

# LSN Library Search User Guide

VERSION 1.2

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## **Purpose**

This User Guide provides you with information and tips for using the Licensing Support Network (LSN) Library Search Tool. This tool will allow users to perform searches for documents located in the LSN Library.

## **General Information**

### **System Overview**

The Licensing Support Network (LSN) Library is part of the agency's ADAMS official recordkeeping system. The LSN Library search provides access to publicly available documents related to the hearings regarding the Department of Energy's application for authorization to construct a high-level nuclear waste geologic repository at Yucca Mountain, Nevada.

The LSN Library Search Tool is a Web-based system that allows users to narrow search results and quickly identify documents of interest. A variety of features are available to enhance the search process. Each of the features will help users to tailor their searches to receive the most accurate set of results.

All headers/documents under NRC records retention policy as defined by the National Archives and Records Administration. It is operated and maintained by the NRC Office of the Chief Information Officer. The underlying search engine is IBM Watson. Operation of certain features is dependent upon the operating system and browser used to access the LSN Library

It was built from High Level Waste (HLW) hearing participant collections submitted to the Office of the Secretary (SECY) in response to the April 11, 2011 order issued by Construction Authorization Board-04 (CAB-04) (ML111010483). It was verified using the Licensing Support Network Administrator's (LSNA) final list of LSN Accession Numbers and the corresponding Participant Accession Numbers provided to SECY per July 28, 2011 CAB-04 order (ML11209C291). Audit found anomalies between HLW hearing participants' submissions and LSNA list that have been resolved and are documented in the LSN Library Anomaly Resolution document (ML17087A500). LSN Does not currently\* provide a mechanism for HLW hearing participants to add new documents to their previously submitted collections modify previously submitted headers/documents. Requests to access information contained in the LSN Library, represented by a Header Only entry, should be directed to the organization that submitted the entry. Organizations can be identified using either of the two following pieces of information (see below table)

- i. First three characters of LSN Accession Number
- ii. Information Source designation

LSN Accession Number Prefix	Information Source
AKN	AIKEN COUNTY, SC
CEC	CALIFORNIA ENERGY COMMISSION
CHU	CHURCHILL COUNTY, NV
CLE	CITY OF CLIENTE, NV
LAS	CITY OF LAS VEGAS, NV
CLK	CLARK COUNTY, NV
DEN and DN2	DOE
ESM	ESMERALDA COUNTY, NV
EUR	EUREKA COUNTY, NV
CAL	INYO COUNTY, CA
JTS, TBS, and TSP	JOINT TIMBISHA SHOSHONE TRIBAL GROUP
LND	LANDER COUNTY, NV
LNC	LINCOLN COUNTY, NV
MNE	MINERAL COUNTY, NV
NAR	NATIONAL ASSOCIATION OF REGULATORY COMMISSIONERS
NCA	NATIVE COMMUNITY ACTION COUNCIL
NEN	NUCLEAR ENERGY INSTITUTE
NYE	NYE COUNTY, NV
PSL	PRAIRIE ISLAND INDIAN COMMUNITY
NEV	STATE OF NEVADA
SSC	STATE OF SOUTH CAROLINA
SWA	STATE OF WASHINGTON
NRC	U.S. Nuclear Regulatory Commission
WHP	WHITE PINE COUNTY, NV

### LSN Library Link

The below URL can be used to access LSN Library\*

<https://adamspublic.nrc.gov/navigator>

\*Login is not required for LSN Access

### Points of Contact

For assistance, contact [PDR.Resource@nrc.gov](mailto:PDR.Resource@nrc.gov)

Telephone: 1-800-397-4209 or 301-415-4737

<http://www.nrc.gov/reading-rm/pdr.html>

Hours of Operation: 8:00 a.m. to 4:00 p.m., Monday to Friday except Federal Holidays

## LSN Library Resources

LSN Help and References can be found by clicking on the links below.

[Help and References](#)

[LSN Library Quick Reference Guide](#)

[LSN Library User Guide](#)

[LSN Library Anomaly Resolution](#)

## LSN Library Splash Page

The LSN Library Announcements page is displayed each time a user accesses the LSN Library. This page will provide information regarding any upcoming training activities, system maintenance activities, or other general information regarding the LSN Library. Splash screen is seen below.

### LSN Library Announcements

---

This announcement page will contain messages for LSN Library users, including upcoming training opportunities, system maintenance activities, or general information regarding the LSN Library.

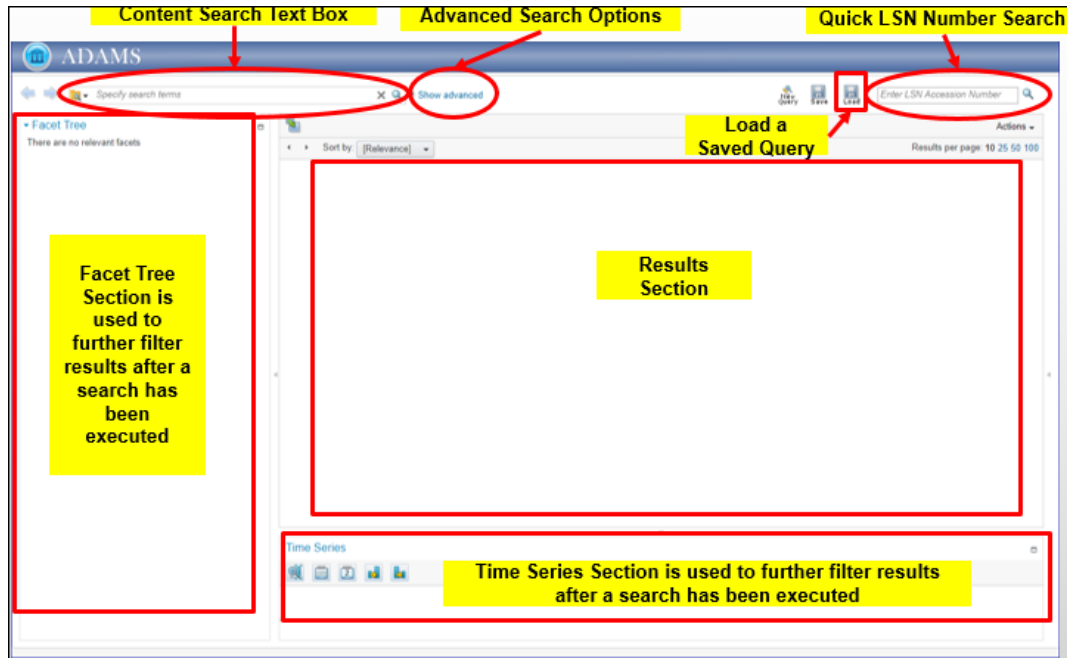
If you require assistance with the LSN Library, please click on the link below entitled "LSN Library Help and References."

[Continue to LSN Library](#)


[LSN Library Help and References](#)

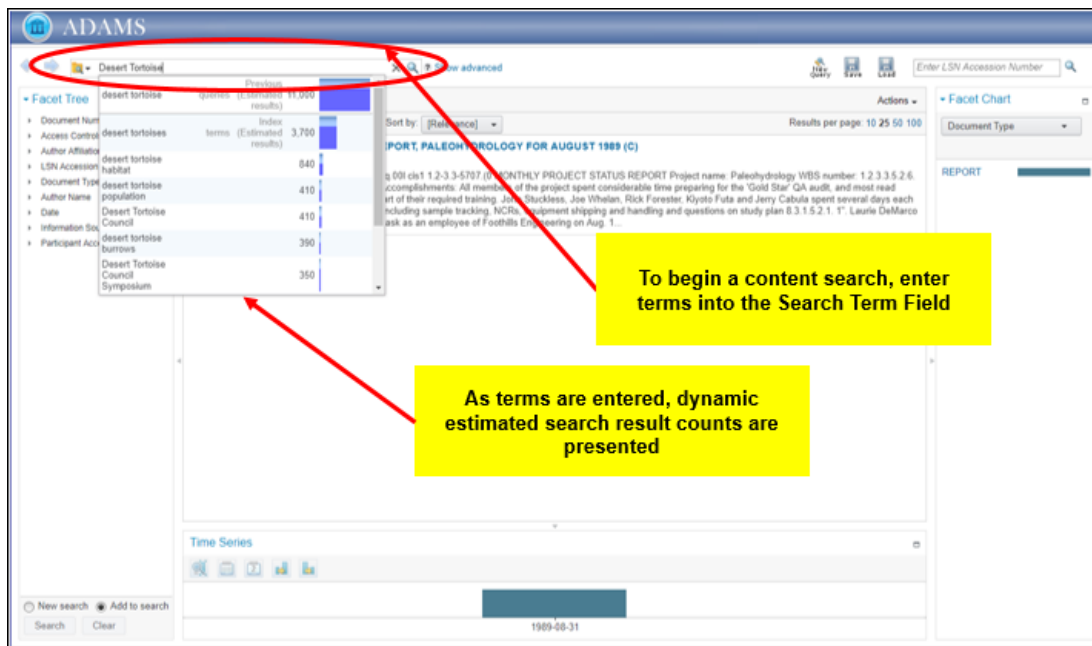
## LSN Library Search Page

When you access the LSN Library using this URL, <https://adamspublic.nrc.gov/navigator>, the Search Page for the LSN Library will appear. From this page you are able to enter basic search criteria in the 'content search' field and use the various features highlighted below to narrow down the searches.



## Content Search

To conduct a basic search, enter your search criteria into the search bar highlighted below 'Specify search terms', then click  search.



The results of your search will be displayed as seen below.

The screenshot displays the ADAMS search results interface. Annotations with yellow boxes and red arrows point to specific features:

- 1 - # of results:** Points to the search bar area.
- 2 - # of result pages:** Points to the pagination controls (1 2 3 4 5 ... 10).
- 3 - Results sort options:** Points to the "Sort by: [Relevance]" dropdown menu.
- 4 - Results per page:** Points to the "Results per page: 10 25 50 100" dropdown menu.
- Results Section:** A yellow box highlights the main list of search results.

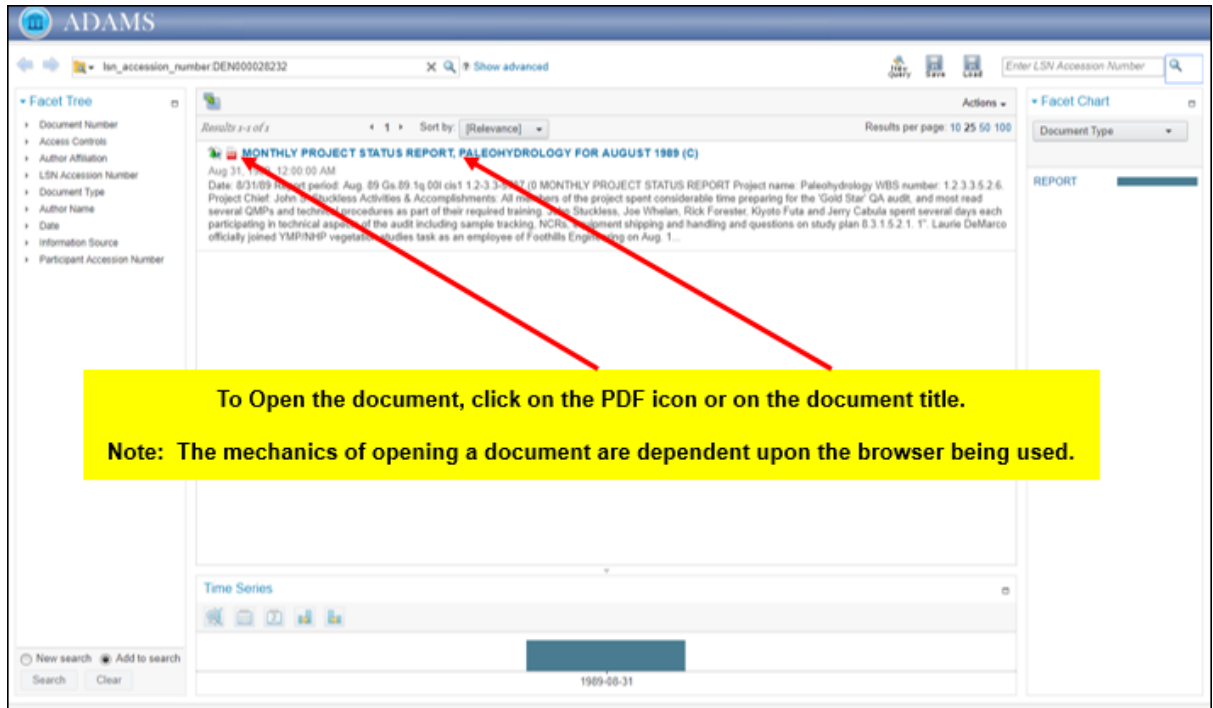
The search results list includes the following entries:

- "DISTRIBUTION AND RELATIVE DENSITIES OF THE DESERT TORTOISE, GOPHERUS AGASSIZII, IN LINCOLN AND NYE COUNTIES, NEVADA" PROCEEDINGS OF THE SIXTH ANNUAL SYMPOSIUM OF THE DESERT TORTOISE COUNCIL (C)**  
Jan 1, 1961, 12:09:00 AM  
... INSTRUCTION SHEET Page: 1 of 1 Complete Only Applicable Items This is a placeholder page for records that cannot be ...  
Title/Description "Distribution and Relative Densities of the **Desert Tortoise**, Gopherus Agassizii ... Nevada." Proceedings of the Sixth Annual Symposium of the **Desert Tortoise** Council, 28-30 March 1961, Riverside, California ... 92 [Riverside, California] **Desert Tortoise** Council 7. Document Number(s) 8. Version Designator NIA NIA 9 ...
- "DISTRIBUTION AND RELATIVE DENSITIES OF THE DESERT TORTOISE IN NEVADA" (C)**  
Jan 1, 1960, 12:08:00 AM  
OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT 1. QA: NIA SPECIAL INSTRUCTION SHEET Page: 1 of 1 Complete Only Denalties of the **Desert Tortoise** in Nevada." Proceedings of the Fifth Annual Symposium of the **Desert Tortoise** Council ... 87 Long Beach, California **Desert Tortoise** Council. 7. Document Number(s) 8. Version Designator NIA NIA 9 ... DOCUMENT CAN BE LOCATED THROUGH THE TECHNICAL INFORMATION CENTER Q:\group\EIS\AR\Completed Forms\SIS Forms\TIC ...
- "PRELIMINARY DATA ANALYSIS FROM THREE DESERT TORTOISE LONG-TERM MONITORING PLOTS IN ARIZONA: SHELTER SITE USE AND GROWTH", IN DESERT TORTOISE COUNCIL PROCEEDINGS OF 1996 SYMPOSIUM, MARCH 29-APRIL 1, 1996 IN LAS VEGAS, NEVADA, PAGES 10-17**  
Jan 1, 1996, 12:00:00 AM  
... INSTRUCTION SHEET Page: 1 of 1 Complete Only Applicable Items This is a placeholder page for records that cannot be ... C.; Klag, C.M. **Desert Tortoise** Council 6. Title/Description "Preliminary Data Analysis from Three **Desert Tortoise** ... Shelter Site Use and Growth", in **Desert Tortoise** Council Proceedings of 1996 Symposium, March 29-April 1, 1996 in Las ...
- "A TWO YEAR SURVEY OF THE PRESENCE OF SPECIFIC ANTIBODY TO (MYCOPLASMA AGASSIZII) IN THE SERUM OF DESERT TORTOISES FROM THREE GEOGRAPHICAL LOCATIONS", IN PROCEEDINGS OF THE 1994 DESERT TORTOISE COUNCIL SYMPOSIUM, PAGES 147-148 (C)**  
Jan 1, 1995, 12:09:00 AM  
... INSTRUCTION SHEET Page: 1 of 1 Complete Only Applicable Items This is a placeholder page for records that cannot be ... P.A. Nagy, K. **Desert Tortoise** Council 6. Title/Description "A Two Year Survey of the Presence of Specific Antibody ... **Desert Tortoise** from three Geographical Locations", in Proceedings of the 1994 **Desert Tortoise** Council Symposium ... LSN). Copy can be viewed in the YMP Technical Information Center (TIC) THIS COPYRIGHT-PROTECTED DOCUMENT CAN BE LOCATED ...

At the bottom of the page, there is a "Time Series" section with a bar chart showing data from 1902 to 2006.

## Opening a Document

Once you have completed a search, you can open the documents that were found.

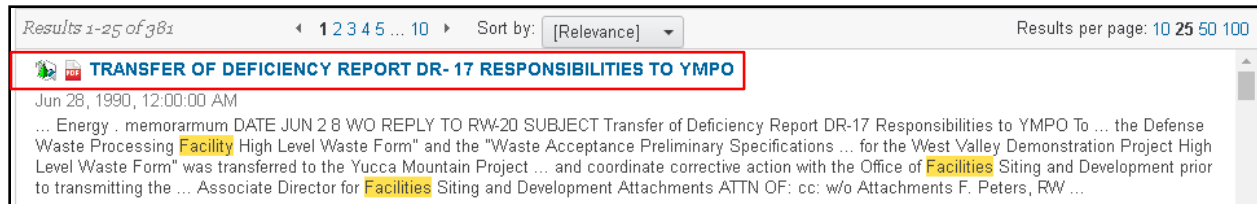


To Open the document, click on the PDF icon or on the document title.

Note: The mechanics of opening a document are dependent upon the browser being used.

### In Chrome:

Locate the document you wish to open and click on the document's title.



Results 1-25 of 381    Sort by: [Relevance]    Results per page: 10 25 50 100

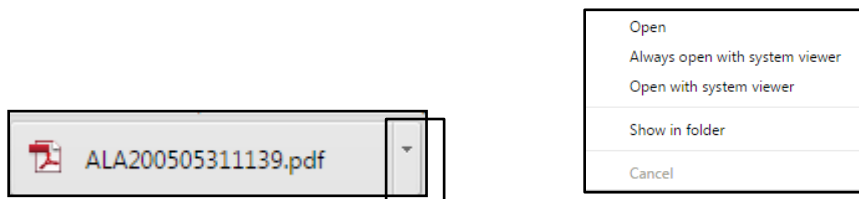
**TRANSFER OF DEFICIENCY REPORT DR- 17 RESPONSIBILITIES TO YMPO**

Jun 28, 1990, 12:00:00 AM

The document will download in the Downloads folder.

Click on the down arrow at the bottom of the screen and choose open to view the document.

The document will open in a new tab.



ALA200505311139.pdf

- Open
- Always open with system viewer
- Open with system viewer
- Show in folder
- Cancel



**In Internet Explorer:**

Locate the document you wish to open and click on the document's title.

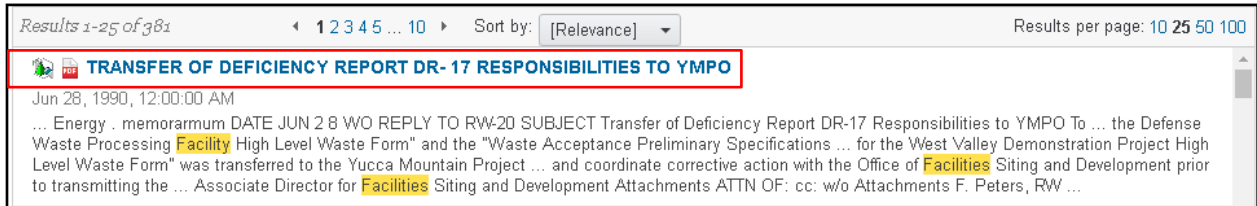
A pop up will appear at the bottom of the screen. Click Open to view the document. The document will open in a new window.



**In Safari:**

Locate the document you wish to open and click on the document's title.

The document will open in a new window while it gets downloaded in the Downloads folder.

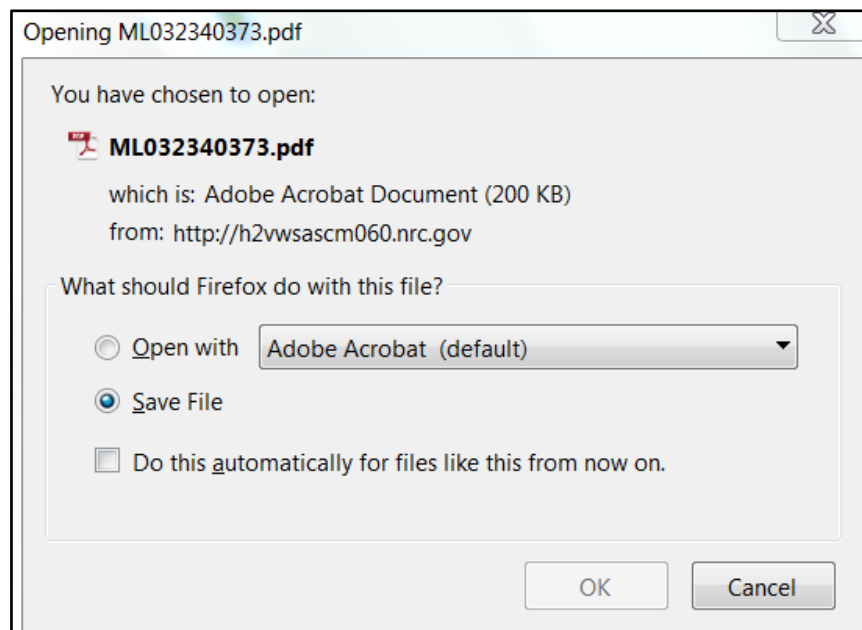


**In Firefox:**

Locate the document you would like to open and click the document title. A popup will appear asking what Firefox should do with this file.

The pop up gives the options to open with Adobe Acrobat or save the file.

Choose 'Open with Adobe Acrobat'. The Document will open in a new browser.



## Page Layout

From the search results page you are able to open and close the panes on the sides and bottom of the results. Click on any of the highlighted arrows and the appropriate pane will open or close. The left arrow opens or closes the Facet Tree, the right arrow the Facet Chart and the bottom arrow the Time Series Chart as displayed in the image below.

The screenshot displays the ADAMS search results interface. The search term is 'facility'. The results are sorted by relevance, showing 1-25 of 612349 results. The first result is '2002 U.S. Benchmarks Survey of Facility Management Practices' dated Apr 26, 2002. The second result is 'SPECIAL INSTRUCTION SHEET FOR UE-25 RF #111 CORE VIDEO DVD: UNEDITED AND EDITED COPY NO. 1 (C)' dated Nov 9, 2007. The third result is 'SPECIAL INSTRUCTION SHEET FOR UE-25 RF #75 CORE VIDEO DVD: UNEDITED AND EDITED COPY NO. 1 (C)' dated Nov 7, 2007. The interface includes a Facet Tree on the left, a Facet Chart on the right, and a Time Series chart at the bottom. Red boxes highlight the left arrow of the Facet Tree, the right arrow of the Facet Chart, and the bottom arrow of the Time Series chart.

ADAMS

facility

Results 1-25 of 612349

Sort by: [Relevance]

Results per page: 10 25 50 100

2002 U.S. Benchmarks Survey of Facility Management Practices

Apr 26, 2002, 12:00:00 AM

From: FMDC - Facility Management <phil@fmdceducation.com> UpdatedBy: ;CN=YMLN11/OU=YDIO=RWDDE;CN=YMLN6/OU ... CopyTo: ReplyTo: BlindCopyTo: Subject: 2002 U.S. Benchmarks Survey of Facility Management Practices Body: - C. ...

SPECIAL INSTRUCTION SHEET FOR UE-25 RF #111 CORE VIDEO DVD: UNEDITED AND EDITED COPY NO. 1 (C)

Nov 9, 2007, 12:00:00 AM

MOL\_20071115.0192 OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT - 1. QA: QA SPECIAL INSTRUCTION SHEET Page 1 ... for this core is maintained at the Sample Management Facility, NTS, Area 25 THIS IS AN ELECTRONIC DOCUMENT 14. RPC ...

SPECIAL INSTRUCTION SHEET FOR UE-25 RF #75 CORE VIDEO DVD: UNEDITED AND EDITED COPY NO. 1 (C)

Nov 7, 2007, 12:00:00 AM

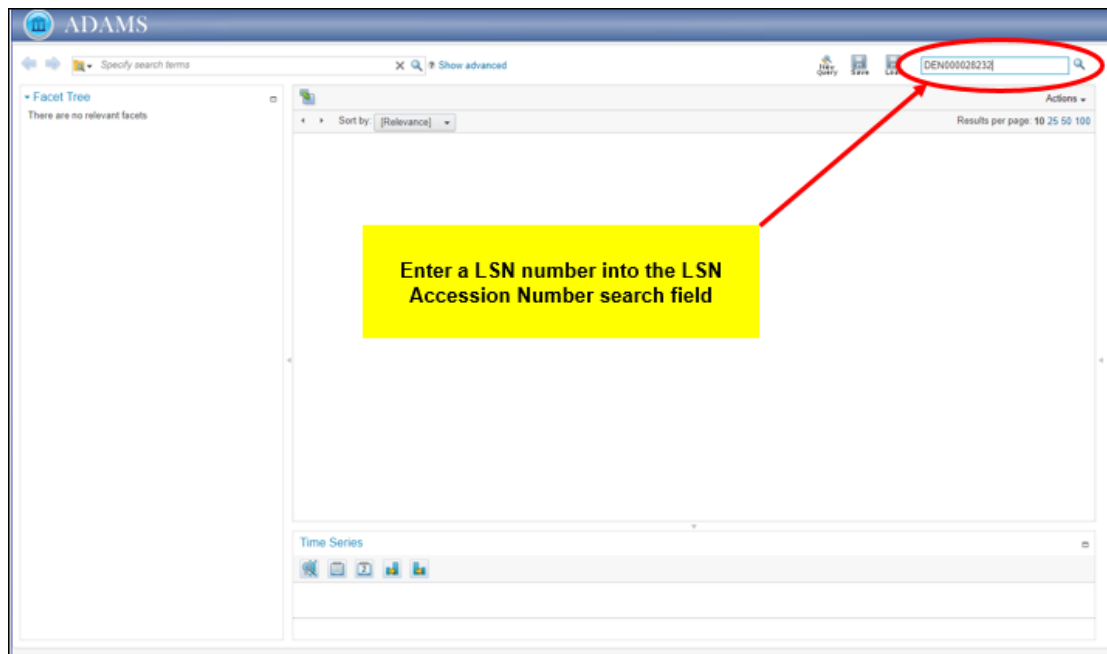
MOL\_20071115.0194 OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT 1. QA: QA SPECIAL INSTRUCTION SHEET Page 1 ... for this core is maintained at the Sample Management Facility, NTS, Area 25 THIS IS AN ELECTRONIC DOCUMENT 14. RPC ...

Time Series


1902 1907 1912 1917 1922 1927 1932 1937 1942 1947 1952 1957 1962 1967 1972 1977 1982 1987 1992 1997 2002 2007

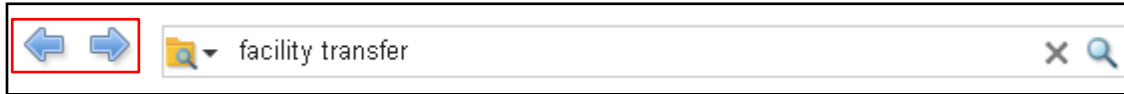
## LSN Accession Number Searches

If you know the LSN Accession Number for the document you are seeking, enter it into the search box in the upper right corner and then click the search button.



## Search Navigation

If you have completed more than one search, use the  buttons to go back and forth between searches



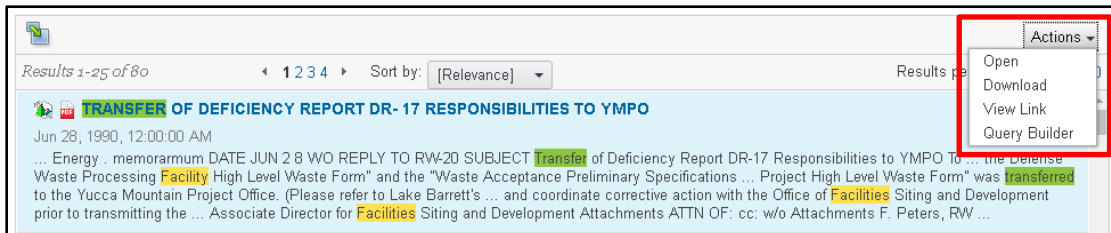
## Actions

Once you have selected a document, click on the Actions drop down for the options available for that document.

Document Action: When you get your search results and find your document you can right click on it to perform document actions. You can also get these document actions by clicking on the Action button on the top right hand corner.

These Actions include:

- Open = Opens the document in pdf format, you can print the document after viewing it.
- Download = Downloads the document to a folder with the options of Save, Saves As & Save and Open
- View Link = Allows the user to view the link and copy and paste the link in emails, and web pages.
- Query Builder = Allows you to build a Query by Keyword, Phrase, Field or Proximity.



View Link allows you to copy and paste a hyperlink for the document into emails, chats and web pages. For the purpose of the LSN Library, there will only be one version of each document so choosing released, current or choosing a specific version will yield the same hyperlink.

**View Link**  
You can copy and paste the link into emails, chats, and web pages. If there are multiple versions of the item, specify which version you want to link to.

TRANSFER OF DEFICIENCY REPORT DR- 17 RESPONSIBILITIES TO YMPO

Version: **Released** Current Specific Version ▾

```
https://adamspublictest.nrc.gov/navigator/bookmark.jsp?desktop=ADAMSPublicLSN&repositoryId=PublicLSNLibrary&repositoryType=p8&docid=LSNDocument%2C%7B147362ED-1C7D-4676-9955-84789F779960%7D%2C%7BA22F0E49-7BD2-4613-A215-1EBDDAF5791B%7D&mimeType=application%2Fpdf&template_name=LSNDocument&version=released&vsId=%7B38A1F753-1598-48D2-A2A8-1108AE88313E%7D
```

Close

Query Builder is explained in detail in the Query Builder Section below.

Results 1-25 of 80    Sort by: [Relevance]    Results per page: 10

**TRANSFER OF DEFICIENCY REPORT DR- 17 RESPONSIBILITIES TO YMPO**  
Jun 28, 1990, 12:00:00 AM  
... Energy . memorandum DATE JUN 28 WO REPLY TO RW-20 SUBJECT **Transfer** of Deficiency Report DR-17 Responsibilities to YMPO to the Defense  
Waste Processing **Facility** High Level Waste Form" and the "Waste Acceptance Preliminary Specifications ... Project High Level Waste Form" was **transferred**  
to the Yucca Mountain Project Office. (Please refer to Lake Barrett's ... and coordinate corrective action with the Office of **Facilities** Siting and Development  
prior to transmitting the ... Associate Director for **Facilities** Siting and Development Attachments ATTN OF: cc: w/o Attachments F. Peters, RW ...

Actions ▾  
Open  
Download  
**View Link**  
**Query Builder**

## Results Sorting

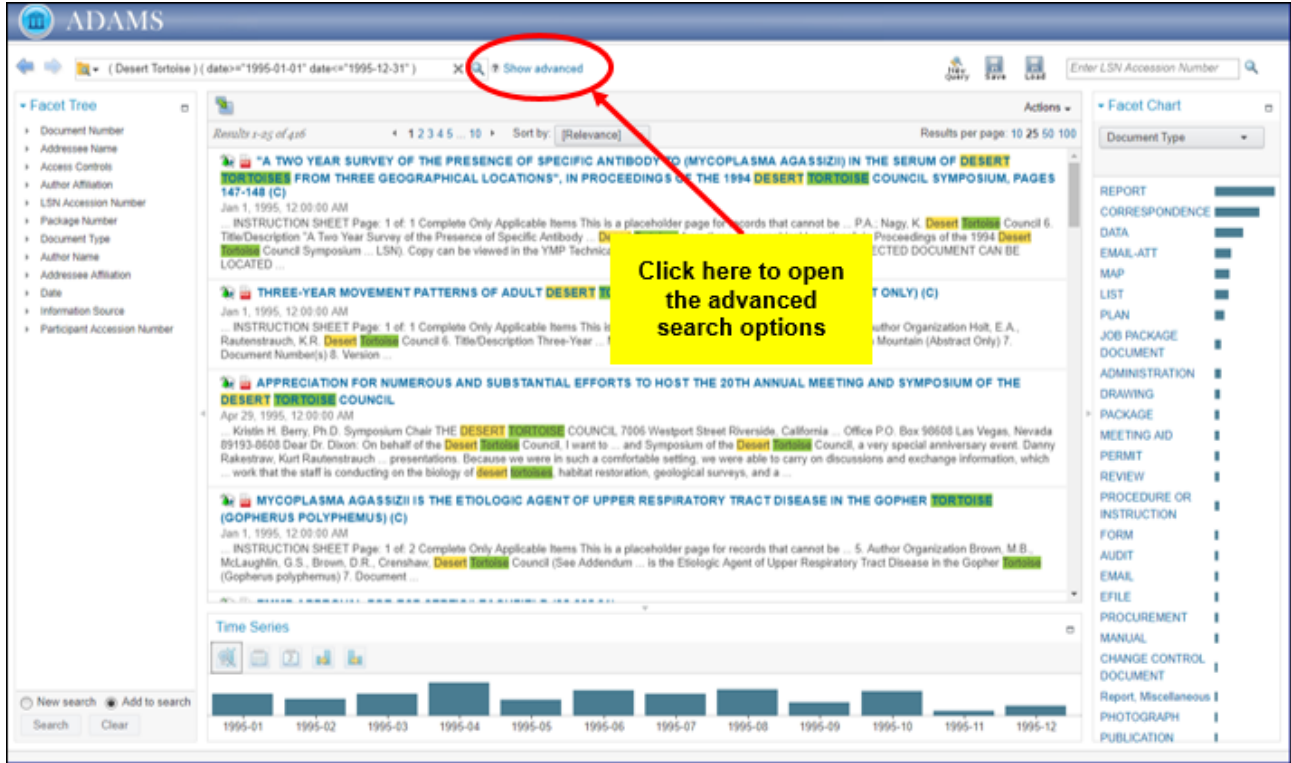
The result section can be sorted by a variety of options. These include:


- Date – Document Date
- Document Type
- Information Source – Name of the party that provided the document
- LSN Accession Number
- Participant Accession Number
- Title

The screenshot displays the ADAMS search results interface. At the top, a yellow box labeled "Results Sort Options" has a red arrow pointing to a dropdown menu. The dropdown menu lists the following sorting options: [Relevance], Date Descending, Date Ascending, document\_type Descending, document\_type Ascending, filesize Descending, filesize Ascending, information\_source Descending, information\_source Ascending, lsn\_accession\_number Descending, lsn\_accession\_number Ascending, participant\_accession\_number Descending, participant\_accession\_number Ascending, title Descending, and title Ascending. The main search results area shows several document entries with their titles and dates. On the right side, there is a "Facet Chart" showing various document types with corresponding bar lengths. At the bottom, there is a "Time Series" chart showing a distribution of results over time from 1902 to 2006.

## Advanced Search

For a more in-depth search, click on 'Show Advanced' and the Advanced Search options will be displayed.



Enter search criteria in to the available boxes. Once the search criteria is entered, click the search button . The description of each 'Advanced Search' Criteria is listed below.

**Advanced Search**   Query Expansion   Refined By   Query Tree

New search    Add to search   

All of these words:	<input type="text"/>	The exact phrase:	<input type="text"/>
Any of these words:	<input type="text"/>	None of these words:	<input type="text"/>
Start date:	<input type="text"/>	End date:	<input type="text"/>
Field query:	<input type="text"/>		

- All of these words = The search pulls up all documents that have the words added in the search field
- Any of these words = The search pulls up all documents with any of the words in the search field for example if the search terms were Desert Tortoise, the results will show documents with either Tortoise or Desert in them.
- Start and End Date = The search pulls up documents that are within the date criteria.

- Field Query = The search pulls up documents by the property field criteria like Document Type, Addressee Affiliation etc.
- The Exact Phrase = The search pulls up all documents which contain the exact phrase that was added in the field.
- None of these words = The search pulls up all documents that do not contain the words added in that field.

Adding the word “symposium” to the “None of these words” option reduces the results from 416 to 388

The screenshot shows the ADAMS search interface. At the top, the search query is: (( Desert Tortoise ) ( date>="1995-01-01" date<="1995-12-31" ) -sy X Hide advanced. Below the search bar, there are tabs for Advanced Search, Query Expansion, Refined By, and Query Tree. The search criteria are set to "Add to search". The search terms are: "All of these words:" (empty), "Any of these words:" (empty), "Start date:" (empty), "Field query:" (empty), "The exact phrase:" (empty), and "None of these words:" (symposium). The results section shows 388 results, sorted by Relevance. The first three results are:

- THREE-YEAR MOVEMENT PATTERNS OF ADULT DESERT TORTOISES AT YUCCA MOUNTAIN (ABSTRACT ONLY) (C)**  
Jan 1, 1995, 12:00:00 AM  
... INSTRUCTION SHEET Page: 1 of: 1 Complete Only Applicable Items This is a placeholder page for records that cannot be ... 5. Author Organization Holt, E.A., Rautenstrauch, K.R. **Desert Tortoise** Council 6. Title/Description Three-Year ... Movement Patterns of Adult **Desert Tortoise** at Yucca Mountain (Abstract Only) 7. Document Number(s) 8. Version ...
- MYCOPLASMA AGASSIZII IS THE ETIOLOGIC AGENT OF UPPER RESPIRATORY TRACT DISEASE IN THE GOPHER TORTOISE (GOPHERUS POLYPHEMUS) (C)**  
Jan 1, 1995, 12:00:00 AM  
... INSTRUCTION SHEET Page: 1 of: 2 Complete Only Applicable Items This is a placeholder page for records that cannot be ... 5. Author Organization Brown, M.B., McLaughlin, G.S., Brown, D.R., Crenshaw, **Desert Tortoise** Council (See Addendum ... Is the Etiologic Agent of Upper Respiratory Tract Disease in the Gopher **Tortoise** (Gopherus polyphemus) 7. Document ...
- EMMP APPROVAL FOR ESF SEPTIC/LEACHFIELD (95-005.01)**  
Aug 9, 1995, 12:00:00 AM

At the bottom, there is a Time Series bar chart showing the distribution of results by year from 1995-01 to 1995-12. The chart shows a peak in 1995-04 and 1995-10.



Adding the exact phrase “movement patterns” reduces the results from 388 to 2

The screenshot shows the ADAMS search interface. The search query is: `(( (Desert Tortoise) (date>="1995-01-01" date<="1995-12-31") ) < X ? Hide advanced`. The search results are displayed in a list view, showing two documents:

- THREE-YEAR MOVEMENT PATTERNS OF ADULT DESERT TORTOISES AT YUCCA MOUNTAIN (ABSTRACT ONLY) (C)**  
Jan 1, 1995, 12:00:00 AM  
... INSTRUCTION SHEET Page: 1 of 1 Complete Only Applicable Items This is a placeholder page for records that cannot be ... tortoise Council 6. Title/Description Three-Year Movement Patterns of Adult Desert Tortoises at Yucca Mountain ...
- WORK SCOPE PLAN FOR THE TERRESTRIAL ECOSYSTEMS PROGRAM FISCAL YEAR 1996**  
Oct 27, 1995, 12:00:00 AM  
... Impacts of site characterization on desert tortoise as required in the Biological Opinion issued by the U.S. Fish and ... the Desert Tortoise Program. All of these reports will document work done to meet requirements of the YMSCP Biological ... Opinion. Reports summarizing other work done for the Desert Tortoise Program and are needed to develop population models and ... FY97. Diet of Desert Tortoises at Yucca Mountain - This report will summarize results of the the Food Habits Study. It will ... of Desert Tortoises at Yucca Mountain - This report will summarize findings of the disease and health monitoring study ... and health of tortoises at Yucca Mountain. Use of Burrows and Hibernacula by Desert Tortoises at Yucca Mountain - This ... past efforts at assessing the presence of desert tortoise in the Yucca Mountain ...

The interface includes a search bar, a query tree, a facet tree, and a time series chart.

You can Use the “Query Tree” to view the parameters

The screenshot shows the ADAMS search interface with a different search query: `(( (Desert Tortoise) date>="1995-01-01" -symposium ) ("movement patterns" < X ? Hide advanced`. The search results are displayed in a list view, showing two documents:

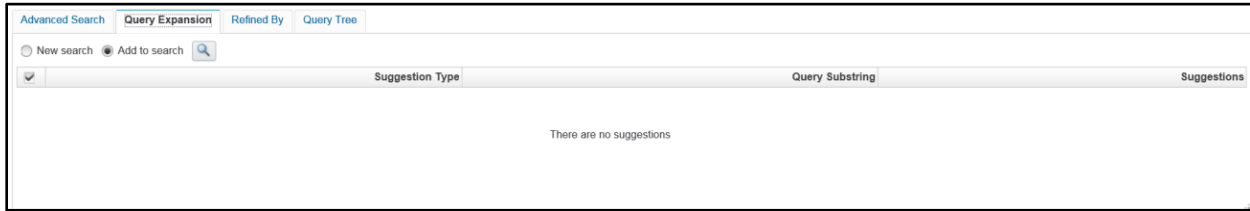
- THREE-YEAR MOVEMENT PATTERNS OF ADULT DESERT TORTOISES AT YUCCA MOUNTAIN (ABSTRACT ONLY) (C)**  
Jan 1, 1995, 12:00:00 AM  
... INSTRUCTION SHEET Page: 1 of 1 Complete Only Applicable Items This is a placeholder page for records that cannot be ... tortoise Council 6. Title/Description Three-Year Movement Patterns of Adult Desert Tortoises at Yucca Mountain ...
- EFFICACY OF RELOCATING DESERT TORTOISES AT YUCCA MOUNTAIN**  
Feb 26, 1997, 12:00:00 AM  
... 0 MOL.19980127.0123 YUCCA MOUNTAIN PROJECT Efficacy of Relocating Desert Tortoises at Yucca Mountain Photo ... Relocate tortoises Carapace Length (mm) Distance to Relocate (m) Adults > 180 200 - 1,000 Immatures 100 - 180 100 ... construction area • Disease • Movement patterns Results • 28 tortoises relocated • Pre-relocation Monitoring —6 ... Results: Survival • Only 1 of 28 died due to construction • 2 tortoises found dead (unknown cause) 8-12 months after ... tortoises unknown Results: Return to area • 4 tortoises returned to construction site - 1 was the tortoise killed on ... positive • % of relocated tortoises testing positive was similar to % testing positive in population (18%) Results ... Results: Movement Patterns • Compared home range size of relocated tortoises to nonrelocated tortoises of ... Summary • Relocation ...

The interface includes a search bar, a query tree, a facet tree, and a time series chart.

There are three other tabs besides the Advanced search tab as seen in the below screenshots.

## Query Expansion

This tab is not applicable to LSN and should not be used.



## Refined By


The "Refined By" tab shows how the query has been defined. From here, query parameters can be removed by clicking on the "Trash Can" icon.

The "Refined By" tab shows how the query has been defined. From here, query parameters can be removed by clicking on the "Trash Can" icon.

## Query Tree

The Query Tree can be used to display your query and edit it using the three buttons beside the keyword i.e. delete, exclude documents or edit. It gives you an idea of the number of documents by keyword. It is an editable field where one can 'exclude, delete or edit' the keywords and do a search. Once the edits are done,




you can click on the 'Save' button  on the top right hand corner of the screen to save the edited Search as a new Search.

The "Query Tree" tab shows how the parameters of the query are affecting the results. From the displayed list, parameter can be removed, switched from "to include" to "not include", or be edited.

## Document Properties and Property Searches

Each document has a list of properties such as Date and LSN Accession Number. To see the

document properties for any document click . The properties will display below the document title. You can click on the 'Property' button to collapse the properties when done. Only properties that contain information will be displayed.

Results 1-25 of 381    Sort by: [Relevance]    Results per page: 10 25 50 100

**TRANSFER OF DEFICIENCY REPORT DR- 17 RESPONSIBILITIES TO YMPO**

Jun 28, 1990, 12:00:00 AM

... Energy . memorandum DATE JUN 2 8 WO REPLY TO RW-20 SUBJECT Transfer of Deficiency Report DR-17 Responsibilities to YMPO To ... the Defense Waste Processing Facility High Level Waste Form" and the "Waste Acceptance Preliminary Specifications ... for the West Valley Demonstration Project High Level Waste Form" was transferred to the Yucca Mountain Project ... and coordinate corrective action with the Office of Facilities Siting and Development prior to transmitting the ... Associate Director for Facilities Siting and Development Attachments ATTN OF: cc: w/o Attachments F. Peters, RW ...

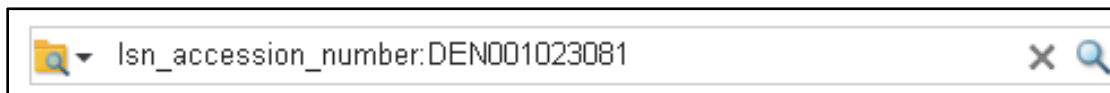
**lsn\_accession\_number:** DEN001023081  
**information\_source:** DOE  
**participant\_accession\_number:** ALA.20040215.4699  
**date:** Jun 28, 1990, 12:00:00 AM  
**number\_of\_images:** 1  
**addressee\_name:** GERTZ CARL N/A ISAACS T STEIN R SHELOR D LAHOTI R HALE J KIMBALL J BROCOUM S TREBULES V MILNER R PETERS F ROUSSO S WILMOT PETRIE IORII GERTZ  
**addressee\_affiliation:** YUCCA MOUNTAIN PROJECT OFFICE YUCCA MOUNTAIN PROJECT RW 40 RW 30 RW 3 RW 223 RW 222 RW 221 RW 22 RW 20 RW 2 RW 10 N/A AMTS AMO AMESH AMA

Below is a list of commonly used LSN Library document properties that you are able to search by:

Property Name	LSN Library Property
Accession Number	lsn_accession_number
Information Source	information_source
Participant Accession Number	participant_accession_number
Number of Images	number_of_images
Addressee Name	addressee_name
Addressee Affiliation	addressee_affiliation
Author Name	author name
Author Affiliation	author affiliation
Document Number	document number
Document Type	document type

Note: To search on a specific property, copy a property's LSN Library designation from the second column with colon after the property (document\_number:) into the search box. As an alternative, the advance search can also be used to search on a specific property.

Below is an example of how you would use one of the above properties in a search.



## Document View

You can preview the document in text format by clicking on the button beside the pdf button by the Document Title.

The screenshot shows the ADAMS (Advanced Document Analysis and Management System) interface. The top navigation bar includes the ADAMS logo and a search bar with the query "ssel head containment ) ( date>="1989-01-01" date<="1989-12-31" ) X". Below the search bar, there are buttons for "New Query", "Save", and "Load", and a field for "Enter LSN Accession Number".

The main content area displays a list of search results. The first result is highlighted and its details are shown in a preview pane. The document title is "DOCUMENT REVISION REQUEST NO CSDP-DRR-0012 OF DOE/ID-10178 CSDP QUALITY MANAGEMENT PLAN". The preview pane shows the document's metadata and a snippet of the text. The metadata includes:

- lsn\_accession\_number: DN2001101471
- information\_source: DOE
- participant\_accession\_number: MOV.19960930.0026
- date: Oct 23, 1989, 12:00:00 AM
- nondigital\_media\_indicator: OPTIC
- qs\_record\_indicator: N
- number\_of\_images: 1
- author\_name: BURRELL NS HALL IK HEAD CR JENSEN M WILBURN JL STEIN R LYLE JL
- author\_affiliation: DOE EG&G
- document\_number: CSDP-DRR-0012, 10178
- document\_type: PLAN CHANGE CONTROL DOCUMENT
- package\_number: MOV-950120-05-01

Below the metadata, there is a section for "WASTE MANAGEMENT SYSTEM REQUIREMENTS (WMSR) DOCUMENT, VOLUME IV: QAAP 3.1, DRAFT ATTACHED (C)". At the bottom of the interface, there is a "Time Series" chart showing data from 1989-01 to 1989-12.

The Document preview screen is displayed in text format. Click on the 'Close' button to Exit.

The screenshot shows a "Preview" window for a document. The title is "EXTERNAL DOSIMETRY TECHNICAL BASIS DOCUMENT FOR THE NEVADA TEST SITE AND OTHER DESIGNATED LOCATIONS, TBD-0441-001, REVISION 2, JANUARY 2003 (C) Date: Jan 1, 2003, 12:00:00 AM". The document content is displayed in text format. The text includes:


TBD-0441-001  
MOL.20030603.0054  
QA/NA  
EXTERNAL DOSIMETRY TECHNICAL BASIS DOCUMENT FOR THE NEVADA TEST SITE AND OTHER DESIGNATED LOCATIONS  
Revision 2 January 2003  
J. R. Flood M. McMahon  
Prepared by:  
Approved by: ae...41/AcZ  
WORK PERFORMED UNDER CONTRACT NO. DE-AC08-96NV11718  
HEALTH PHYSICS DEPARTMENT BECHTEL NEVADA CORPORATION POST OFFICE BOX 98521 LAS VEGAS, NEVADA 89193-8521

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At the bottom right of the preview window, there is a "Close" button.

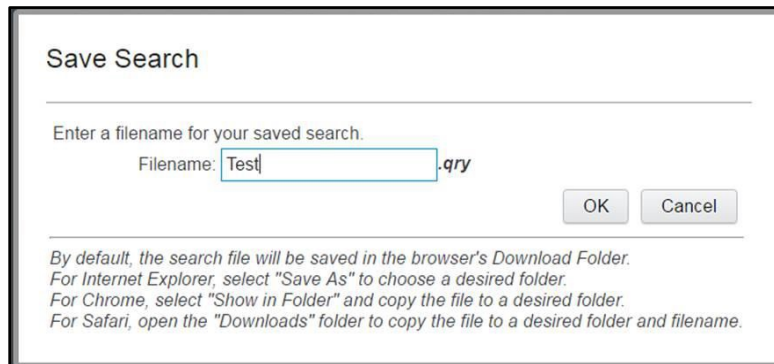
## Saving a Search

The LSN Library Search allows you to save your searches so you can access them again later.

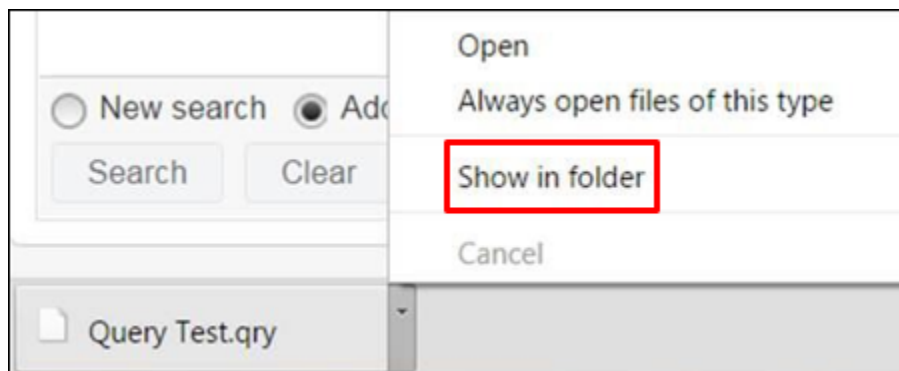
This can be done by clicking the  button.

### In Chrome:

A pop up will appear allowing you to name your search. Then click on the 'OK' button.



A popup will open at the bottom of the screen. Select 'Show in Folder' to save in the desired location on your computer.



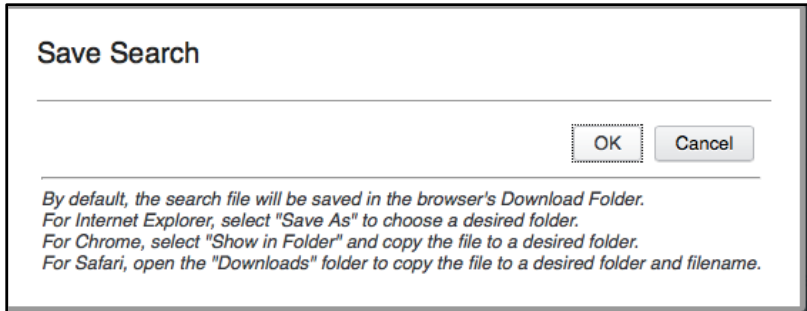
### In Internet Explorer:

A popup will open at the bottom of the screen. Click 'Save' then 'Save As'. Select the folder you want to save the search in.



### In Safari:

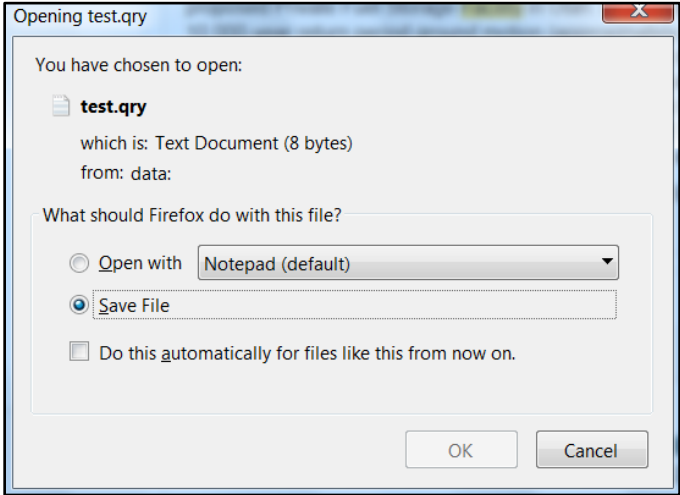
A pop up will appear as below indicating "you open your downloads folder to copy the file to a desired folder and filename". Then click on the 'OK' button.



**In Firefox:**

A pop up will open asking what should Firefox do with this file?

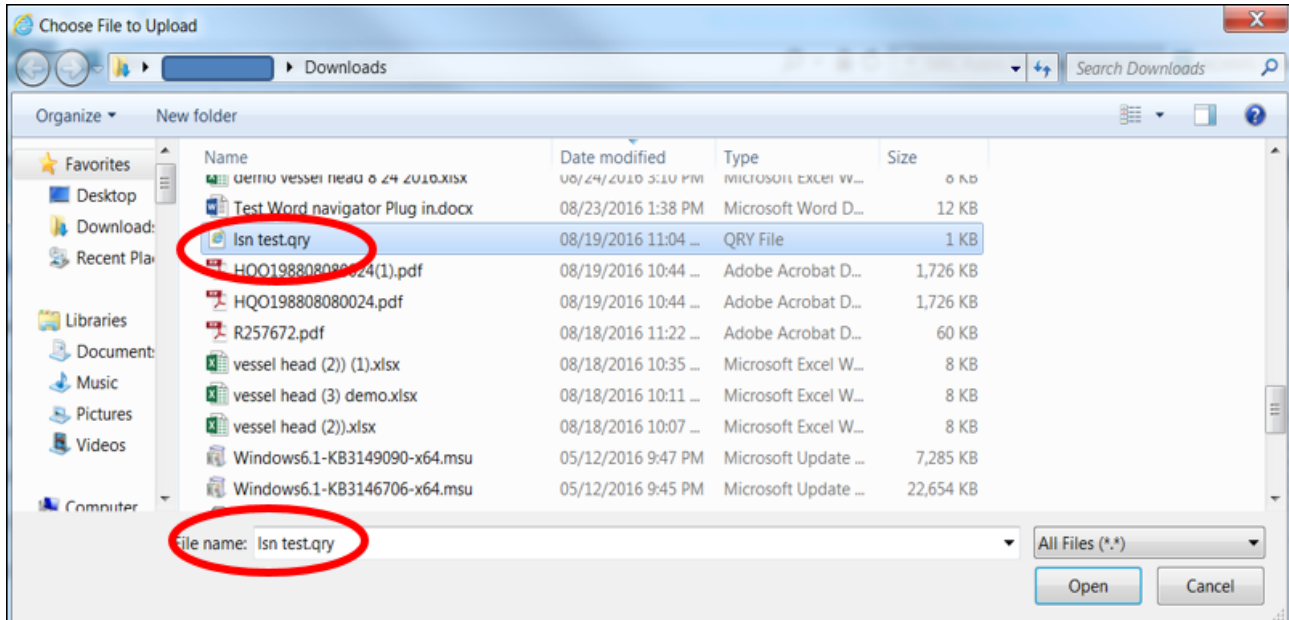
The pop up gives the options to 'Open with Notepad or Other' or 'Save file'. Choose 'Save file' option. By default the Search gets saved in the Downloads folder.



## Opening a Saved Search



To access a saved search click on the Load button. Choose the search from the folder you saved the search under and click 'Open' to display the search results. For Firefox, click on 'Choose' to display the search results after clicking on the saved search.





## Deleting a Saved Search

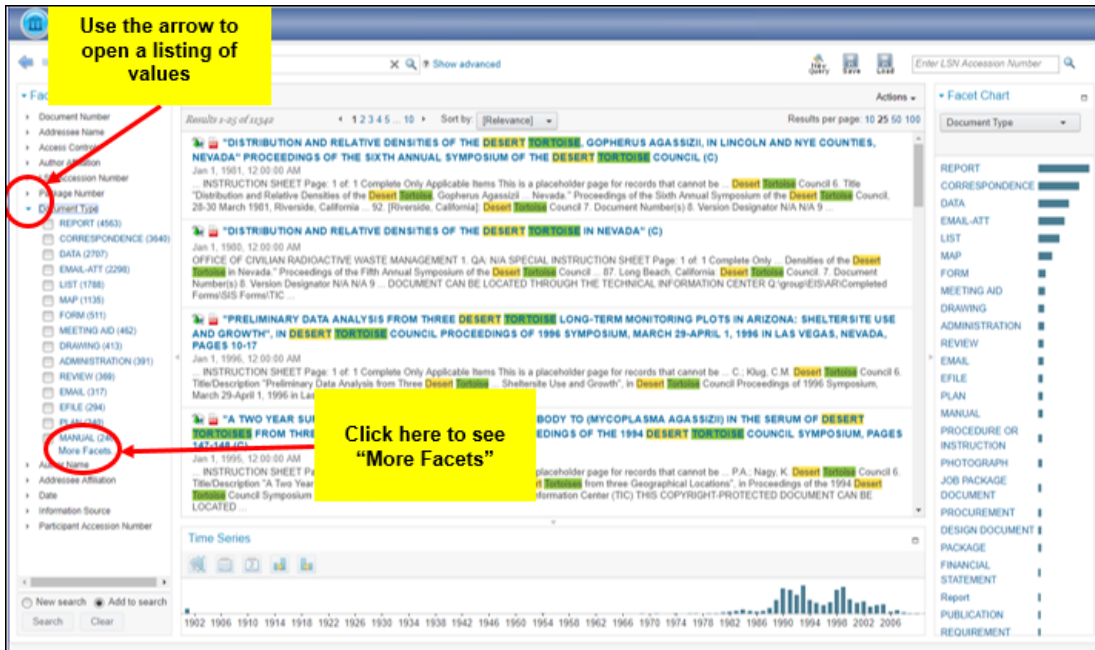
The Saved Search can be deleted by locating it in the saved location, right clicking on the saved search and clicking on the 'Delete' option.

## Ways to Narrow Your Search Facet Tree

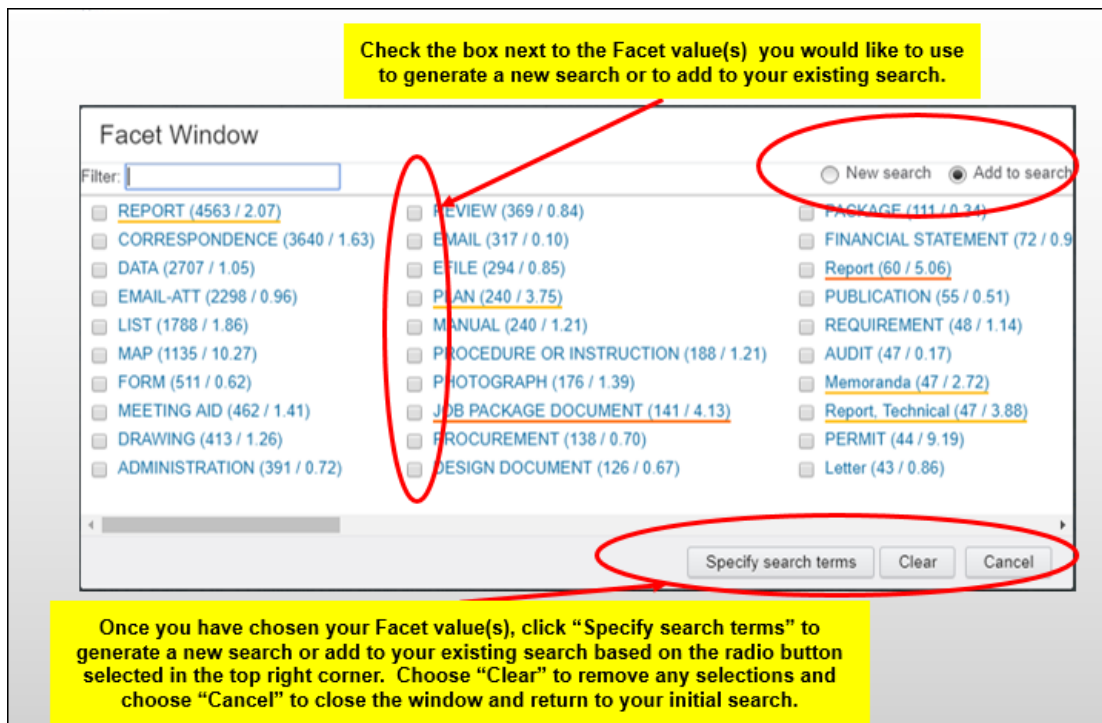
The facet tree is located to the left of the search results. Use the facet tree to refine search results. This section will walk you through how to use the facet below.

The screenshot displays the ADAMS search interface. On the left, a 'Facet Tree' is highlighted with a red box, listing various search criteria such as Document Number, Accession Name, and LSN Accession Number. The main search results area shows a list of documents with titles like 'DISTRIBUTION AND RELATIVE DENSITIES OF THE DESERT TORTOISE, GOPHERUS AGASSIZII, IN LINCOLN AND NYE COUNTIES, NEVADA' and 'PRELIMINARY DATA ANALYSIS FROM THREE DESERT TORTOISE LONG-TERM MONITORING PLOTS IN ARIZONA: SHELTERSITE USE AND GROWTH'. A 'Facet Chart' on the right side shows a bar chart representing the distribution of document types, with 'REPORT' and 'CORRESPONDENCE' being the most frequent.

To see more options for any facets, click on 'More Facets' and a new window will open.

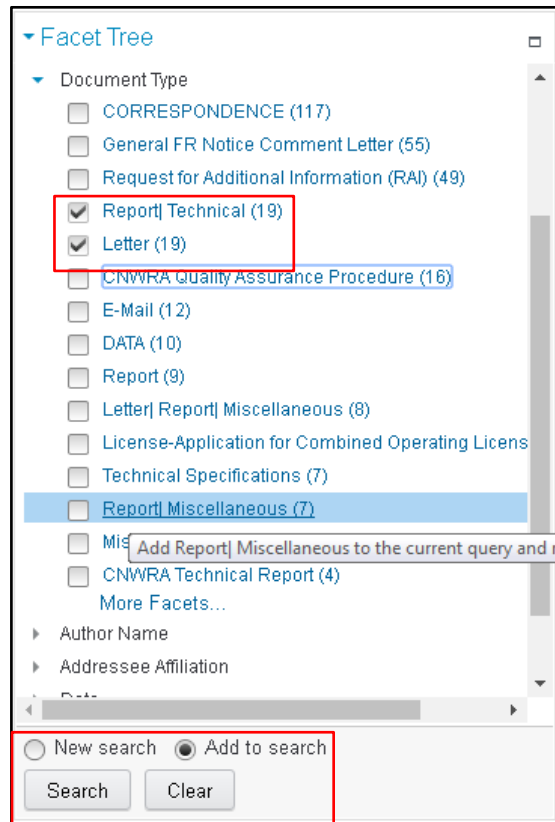


To filter the available facet values, type what you are looking for into the Filter box and press Enter. The results will display below.

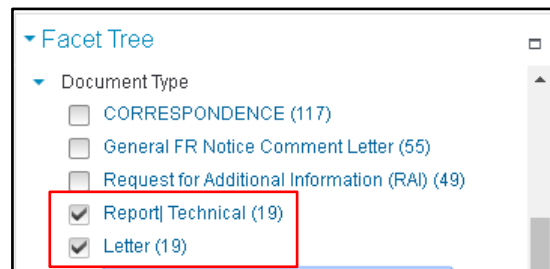


Alternatively, you can access a facet tree criteria by clicking the check box next to that criterion. Then scroll down and click search. You can choose to add the criteria to your current search or

you can choose to start a new search.



**Note:** You are able to click select more than one facet tree criterion at a time.



## Facet Chart

The facet chart is located to the right of your search results. It allows you to visualize how many documents are available as meeting a certain criterion. You are able to change the criterion you are looking for by selecting the drop down box. To narrow your search results, click on any of the names to the left of the bars representing the number of documents meeting that criterion. The new search results will display.


The screenshot shows the ADAMS search interface for 'Desert Tortoise'. On the left is a 'Facet Tree' with categories like Document Number, Addressee Name, and Document Type. The main area displays search results with document titles and dates. On the right, a 'Facet Chart' is visible, showing a list of document types with horizontal bars representing their frequency. The chart is highlighted with a red border. Below the chart is a 'Time Series' bar chart showing document counts over time from 1902 to 2006.


Document Type	Count
REPORT	4563
CORRESPONDENCE	3640
DATA	2707
EMAIL-ATT	2298
LIST	1788
MAP	1135
FORM	511
MEETING AID	462
DRAWING	413
ADMINISTRATION	391
REVIEW	369
EMAIL	317
EFILE	294
PLAN	240
MANUAL	240
PROCEDURE OR INSTRUCTION	1
PHOTOGRAPH	1
JOB PACKAGE	1
DOCUMENT	1
PROCUREMENT	1
DESIGN DOCUMENT	1
PACKAGE	1
FINANCIAL STATEMENT	1
Report	1
PUBLICATION	1
REQUIREMENT	1

Facet Chart examples shown below:



## Time Series Chart

The time series chart, located just below the search results, allows you to see the frequency by date of documents meeting the search criteria. Each bar represents a certain period of time. Click on any of the bars in the chart to narrow your search results to that period of time. Once you select the time period click on .

For example: Click on the 1995 bar. Then click on  and the results for that year will appear.



The screenshot displays the ADAMS search results for 'Desert Tortoise'. The interface includes a search bar, a facet tree on the left, and a list of search results. At the bottom, a time series chart shows the frequency of documents over time. The chart has a yellow callout box that says 'Click here to add the time frame to the search criteria' pointing to the 'Time Series' button. Another yellow callout box says 'Hover over a particular year to see a document count' pointing to the 1995 bar in the chart. The 1995 bar is circled in red, and a red arrow points from the callout to the bar. The chart shows a significant increase in document frequency starting around 1990, peaking in 1995, and then declining.

Year	Document Count
1902	0
1906	0
1910	0
1914	0
1918	0
1922	0
1926	0
1930	0
1934	0
1938	0
1942	0
1946	0
1950	0
1954	0
1958	0
1962	0
1966	0
1970	0
1974	0
1978	0
1982	0
1986	0
1990	1
1994	2
1995	4
1996	3
1998	1
2000	1
2002	1
2004	1
2006	1

The new results will only include documents from 1996 and, as seen below, the time series chart updates to show a bar for each month in 1996. You can click again on the month box to obtain the results for that month of the year.

The screenshot displays the ADAMS database search results page. At the top, the search query is shown as `(Desert Tortoise) (date>="1995-01-01" date<="1995-12-31")`, which is circled in red. Below the search bar, there are several search results, each with a title, date, and a brief description. At the bottom of the page, there is a "Time Series" section with a bar chart showing the number of results for each month of 1995. The bars are labeled with months from 1995-01 to 1995-12. A red arrow points from the circled search query to the time series chart.

Month	Number of Results
1995-01	1
1995-02	1
1995-03	1
1995-04	1
1995-05	1
1995-06	1
1995-07	1
1995-08	1
1995-09	1
1995-10	1
1995-11	1
1995-12	1

## Query Builder

### Use Content from selected Document

'Query Builder' allows you to build custom queries based on a number of options and the content of a selected document. Select any document and then right click to select the 'Query Builder' option or click on Actions | 'Query Builder'. This is similar to the original LSN "Suggest More" feature.

Right Click on any of your search results to open the query builder. Select the type of query you want to create from the drop down box. Select the type of search you want to conduct from the highlighted choices at the bottom of the screen. The query builder will collapse and the results will display.

The screenshot shows the ADAMS Query Builder interface. A modal window titled "Query Builder" is open over search results. The window contains the following elements:

- 1 - Highlight Text:** A yellow box with a red arrow pointing to the text "EFFICACY OF RELOCATING DESERT TORTOISE" in the search results. A "Highlight text to add to the query. Clear" button is visible next to it.
- 2 - Added:** A yellow box with a red arrow pointing to the "Bulldozer" option in the "Build keyword queries" dropdown menu.
- 3 - Choose AND, AND NOT, or OR:** A yellow box with a red arrow pointing to the "AND Search", "AND NOT Search", and "OR Search" buttons at the bottom of the modal.

The background shows a search results page with a "Facet Tree" on the left, a "Time Series" bar chart at the bottom, and a "Facet Chart" on the right. The search criteria at the top include "Desert Tortoise", "date=1995-01-01", and "symposium".



You can do an 'AND Search', OR Search and NOT Search using the Query Builder. See below

➤ AND Search

The screenshot displays the ADAMS (Advanced Document Analysis and Metadata System) interface. At the top, a search query is entered: "(((Desert Tortoise) date="1995-01-01")-symposium) ("move": X". The search results page shows a list of documents, with the first one titled "EFFICACY OF RELOCATING DESERT TORTOISES AT YUCCA MOUNTAIN". A "Query Builder" dialog box is open over the search results, and the "AND Search" option is selected and highlighted with a red circle. A yellow callout box points to the "AND Search" button with the text: "AND Search" selected and # of results changes from 160 to 17. The interface also includes a "Facet Tree" on the left, a "Facet Chart" on the right, and a "Time Series" chart at the bottom.

➤ AND NOT Search

The screenshot shows the ADAMS search interface. The search query is: ((((((Desert Tortoise) data="1995-01-01") -symposium) ("move" X))) Show advanced. The results are sorted by [Relevance] and show 16 results. The Query Builder shows the selected option "AND NOT Search". A yellow callout box states: "AND NOT Search" selected and # of results changes from 160 to 16. The interface includes a Facet Tree on the left, a Facet Chart on the right, and a Time Series chart at the bottom.

➤ OR Search

The screenshot shows the ADAMS search interface. The search query is: ((((((Desert Tortoise) data="1995-01-01") -symposium) ("mov" X))) Show advanced. The results are sorted by [Relevance] and show 3022 results. The Query Builder shows the selected option "OR Search". A yellow callout box states: "OR Search" selected and # of results changes from 160 to 3022. The interface includes a Facet Tree on the left, a Facet Chart on the right, and a Time Series chart at the bottom.

## Build New Query

Click on 'New Query Button'. New Query opens the query builder and executes a \*.\* search, meaning that the entire LSN Library will be returned in the results section

Now follow the steps given in the above chapter to build a query.

The screenshot shows the ADAM interface with a search query: `(( (Desert Tortoise ) data="1995-01-01" )-symposium )("movema`. The search results are displayed in a list format, with the first result highlighted. A yellow callout box points to the 'New Query' button in the top right corner, which is circled in red. The search results are displayed in a list format, with the first result highlighted. A 'Time Series' chart is visible at the bottom of the page.

**Facet Tree**

- Document Number
- Address Name
- Access Controls
- Author Affiliation
- LSN Accession Number
- Package Number
- Document Type
- Author Name
- Address Affiliation
- Date
- Information Source
  - DOE (154)
  - U.S. Nuclear Regulatory Com
  - CALIFORNIA ENERGY COM
  - STATE OF NEVADA (1)
- Participant Accession Number

**Facet Chart**

Document Type

REPORT

EMAIL-ATT

LIST

DATA

EMAIL

REVIEW

CORRESPONDENCE

EPFILE

MAP

ADMINISTRATION

PROCUREMENT

FORM

MANUAL

PHOTOGRAPH

Environmental Impact Statement

PACKAGE

PLAN

MEETING AID

letter, report

Letter

DESIGN DOCUMENT

MEDIA

E-MAIL, W/ ATTACHMENT

Report

DRAWING

RESULTS (1) (1)

**Time Series**

1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008

The following are the different types of queries available in the drop down selection:

### Proximity Query

Used to create queries for words within a certain distance of each other. You can select if you would like the words to be in the same sentence or in the same order.

The screenshot shows the 'Query Builder' window. At the top, it says 'Select the type of query that you want to build, and then highlight the document text, facet values, or saved search that you want to include in the query. As you build the query, the number of documents that match is displayed. To run the query and explore documents, click a Search button and minimize the Query Builder.' Below this, there is a section 'You must select a query type:' with a dropdown menu set to 'Proximity query'. Underneath, there are radio buttons for 'in the same sentence' (selected) and 'within this distance: 5'. A checked checkbox indicates 'The terms must appear in the same order'. There is a text input field for 'Specify multiple terms in:' with an 'Add' button and navigation links: 'Remove / Remove all / Move up / Move down'. A preview box shows the selected text: 'HELIPAD AT EXPLORATORY STUDIES FACILITY (ESF) - Highlight text to add to the query. Clear'. The main content area displays a document snippet: 'Department of Energy Yucca Mountain Site Characterization Project Office P. O. Box 98808 Las Vegas, NV 89193-8608 WBS 1.2.7 QA: N/A JAN 2 9 1993 L. Dale Foust Technical Project Officer for Yucca Mountain Site Characterization Project TRW Environmental Safety Systems, Inc. ATTN: Chuck Rivkin Valley Bank Center, Suite P-110 101 Convention Center Drive Las Vegas, NV 89109 HELIPAD AT EXPLORATORY STUDIES FACILITY (ESF) During your design of the ESF, please consider the design and construction of a helipad to be used for an emergency medical evacuation helicopter. If you have any questions, please contact Russell B. Baumeister at (702) 295-5871. Winfred A. Wilson YMP:RBB-2259 Site Manager cc: R. E. Davis, RSN, Mercury, NV, M/S 717 A. C. Robison, YMP, NV J. M. Replole,'. At the bottom, there are buttons for 'Collapse', 'AND Search', 'AND NOT Search', 'OR Search', and 'Close'.

### Date Query

Allows you to specify a date range to be added to your search query. You can select the start date and end date to determine the search date range.

The screenshot shows the 'Query Builder' window. At the top, it says 'Select the type of query that you want to build, and then highlight the document text, facet values, or saved search that you want to include in the query. As you build the query, the number of documents that match is displayed. To run the query and explore documents, click a Search button and minimize the Query Builder.' Below this, there is a section 'You must select a query type:' with a dropdown menu set to 'Date query'. Underneath, there is a 'Date queries:' section with 'Start date:' and 'End date:' labels and corresponding input fields. A message states 'No results were returned by this query'. A preview box shows the selected text: 'HELIPAD AT EXPLORATORY STUDIES FACILITY (ESF) - Highlight text to add to the query. Clear'. The main content area displays the same document snippet as in the Proximity query screenshot. At the bottom, there are buttons for 'Collapse', 'AND Search', 'AND NOT Search', 'OR Search', and 'Close'.

## Field Query

Allows you to choose a field from the drop down box, example title, and add a value for the selected field to the search query.

### Query Builder

Select the type of query that you want to build, and then highlight the document text, facet values, or saved search that you want to include in the query. As you build the query, the number of documents that match is displayed. To run the query and explore documents, click a Search button and minimize the Query Builder. [?](#)

You must select a query type:

Build field queries:  
Field:   
Value:    
[Remove](#) / [Remove all](#)

23 results match

**HELIPAD AT EXPLORATORY STUDIES FACILITY (ESF) - Highlight text to add to the query. [Clear](#)**

Department of Energy Yucca Mountain Site Characterization Project Office P. O. Box 98808  
Las Vegas, NV 89193-8608 WBS 1.2.7  
QA: N/A  
JAN 2 9 1993  
L. Dale Foust Technical Project Officer for Yucca Mountain Site Characterization Project  
TRW Environmental Safety Systems, Inc. ATTN: Chuck Rivkin Valley Bank Center, Suite P-110  
101 Convention Center Drive Las Vegas, NV 89109  
HELIPAD AT EXPLORATORY STUDIES **FACILITY** (E8F)  
During your design of the ESF, please consider the design and construction of a helipad to be used for an emergency medical evacuation helicopter.  
If you have any questions, please contact Russell B. Baumeister at (702) 295-5871.  
Winfred A. Wilson  
YMP:RBB-2259 Site Manager  
cc: R. E. Davis, RSN, Mercury, NV, M/S 717 A. C. Robison, YMP, NV J. M. Replogle.

## Base Form Query Match

Allows you to follow a single term with a tilde sign (~) to indicate that a match occurs anytime a document contains a term that has the same linguistic base form as the query.

For e.g. Query: run~

### Query Builder

Select the type of query that you want to build, and then highlight the document text, facet values, or saved search that you want to include in the query. As you build the query, the number of documents that match is displayed. To run the query and explore documents, click a Search button and minimize the Query Builder. [?](#)

You must select a query type:  
Base form match query

Build base form match queries:  
 Add  
Remove / Remove all  
run  
363761 results match

From: Thomas J Hill <TJH@inel.gov> PostedDate: 06/02/1999 01:47:50 PM SendTo: dry run <dry\_run@inel.gov> CopyTo: ReplyTo: BlindCopyTo: CN=Timothy Gunter/OU=YD/O=RWDOE Subject: Some more slides for Dry Run Body: (See attached file: Appendix 7 - NSNFP 6-15-99a.ppt) - Appendix 7 - NSNFP 6-15-99a.ppt Attachment: Appendix 7 - NSNFP 6-15-99a.ppt

[Some more slides for Dry Run - Highlight text to add to the query. Clear](#)

[Collapse](#) [AND Search](#) [AND NOT Search](#) [OR Search](#) [Close](#)

Result: This query finds documents that include the term run, running, or ran because run is the base form of the verb.

Results 1-50 of 363761    Sort by: [Relevance]    Results per page: 10 25 50 100

Aug 29, 1983, 12:00:00 AM  
U-2ak PS #1A ADDITIONAL WORK 08-19-83 Cleaned out cellar to top of 10-3/4" casing at 6'. 08-21-83 Moved in CP rig ... up. Ran Birdwell sinker bar to 436' T.D. Ran and set 9" TAM packer at 400.82' with top at 394.47' using 2-7/8", 8 rd. tubing ... No. Interval Cement Used-Ft3 Calc.-Ft3 CIP 1 395' - 338' 25 W-60 gypsum 30 1505 Hours 2 338' - 215' 100 65 1705 " 3 215' - 113 ...

**U-19AF ADDITIONAL WORK**  
Jun 4, 1987, 12:00:00 AM  
... 85 03-28-86 U-19af ADDITIONAL WORK Ran Dresser Atlas temperature log. Stabilized temperature was 770 F at 1500 ... 1600. Ran LLNL magnetometer log to 2190' T.D. Ran LLNL fluid finder and fisheye camera as directed by LANL. No fluid ... directed. Ran LLNL magnetometer log to 2195' T.D. Ran LANL spectro-gamma ray log from 2200' to 1300'. Ran spectro-gamma ray ... directed. Construction tagged bottom of 64" hole using a Hal liburton wire line as follows: 04-24-86 Ran Dresser Atlas ...

**U-10CC ADDITIONAL WORK**  
Apr 10, 1980, 1:00:00 AM  
stabilized temperature Stabilized temperature U-10cc ADDITIONAL WORK 04-18-85 04-23-85 05-22-86 08-29 ... 86 10-29-86 11-03-86 11-21-86 01-11-87 01-12-87 Ran Dresser Atlas temperature log to 660', was 72.6° F at 610 ... 660'. Ran Dresser Atlas temperature log to 749'. was 72.8° F at 749' and 72.7° F at 745'. REECo wireline depth check 750' T. ... log to 749' T.D. Attempted to run Dresser Atlas gyro-6 arm caliper log, no log. Ran gyro-caliper log to 750' T.D., gyro ... work. Attempted to run Dresser Atlas gyro-6 arm caliper log, tool not working properly. Ran Dresser Atlas gyro-electric ... 749' T.D. Started running Dresser Atlas borehole seismic survey from 738' on 50' stations using air gun and hydraulic ...

### Parametric Range Query

Allows you to use parametric constraint syntax to find documents that have a numeric field with a value equal, greater than, lesser than, lesser than or equal to or greater than or equal to a specified number.

Result: This query finds documents that contain the terms and a file size with a value equal to number searched.

The screenshot shows the 'Query Builder' interface. At the top, it says 'Select the type of query that you want to build, and then highlight the document text, facet values, or saved search that you want to include in the query. As you build the query, the number of documents that match is displayed. To run the query and explore documents, click a Search button and minimize the Query Builder.' Below this, there's a section 'You must select a query type:' with a dropdown menu set to 'Parametric range query'. Underneath, 'Build parametric range queries:' shows 'Field: filesize' and 'Value: 10,000,000' with an 'Add' button. A search box contains 'Impact Statement for a Radioactive Waste at Yucca Mountain' and shows '3 results match'. The main area displays search results for the selected query, including a document titled 'FINAL SUPPLEMENTAL ENVIRONMENTAL IMPACT STATEMENT FOR A GEOLOGIC REPOSITORY FOR THE DISPOSAL OF SPENT NUCLEAR FUEL AND HIGH-LEVEL RADIOACTIVE WASTE AT YUCCA MOUNTAIN, NYE COUNTY, NEVADA, SUMMARY, VOLUME I, II, AND III.' with the text 'Impact Statement for a Radioactive Waste at Yucca Mountain' highlighted in blue. At the bottom, there are buttons for 'Collapse', 'AND Search', 'AND NOT Search', 'OR Search', and 'Close'.

### Wild Card Queries

Wildcards can be used to aid in searching when a user does not precisely know how to spell a word or is looking for similarities. An asterisk (\*) is used to replace any set of unknown letters in a search term. For example, entering [Cal\*] would return any documents with words beginning with Cal. This would include “Calcite,” “calculate,” “calibrate,” etc.

A question mark (?) can also be used to replace a single unknown character. For example, entering [d?n] would return documents containing three-letter words beginning in ‘d’ and ending in ‘n’; this would include “Dan,” “Din” “Don,” etc.

## **Boolean Queries**

A Boolean search can be used to link two or more searches together. The query operators for Boolean searches include AND, OR, and NOT. They must be in uppercase letters. Parentheses can be used to group expressions in the query.

AND will return all documents that contain the words specified in the search box. For example, entering (tuff AND water) will return all documents that contain both the words “tuff” and “water”.

OR will return all documents that contain at least one of the words specified in the search box. For example, entering [tuff OR water] will return documents that contain the word “tuff,” the word “water,” or both. By default, the search engine automatically assumes the multiple words entered in the search box are OR, so (tuff OR water) is equal to [tuff water]. In other words, OR need not explicitly be used; the search engine assumes it is there.

NOT will return all documents that contain the first word entered in the search box but not the second word entered. For example, entering [tuff NOT water] will return documents that contain the word “tuff” but not the word “water”.

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