

memorandum

WM DOCKET CONTROL CENTER

DATE October 20, 1986

'86 OCT 27 10:23

REPLY TO
ATTN OF RW-24

SUBJECT Report of the October 2, 1986 Meeting of the DOE/NRC Licensing Support System Interagency Coordinating Committee

TO Distribution

The attachment to this memorandum is the report of the meeting of the DOE/NRC Licensing Support System Interagency Coordinating Committee that was held on October 2, 1986. This meeting was open to the public and was held in the Forrestal Building, the DOE Headquarters Building, at 1000 Independence Ave., Washington, D. C. The report of the meeting is being distributed for your information.

If you have any questions concerning this meeting, I can be reached on telephone number 202-252-5625.

C. R. Head
Office of Geologic Repositories

Attachment:

Report of the DOE/NRC Licensing Support System Interagency Coordinating Committee Meeting on October 2, 1986

WM Record File

WM Project

Docket No.

PDR

LPCR

Distribution

1000 Independence Ave.
Washington, DC 20545
Attention: WM (2255)

Report
of the
DOE/NRC Licensing Support System
Interagency Coordinating Committee
Meeting on October 2, 1986

Purpose: This meeting was held to provide all interested parties with a current update on DOE's progress in developing the Licensing Support System (LSS), and on NRC's progress with their LSS Pilot Project and on the LSS negotiated rulemaking. The specific topics discussed were as specified in the agenda provided as Attachment 1 to this report.

Attendees: The list of attendees is provided as Attachment 2 to this report.

Opening Remarks: Ralph Stein opened the meeting with a brief discussion of the purpose of the ICC. He clarified that the committee meetings are being held to provide a forum for discussion among DOE, NRC, and the States and Indian Tribes affected by the Geologic Repository program.

He also noted that an RFP for design and implementation of the LSS was going out soon, but that DOE was fully cognizant of the need to incorporate requirements as may be identified by the Negotiated Rulemaking Advisory Committee that NRC is planning. If changes to the LSS will be required to comply with the outcome of the negotiated rulemaking, then DOE will make them.

Report of OSTI/Arthur Young visits to DOE Sites: Barbara Cerny and Steve Perkins presented a report on the findings and recommendations that resulted from visits by OSTI and Arthur Young staff to the DOE repository program project offices. A copy of the vugraphs used are included as Attachment 3. In summary, OSTI/AY found that although comprehensive information management systems exist at the project offices, the systems are not currently compatible. They recommended that OGR establish a Task Group with representation from DOE/HQ and each project office to develop a coordinated LSS approach and more specific LSS functional requirements.

Current Status of DOE LSS Development Effort - Charles Head (DOE/RW-24) described the current status of the DOE LSS efforts. DOE has established an LSS Task Group as suggested by OSTI/AY and the Task Group has initiated its efforts, with assistance from DOE's support contractors and Arthur Young & Co. The Task Group is charged with development of an LSS Functional Requirements Document, LSS Indexing Methodologies, and LSS physical design concepts (including identification of a preferred design concept).

As part of the Task Group effort, AY has initiated interviews of the LSS users, starting with interviews of DOE/HQ staff during the weeks of September 22 and 29. They will be moving on to the

NNWSI Project during the week of October 6, to the Salt Project during the week of October 20 and BWIP during the week of October 27. Interviews with representatives of the affected States and Indian Tribes, and NRC are planned to be scheduled in about the second and third weeks in November. The Task Group is scheduled to complete its efforts by around the end of March 1987.

The process of selecting a contractor to design and implement the LSS is also moving forward. An announcement was published in the CBD on September 12, 1986 stating that DOE plans to issue the RFP for this work by October 30, 1986. Proposals will be due in 30 days and contract award is expected in early 1987. The results of the DOE LSS Task Force will be provided to the design and implementation contractor upon contract placement.

DOE is also proceeding with development of procedures and a specification for collection and storage of records to be placed in the LSS. Drafts were circulated in the DOE offices earlier this year. The comments received reflected a degree of misunderstanding among the DOE offices concerning the approach to take. A series of meetings have been held to resolve these issues and work is now starting to develop a second set of drafts. Due to the complexity of the documents, the comments received, and the process required to reach a consensus, it is expected that several more months will pass before the procedures will be available for review outside DOE.

It was suggested that the LSS Task Group products should be provided to the ICC for review and discussion. C. Head noted that the Task Group materials would have to be closely held by DOE until after receipt of proposals on the LSS design and implementation contract to avoid possibly affecting the procurement process. However, after receipt of the proposals, DOE plans to bring the Task Group materials before the ICC for discussion, as suggested.

Current Status of NRC Pilot Project- Avi Bender provided a status of the NRC pilot project and described efforts currently underway to build the NRC high level waste (HLW) database. The discussion included a presentation of the proposed application of advanced text and image handling information management technologies (included as Attachment 4). The importance of future capability to recall and retrieve relevant licensing documents was identified as a major system requirement. Some concern was voiced regarding the efficacy of full text search systems as they may relate to bibliographic or abstract searches. Although the current NRC approach is to continue capturing information in full text, it was agreed that the value - both in terms of costs and ultimate retrieval - should also be evaluated by the DOE Task Force. Avi Bender suggested that an experiment be run on an existing DOE bibliographic type system to evaluate the performance of various retrieval techniques.

The NRC is exploring various efforts to streamline the document capture process to expedite the process of building the HLW database so that it is accessible now to the NRC technical staff and accessible in the future for placement into DOE's proposed LSS.

Current Status of NRC Negotiated Rulemaking - Chip Cameron discussed the progress towards implementing a Negotiated Rulemaking Advisory Committee. He noted that the staff has developed a proposed Federal Register Notice (FRN) for the Commission's review and approval on the use of negotiated rulemaking to implement the use of the LSS in the Commission's HLW proceeding. This proposal will be submitted to the Commission in mid-October 1986. After commission review and approval, the FRN will be published for a 60-day comment period in the Federal Register. Comments will be requested on the use of negotiated rulemaking, itinerary, the rulemaking issues that should be discussed by the negotiating committee, and who would be interested in participating on the negotiating committee. After the Commission considers these comments as well as the convener's feasibility analysis of the negotiation, a final decision will be made by the Commission on proceeding with the negotiated rulemaking. If the Commission decides to proceed with negotiated rulemaking, the first negotiating session will be held approximately May 1987.

Issues discussed by the participants were the provision of technical information to the negotiating committee, assurance that the Commission will use any consensus that is developed by the committee, the definition of consensus, the potential application of negotiated rulemaking to other Commission rulemakings, the participation of the Commission staff as a party on the negotiating committees, the identification of States and Tribes affected by transportation of HLW as an interest separate from States and Tribes affected by siting of a repository, the relation of the NRC proposed rules issued on regulatory reform to the HLW licensing process, the issue of financial assistance to participants on the negotiating committee, the use of NRC staff to provide technical information to the negotiating committee, and the right of the negotiating committee to establish the rules for committee operations including terminating the negotiating process if the committee cannot agree on the procedures.

General Discussion - At the end of the presentations, the floor was opened for a general discussion of any issues the attendees wished to bring up.

The role of the ICC and what it should attempt to accomplish were discussed. There was general agreement that the ICC served a useful purpose and should continue, at least up to the time the Negotiated Rulemaking Advisory Committee is formed, at which time the need for the coordinating committee should be reexamined.

It was felt that the ICC could serve a useful purpose in identifying issues and preparing background material for consideration by the Negotiated Rulemaking Advisory Committee. The NRC attendees agreed to prepare a "draft" set of LSS issues which could be used as a starting point by the States, Indian Tribes and other committee participants to work with, modify and expand. These will be distributed and discussed in the next ICC meeting tentatively planned for January 15, 1987. It was also suggested that the committee discuss the types of Technical Information that would be required by the Negotiating Rulemaking Committee i.e., briefing book, at the next meeting.

Phil Altomare 10/7
Phil Altomare, NRC

CR Head 10/9/86
Charles R. Head, DOE/RW-24

Attachments:

1. Agenda for the DOE/NRC Interagency Coordinating Committee Meeting on October 2, 1986
2. List of Attendees at the DOE/NRC LSS ICC Meeting on 10/2/1986
3. OSTI/Arthur Young Handout
4. NRC Presentation, Interagency Coordinating Committee Meeting, October 2, 1986

Attachment 1

Agenda
for the
DOE/NRC Interagency Coordinating Committee Meeting
on
October 2, 1986

- o DOE Opening Remarks - Charles Head
Ralph Stein
- o NRC Opening Remarks - Phil Altomare
- o Results of the DOE Office of Scientific and
Technical Information visits to the repository
program project offices - Barbara Cerny
Steve Perkins
- o Current status of the DOE LSS development
effort - Charles Head
- o Current status of the NRC Pilot Project
- Avi Bender
- o Current status of NRC negotiated rulemaking on
the LSS - Phil Altomare
- o Open Discussion
- o Closing Remarks - Charles Head

Attachment 2

List of Attendees
at the
DOE/NRC LSS ICC Meeting on October 2, 1986

<u>Name</u>	<u>Affiliation</u>	<u>Telephone #</u>
C. R. Head*	USDOE/RW-24	FTS 252-5625
A. J. Bell	USDOE/RL-BWIP	FTS 444-1821
E. L. Richards	Rockwell Hanford	FTS 444-1879
J. W. Tritz	Rockwell	FTS 444-9759
Thomas Glenn	CERT	714-640-6402
Steve Perkins	Arthur Young	202-956-6276
W. E. Woolam	Southwest Research Inst.	703-979-0500
Steve Frishman	Governor's Office, Texas	512-463-2198
Susan Zimmerman	Governor's Office, Texas	512-463-2198
Muzaffer Kehnemuyi	Battelle Memorial Inst.	312-972-2157
Linda Luther	NRC	301-427-4426
Bryan L. Champion	NRC	301-427-4426
Arthur L. Penschansky	DOE-RL (MAC)	376-8827
Donald E. McCormick	DOE-RL (MAC)	376-8827
Tim O'Donnell	Weston	202-646-6821
Dick August	USDOE/RW-22	FTS 252-9754
Birger Andersen	SAIC	703-556-7396
Eugene W. Higgins	DOE-RL	FTS 444-2536
Don Christy	State of Mississippi	601-961-4733
Sudi Gottlieb	PRC	703-556-1426
Mike Whitly	SAIC	703-448-6323
Dale Copeland	SAIC	703-821-4363
Mal Murphy	Nevada	206-786-1632
David Stevens	State of Texas	206-786-1632
Ron Ross	USDOE/MA-25	FTS 353-2409
Rep. Arnie Wight	N.H. Legislature	603-672-1111
Jeffrey B. Roberts	DOE-CPO	FTS 972-2228
Avi Bender	US NRC	FTS 427-4483
C. Thomas Tinsley	SAIC Nevada	FTS 575-0065
J. E. Mecca	DOE-BWIP	FTS 444-5038
Mike McAvey	Weston	202-646-6712
V. M. Skrinak	BDM	703-848-7103
R. T. Burger	BDM	703-848-5280
J. J. Friloux	Louisiana/LSU	504-342-7462
Rosetta Virgilio	NRC State Programs	301-492-9877
Ann Ratliff	SAIC	703-827-4950
N. S. Montgomery	EEl/UNWVG	202-828-0874
J. S. Jordan	Consultant	337-1441
Michael Lee	NRC	301-427-4444
Michael D. Collins	NRC	301-492-4955
Stan Echols	USDOE/GC	FTS 252-6947
Dean Tousley	Yakima Indian Nation	202-328-3500
Karen K. Hatch	DOE/WMPO	FTS 575-1395
Chip Cameron	US NRC	301-492-8689
G. Eysymonti	NRC	301-492-7575
Barbara Cerny	USDOE/OSTI	FTS 626-1196

List of Attendees, contd:

<u>Name</u>	<u>Affiliation</u>	<u>Telephone #</u>
Ken Kalman	US NRC	301-427-4071
Robert Holden	NCAI	202-546-9404
Priscilla Attean	P.I.N.	207-827-7776
Phil Altomare	US NRC	301-427-4677
Terry Husseman	State of Washington	206-459-6670

* Chairman

**OFFICE OF SCIENTIFIC AND TECHNICAL INFORMATION
RECOMMENDATIONS**

FROM

OFFICE OF GEOLOGIC RESPOSITORY IMS REVIEW

Barbara A. Cerny

October 2, 1986

Office of Scientific and Technical Information

OSTI PARTICIPATION IN SITE VISITS JUNE 16-27, 1986

Salt Repository Project Office - Columbus, Ohio

Basalt Waste Isolation Project - Richland, Washington

Nevada Nuclear Waste Storage Investigation Project - Las Vegas, Nevada

PURPOSES:

- 1. Participate in Headquarters Site Reviews of Repository Information Systems**
- 2. Gather Information to Support OGR in Further Definition of the Information Requirements of the LSS**

DOE Office of Scientific and Technical Information

OBSERVATION ON SITE INFORMATION COLLECTION

1. Support Internal Project, Administrative, and Regulatory Tracking, Monitoring, and Management.

- Different Hardware, Software and Systems at Each Site**
- No Uniform Procedures Across Sites For Information Collection and Quality Assurance**

2. LSS Is Perceived As a Subset of Total Information

- No Information Requirements Model Against Which to Measure Sites' Systems**
- Difficulty In Defining The LSS**

DOE Office of Scientific and Technical Information

RECOMMENDATIONS FOR EXPEDITING THE LSS

LSS OGR Project Management: Ralph Stein
Charles Head

OGR LSS RFP

July 1986

Procurement
and
Award

LSS Information Task Force*

- Requirements Analysis and Logical Design
(Through Existing Contractual Vehicle)
- Data Model
 - Data Structure (Data Dictionary, Indexing, etc.)
 - Data Base Configurations
 - Recommended Implementation Schemes
 - Procedural Guidelines

OGR Review and Sign-off

System
Implementation
and
Operation

April 1987

Consultation as Required

*Task Force Membership

Members:

DOE-HQ OGR RW-24 DOE-NNWSI
DOE-HQ OGR RW-22 DOE-SRP
DOE-HQ MA DOE-BWIP
DOE Legal

Support:

Weston
Rockwell Hanford
Science Applications International Corp.
Battelle Columbus
Consultant with Information Methodology Expertise

**OVERVIEW OF FINDINGS OF
OCRWM PROJECT OFFICES' IMS
REVIEW**

**INTERAGENCY COORDINATING
COMMITTEE**

OCTOBER 2, 1986



Arthur Young

A MEMBER OF ARTHUR YOUNG INTERNATIONAL

AGENDA

- Background
- Purpose
- Approach
- Description of Project Office's IMS
- Observations
- Results
- Open Discussion

BACKGROUND

- **Task – Preliminary Data Modeling**
- **Scope – Develop LSS Business Event Models**
- **Function – Preliminarily Define Information Context of the LSS**
- **Method – Interviews and Event Modeling**

PURPOSE

- **DOE – Assess Level of Commonality among IMS Approaches**
- **Arthur Young/DOE – Gather Data to Understand Current Physical Models and LSS Business Events**

APPROACH

- **Special Review Team**
- **2 - 3 Days Site Visits**
- **Structured Presentation by Project Offices**
- **Interviews**
- **Document Review**

DESCRIPTION OF P.O.s IMS

- **Systems Reviewed**
 - **Records Management = Capture, Control, Organize, Store and Retrieve Program Records**
 - **Technical Data Management = Collect and Store Raw Data, Sample Inventory Control, Data Analysis and Computer Models**
 - **Program Management = Plan, Analyze and Report Cost – Schedule – Performance Data and Deliverable Status Data**
 - **Administrative/Tracking – Monitor Status of Project – Related Actions**

PROJECT OFFICE IMS MODELS

NNWSI

PROJECT OFFICE IMS MODELS

BWIP

PROJECT OFFICE IMS MODELS

SRPO

OBSERVATIONS

- **A Generic IMS Model Exists**
- **Data Driven Process**
- **Three Different Physical Models Exist**
- **Redundant Development Activities Occurring**
- **Analysis Focused on Concepts not Requirements**
- **Headquarters Trails the Pack in IMS Sophistication**

RESULTS

- DOE Report on Reviews
- Arthur Young Report on Preliminary LSS Data Model

NRC PRESENTATION
INTERAGENCY COORDINATING COMMITTEE MEETING
OCTOBER 2, 1986

PHILIP M. ALTOMARE
AVI BENDER

OBJECTIVE OF THE INTERAGENCY COORDINATION COMMITTEE (ICC)

TO PROVIDE GUIDANCE TO THE DOE IN THE DEVELOPMENT AND IMPLEMENTATION OF A LICENSING SUPPORT SYSTEM (LSS)

- O REVIEW REPORTS AND OTHER INFORMATION PROVIDED BY DOE, NRC, STATE, AND INDIAN TRIBES
 - O RECOMMEND SYSTEM REQUIREMENTS, THE NATURE AND SCOPE OF AN AUTOMATED DOCUMENT MANAGEMENT SYSTEM
 - O MAKE RECOMMENDATIONS CONCERNING:
 - SYSTEM PERFORMANCE REQUIREMENTS
 - ROLES AND RESPONSIBILITIES OF CONTRIBUTORS AND USERS
 - UNIFORM RECORD MANAGEMENT PROCEDURES
 - SYSTEM DESIGN AND OPERATION PLANS
 - PROGRESS AND SYSTEM IMPLEMENTATION
 - OTHER LSS RELATED TOPICS
 - O PROVIDE ESSENTIAL INFORMATION FOR USE IN ANY FUTURE NRC RULEMAKING ON THE LSS
- STATE AND INDIAN TRIBE ATTENDANCE AND PARTICIPATION IN COMMITTEE MEETINGS WILL BE ACTIVELY SOUGHT AND ENCOURAGED

OBJECTIVE OF THE LICENSING SUPPORT SYSTEM (LSS)

TO PROVIDE FOR THE CAPTURE, STORAGE, DISTRIBUTION AND RETRIEVAL OF ALL RECORDS PERTINENT TO A HIGH-LEVEL WASTE REPOSITORY HEARING SO AS TO FACILITATE A 3 YEAR LICENSING HEARING.

- 0 PROVIDE A COMPLETE RECORD DATA BASE WITH RAPID RETRIEVAL SO AS TO SUBSTANTIALLY REDUCE THE TIME REQUIRED FOR DISCOVERY
- 0 PROVIDE EARLY AND READILY ATTAINABLE ACCESS TO ALL PERTINENT RECORDS SO THAT ISSUES OR CONCERNS CAN BE IDENTIFIED, RESOLVED WHERE POSSIBLE, OR BE VERY FOCUSED AT THE TIME OF THE HEARING
- 0 PROVIDE A MECHANISM FOR THE RAPID TRANSFER OF RECORDS SO THAT THE LICENSING HEARING CAN PROCEED IN AN ORDERLY, EFFICIENT, AND TIMELY MANNER
- 0 PROVIDE THE TOOLS NECESSARY TO DO A TIMELY TECHNICAL EVALUATION WITH A MASSIVE DOCUMENT DATA BASE

DISCUSSION POINTS FOR OCTOBER 2, 1986 ICC MEETING

- O THE RELATIONSHIP BETWEEN THE ICC AND THE PLANNED NEGOTIATED RULEMAKING COMMITTEE
- O NEED TO BEGIN BUILDING THE LSS DOCUMENT DATA BASE NOW
- O WHAT THE ICC SHOULD PLAN TO ACCOMPLISH
 - GENERAL
 - FOR THE NEXT MEETING

RELATIONSHIP BETWEEN THE ICC AND NEGOTIATED RULEMAKING ADVISORY COMMITTEE

- o THE NEGOTIATED RULEMAKING COMMITTEE SHOULD BE THE POINT FOR ESTABLISHMENT OF SYSTEM REQUIREMENTS PERTINENT TO RULEMAKING
 - DOE PLANS FOR DEVELOPMENT OF THE LSS MUST BE CAPABLE OF INCORPORATING RULEMAKING COMMITTEE REQUIREMENTS
- o THE ICC ACTIVITIES SHOULD NOT PREJUDICE NEGOTIATED RULEMAKING DELIBERATIONS
- o THE ICC CAN IDENTIFY AND FOCUS ISSUES FOR EARLY NEGOTIATED RULEMAKING CONSIDERATION
- o THE ICC SERVES AS A PLACE FOR DOE AND NRC TO REPORT PLANS AND PROGRESS AND TO MAKE AVAILABLE DOCUMENTS AND OTHER INFORMATION
- o THE ICC PROVIDES THE MECHANISM FOR STATES, INDIAN TRIBES, AND THE PUBLIC TO PARTICIPATE IN THE LSS ACTIVITIES

BUILDING THE LSS DOCUMENT DATA BASE

- o THE LSS WILL PROBABLY NOT BE IN PLACE UNTIL 1989 OR 1990
- o DOCUMENTS IMPORTANT TO LICENSING ARE BEING PRODUCED NOW
- o RELEVANT DOCUMENTS SHOULD BE CAPTURED NOW IN A FORM READY TO ENTER INTO THE LSS AND, TO THE GREATEST EXTENT POSSIBLE, SHOULD BE ACCESSIBLE BY DOE, NRC, STATES, INDIAN TRIBES, AND OTHERS
 - TO ENSURE A COMPLETE DATA BASE
 - TO PROVIDE READY ACCESS TO DATA AND DOCUMENTS FOR TECHNICAL EVALUATION
 - TO HAVE THE LSS FULLY OPERATIONAL PRIOR TO LICENSE APPLICATION
 - TO AVOID TIME CONSUMING AND EXPENSIVE BACKFIT

ICC POSSIBLE FUTURE ACTIVITIES

GENERAL

- 0 DEVELOP ISSUES, ALTERNATIVE SOLUTIONS, AND BACKGROUND MATERIAL FOR EARLY CONSIDERATION BY THE NEGOTIATED RULEMAKING COMMITTEE?

NEXT MEETING

- 0 IDENTIFY ISSUES PERTINENT TO THE LSS?

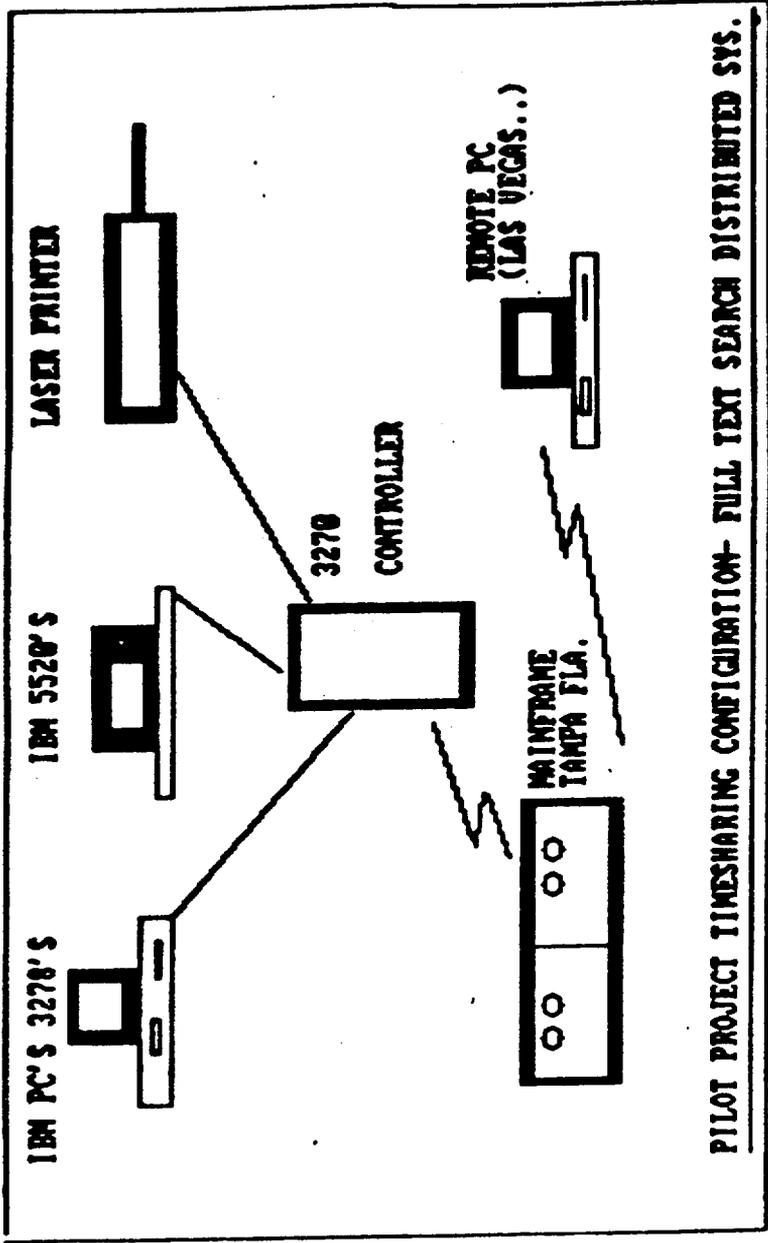
NRC LSS PILOT PROJECT

PILOT PROJECT OBJECTIVES

- CONTINUE PROCESS OF CONVERTING NRC DOCUMENTS INTO ASCII FORMAT AND SCAN EACH DOCUMENT FOR IMAGE CAPTURE. STORE DIGITIZED DOCUMENT ON MAGNETIC AND OPTICAL DISKS.
- ESTABLISH STANDARD PROCEDURES TO CAPTURE THE FULL TEXT OF ALL INTERNAL NRC DOCUMENTS AND EVALUATE SCANNING TECHNOLOGIES FOR CONVERTING ALL NON- 5520 (NRC WORD PROCESSING) INTO ASCII TEXT.
- ESTABLISH OPERATIONAL PROTOTYPE OF A TEXT AND IMAGE INFORMATION MANAGEMENT SYSTEM

ACCOMPLISHMENTS TO DATE

- ESTABLISHED AN OPERATIONAL FULL TEXT STORAGE AND RETRIEVAL SYSTEM.
 - NEVADA CORRESPONDENCE DATABASE (ABOUT 500 DOCUMENTS)
 - CONGRESSIONAL QUESTIONS AND ANSWERS (ABOUT 800 DOCUMENTS)
 - 10 CFR 60
- JANUARY 1986 AGREEMENT BETWEEN NRC AND DOE TO ESTABLISH A LICENSING SUPPORT SYSTEM AND SEEK ACTIVE PARTICIPATION OF STATES AND INDIAN TRIBAL ORGANIZATIONS.
- NRC WELL UNDERWAY IN TESTING THE CONVERSION OF ITS DOCUMENTS INTO ELECTRONIC FORMAT IN PREPARATION FOR THE FUTURE LSS.



PILOT PROJECT TIMESHARING CONFIGURATION- FULL TEXT SEARCH DISTRIBUTED SYS.

Licensing Support System (LSS) Data Elements

Accession No.
File Code
Project Code
Date Prepared
Date Received
Date Effective
Date Reviewed
Contract No.
Report No.
Site
Waste Type
Document Type
Title
Sub Title
Addressee
Author(s)
Subject
Descriptive Phrases
Abstract
Text
Enclosure List
Distribution
Carbon Copy
Address List
Concurrence List
Enclosure Text
Work Breakdown Code
Issue Number
QA

DOCUMENT HEADER: (PARTIAL)
AUTHOR: John Public
DATE: 1/23/85
SITE: omwsi
SUBJECT: WASTE PACKAGE Comments
TITLE:
FILE CODE: W-11
DCS NO: 3243316

BEGINNING OF TEXT:

1/23/85

Memo To: Jim Smith
From : John Public
Subject: WASTE PACKAGE Design

I have completed review of the original report prepared by your contractor and I am forwarding my comments. Please refer to my previous comments sent on September 4,

HEADER OF TEXT
BIBLIOGRAPHIC
INFORMATION

TEXT

Search on WASTE PACKAGE

view from monitor

NEW PHASE OF THE PILOT PROJECT

- **CONTRACT SIGNED WITH THE SMITHSONIAN INSTITUTION TO EVALUATE THE USE OF ADVANCED IMAGE HANDLING TECHNOLOGY TO SCAN AND STORE DOCUMENTS ON OPTICAL DISK**

- **IN ADDITION TO CONVERTING DOCUMENTS TO ASCII TEXT THE CURRENT PROJECT WILL ADDRESS THE UNRESOLVED PROBLEM OF CAPTURING IMAGES**
 - **EACH INCOMING OR OUTGOING DOCUMENT WILL BE SCANNED IN ITS ENTIRETY**

 - **ALL DOCUMENTS WILL BE INDEXED USING A HEADER BUT NOT ALL DOCUMENTS MAY BE AVAILABLE FOR FULL TEXT SEARCH**

 - **PILOT SYSTEM WILL BE INTEGRATED WITH EXISTING DOCKET CONTROL CENTER OPERATIONS.**



SCANNER



IBM AT



DISK STORAGE



SONY OPTICAL DRIVE



PALANTIR OCR



LASER PRINTER

(SINGLE WORK STATION- LIMITED ACCESS)

PILOT PROJECT PHASE II- SMITHSONIAN SYSTEM INTEGRATION

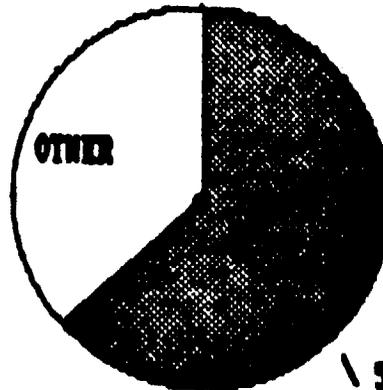
A VIEW FROM A HIGH RESOLUTION MONITOR TEXT AND IMAGE

**TEXT ONLY FROM
STAIRS OR INQUIRE
TYPE FULL TEXT
SYSTEM FROM EITHER
A 3270 TIMESHARE
ENVIRONMENT OR
FROM SDD WORK STATION**

**ORIGINAL IMAGE
OF DOCUMENT
FROM OPTICAL
DISC**

NON-NRC GENERATED

LETTERS
REPORTS
MISC.



NRC GENERATED

TECHNICAL POSITIONS
MEMORANDUMS
TRIP REPORTS
MEETING REPORTS
DOCUMENT REVIEWS
ADMINISTRATIVE
COMMISSION PAPERS
CONGRESSIONAL C'S AND H'S

5520 GENERATED

BACKLOG OF ABOUT 30,000 DOCUMENTS
GENERATING ABOUT 10,000 NEW DOCUMENTS EACH YEAR

DATABASE PROFILE NRC DOCKET HLW CENTER

SAMPLE SEARCH USING FULL TEXT AND HEADER INFORMATION

SEARCH STATEMENT	RECALL WITH HEADER	RECALL WITH FULL TEXT
------------------	--------------------	-----------------------

ALL CORRESPONDENCE
DEALING WITH VOLCANIC
ACTIVITY AT YUCCA MT.

0

42

ALL CORRESPONDENCE
DEALING WITH CURRENT
EVALUATION OF TRENCH-14

0

3

MEMO DATED 10/01/85
BY MAASI ON-SITE REP.

1

1

CORRESPONDENCE DEALING
WITH GEOCHEMISTRY ISSUES
AT YUCCA

27

58

SEARCHES CONDUCTED WITHOUT BENEFIT OF SYNONYM OR TREASURES FILE
SEARCH OF 500 DOCUMENTS FROM MAASI DATABASE

**MEAN OF RELEVANT AND TOTAL DOCUMENTS RETRIEVED
BY SEVERAL SEARCH METHODS**

(SOURCE: Carol Tenopir ONLINE Review vol 9, no.2 1985)

	<u>Average Total Recall</u>	<u>Average Relevant Documents</u>
Full Text with Bibliographic	21.2	4.5
Only Full Text	17.8	3.5
Abstract	2.4	1.0
Controlled Vocabulary	3.1	1.2
Bibliographic with Abstract and Controlled Vocabulary	5.3	2.0

PLANS FOR THE NEXT FOUR MONTHS

- **FIND WAYS TO STREAMLINE DOCUMENT CAPTURE PROCESS AND IDENTIFY NECESSARY RESOURCES FOR FUTURE IMPLEMENTATION**
- **FINALIZE 5520 PROCEDURES TO CAPTURE ALL WORD PROCESSING GENERATED DOCUMENTS IN ASCII FORMAT**
- **EXPAND TEST DATABASE TO BWIP AND SALT PROJECTS**
- **COMPLETE NEW HARDWARE INSTALLATION AND TESTING**
- **INTEGRATE NEW HARDWARE WITH THE DCC OPERATIONS AND DEMONSTRATE SYSTEM OPERATIONS ON A "REAL TIME" BASIS.**

Magnetic Media Formats for
Capturing Records Prepared on Word Processors
Interim Requirements
(Draft)

TEXT

Records to be submitted in magnetic forms should be an ASCII image of the printed text. This means that all word processor control characters (and 8th bit) codes are removed. The records can be captured on either flexible disks or magnetic tapes in standard formats. This approach provides a way of entering the stored information into an automated data base without going through the process of rekeying the record. The following formats are compatible with many word processors and can be recovered through translator software.

Flexible disks (ANSI draft standard X3B 8.1-1986)

IBM PC/DOS format (5-1/4", double sided, double density, 9 sectors)

ASCII character code, with each line ended with a carriage return and line feed (HEX OD OA)

Maximum of 80 char/line (with 69 characters preferred).

As an alternate approach, records on IBM PC compatible 9 sector disks will be accepted if in word processor format for DisplayWrite. Other word processor formats may be acceptable but will require discussion.

Magnetic Tape (ANSI X 3.39-1973)

9 Track, standard reel-to-reel, 1600 BPI.

ASCII (or EBCDIC) character code, with each line ended with a carriage return and line feed (HEX OD OA).

No internal tape label.

Fixed line length 80 char/line (with 69 characters preferred) Fixed block size (maximum 2048 char/block)

All files on one physical tape must each have the same number of character/record and character/block. Tapes must not be generated using system independent copy routines. Tapes must be made so as to be transportable from one computer to another. This is most easily accomplished by means of a FORTRAN READ-WRITE routine rather than a system utility, however, use of IBM IEBGENER is acceptable.

DRAFT

Full Text Document Preparation Procedures

Division of Waste Management

August 1986

Documents originating in the Division of Waste Management (WM) should be prepared in a uniform manner in order to enable WM's Docket Control Center (DCC) to send the document to STAIRS. Following are procedures for document preparation originating in WM's Branches. These procedures are to be followed for all documents prepared on the IBM 5520 Administrative System that become official records.

Originating Branch Procedures

Documents prepared in WM should be prepared in the usual manner; however, the Distribution List should now be placed at the end of the document and not in the upper right-hand corner.

After the hard copy of the document has been concurred in, signed and dated, it must be sent to the DCC. In addition to the hard copy of the document, the IBM 5520 version of the document also must be sent to the DCC. The originating branch should complete the following steps to assure that the hard copy and the IBM 5520 version of documents are sent to the DCC:

- Dispatch original document.
- Dispatch distribution copies.
- REQuest USE IBM 5520 version of document and check to assure that the hard copy and the IBM 5520 version match. The date of the document, and a notation in the signature block showing who signed the document should be added, the distribution list should be at the bottom of the document directly under the enclosure or carbon copy notation, and dates should be added to the concurrence ladder, as appropriate. Check the document carefully to assure that all pertinent information has been included on the IBM 5520 version of the document.

Check the hard copy of the document to assure that it is all one IBM 5520 document. If the document is actually a letter or a memorandum, plus

DRAFT

DRAFT

enclosures, assure that all documents are joined together into one document.

- Send the IBM 5520 version of the document to the DCC by REQuesting DID and select the appropriate parameters:

Document Name: Type - Document Name

Priority Delivery: Select - Yes

Message: Type - Message, as appropriate

Node Name: Type - NRCMM

Local Address:

Type - WMDCC

- Immediately send the hard copy to the DCC. A pencil-written notation indicating the IBM 5520 document name should be made on the Official Record Copy in the upper right-hand corner in order for DCC staff to identify the IBM 5520 version of the document.

If the entire document is not available on the IBM 5520 (i.e., an enclosure to a memorandum is a report sent to NRC by a contractor and is not on the IBM 5520), a pencil-written notation should be added to the Official Record Copy stating that the entire document is not on the IBM 5520.

- Immediately after the IBM 5520 version of the document has been DIded to the DCC, the originating branch's IBM 5520 version should be either archived or deleted. IT IS VERY IMPORTANT TO COMPLETE THIS STEP IN A TIMELY MANNER; OTHERWISE THE DOCUMENT WOULD BE RESIDENT ON IBM 5520's HARD DISK TWICE.

DRAFT

FULL TEXT HEADER INFORMATION

<u>FIELD</u>	<u>STAIRS FORMATTED FIELD NAME</u>	<u>EXPLANATION</u>
DWM ACCESSION NO.	AN	Identifier assigned to each documents by YYMMDD0001
Docket Control Center	DCC	A subject file code such as 101.2, 101.3...
Project Code	PRC	A code for a specific project or site. For example WM-11 refers to Nevada
Docket Control System	DCS	Similar to DWM accession number but is assigned by the Agency
Date Prepared	DPRE	Date the document was prepared by the originator (YYMMDD)
Date Received	DREC	Date the document was received (YYMMDD)
Date Effective	DEFF	Date the document became effective such as a regulation (YYMMDD)
Date Reviewed	DREV	Date document was reviewed

<u>FIELD</u>	<u>STAIRS PARAGRAPH CODE</u>	<u>EXPLANATION</u>
Site	SITE	Name of the site such as NWSI, BWIP...
Waste	TYPE	Waste type, such as HLW, LLW...
Document Class	CLASS	Class of documents such as letter, memo, report...
Document title	TITLE	Title of documents
Documents Sub. title	STITLE	Secondary title of document
Addressee	ADDR	To whom the document is addressed
Author	AUTH	Author of the document
Sponsor	SPON	Organization sponndring the work - contractor x sponsored by NRC

<u>FIELD</u>	<u>STAIRS PARAGRAPH CODE</u>	<u>EXPLANATION</u>
Subject	SUBJ	Subject of the document
Descriptive phrases	KEY	Key words
Abstract or summary	ABST	Short description of the document
Text	TEXT	Actual text of the document
Question(s)	Q	Field for a question such as in Congressional questions and answers
Answer(s)	A	Ditto
Enclosure list	ENCL	Identifies for beginning of enclosure list
Distribution	DIST	Identifies for beginning of distribution list

FIELD	STAIRS PARAGRAPH CODE	EXPLANATION
Carbon Copy	CC	Identifies beginning of a carbon copy list
Blind Carbon Copy	BCC	Identifies beginning of blind carbon copy list
Address list	ADL	Identifies beginning of address list
Concurrence list	CONC	Identifies beginning of concurrence list
Enclosure list	ENCL	Identifies beginning of enclosure list

Distribution:

A. J. Bell	USDOE/RL-BWIP
E. L. Richards	Rockwell Hanford
J. W. Tritz	Rockwell
Thomas Glenn	CERT
Steve Perkins	Arthur Young
W. E. Woolam	Southwest Research Inst.
Steve Frishman	Governor's Office, Texas
Susan Zimmerman	Governor's Office, Texas
Muzaffer Kehnemuyi	Battelle Memorial Inst.
Linda Luther	NRC
Bryan L. Champion	NRC
Arthur L. Penchansky	DOE-RL (MAC)
Donald E. McCormick	DOE-RL (MAC)
Tim O'Donnell	Weston
Dick August	USDOE/RW-22
Birger Andersen	SAIC
Eugene W. Higgins	DOE-RL
Don Christy	State of Mississippi
Sudi Gottlieb	PRC
Mike Whitly	SAIC
Dale Copeland	SAIC
Mal Murphy	Nevada
David Stevens	State of Texas
Ron Ross	USDOE/MA-25
Rep. Arnie Wight	N.H. Legislature
Jeffrey B. Roberts	DOE-CPO
Avi Bender	US NRC
C. Thomas Tinsley	SAIC Nevada
J. E. Mecca	DOE-BWIP
Mike McAvey	Weston
V. M. Skrinak	BDM
R. T. Burger	BDM
J. J. Friloux	Louisiana/LSU
Rosetta Virgilio	NRC State Programs
Ann Ratliff	SAIC
N. S. Montgomery	EI/UNWGM
J. S. Jordan	Consultant
Michael Lee	NRC
Michael D. Collins	NRC
Stan Echols	USDOE/GC
Dean Tousley	Yakima Indian Nation
Karen K. Hatch	DOE/WMPO
Chip Cameron	US NRC
G. Eysymonti	NRC
Barbara Cerny	USDOE/OSTI
Ken Kalman	US NRC
Robert Holden	NCAI
Priscilla Attean	P.I.N.
Phil Altomare	US NRC
Terry Husseman	State of Washington