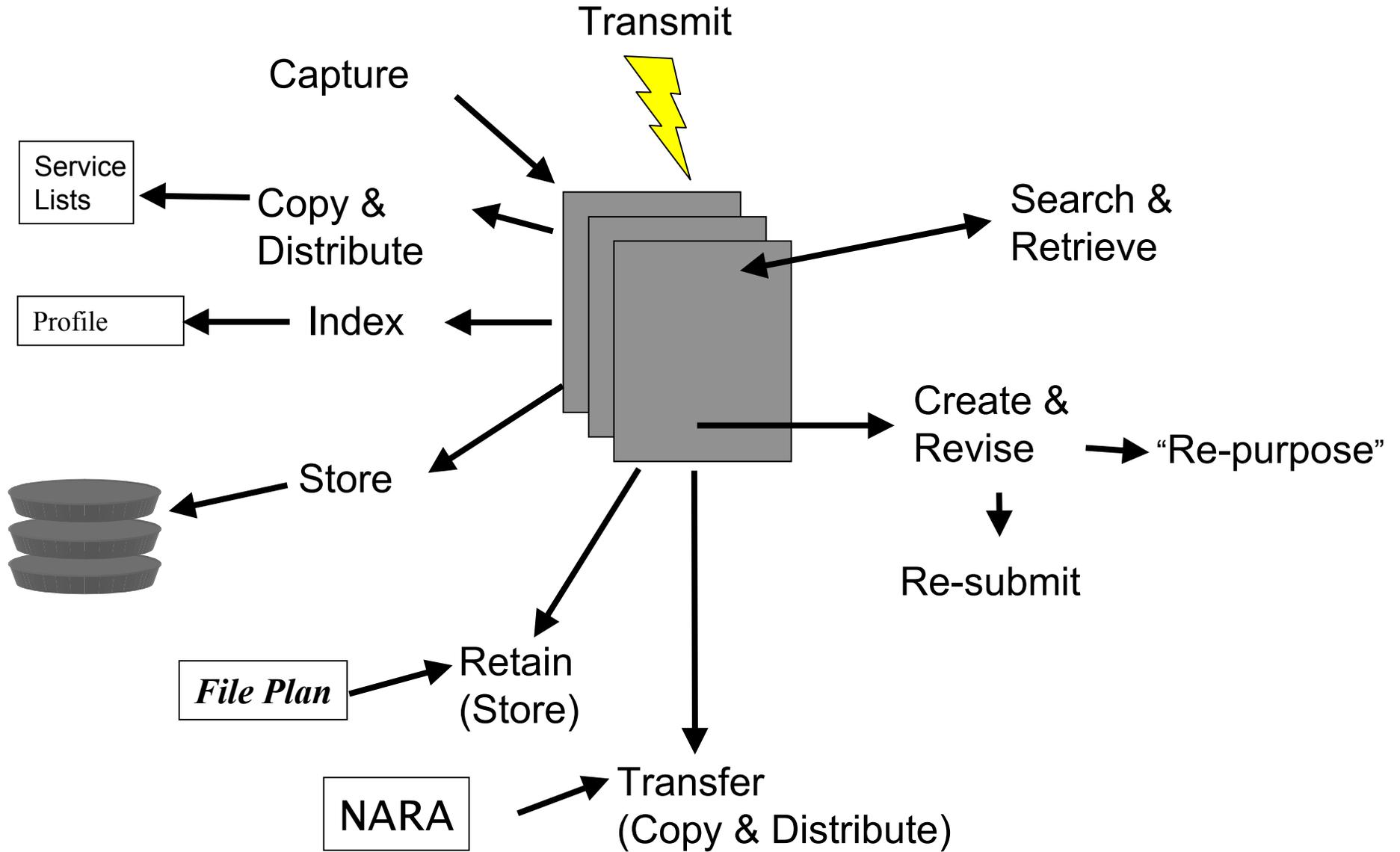
■ Create & Revise

- *Activities that create or revise documents, whose content has been extracted (“copied and pasted”) from original submittals*

■ Copy & Distribute

- *Activities that provide the means to copy or download a submittal and then distribute that information to appropriate parties or individuals*
- *Provides receipt acknowledgement for distribution*
- *Activities include transfer to National Archives*

Summary of the Document Lifecycle Functional Model





Alternatives Analysis

- *Evaluated various technical approaches*
- *Identified four alternative approaches*
- *Basic concepts for each alternative:*
 - *Electronic transmission of submittals to NRC via Electronic Information Exchange (EIE)*
 - *NRC will enter the submittals into its document management system*
 - *Submittals will be available to the participants and public, as appropriate*



Alternative 1

(Single File Submittal via EIE)

- *Documents and images sent through EIE as single file*
- *EIE web-form serves as transmittal letter*
- *NRC captures large files as single units*
- *Email, with link to file, sent to service list for immediate access*
- *File made available (as appropriate) via the Electronic Hearing Docket*
- *Can search on bibliographic headers, content, or combination of both*
- *Provides online retrieval of document*
- *Positives:*
 - *Satisfies electronic transmission requirements*
 - *Textual submittal is single optimized Portable Document Format (PDF) file with internal document navigation*
- *Negatives:*
 - *Impractical to combine many different file types*
 - *Alternative file formats not easily accommodated*
 - *Submission may take days; service interruptions possible*
 - *Retrieval problems for users*



Alternative 2

(Optical Storage Media Submittal)

- *All electronic files transmitted via optical storage media, overnight expressed*
- *Transmittal letter is only file transmitted through EIE*
- *Email with link to transmittal letter sent to service list*
- *All text-based components rendered as optimized PDF files*
- *Each report extracted from optical storage media and made available to the EHD*
- *EHD bibliographic header record describes optical storage media*
- *Positives:*
 - *Avoids potential problems associated with submitting large files via EIE*
 - *Accommodates alternative file formats*
- *Negatives:*
 - *Does not meet electronic service requirements*
 - *Manual interface required to extract profile, and store files means additional processing time and availability*
 - *Slight delay in receiving optical storage media*



Alternative 3

(Electronic Segment Submittal via EIE)

- *Documents, images, codes, etc. sent through EIE as segmented files*
- *Transmittal letter sent via EIE*
- *All text-based components rendered as optimized PDF files*
- *Email, with link to file, sent to service list for immediate access*
- *NRC makes the segmented files available (as appropriate) to the EHD as a “package”*
- *Can search on bibliographic headers, content, or combination of both*
- *Positives:*
 - *Satisfies electronic transmission requirements*
 - *Segmentation divides large submittal into manageable parts for search and retrieval*
- *Negatives:*
 - *Alternative file formats not easily accommodated*
 - *Electronic submission via EIE may take days to transmit*
 - *May not be able to logically segment complex documents, such as computer codes*



Alternative 4 (Combination Submittal)

- *Combines approach of Alternatives 2 and 3*
 - *Submitting segmented files via EIE*
 - *Submitting physical/complex objects via optical storage media*
- *Text-based and some graphic-oriented components rendered in optimized PDF*
- *Transmittal letter identifies files on EIE and optical storage media*
- *Email, with link to EIE files, sent to service list for immediate access*
- *Positives:*
 - *Provides for complete submission*
 - *Electronically sends files capable of logical segmentation via EIE*
 - *Sends complete submission on optical storage media*
 - *Segmentation divides submittal into manageable parts*
- *Negatives:*
 - *Careful processing needed to maintain integrity of various submittal components*
 - *Slight delay in receiving optical storage media*
 - *Only partially satisfies electronic transmission requirements*

Alternatives Comparison

<i>Functional Area</i>	<i>Alternative 1 Single File Submittal</i>	<i>Alternative 2 Optical Storage Media Submittal</i>	<i>Alternative 3 Electronic Segment Submittal</i>	<i>Alternative 4 Combination Submittal</i>
<i>Transmit</i>	<i>A</i>	<i>B</i>	<i>A</i>	<i>B</i>
<i>Capture</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>A</i>
<i>Index & Store</i>	<i>C</i>	<i>A</i>	<i>B</i>	<i>A</i>
<i>Search</i>	<i>C</i>	<i>A</i>	<i>A</i>	<i>A</i>
<i>Retrieve</i>	<i>C</i>	<i>B</i>	<i>A</i>	<i>A</i>
<i>Create & Revise</i>	<i>C</i>	<i>B</i>	<i>A</i>	<i>A</i>
<i>Copy & Distribute</i>	<i>C</i>	<i>B</i>	<i>B</i>	<i>A</i>
<i>Overall</i>	<i>No Go</i>	<i>Possible</i>	<i>Possible</i>	<i>Recommended</i>

<i>Rank</i>	<i>Meets Functional Area</i>
<i>A</i>	<i>Best</i>
<i>B</i>	<i>Some</i>
<i>C</i>	<i>Least</i>

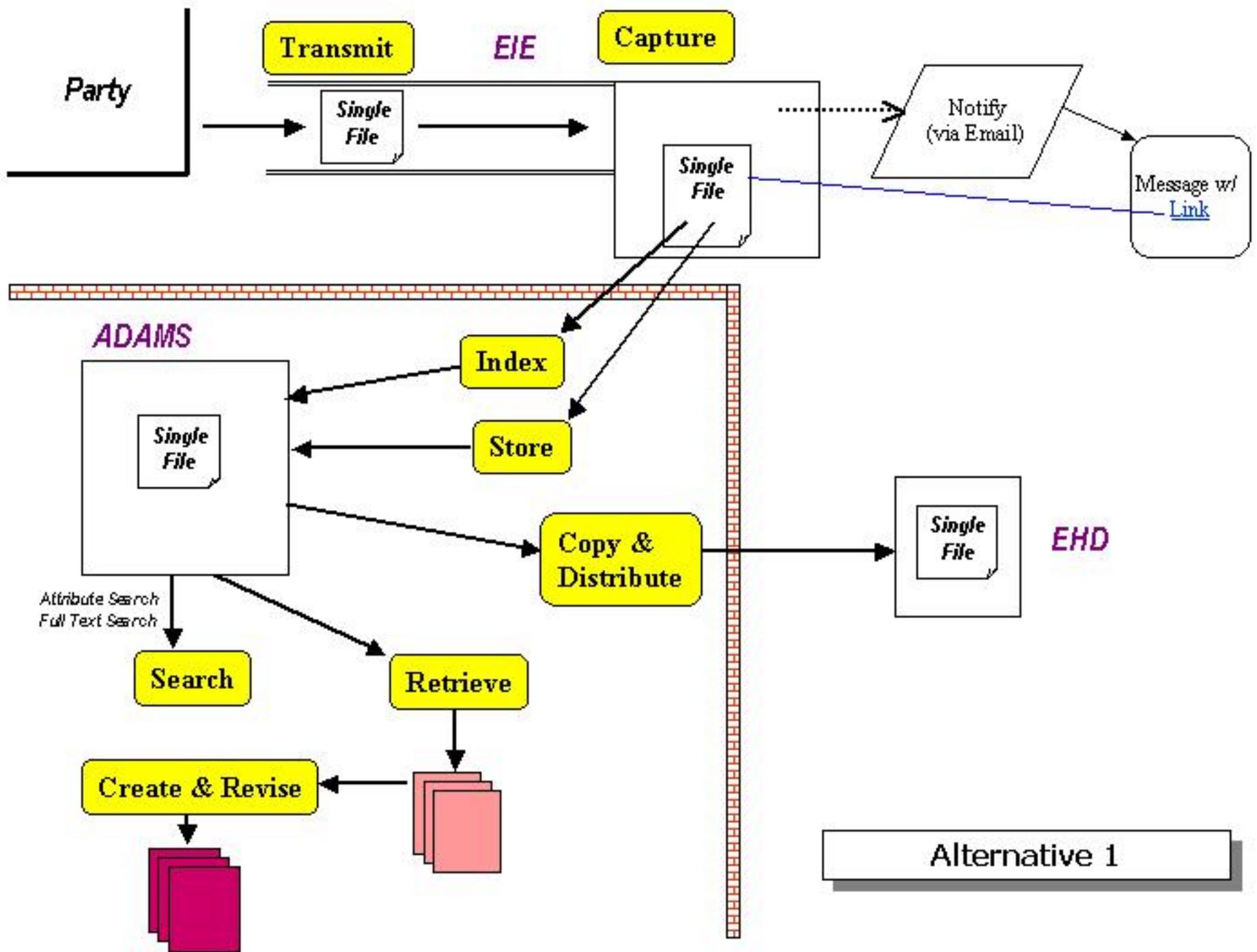


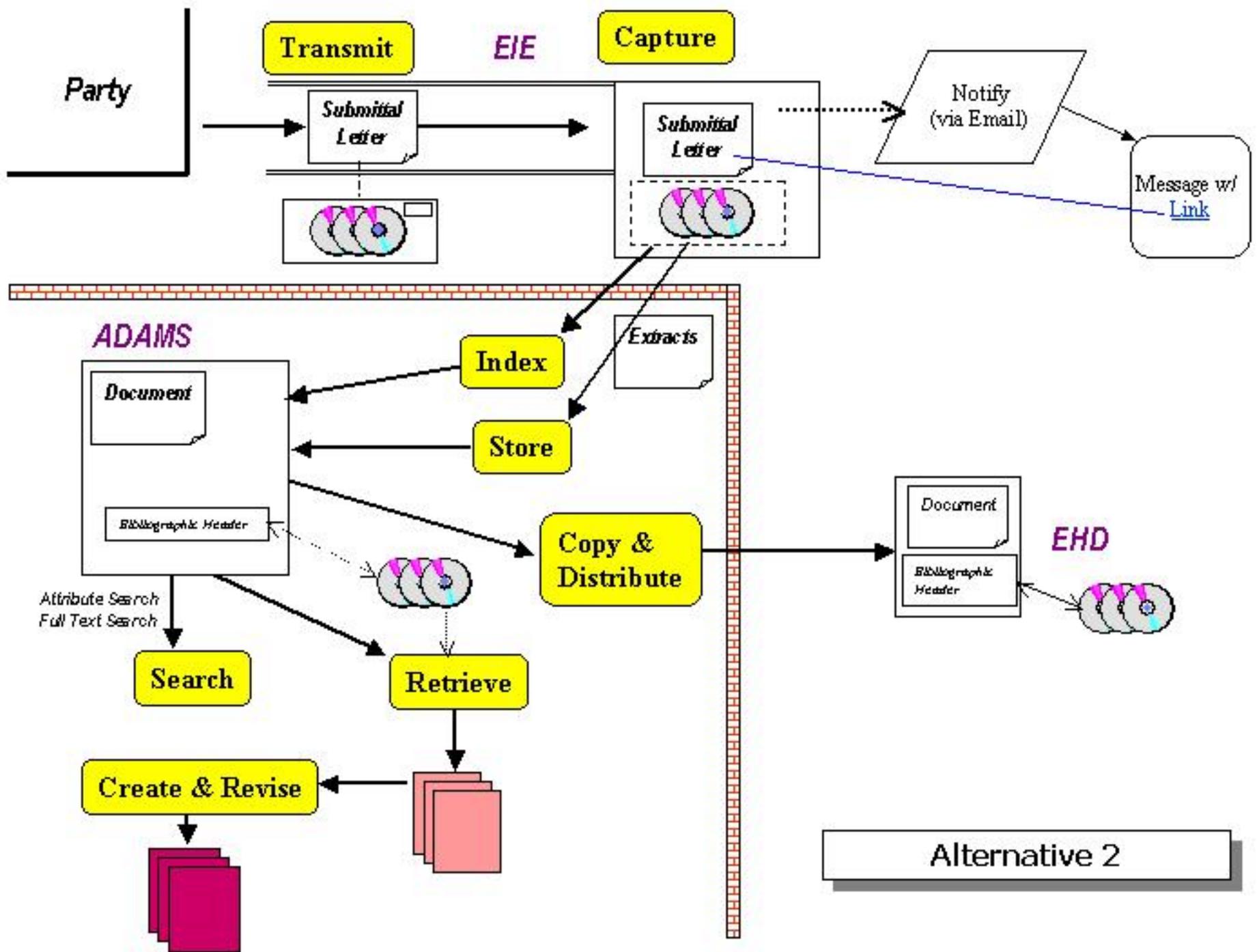
Recommended Approach

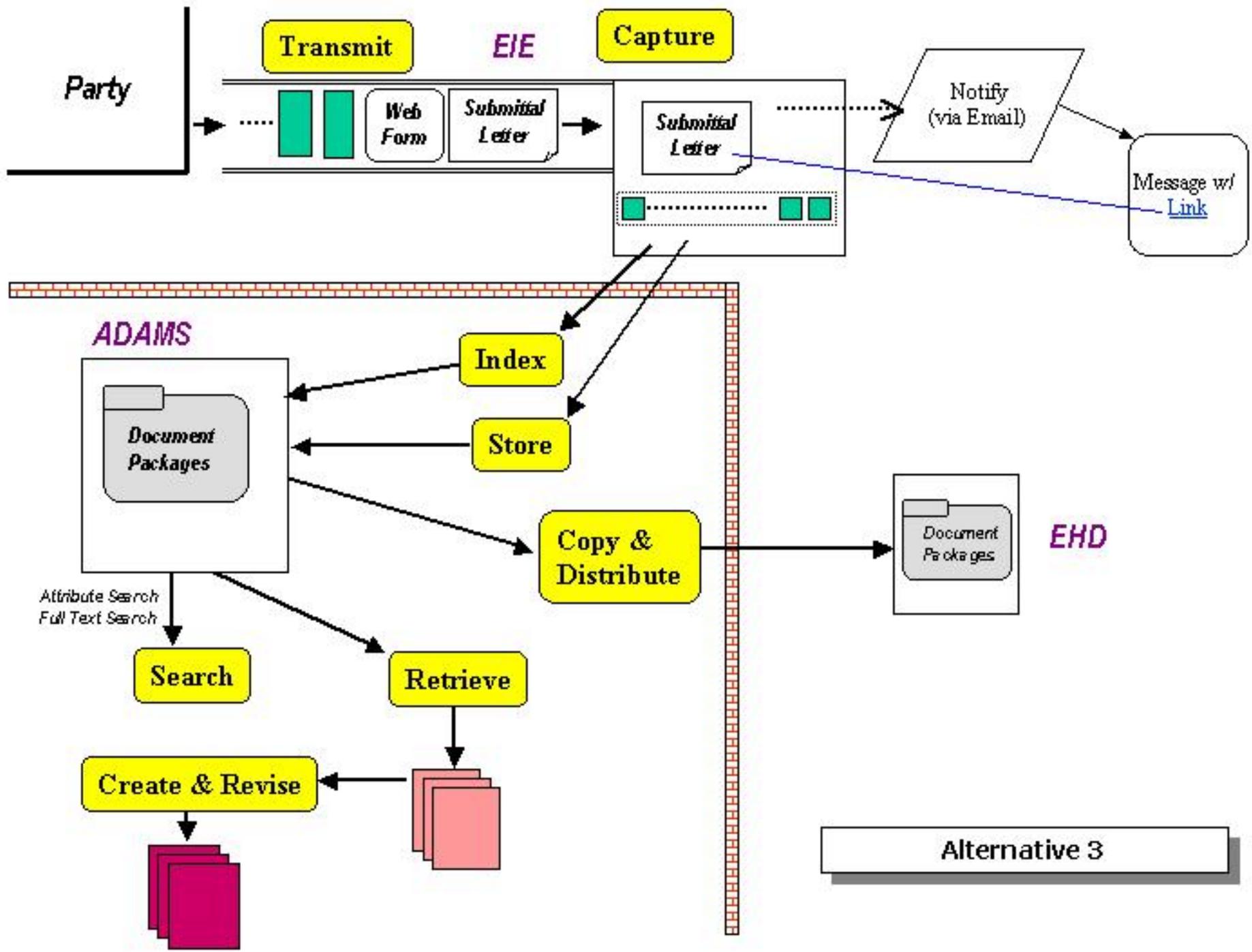
- *Alternative 4 is recommended approach because:*
 - *Provides most practical means to transfer variety of file sizes and types*
 - *Closest alternative for meeting functional and technical requirements*
 - *Provides multiple means to access submittal*
- *The following presentations will provide details of guidance developed from the recommended approach*

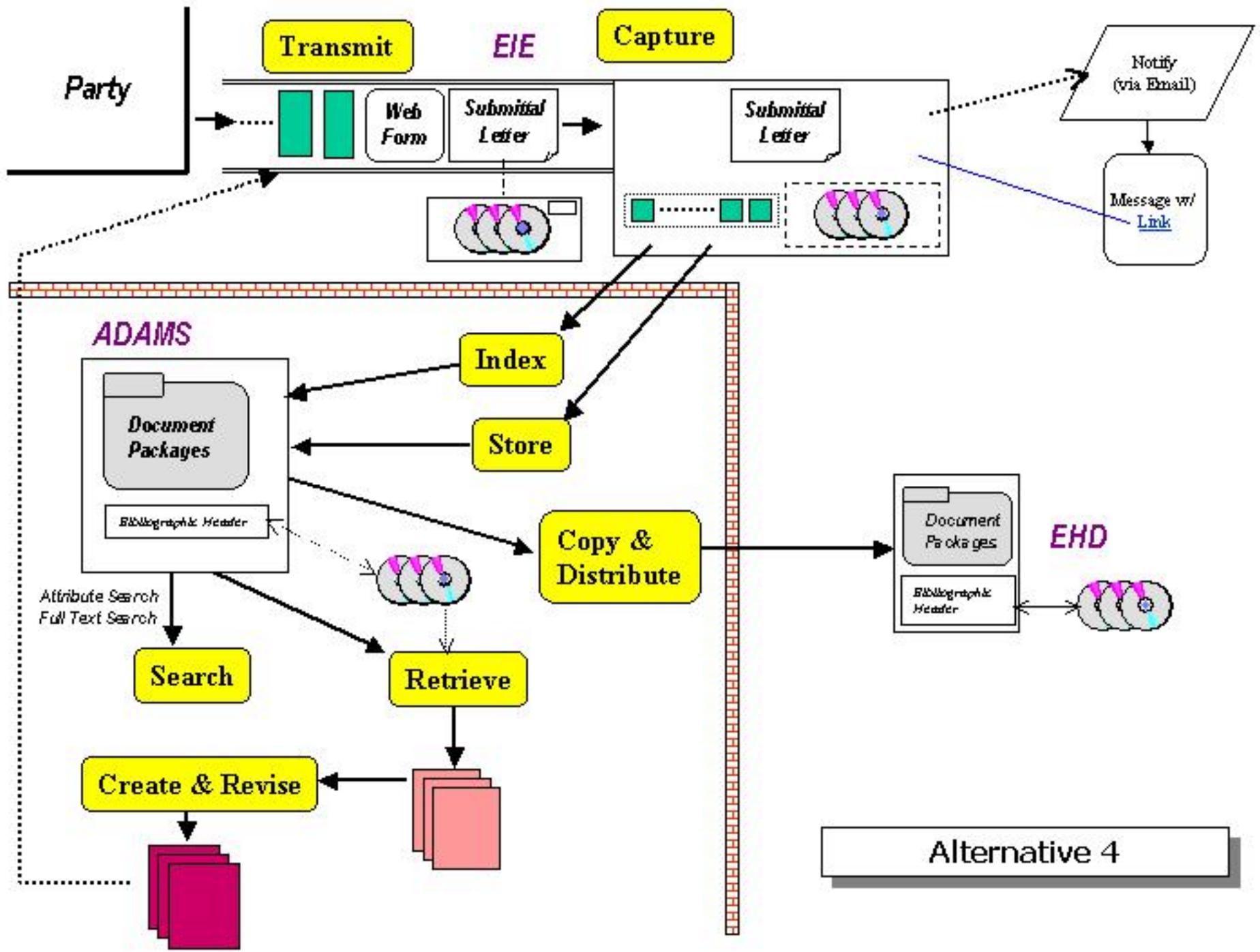


Background Slides











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Draft Guidance for Submission of Electronic Docket Materials Technical Specifications

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Analysis Focus

- *Electronic submittal processing – transmission, capture, distribution*
- *Access and use of electronic docket materials by parties and participants in the HLW proceeding*
- *Public access to electronic docket materials*
- *Record retirement to National Archives*



Developed Guidance to Reflect the Recommended Solution

- *Guidance based on Alternative 4*
- *Guidance provides common format for efficient transmission and submission of electronic docket material to NRC*
- *Guidance allows effective capture and distribution of electronic docket materials*



Guidance Discussion Points

- *File specifications*
- *Electronic submittal instructions*
- *Electronic information exchange*



File Specifications

- *File format*
 - *Portable Document Format (PDF)*
 - *Byte serving*
 - *Alternative formats*
- *File size and segmentation*
- *Information usability*



Portable Document Format (PDF)

- *Freely available format integrated with popular document authoring applications*
- *Content and pagination are “locked-down” to provide an exact image of the document*
- *Full-text searchable*
- *Accepted by National Archives for record retirement*
- *Generally smaller file size in comparison to other graphic file formats*
- *Supports byte serving technology*



Byte Serving

- *Technology implementation*
 - *Optimize PDF files*
 - *Configure web server*
 - *Enable Acrobat® Reader options*
- *Information is “served” to user’s computer on as-needed basis*
- *Time required for initial display of information is significantly shorter*
- *Download of information after display is equal to non-byte serving configurations*



PDF Parameter Settings

- *Optimize for fast web access – byte serving*
- *Embed all fonts*
- *300 dpi minimum resolution*



PDF Output Options by File Type

- *Formatted Text and Graphics*
 - *Textual documents (text files with embedded graphics) output from native applications*
- *Searchable Image (Exact)*
 - *Textual documents scanned from paper*
- *Image Only*
 - *Graphic documents (one image or a collection of images)*



Alternative File Formats

- *Oversized image files*
 - *Maps, photographs, charts*
- *Spreadsheets*
 - *Excel, Quattro Pro, Lotus*
 - *Versions*



Alternative File Formats (Cont.)

- *Video/audio*
 - *Windows Media Player compatible*
 - *Popular playback devices*
- *Executable programs*
 - *Computer simulation, data files*
- *Commercially available software*
 - *Provide all information necessary to review submission*
- *Non-commercially available software*
 - *Fully distributable run-time version*



File Parameters for All File Formats

- *Compression*
 - *No “zip” files*
 - *PDF compression acceptable*
- *Security*
 - *Full access required*
 - *Encryption not necessary or acceptable*
- *File linkages*
 - *Links between files not maintained*
 - *Links within a single file acceptable*



Resolution

- *Recommended minimum 300 dpi*
 - *Conforms to National Archives guidelines for records retirement*
- *Flexibility*
 - *Manageable file size*
 - *Presentation quality*



File Size

■ *File size issues by functional area*

- *File size does not have significant impact on Create, Capture, Index, Store, and Search*
- *As file size increases, so does the time necessary to Retrieve, Download, and Transmit*

■ *File size analysis focus*

- *Minimize burden on parties and participants*
- *Maximize information usability*

Retrieval Timing Tests

Comm Link	Network (100 mps)		DSL (640 kps)		Cable (220 kps)		Modem (56 kps)	
File Size	<i>Byte Serving</i>	<i>No Byte Serving</i>	<i>Byte Serving</i>	<i>No Byte Serving</i>	<i>Byte Serving</i>	<i>No Byte Serving</i>	<i>Byte Serving</i>	<i>No Byte Serving</i>
5 MB	3 sec	8 sec	5 sec	1 min 8 sec	8 sec	2 min 8 sec	15 sec	11 min 46 sec
25 MB	4 sec	19 sec	6 sec	5 min 19 sec	10 sec	14 min 11 sec	21 sec	58 min 15 sec
50 MB	7 sec	38 sec	9 sec	10 min 6 sec	18 sec	30 min 10 sec	35 sec	116 min 24 sec
100 MB	10 sec	55 sec	14 sec	20 min 7 sec	27 sec	60 min 9 sec	48 sec	235 min 37 sec

Download Timing Tests

<i>File Size</i>	<i>Network (100 Mbps)</i>	<i>DSL (640 kbps)</i>	<i>Cable (~ 220 kbps)</i>	<i>Modem (56 kbps)</i>
<i>5 MB</i>	<i>6 sec</i>	<i>1 min 2 sec</i>	<i>2 min</i>	<i>11 min 37 sec</i>
<i>25 MB</i>	<i>17 sec</i>	<i>5 min 2 sec</i>	<i>14 min</i>	<i>58 min 7 sec</i>
<i>50 MB</i>	<i>36 sec</i>	<i>10 min</i>	<i>30 min</i>	<i>116 min 15 sec</i>
<i>100 MB</i>	<i>52 sec</i>	<i>20 min</i>	<i>60 Min</i>	<i>235 min 30 sec</i>

Electronic Submission Timing Tests

<i>Transmittal</i>	<i>Total Pages</i>	<i>100m</i>	<i>640k</i>	<i>220k</i>	<i>56k</i>
<i>5 MB</i>	<i>1,699</i>	<i>7 sec</i>	<i>1 min 11 sec</i>	<i>2 min 7 sec</i>	<i>11 min 48 sec</i>
<i>25 MB</i>	<i>9,205</i>	<i>19 sec</i>	<i>5 min 18 sec</i>	<i>14 min 13 sec</i>	<i>58 min 13 sec</i>
<i>50 MB</i>	<i>18,410</i>	<i>39 sec</i>	<i>10 min 9 sec</i>	<i>30 min 14 sec</i>	<i>116 min 27 sec</i>
<i>100 MB</i>	<i>36, 920</i>	<i>56 sec</i>	<i>20 min 12 sec</i>	<i>60 min 12 sec</i>	<i>235 min 39 sec</i>

- Submission of documentary material using Electronic Information Exchange proved consistently successful



50 MB File Size Recommendation

- *Allows the file to contain substantial content*
- *Retrieval time for 50 MB file significantly enhanced by use of byte serving for on-line display*
- *Download and submission time of 50 MB file is manageable and tests were consistently successful*
- *Large documents will require fewer segments*
 - *More efficient document creation, processing, retrieval, download, and submission via EIE using a 50 MB file size limit resulting in fewer files*



Segmentation of Files > 50 MB

- *Segment at logical breakpoints*
 - *Use chapters, sections, or parts to determine the logical breakpoints*
- *Make maximum use of the 50 MB segment for efficient distribution and use of the information*



Summary

- *Recommending 50 MB as the optimal file size*
- *PDF is the optimal file format*
 - *Supports universal file access and document integrity*
 - *Supports “byte-serving” technology for fast on-line viewing*
 - *Freely available format integrated with document authoring applications; content and pagination are “locked-down”*
 - *Full text searchable*
 - *Accepted by National Archives for records retirement*
 - *Generally smaller file size in comparison to other graphic file formats*



Background Slides

ATTACHMENT A - SETTINGS

The following table provides guidance on the settings to be used when using Adobe® Acrobat Distiller 5.0.5 to produce an optimal PDF for submission and subsequent use by NRC staff and the public. When PDF creation software other than Adobe® Acrobat Distiller 5.0.5 is used, the PDF creation software should be configured with parameter values equivalent to those listed below.

Options		Recommendation Optimal on 5.0
General Options		
	Compatibility	5.0
	Optimize for Fast Web	X
	Embed Thumbnails	
	Auto-Rotate	
	Binding	Left
	Resolution (dpi)	300
Compression		
	Color Images	Bicubic Downsampling (NOT SELECTED)
	For images above	300 dpi
	Compression	JPEG
	Quality	Maximum
	Grayscale	Bicubic Downsampling (NOT SELECTED)
	For images above	300 dpi
	Compression	JPEG
	Quality	Maximum
	Monochrome	Bicubic Downsampling (NOT SELECTED)
	For images above	450 dpi
	Compression	CCITT – Group 4
	Anti-Alias to Gray	Not Selected
	Compress Text & Line Art	Selected
Font		
	Embed All Fonts ¹	X
	Subset embedded fonts when percent of characters used is less	
	When Embedding Fails	Warn & Continue

Continued on next page

¹You must check the license(s) for any font(s) you intend to embed, to verify that embedding is allowed. In some cases, the program will warn you if a font is not licensed for embedding, but this varies by vendor. Fonts must be embedded to comply with NARA guidelines.

Options (cont'd)		Recommendation Optimal on 5.0
Color		
	Setting File	None
	Color Management Policy	Tag Everything for Color Management
	Intent:	Default
	Gray	None
	RGB	SRGB IEC61966-2.1
	CMYK	US Web Coated (SWOP)v2
	Preserve Overprint Settings	X
	Preserve Under Color Removal	X
	Transfer Function	Preserve
	Preserve Halftone	
Advanced Options		
	Prologue.ps & Epilogue.ps	
	Allow PS to Override Job Options	X
	Preserve Level 2 Semantics	X
	Save Job Ticket	X
	Illustrator Mode	X
	Gradients to Smooth Shades	X
	ASCII Format	
	Process DSC Comments	X
	Log DSC Warnings	
	Resize for EPS	X
	Preserve EPS Info	X
	OPI Comments	X
	Preserve Doc Info from DSC	X

ATTACHMENT B – GLOSSARY

Agencywide Documents Access and Management System (ADAMS)

ADAMS is the NRC's primary records management system that contains the bibliographic header (metadata) about a record, searchable text, and an image of a record (either in PDF or TIFF formats). Two access methods for the public are offered today:

- through the Citrix server (which provides client/server-type access to ADAMS)
- a Web browser based interface to publicly available records.

Bibliographic Header

A structured description of a document, file, or object.

Binary Large Object File (BLOB)

A large file, typically an image or sound file, that must be handled (for example, uploaded, downloaded, or stored in a database) in a special way because of its size.

Document

A document is any written printed, recorded, magnetic, graphic matter, or other documentary material, regardless of form or characteristic.

Documentary Material

Documentary material means any information upon which a party, potential party, or interested governmental participant intends to rely and/or to cite in support of its position in the proceeding.

Electronic Information Exchange (EIE)

Electronic Information Exchange is the electronic transfer mechanism established by the NRC for electronic transmission of documents to the agency via the Internet, where the documents are transmitted in a verifiable and certifiable mode that includes digital signatures. EIE is a Public Key Infrastructure (PKI) system using RSA Labs' 128-bit encryption, Verisign's Public Key Certificate Services (PKCS), and PureEdge's Extensible Forms Definition Language (XFDL) webform.

High-Level Waste Electronic Hearing Docket (HLW -EHD)

The High-Level Waste Electronic Hearing Docket is the NRC information system that receives, distributes, and stores the Commission's adjudicatory docket materials in the proceeding on the application of the Department of Energy (DOE) for license to receive and possess high-level radioactive waste at a geologic repository at Yucca Mountain. The High-Level Waste Electronic Hearing Docket was established pursuant to the requirements of 10 CFR §2.1013, to contain the official record materials of the HLW proceeding in searchable full text, and for material that is not suitable for entry in searchable full test, by header and image, as appropriate.

File Format

A file format is the layout of a file in terms of how the data within the file is organized. A program that uses the data in a file must be able to recognize and access data within the file. A particular file format is often indicated as part of a file's name by a file name extension (suffix). Conventionally, the extension is separated by a period from the name and contains three or four letters that identify the format. Examples are: 1) word processing (.doc for MS® Word, .wpd for Corel® WordPerfect), 2) spreadsheet (.xls for MS® Excel, .wb3 for Corel® Quattro Pro), 3) "generic" (.pdf for Adobe Systems'® Acrobat).

Length of Path (ISO 9660, Joliet Extension))

The Joliet Extension to ISO 9660 allows filenames of 64 characters in length and is the least restrictive interchangeable format. However, the ISO 9660 standard imposes a limit on length of path to each file that cannot exceed 255 characters. Length of path is the sum of the lengths of all relevant directories, the length of the File identifier (e.g., .pdf), and the number of relevant directories.

Licensing Support Network (LSN)

The Licensing Support Network (LSN) is a web portal that provides access to multiple document collections pertaining to the high-level waste repository. It uses "web-crawler" technology to index those various collections. It provides web-based access to the document collection structured information (bibliographic) and unstructured information (content files, image files).

Macro

A macro (for "large"; the opposite of "micro") is any programming or user interface that, when used, expands into something larger. A macro definition defines how to expand a single language statement or computer instruction into a number of instructions. The macro statement contains the name of the macro definition and usually some variable parameter information. Macros were (and are) useful especially when a sequence of instructions is used a number of times. For example, In Microsoft Word and other programs, a macro is a saved sequence of commands or keyboard strokes that can be stored and then recalled with a single command or keyboard stroke.

Optical Character Recognition (OCR)

Optical Character Recognition is the recognition of printed or written text characters by a computer. This involves the photo scanning of the text character-by-character, the analysis of the scanned-in image, and then translation of the character image into character codes, such as ASCII. The scanned-in image is analyzed for light and dark areas in order to identify each alphabetic letter or numeric digit. When a character is recognized, it is converted into an ASCII code. OCR can be accomplished either through software alone, or through a combination of specialized hardware and software.

Portable Document Format (PDF)

This is Adobe® Systems, Incorporated's Acrobat document publishing software package output format. Current release is Acrobat 5.0.5. The PDF standard, though it is proprietary to Adobe, has been published, is freely available, and the capability to create PDF documents has been integrated into many other software applications. PDF documents can be generated from any application that can generate Postscript printer files (a popular printing language standard); thus anything that can be printed can be represented in PDF. When files are converted from standard applications to PDF, the information and pagination are "locked down" for the general user, who can access the content through the use of PDF viewer software. The following are definitions of the various types of PDFs:

1. *Formatted Text & Graphics*
Formerly known as “PDF Normal”. This type of PDF is a popular output file format created when materials have been produced on a word processing or publishing system. It contains the full text of the page with appropriate coding to define fonts, sizes, etc. The files are relatively small; screen display and printed version are comparable in readability of content.

2. *Searchable Image*
Formerly known as "PDF Original Image with Hidden Text." When a document is created in this type of PDF, the resultant file consists of two layers: a bit-mapped layer and a hidden text layer. The bitmapped layer maintains the visual representation of the original document. The text layer is created through optical character recognition software (OCR). There are two “flavors” of this type of PDF:
 3. *Searchable Image (Exact)*
Formally known as 'PDF Image + Hidden Text.' This creates the largest file size, but is the more accurate of the two “flavors”. When the plug-in is launched, a layer of text is placed behind the image, making the page appear exactly as it did when scanned, but now it is searchable. Thus, the Searchable Image (Exact) preserves the look of the original scanned image, making it an ideal format for meeting legal requirements.
 4. *Searchable Image (Compact)*
This captures the same image as searchable image (exact), producing smaller files sizes than the Exact method. The general look and feel of the image is retained and it becomes searchable. The quality is not quite as good as the Exact method, as the compression routines used are “lossy” techniques. Because of the lossy techniques used here, the NRC will not accept any documents created in this format. This decision is consistent with guidance from NARA.

- *Image Only*
This type of PDF is essentially a scanned image of the page in a PDF wrapper and contains no searchable text. There is no ability for text searching. The image quality is dependent on the quality of the source materials and the quality of the scanning operation.

Segment

A segment is subpart, or subunit, of a document usually created at a logical division such as a chapter, section, or subsection of a large document.

Target File

A file required by most electronic document management systems to store and retrieve bibliographic header information.

Preferred PDF Output File Format General Information Table

File Format	Version	Filename Extension	Recommended Use
Adobe® Acrobat Portable Document Format (PDF) Formatted Text and Graphics (Formerly known as PDF Normal). Options should be set according to the settings described in Attachment A	Current or 2 previous ***	pdf	Textual documents converted from native applications only *, **
Adobe® Acrobat PDF Searchable Image (Exact) [formerly known as PDF Original Image with Hidden Text]. Options should be set according to the settings described in Attachment A	Current or 2 previous ***	pdf	Textual documents converted from scanned documents
Adobe® Acrobat PDF Image Only. Options should be set according to the settings described in Attachment A	Current or 2 previous ***	pdf	Preferred format for graphic-, image-, and forms-oriented documents (<i>not</i> for capture of text)

* Textual documents scanned from original paper copies converted to PDF Formatted Text and Graphics result in capture of only a text file that contains OCR conversion errors. This inaccurate representation of the original document is not acceptable for capture by the NRC as an archival record. If the native format of a document is not available for creating a PDF file, the NRC recommends that Searchable Image (Exact) PDF be generated from a scanned image of the document. This will create a PDF file that contains a 100% accurate representation of the original document which will be acceptable for transfer to the National Archives.

** Adobe® PDF Formatted Text and Graphics files that contain embedded images of text will not be accepted. These files are usually a result of cutting and pasting images of text instead of the text itself, from one document to another while creating documents using word processing applications. This practice results in a picture of the text being created that is not full text searchable. However, images of text that are intended as a graphical representation only and are not meant to convey the information contained in the text will be accepted

*** The acceptable versions of PDF output files include the current market (non-beta) version distributed by the software vendor, the version distributed directly previous to the current version, and the version distributed two versions previous to the current version.



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- *Update on Digital Document Management System (DDMS)*
- *Open Discussion and Public Comments*

Draft Guidance for Submission of Electronic Docket Materials Example Submittal Instructions

Jim Blanton

Office of the Chief Information Officer

(301) 415-1894

JDB3@nrc.gov





Applicable Submittal Types

- *Simple*
- *Large*
- *Complex*

Applicable Submittal Types

Submittal Type	Submittal Size	File Characteristics	Method
Simple	Less than 50 megabytes (MB)	One or more textual or graphic-oriented electronic files in Portable Document Format (PDF)	Use a single EIE transmission to submit the file(s) with a transmittal letter.
Large	Greater than 50 MB	Textual or graphic-oriented electronic files in PDF that can logically be segmented into 50 MB files	<ul style="list-style-type: none"> •Use multiple EIE transmissions (≤ 50 MB each) to submit the files with a transmittal letter <li style="text-align: center;">— <i>and</i> — •Deliver a courtesy copy of the files submitted via EIE on OSM.
Complex	Any	<p>Any combination of the following electronic object categories:</p> <ul style="list-style-type: none"> •Textual or graphic-oriented electronic files in PDF •Electronic files that can not be segmented into 50 MB files •Other electronic objects, such as computer programs, simulations, video, audio, data files, and files with special printing requirements 	<p>Use the Dual-Submittal Method:</p> <ul style="list-style-type: none"> •Use one or more EIE transmissions (≤ 50 MB each) to submit a transmittal letter and (if applicable) single or multiple segmented PDF files <li style="text-align: center;">— <i>and</i> — •Deliver the balance of the submission, together with all associated files transmitted via EIE, on optical storage media for a complete submission. Note: if documentary material is only being submitted on OSM, the transmittal letter is still sent via EIE.



Transmittal Letter

- *The transmittal letter, as presented in the proposed guidance, facilitates NRC's ability to ensure completeness and integrity of submittals*
- *This information is normally included in documents prepared and submitted to the NRC in adjudicatory and regulatory submissions*



Transmittal Letter (Cont.)

- *Include organization or individual name/address (author)*
- *Docket number (WM-00011)*
- *Subject line (non-sensitive brief, but descriptive, narrative of the subject of the submission)*
- *Request for withholding from public disclosure (if appropriate)*



Transmittal Letter (Cont.)

- *Name and mailing address for contact that can resolve problematic submissions*
- *Complete listing of document components*
- *List of those served*



List of Document Components

- *Include filename*
- *Size of file*
- *Indicate if component transmitted via EIE or optical storage media*
- *Associated LSN number (if applicable)*
- *Descriptive file for alternative file formats (video/audio files, etc.) or physical objects*



Example of Alternative File Format Description

004 Analytical Code Used for DOE Site Characterization Plan, Chapter 4 Groundwater Level Analysis (Description submitted via EIE) LSN-DEN004567823

This enclosure provides the analytical code used for the analysis of information presented in Chapter 4 of DOE's Site Characterization. Code is run on a UNIX PC utilizing ABC operating system.



Example of Physical Object Description

005 Core Sample 3, Area 16 (Description submitted via EIE)

Core Sample 3 was taken from Area 16 on the southeastern slope of Yucca Mountain and displays strata from



Example of Alternative File Format Description

006 Videotape of MMDDYYYY Meeting to Discuss Core Sample Evaluations (Description submitted via EIE, video file submitted on optical storage media) LSN-DEN000987654

This is a video recording of the MMDDYYYY meeting between the U.S. Department of Energy, the Center for Nuclear Waste Regulatory Analyses, and the U.S. Nuclear Regulatory Commission to discuss procedures used to perform core sample evaluations of Area 22 on the southwestern slope of Yucca Mountain.

Technical Parameters/Special Instructions

This video file was created using XXX software running on a 900 MHz personal computer utilizing Windows XP Video Viewer 123, which is widely available for free on the Internet. File size is 236 MB. Total run time is approximately 1 hour and 20 minutes.



Simple Submittal

- *One or more textual or graphic files*
- *50 Mbytes or less (cumulative)*
- *Use single EIE transmission with a transmittal letter*
- *Complete EIE submittal form, attach files, and submit*

Simple Submittal Transmittal Letter Example

State of Xxxx
Office of the Governor
12345 Main Street
Anywhere, XX 56789

September 23, 2005

United States Nuclear Regulatory Commission
Atomic Safety and Licensing Board
Attn: Document Control Desk
11555 Rockville Pike
Rockville, MD 20852

WM-00011(PRE)

Enclosed are the State of XXXX's Response to DOE Interrogatories 3 and 7 and Notice of Appearance for J. Doe, Esq.

Questions concerning this submittal may be directed to:
State of XXXX
Office of the Governor
Attn: Mary Smith (000) 555-xxxx
e-Mail: MESSmith@stateofXX.us
12345 Main Street
Anywhere, XX 56789

Sincerely,
J. Doe
Attorney for the State of XX

cc: Provide list of parties served

Document Components:

001 State Transmittal Letter.pdf 1024 bytes (EIE)
002 State Response to 3 &7.pdf, 15,683,112 bytes (EIE)
003 Notice of Appearance-Doe.pdf, 1,056,011 bytes (EIE)

Simple Submittal EIE Submittal Form Example

U.S. Nuclear Regulatory Commission				
*Adjudicatory/EHD Documents				
Instructions: Please fill out the form completely and Sign to Authorize transmittal. Press Submit when you are finished.				
Docket	WM-00011			
Document Title	State of XX Response to DOE Interrogatories 3 and 7			
Attachment	Attach	Remove	View	Extract
Date	23 Sep 2005			
Author	John Doe			
Comments	3 Attached files submitted by EIE (transmittal letter and 2 documents)			
Signature	Click to Digitally Sign Document			
Authorization	Click to Authorize Transmission			
	Submit	Cancel		
Service List Recipients				
The following people may receive notifications. Check the box next to each name that you would like to receive a notification. Make sure a valid email is entered.				
<u>Last Name</u>	<u>First Name</u>	<u>Email</u>	<u>Notify</u>	
Bollwerk	Judge Paul	gpb@nrc.gov	✓	
Everett	Craig	ceverett@logicon.com	✓	
Hung	Daniel	Hungda@mail.northgrum.com	✓	
Skoczlas	John	jas1@nrc.gov	✓	
Smith	Joe	jxr1001smith@nrc.gov	✓	



Large Submittal

- *Textual- or graphic-oriented files*
- *Greater than 50 Mbytes (cumulative)*
- *Use multiple EIE transmissions ≤ 50 Mbytes each and include transmittal letter with first transmission*
- *Provide a paper copy of the transmittal letter and the complete submission on optical storage media via delivery service*

Large Submittal Transmittal Letter Example

United States Department of Energy
Office of the General Counsel
Hearing Division
Washington, DC 20585

September 18, 2005

United States Nuclear Regulatory Commission
Atomic Safety and Licensing Board
Attn: Document Control Desk
11555 Rockville Pike
Rockville, MD 20852

WM-00011(PRE)

Enclosed are DOE's Response to Interrogatories Related to Quality Control Procedures

Questions concerning this submittal may be directed to:
US Department of Energy
Hearing Division
Attn: S. Smith (202) 555-xxxx
e-Mail: SESmith@usdoe.gov
Washington, DC 20585

J. Doe, Attorney for DOE

cc: Provide list of parties served

Document Components:

001 DOE Transmittal Letter.pdf 1024 bytes (EIE)
002 Evaluation Quality Control (1 of 4).pdf 48,321,678 bytes (EIE)
003 Evaluation Quality Control (2 of 4).pdf 47,421,178 bytes (EIE)
004 Evaluation Quality Control (3 of 4).pdf 49,223,167 bytes (EIE)
005 Evaluation Quality Control (4 of 4).pdf 37,522,178 bytes (EIE)

Large Submittal EIE Submittal Form Example

U.S. Nuclear Regulatory Commission

*Adjudicatory/EHD Documents

Instructions: Please fill out the form completely and Sign to Authorize transmittal.
Press Submit when you are finished.

Docket	WM-00011			
Document Title	DOE Evaluation of Quality Control Procedures for Analysis of Core Samples			
Attachment	Attach	Remove	View	Extract
Date	18 Sep 2005			
Author	J. Doe			
Comments	1 Submittal consisting of 1 transmittal letter and 4 - 48MB files, submitted by EIE			
Signature	Click to Digitally Sign Document			
Authorization	Click to Authorize Transmission			
	Submit		Cancel	

Service List Recipients

The following people may receive notifications. Check the box next to each name that you would like to receive a notification. Make sure a valid email is entered.

<u>Last Name</u>	<u>First Name</u>	<u>Email</u>	<u>Notify</u>
Bollwerk	Judge Paul	gpb@nrc.gov	<input checked="" type="checkbox"/>
Everett	Craig	ceverett@logicon.com	<input checked="" type="checkbox"/>
Hung	Daniel	Hungda@mail.northgrum.com	<input checked="" type="checkbox"/>
Skoczlas	John	jas1@nrc.gov	<input checked="" type="checkbox"/>
Smith	Joe	jxr1001smith@nrc.gov	<input checked="" type="checkbox"/>



Complex Submittal

- *Combination of electronic objects*
- *Any size*
- *Use dual submission method (transmittal letter and all electronic PDF files ≤ 50 Mbytes via EIE) and deliver one paper copy of transmittal letter (with complete submission including alternative format files on optical storage media) and any physical objects*

Complex Submittal Transmittal Letter Example

United States Nuclear Regulatory Commission
Office of the General Counsel
Hearing Division
Washington, DC 20555

September 30, 2005

United States Nuclear Regulatory Commission
Atomic Safety and Licensing Board
Attn: Document Control Desk
11555 Rockville Pike
Rockville, MD 20852

WM-00011(PRE)

Enclosed are NRC Motion in Support of DOE's Site Characterization Plan - Estimates on Groundwater Travel in Area 16 of the Yucca Mountain Facility and Notice of Appearance for J. Jones, Esq.

Questions concerning this submittal may be directed to:
United States Nuclear Regulatory Commission
Office of the general Counsel
Hearing Division
Attn: Jane Doe, (301) 415-xxxx
e-Mail: xxx@nrc.gov
11555 Rockville Pike
Rockville, MD 20852

Jane A. Doe, Attorney for the NRC

cc: Provide list of parties served

Complex Submittal Transmittal Letter Example (Cont.)

Document Components:

001 NRC Transmittal Letter.pdf 1024 bytes (EIE)
002 NRC Motion in Support of DOE Analysis.pdf, 15,679,411 bytes (EIE)
003 Notice of Appearance for J. Jones, Esq.pdf, 1,056,911 bytes (EIE)
004 Description Analytical Code DOE Site Plan.pdf, 142,846 bytes (EIE), LSN-#####
005 Description Core Sample 3.pdf, 1,032,116 bytes (EIE), LSN-#####
006 Description Video - Jan. 21, 2003.pdf, 156,936 bytes (EIE), LSN-#####

OSM#1:

Located in the OSM root:
000 Table of Contents.pdf

Located in the “documents” folder:

001 NRC Transmittal Letter.pdf 1024 bytes (EIE)
002 NRC Motion in Support of DOE Analysis.pdf, 15,679,411 bytes (EIE)
003 Notice of Appearance for J. Jones, Esq.pdf, 1,056,911 bytes (EIE)
004 Description Analytical Code DOE Site Plan.pdf, 142,846 bytes (EIE), LSN-#####

Document Components: cont'd

005 Description Core Sample 3.pdf, 1,032,116 bytes (EIE), LSN-#####
006 Description Video - Jan. 21, 2003.pdf, 156,936 bytes (EIE), LSN-#####

OSM#2

Located in the OSM root:
000 Table of Contents.pdf

Located in the “Analytical Code” folder:

001 DOE Site Characterization Plan Analysis.exe 123,311,123 bytes, (Description submitted via EIE) LSN-#####

Located in the “Video” folder:

002 Video Recording of Jan. 21, 2003 Meeting.wmv, 236,561,440 bytes, (Description submitted via EIE), LSN-#####

Complex Submittal EIE Submittal Form Example

U.S. Nuclear Regulatory Commission				
*Adjudicatory/EHD Documents				
Instructions: Please fill out the form completely and Sign to Authorize transmittal. Press Submit when you are finished.				
Docket	WM-00011			
Document Title	NRC Motion in Support of DOE's Site Characterization Plan - Estimates on Groundwater Travel in Area 16			
Attachment	Attach	Remove	View	Extract
Date	30 Sep 2005			
Author	Jane Doe			
Comments	1 transmittal letter, 5 files submitted via EIE and 2 OSMs submitted via overnight delivery.			
Signature	Click to Digitally Sign Document			
Authorization	Click to Authorize Transmission			
	Submit		Cancel	
Service List Recipients				
The following people may receive notifications. Check the box next to each name that you would like to receive a notification. Make sure a valid email is entered.				
<u>Last Name</u>	<u>First Name</u>	<u>Email</u>	<u>Notify</u>	
Bollwerk	Judge Paul	xxx@nrc.gov	✓	
Everett	Craig	ceverett@logicon.com	✓	
Hung	Daniel	Hungda@mail.northgrum.com	✓	
Skoczlas	John	jas1@nrc.gov	✓	
Smith	Joe	jxr1001smith@nrc.gov	✓	



Agenda

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- *Discussion of LSN Rule Issues*
- *Update on Digital Document Management System (DDMS)*
- *Open Discussion and Public Comments*

Draft Guidance for Submission of Electronic Docket Materials Electronic Information Exchange (EIE) Process

John Skoczlas

Office of the Chief Information Officer

(301) 415-7186

JAS1@NRC.GOV





EIE Upgrades to Support HLW Submittals (EIE V 2.1)

- *Upgrade hardware*
- *Upgrade pipeline*
- *Re-test adjudicatory process*
- *Implement notification process*
- *Submittal form*
- *Submittal process*



EIE Adjudicatory Re-Test

- *Earlier test identified problems in the following areas which required upgrades or modifications:*
 - *Notification*
 - *Servicing*
 - *Web form executables*
- *Upgrades and modifications have been completed and re-test will be conducted*
- *LSNARP members are invited to participate*



EIE Performance Improvements

- *Newer equipment to provide for:*
 - *More power and memory*
 - *Better reliability*
 - *Newer software*
- *Production Procedures have been developed to improve service monitoring and reliability*
- *Network has been upgraded to a higher bandwidth*



EIE Sender Notification Process

- *Process developed and implemented provides:*
 - *Notification of segment delivery*
 - *Notification of document delivery*
 - *Time and date stamp affixed to notification*
- *Submitter is notified by an error message if transmittal is not successful*



EIE Submittal Form

- *Provides document information*
- *Allows for complete or partial service for the proceeding*
- *Contains a distribution record*



Submittal Process

- *Current process requires each segment or transmittal to be done separately*
- *EIE V2.2 (October 2003) will allow for all segments of a document to be submitted with one click automatically*



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- *Open Discussion and Public Comments*

Discussion of Licensing Support Network (LSN) Rule Issues

Mitzi Young

Office of General Counsel

(301) 415-1523

MAY@nrc.gov





LSN Document Duplication

- *Duplicate documents must be made available due to definition of documentary material*
 - *Any information a participant intends to rely on and/or cite in support of its position in the proceeding;*
 - *Any information known to, and possessed or developed by a participant that is relevant to, but does not support, that information or participant's position; and*
 - *All reports or studies prepared by or on behalf of a participant relevant to both the license application and Topical Guidelines*
- *Document duplication due to rule change from Licensing Support System (central database) to LSN (link to documents on multiple websites)*



LSN Document Duplication (Cont.)

- *If documents by DOE, NRC, Nevada, and others are available on more than one website*
 - *Multiple LSN search hits for the same document*
 - *Affects capacity needed for LSN*
 - *Needless duplication/burden*



LSN Certification

- *LSN Certification – 10 CFR 2.1009*
 - *By official responsible for administration of providing electronic files of documentary materials*
 - *Certifies to the Pre-license Application Presiding Officer that:*
 - *Procedures established to implement 10 CFR 2.1003 requirements have been followed; and*
 - *To the best of his or her knowledge, documentary material specified in 10 CFR 2.1003 has been identified and made electronically available*



Possible Part 2 Rule Changes

- *Needed to allow service of CDs/DVDs*
 - *Rule requires electronic transmission/service*
 - *Impractical to send large documents via Internet due to long transmission times and potential for interruptions*
- *Needed to require PDF as the format for adjudicatory filings to ensure document integrity and lock down document pagination*
 - *Rule design standards allow multiple formats*
- *Needed to avoid LSN document duplication*



Agenda

- *LSNARP Chairman's Opening Remarks*
- *NRC Organizational Responsibilities and Roles*
- *LSN Administrator Report on Status of LSN*
- *Panel Discussion; Questions and Answers*
- *Alternatives for High-Level Waste Electronic Docket Documents*
- *Panel Discussion*
- *Draft Guidance for Submission of Electronic Docket Materials*
 - *Technical Specifications*
 - *Electronic Submittal Instructions*
 - *EIE Process*
- *Summary and Panel Discussion*
- *Discussion of LSN Rule Issues*
- ***Update on Digital Document Management System (DDMS)***
- *Open Discussion and Public Comments*

Update on Digital Data Management System (DDMS)

Dan Graser

Atomic Safety and Licensing Board Panel

(301) 415-7401

DJG2@nrc.gov





Digital Data Management System (DDMS)

- *Fully-integrated hearing room environment featuring*
 - *Courtroom presentation technology*
 - *Court management information*
 - *Document management*
 - *Fully-searchable real-time transcripts*
 - *Integrated with the audio/visual record of each day's proceedings*
- *Available to parties to the proceeding*
 - *In court locations*
 - *From remote locations*



DDMS (cont.)

- *In-court information technology and audio/visual capabilities*
 - *In Las Vegas area*
 - *At NRC in Rockville, Maryland*
- *Access and retrieval of the entire record*
 - *Documentary*
 - *Audio*
 - *Video presentations, exhibits, simulation models*
- *Judges & parties use to organize and prepare*
 - *Records, stores, and displays text and image of documents pre-filed from the Electronic Hearing Docket*
 - *Use integrated, comprehensive digital record of the proceeding – next day availability*
- *Ability to web-stream proceeding*



Progress Overview

- *Functional requirements validated:
November 19, 2002*
- *Start of detailed design phase:
November 25, 2002*
- *Approval of proof-of-concept design:
February 21, 2003*
- *Proof of concept software development:
in progress*



Integration with Agency Systems

- *Requirements for interfaces*
 - *Electronic Hearing Docket (EHD)*
 - *Document Processing Center (DPC) intake to ADAMS*
- *Tested EIE*



Use & User-Driven Design

- *Production system requirements reflect key concerns:*
 - *Reliability*
 - *Security*
- *Interviews to refine requirements*
 - *Internal-NRC*
 - *External stakeholders*



Mock Trial

- *Conducted “mock trial”*
- *Compared real-time court reporting with typical court reporter*
- *Transcripts reviewed for accuracy*
- *Use as “live” data for proof-of-concept demonstration*



Requirements Validation With Users

- *External stakeholders' concerns:*
 - *System reliability*
 - *Usability*
- *Concerns to be addressed by:*
 - *Technical design*
 - *Policy & procedures*
- *Recommended forming user group*



Proof-of-Concept Demonstration System

- *Represents logical and physical designs of all identified requirements*
- *Contractor made first hardware/software purchases: March 2003*
- *Demonstrates many of the functional features of the production system*
 - *Can “see” how business process requirements translate into a system function*
 - *Prototype touch screen monitor*
- *Identify further refinements to include in production system*



Future Components

- *Audio/visual component implementation in Rockville: Fall 2003*
- *Rockville Hearing Room operational: end of FY 2004*
 - *Possibly available for pre-license application litigation*
 - *Apply “Lessons Learned” to Las Vegas Hearing Room implementation*
- *Las Vegas Hearing Room operational: 2nd quarter FY 2005*
- *Training for parties: 3rd quarter FY 2005*



Status of LV-Area HLW Hearing Room

- *Issued solicitation for offers with General Services Administration (GSA)*
- *Bids received*
- *Site visits to review potential bids*
- *In process of selecting qualified developer*
 - *Anticipate award in late summer*
- *Working to identify desktop requirements and infrastructure issues for the facility*



DDMS Client Configuration Requirements

- *The following configuration is in addition to that required to support EIE (including Adobe Acrobat)*
 - *Hardware:*
 - *Low-end industry processor configuration available at the time but at a minimum 2GHz CPU clock speed; 256MB RAM; 30GB hard drive.*
 - *Software:*
 - *Microsoft Windows 2000*
 - *Microsoft Internet Explorer Version 6 or later*
 - *Macromedia Flash Player Version 6 or later*
 - *Microsoft Windows Media Player Version 9 or later*



Points of Contact

Program Manager:

Dan Graser

(301) 415-7401

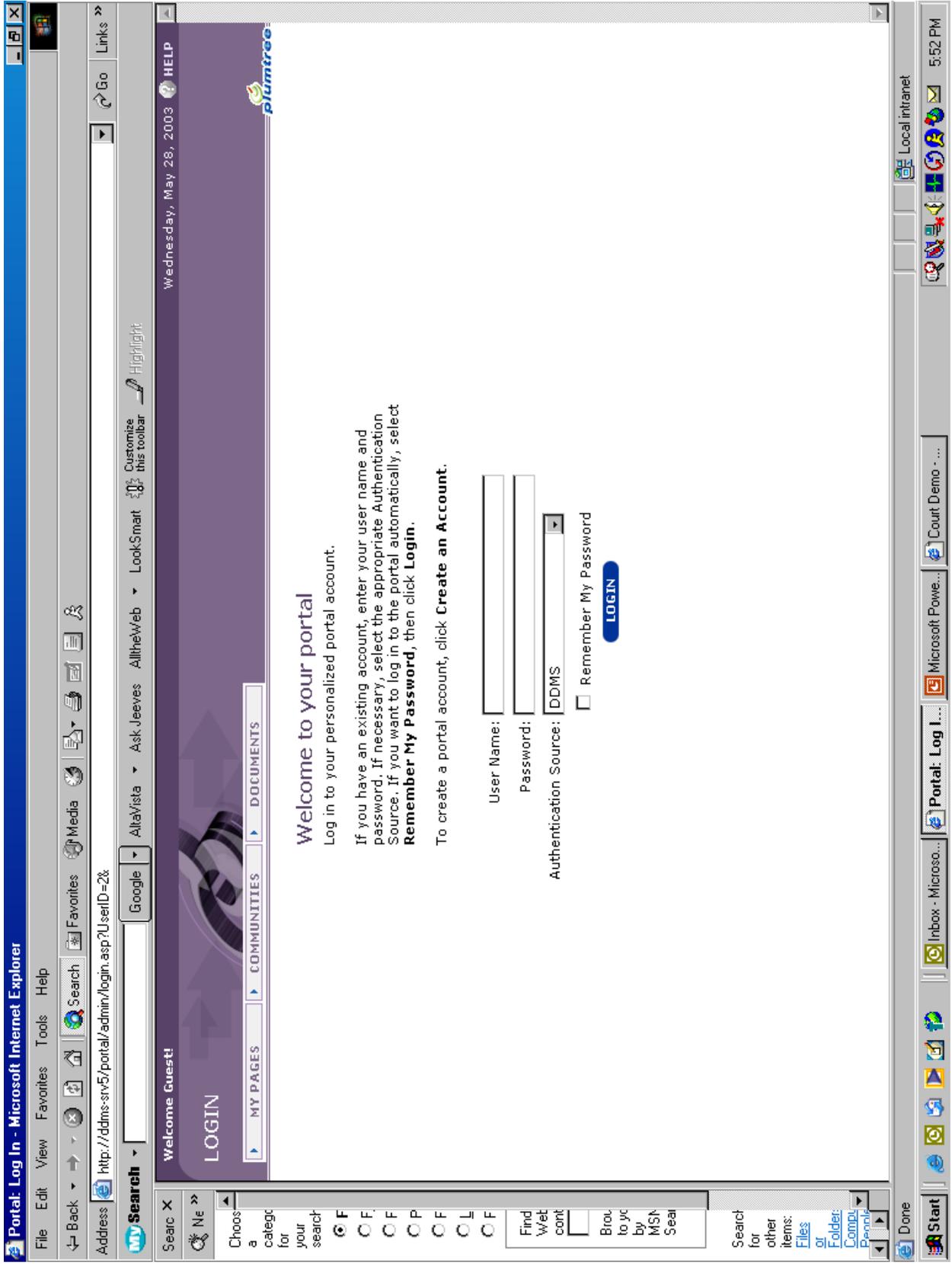
DJG2@nrc.gov

Project Manager:

Pat Smith

(301) 415-7352

MPS2@nrc.gov



Welcome to your portal
Log in to your personalized portal account.

If you have an existing account, enter your user name and password. If necessary, select the appropriate Authentication Source. If you want to log in to the portal automatically, select **Remember My Password**, then click **Login**.

To create a portal account, click **Create an Account**.

User Name:
Password:
Authentication Source: DDMS
 Remember My Password
LOGIN

ADMINISTRATOR Portal Settings Administration Logoff

COMMUNITIES PARTIES

MY PAGES COMMUNITIES DOCUMENTS

Document Search all Languages Go

Search Options: Advanced Network Saved

Common Tasks

- My Briefcase
- View Live Video
- Current Exhibit

How Do I?

- Edit Your Memberships
- Edit This Community
- Create a Community
- Clerks
- Judges
- Parties

Getting Started

- View Multimedia Court Room Exhibit Status
- My Briefcase
- Searching for an Exhibit
- Searching the Multimedia Court Record

Witness Schedule

Mon 5/19	Tue 5/20	Wed 5/21	Thur 5/22	Fri 5/23
Witness	Witness	Witness	Witness	Witness

View All Exhibits

Exhibit Search

Search by ID

Search By Party Exhibit #

Search by Keyword

Witness Manager

There are no witnesses in the witness list

[Witness Manager](#)

ADMINISTRATOR Portal Settings Administration Logoff

COMMUNITIES JUDGES

MY PAGES COMMUNITIES DOCUMENTS

COMMUNITY HOME PAGE Edit Your Memberships

Judges Common Tasks Edit This Community arch TS

My Briefcase Create a Com Clerks Judges Parties

View Live Vid Current Exhibits

Document Search all Languages Go

Search Options: Advanced Network Saved

Search By Enter The LSN

LSN

Q W E R T Y U I O P -

A S D F G H J K L ' .

Z X C V B N M .

0 1 2 3 4 5 6 7 8 9

Search

alpha.03.04.03e

Video Record TS View

Exhibit Status TS View

How Do I? EDIT X

Getting Started

- View Multimedia Court Room
- Exhibit Status
- My Briefcase
- Searching for an Exhibit
- Searching the Multimedia Court Record

COMMUNITIES
CLERKS

MY PAGES COMMUNITIES DOCUMENTS

COMMUNITY HOME PAGE
 Edit Your Memberships
 Edit This Community
 Create a Community
 My Briefcase
 View Live Video
 Current Exhibit

Common Tasks
 Clerks
 Judges
 Parties

Exhibit Search
 Search by ID
 Search By Party Exhibit #
 Search by Keyword

Document Search

Status	Hearing	Party	Exhibit #
	Nuclear Waste	State of Nevada	P1005
	Nevada Wind Patterns		
	Desert Mining		
	0023		
	00123456 doc		

01/15/2003 10:44:00 AM
 01/17/2003 10:24:43 AM
 02/13/2003 1:55:40 PM
 04/29/2003 4:05:57 PM

[View All Exhibits](#)

Today's Scheduled Appearances

Panel/Witness Party Documents
 Harrison, Harry T State of Nevada Documents

Today's Scheduled Exhibits

No Exhibits Scheduled For Today

Video Sync

Transcript File: Browse...
 Media File: Browse...
 Convert Transcript and Sync Video

DDMS Manager

DDMS Administration

Community Publications

Recent Video Transcripts

- DDMS_CourtVideo_May_17_2003 (2)
- DDMS_CourtVideo_May_17_2003

Set Current Exhibit

Party: State of Nevada
 Exhibit #: P1005
 Set as current exhibit

Legal Research

hello
 OH.Yeah!!
 Yahoo
 Lexis/Nexis
 Westlaw

Witness Manager

There are no witnesses in the witness list
[Witness Manager](#)

Witness Manger

Views

- Witnesses
- Panels
- Appearances

Functions

- Add Witness
- Add Panel

[Close Window](#)

Witness List

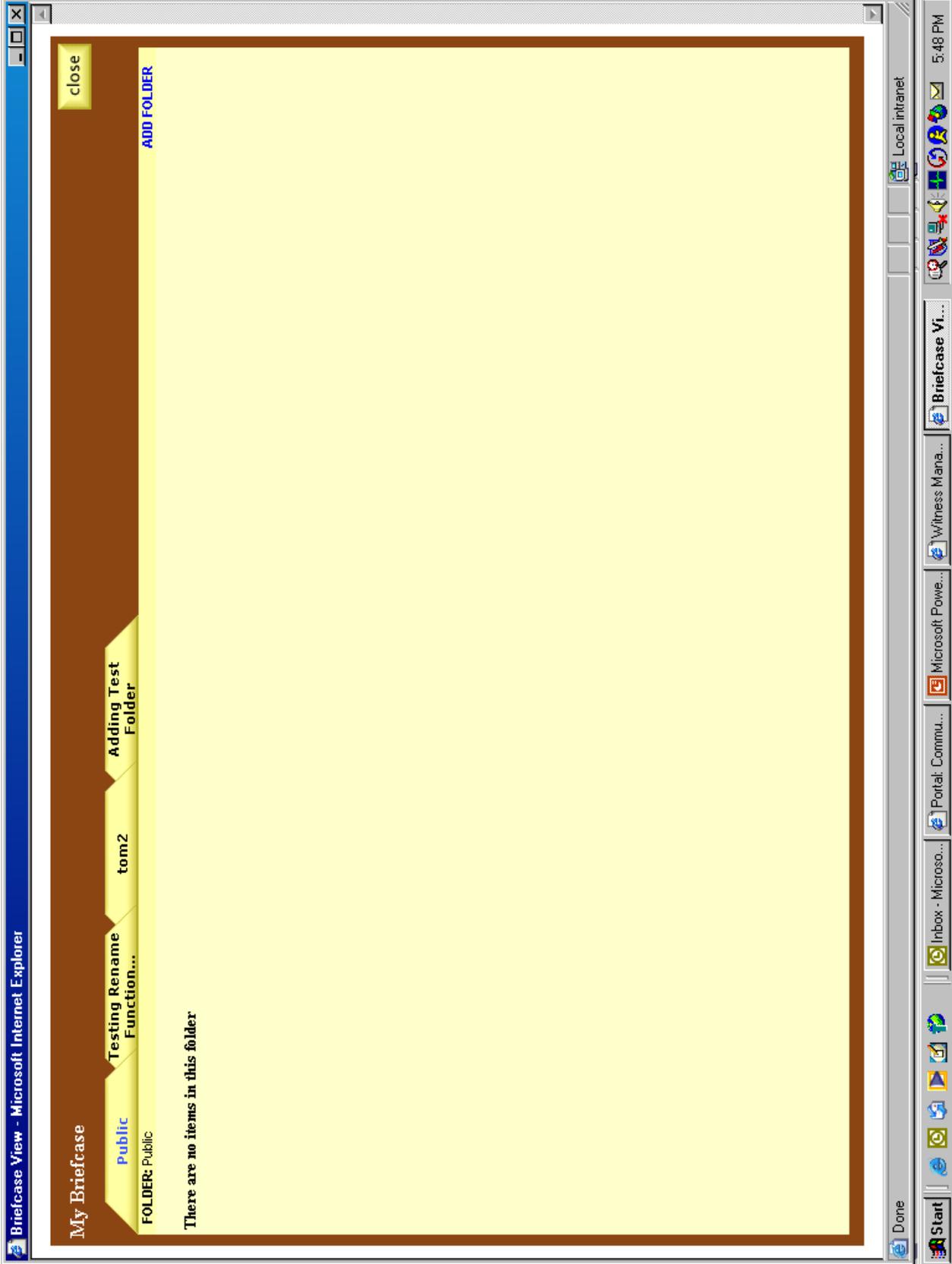
Displaying 1 - 7 of 7

Search

First Name Last Name

Last Name First Name Middle Initial

Tulls	Tommy	J	
Smith	Blam	S	
Richards	Rick	R	
Randell	Ryan	R	
Harrison	Harry	T	
Estabrook	Pete	C	
Brown	James	D	

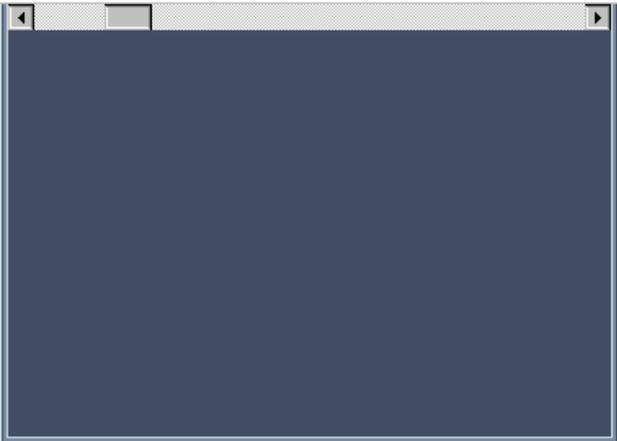
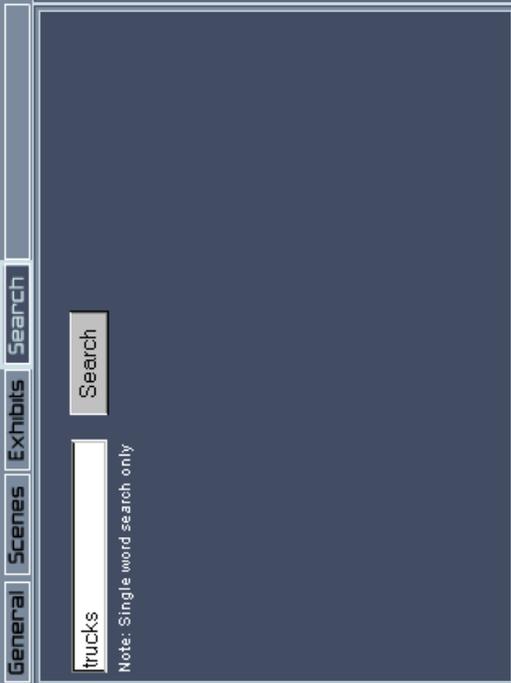


General Scenes Exhibits Search

trucks

Note: Single word search only

Search



WELL, I WANT YOU TO THINK BACK. DO YOU RECALL LOOKING OUT THE WINDOW WHEN THE FIRE TRUCKS WERE THERE?

SPEAKER: WITNESS (offset 42448ms)
I DON'T RECALL.

SPEAKER: ATTORNEY (offset 45328ms)
OKAY. WELL, WOULD IT BE FAIR TO SAY THAT YOUR RECOLLECTION OF WHAT HAPPENED THAT NIGHT MAY HAVE BEEN BETTER AT THE TIME THAT YOU CAME IN AND ANSWERED QUESTIONS FOR THE INVESTIGATIVE SUBPOENA THAN IT IS AS YOU SIT IN COURT TODAY?

SPEAKER: WITNESS (offset 59376ms)
YES.

SPEAKER: ATTORNEY (offset 61728ms)
AND DO YOU RECALL BEING ASKED THE QUESTION -- EXCUSE ME -- WHEN YOU SAW THE FIRE TRUCKS ARRIVE -- AND I'M ON PAGE 29 -- DID YOU AGREE THE PROGRESS OF THE FIRE THEN? IN OTHER WORDS, DID YOU LOOK AT IT TO SEE WHAT -- YOUR ANSWER WAS, IT LOOKED THE SAME TO ME. DO YOU RECALL GIVING THAT ANSWER?

SPEAKER: WITNESS (offset 82144ms)
YES.

SPEAKER: ATTORNEY (offset 82896ms)
OKAY. AND WAS THAT AN ACCURATE ANSWER AT THE TIME YOU GAVE IT?

Filter Criteria

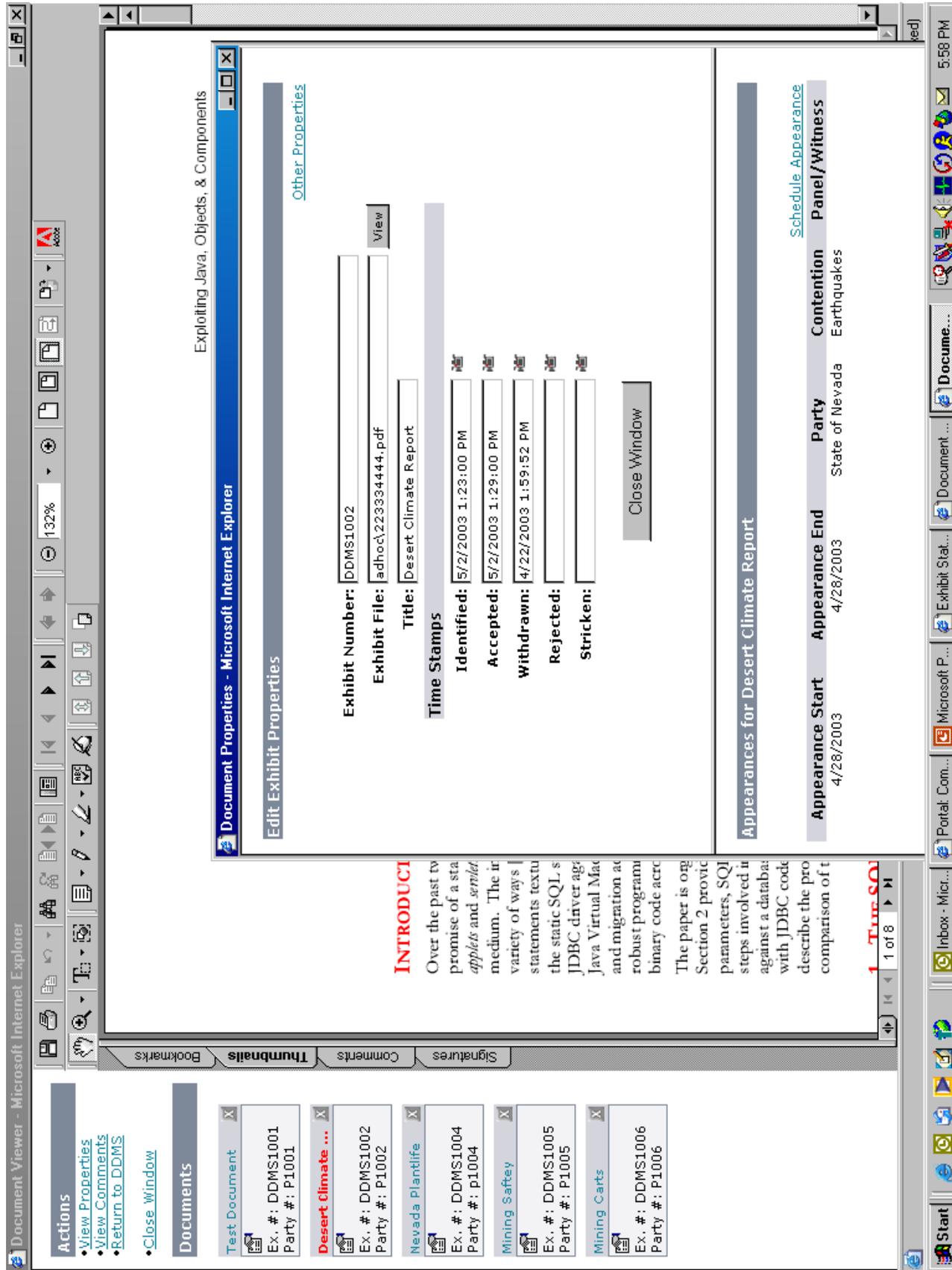
Courtroom All Party All Status All Board All

Displaying 1 - 9 of 9

[View Unidentified](#)

Exhibit #	Party #	Transcript Page	Title	Status	Status Date	Party	Courtroom	Board
<input type="checkbox"/> DDMS1006	P1006		Mining_Carts	Withdrawn	5/15/2003	State of Arizona	Las Vegas	Board1
<input type="checkbox"/> DDMS1006	P1006		Mining_Carts	Withdrawn	5/15/2003	DOJ	Las Vegas	Board1
<input type="checkbox"/> DDMS1004	p1004		Nevada Plantlife	Identified	5/14/2003	DOJ	Las Vegas	Board1
<input type="checkbox"/> DDMS1004	p1004		Nevada Plantlife	Identified	5/14/2003	DOJ	Rockville	Board2
<input type="checkbox"/> DDMS1005	P1005		Mining_Saftey	Accepted	5/8/2003	State of Arizona	Las Vegas	Board1
<input type="checkbox"/> DDMS1001	P1001		Test Document	Accepted	5/2/2003	DOJ	Las Vegas	Board1
<input type="checkbox"/> DDMS1002	P1002		Desert Climate Report	Accepted	5/2/2003	State of Nevada	Rockville	Board2
<input type="checkbox"/> DDMS1001	P1001		Test Document	Accepted	5/2/2003	DOJ	Las Vegas	Board1
<input type="checkbox"/> DDMS1001	P1001		Test Document	Accepted	5/2/2003	State of Nevada	Rockville	Board2

Close



Witness Manager - Microsoft Internet Explorer

Back Search Favorites Google AltaVista Ask Jeeves AlltheWeb LookSmart Customise this toolbar Highlight

my Search

Witness Manger

Views

- [Witnesses](#)
- [Panel](#)
- [Appearances](#)

Functions

- [Add Witness](#)
- [Add Panel](#)

[Close Window](#)

Panel List

Displaying 1 - 6 of 6

Search Panels Go

Panel Name

- Himan
- Joy's First Panel
- New Panel
- Panel1
- Panel2
- Panel3

[Show All](#)

Start | Inbox | Portal C... | Microsoft... | Exhibit S... | Docume... | Docume... | Witness... | 5:59 PM

Portal: Communities - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media

Address http://172.24.23.35/portal/communities/community.asp?UserID=1&intCommunityIndex=1&intCurrentPageIndex=2&intCurrentFolder=&CommunityID=204

My Search Google AltaVista Ask Jeeves AlltheWeb LookSmart Customise this toolbar Highlight

Wednesday, May 28, 2003 HELP

COMMUNITIES JUDGES COMMUNITY

Document Search Search Options: Advanced | Network | Saved

MY PAGES COMMUNITIES DOCUMENTS LAWYERS JUDGES COMMUNI... CLERK OF THE C...

WITNESSES

Witness Manager

Search List

First Last Go

Last 5 Witnesses

Name	Party
Tullis, Tommy J	DOJ
Randell, Ryan R	State of Nevada
Smith, Blam S	DOJ
Harrison, Harry T	DOJ

[Witness Manager](#)

Witness Schedule

<< Prev Week This Week Next Week >>

Witness	Mon 5/19	Tue 5/20	Wed 5/21	Thur 5/22	Fri 5/23
Tullis, Tommy J					

Search for other items: Files or Folder: Comp... Pen...

Start | Internet | Microsoft PowerPoint - [D... | Portal: Communities - ... | Inbox - Microsoft Outlook | Portal: Communities - Microsoft Internet Explorer

6:07 PM

Portal: Communities - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://172.24.23.35/portal/communities/communities.asp?1UserID=1&intCommunityIndex=1&intCurrentPanelIndex=2&intCommCurrentFolder=&CommunityID=2014#>

My Search

Search X

Ne >>

Choose a category for your search

CF CF CF CP CF CL CF

Find Web content

Bro... to... by... MSN Search

Search for other items: Files or Folder: Company People

http://172.24.23.35

Done

Internet

Scheduled Appearances - Microsoft Internet Explorer

Scheduled Appearances for Tulls, Tommy J

Appearance Start	Appearance End	Appearance Party	Contention
5/19/2003	5/19/2003	State of Nevada	Earthquakes
5/21/2003	5/21/2003	DOJ	Waste Transportation

[Nevada Plantlife](#) [Test Document](#) [Mining Carts](#)

Finished

03 HELP Go Go

Work | Saved

Week >>

5/23

Start

Inbox - Microsoft Outl... Portal: Communities - ... Microsoft PowerPoint... Scheduled Appe...

6:08 PM

Appearances

Filter Criteria

Location Party Contention Board

Limit by appearance date

Displaying 1 - 4 of 4

[Close Window](#)

Search Panel/Witness Name

Panel/Witness Name	Appearance Date	Party	Contention	Location	Name
Tullis, Tommy J	5/21/2003-5/21/2003	DOJ	Waste Transportation	Las Vegas	Board1
Randell, Ryan R	5/15/2003-5/15/2003	State of Nevada	Earthquakes	Rockville	Board2
Panel1	5/9/2003-5/9/2003	DOJ	Waste Transportation	Las Vegas	Board1
Harrison, Harry T	4/28/2003-4/29/2003	DOJ	Waste Transportation	Las Vegas	Board1

Witness Manager - Microsoft Internet Explorer

Back | Forward | Stop | Refresh | Home | Search | Favorites | Media | Ask Jeeves | AlltheWeb | LookSmart | Customize this toolbar | Highlight

my Search | Google | AltaVista | Ask Jeeves | AlltheWeb | LookSmart | Customize this toolbar | Highlight

Witness Manger

- Views
 - Witnesses
 - Panels
 - Appearances
- Functions
 - Add Witness
 - Add Panel

[Close Window](#)

Add Witness Information

First, Middle, Last Name:

Title:

Hearing Phase:

Schedule appearances for this witness

Start | Inbox - Microsoft Outl... | Portal: Communities - ... | Microsoft PowerPoint... | Witness Manager... | 6:00 PM

Portal: Search Results For "geochemical" - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://nrc-server1/portal/search/searchres.asp?UserID=2&SearchText=geochemical&LimitLanguage=EN

Google AltaVista Ask Jeeves AlltheWeb LookSmart Customise this toolbar Highlight

Go Links

Wednesday, May 28, 2003 HELP

DOCUMENT SEARCH

MY PAGES COMMUNITIES DOCUMENTS

Welcome Guest! Login

SEARCH RESULTS FOR "GEOCHEMICAL"

Jump To: [Folder Search](#) | [Document Search](#)

Folder Search

There were no Folders returned for this search.

Document Search

(1 - 4 out of 4)

- DRAFT OF UMBRELLA SITE TECHNICAL POSITION ON GEOCHEMISTRY ISSUES FOR NUCLEAR WASTE DISPOSAL IN TUFF (OPS PLAN 5314216.52).**

1. 003697293.txt DRAFT UMBRELLA SITE TECHNICAL POSITION **GEOCHEMICAL** ISSUES FOR A HIGH LEVEL WASTE DISPOSAL ... Last Modified: 3/6/2003 10:20:00 AM [Properties...](#) [DDMS Properties...](#)
- 003697293.txt - Notepad**

1. 003697293.txt DRAFT UMBRELLA SITE TECHNICAL POSITION **GEOCHEMICAL** ISSUES FOR A HIGH LEVEL WASTE DISPOSAL ... Last Modified: 3/6/2003 10:20:00 AM [Properties...](#) [DDMS Properties...](#)
- 003697293.txt - Notepad (2)**

1. 003697293.txt DRAFT UMBRELLA SITE TECHNICAL POSITION **GEOCHEMICAL** ISSUES FOR A HIGH LEVEL WASTE DISPOSAL ... Last Modified: 3/6/2003 10:20:00 AM [Properties...](#) [DDMS Properties...](#)
- 003697293.txt - Notepad (3)**

1. 003697293.txt DRAFT UMBRELLA SITE TECHNICAL POSITION **GEOCHEMICAL** ISSUES FOR A HIGH LEVEL WASTE DISPOSAL ... Last Modified: 3/6/2003 10:20:00 AM [Properties...](#) [DDMS Properties...](#)

Find Web cont Broc to yc by MSN Sea

Search for other items: Files or Folder: Comp: Pen: ...

Start | Inbox - Microsoft Outlook | Portal: Search Result... | Local intranet | 6:05 PM

Microsoft Internet Explorer window showing a document page. The address bar contains: <http://mc-server1/portal/PTCache/003697293.pdf?ID=203&PTToken=8A170C0CCC8D4ECD8C4E1F8C0CCC1F4C>

Document Content:

003697293.txt

ACCESSION #: 8408210115
July 30, 1984

MEMORANDUM FOR:

- Seth M. Coplan, NWSI Project Leader
Repository Projects Branch
Division of Waste Management
- John T. Greeves, Section Leader
Mining, Geoen지니어링 Facility Design
Section
Engineering Branch
Division of Waste Management
- Timothy C. Johnson, Section Leader
Materials Engineering Section
Engineering Branch
Division of Waste Management
- R. John Starmer, Section Leader
Geochemistry Section
Geotechnical Branch
Division of Waste Management

FROM:

SUBJECT: DRAFT OF UMBRELLA SITE TECHNICAL POSITION ON GEOCHEMISTRY ISSUES FOR NUCLEAR WASTE DISPOSAL IN TUFF (OPS PLAN 5314216.52)

Navigation bar: 1 of 11, 8.5 x 11 in, Done

Taskbar: Microsoft Outlook, Microsoft PowerPoint, Local intranet, 6:06 PM



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- *LSN Administrator Report on Status of LSN*
- *Panel Discussion; Questions and Answers*
- *Alternatives for High-Level Waste Electronic Docket Documents*
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- *Draft Guidance for Submission of Electronic Docket Materials*
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