

United States Government

Department of Energy

memorandum

WM DOCKET CONTROL
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DATE: June 19, 1985

REPLY TO
ATTN OF: RW-23

'85 JUN 24 AM 11:38

SUBJECT: Report of May 10, 1985 DOE/NRC Meeting on the Licensing
Information System for Geologic Repositories

TO: Bill Olmstead, NRC
~~Phil~~ Altomare, NRC
Ralph Stein, RW-23
Bob Purple, RW-43
Lee Olson, BWIP
Jim Mecca, BWIP

Don Vieth, NNWSI
Jerry Szymanski, NNWSI
Jeff Neff, SRP
Leslie Casey, SRP
Sally Mann, CRP
Dick Baker, CRP

On May 10, 1985, representatives of DOE and NRC met to discuss the work the two agencies are doing associated with development of information storage and retrieval systems to support licensing of a geologic repository. The report of this meeting is attached for your information and use.

C.R. Head

C. R. Head, Acting Leader
Licensing and QA Team
Office of Geologic Repositories

Attachments:

1. Meeting Report
2. Office of Geologic Repositories
Licensing Information System
Requirements Study, March 18, 1985
3. NRC/DOE Information Management Meeting
May 10, 1985

WM Record File

403

WM Project 1

Docket No. _____

PDR ☒

LPDR _____

Distribution:

ALTMARE BROWN

BENDER

(Return to WMA, 02-11) GORN 23

Meeting Report

Purpose: This meeting was arranged to provide DOE and NRC with an opportunity to update one another their respective activities associated with development of information storage and retrieval systems to support licensing of a Geologic Repository.

Date: May 10, 1985

Place: DOE Headquarters
Washington, DC

Attendees: DOE

Ralph Stein
Bob Purple
Charles Head
Dick August
Colleen Ostrowski
Stan Echols

Weston

Dave Siefken
Tim O'Donnell

SAI

Bill MacNabb

NRC

Bill Olmstead
Phil Altomare
Avi Bender
Reggie Brown
Maxine Dunkelman

Aerospace

Randi Lie
J. Woodford

Consultant

John Jordan

Environmental Policy Institute

David Berick

Discussion:

1. Charles Head presented an overview briefing describing the concept of the licensing information system which DOE has developed (copies of vugraphs used are attached). The main parts of the system are as follows:
 - a. It would be a distributed system composed of complimentary data indices and archives at DOE-HQ and each of the four repository project offices.
 - b. It would consist of a computerized index of regulations, documents, issues, and commitments, with a corresponding archive of document hard copies, microfiche, and physical records such as core borings, magnetic tapes, etc.

- c. The distributed indices would be addressable remotely using personal computers of equivalent terminals communicating over telephone lines with the computers that control the indices.
- d. All information collection, indexing, key wording, abstracting, storage, and retrieval of hard copies would be done by document control staffs at the five DOE locations.
- e. All five DOE locations, the NRC, and others such as the States and Indian Tribes would be able to access the system, although the time and manner for access by non-DOE offices has not yet been defined.

DOE is in the final stages of developing the system specification and hopes to start system design and further implementation soon.

- 2. NRC, Phil Altomare and Avi Bender, gave a presentation which summarized concerns raised in the NRC/DOE meeting of February 8, 1985, and recommended approaches to previous unresolved information management system issues (copies of viewgraphs are enclosed).

Major points raised by NRC during the presentation and following discussion are as follows:

- a. NRC's intention is to meet the Nuclear Waste Policy Act directive to review a high-level waste license application and reach a licensing decision within three years. To accomplish this, early identification and tracking of issues and a good document management system will be required.
- b. NRC recommended that DOE include NRC, the States, and Indian Tribes as contributors as well as users of the document management system they are developing.
- c. The relative merits of bibliographic and abstract versus full text search were discussed. Several advantages of full text search were noted, both as regards satisfying hearing "discovery" requirements and the considerable advantage to management in ability to review a program progress and keep it on track.

- d. NRC personnel discussed the hearing process and the particular problems of discovery. Concern was expressed as to whether DOE was developing a system that would be able to meet the licensing requirements without delays that would affect a three year review timeframe.
 - e. DOE was questioned as to whether there would be consistency between the field officers and Headquarters in the document management system, particularly as regards common indexing, abstracting, and descriptors for retrieving documents from the data base. DOE is planning consistent, compatible systems. NRC suggested that there be coordination between DOE, NRC, the States, and Indian Tribes in establishing a common indexing and descriptor vocabulary.
3. During and after the presentations summarized above, numerous points concerning the collection, storage, and retrieval of licensing information were discussed, including the following:
- a. During the discussion of the use of the licensing information system, Bill Olmstead provided several useful observations concerning the discovery process, including the following:
 - 1) If DOE establishes and makes available to the public, a system that allows the public to access all program records, that act satisfies the requirements for discovery during the licensing process. However, if DOE employees, offices, or contractors also keep separate files that are not sub-sets of the system made available to the public, then those systems are also subject to discovery.
 - 2) Any licensing information system that is capable of identifying and retrieving data in a timeframe that allows the licensing process to be completed in three years would be acceptable, whether it had full on-line text search and retrieval or was a simpler computerized abstract system such as DOE is considering. However, Bill Olmstead questioned whether a licensing information system that has only key words and abstracts available for computerized search could have quick enough response to avoid impacting discovery schedules. Several limitations of the computerized abstract approach were identified, including the potential that a user of the system would require several passes through the system to track down references and other related supporting documents.

3) A possible approach might be to employ full on-line text search and retrieval for future records and use the computerized abstract approach for the backing of past records.

b. David Berick made the following comments:

1) He stated that the various sources of defense high-level waste should be included in the system since he considers that information concerning the nature and origin of the defense waste will be needed in the repository licensing process.

2) He commented that the West Valley waste should be covered by the system.

3) He noted that DOE is obligated under the Nuclear Waste Policy Act (Sec. 117(a)) to provide information to State governments and Indian Tribes within 30 days of receipt of the request. He noted that any licensing information system established by DOE should also be able to meet this requirement to preclude the need for a separate system.

Conclusion: DOE and NRC agreed that they must continue to coordinate their activities as the two agencies continue their licensing information system activities, with the intent of developing a system to serve both agencies. NRC agreed to continue to keep DOE informed of their pilot project activities and to involve DOE in the pilot project to the maximum extent practicable. DOE should consider how it will meet discovery requirements and whether full text retrieval should be incorporated into the development.

CR Lead 6/19/85
DOE

pm attomas
NRC

PC Code: mtg.rpt
Mach C

NRC/DOE INFORMATION MANAGEMENT MEETING

MAY 10, 1985

PHIL ALTOMARE, NRC

AVI BENDER, NRC

REGINALD BROWN, NRC

ISSUE AND INFORMATION MANAGEMENT SYSTEM

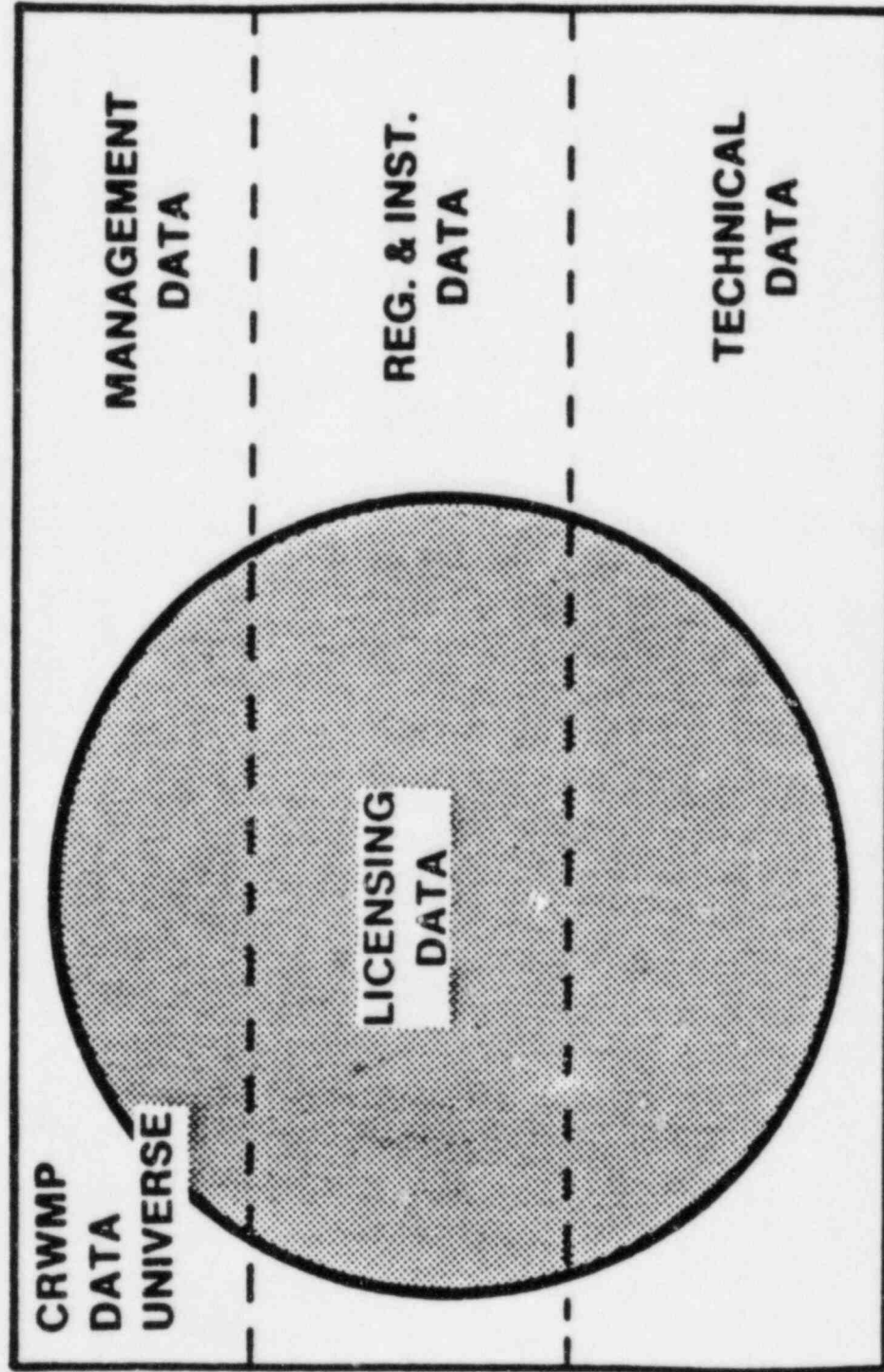
- O NWPA DIRECTS NRC TO COMPLETE HEARINGS FOR HLW REPOSITORY CONSTRUCTION AUTHORIZATION IN THREE YEARS
(ONE YEAR EXTENSION MAY BE GRANTED AFTER REPORT TO CONGRESS)

- O NRC IS CONSCIENTIOUSLY ATTEMPTING TO MEET THE NWPA DIRECTIVE THROUGH
 - EARLY IDENTIFICATION AND TRACKING OF LICENSING ISSUES
 - DEVELOPMENT OF AN INFORMATION MANAGEMENT SYSTEM TO IDENTIFY, LOCATE, AND RETRIEVE PERTINENT DOCUMENTS IN ORDER TO FACILITATE LICENSING

CONCERNS RAISED AT FEBRUARY 8 MEETING

- 0 THE HANDLING OF DOCUMENTS THAT MAY BE POTENTIALLY CONTRARY TO DOE'S CASE
- 0 THE NEED TO CONSIDER THE COST INVOLVED WITH MANUAL CHECKING OF DOCUMENTS AND THE COST OF DELAYS WHEN SELECTING THE SYSTEM DESIGN

LICENSING DATA CLASSIFICATIONS



(FIGURE PRESENTED BY DOE AT THE FEBRUARY 8, 1985 DOE/NRC MEETING)

FEBRUARY 28 MEETING, DOE MAJOR UNRESOLVED ISSUES

FEBRUARY 28 ISSUES

- 0 SYSTEM USERS
- 0 LICENSING VS. UNIVERSAL DATA
- 0 CENTRALIZED VS. DISTRIBUTED SYSTEMS
 - SINGLE MAIN FRAME ON MULTIPLE HOSTS
 - SOFTWARE STANDARDIZATION
 - DUPLICATION OF DATA AND/OR DEVELOPMENT
 - CENTRAL OR MULTIPLE HARD COPY ARCHIVES
- 0 MINIMUM REQUIRED SUPPORTING DATA SYSTEMS
- 0 ORGANIZATIONAL IMPACTS
- 0 TELECOMMUNICATION LINKS REQUIRED
 - DIAL-UP CONNECTIONS
 - COMMERCIAL PACKET NETWORK
 - DIRECT CONNECTION (FTS)
 - OCRWM NETWORKING (HOSTS)

SUGGESTIONS FOR CONSIDERATION

- DOE, NRC, OTHER AGENCIES, STATES, INDIAN TRIBES
PUBLIC
- ANY DATA OR DOCUMENTS THAT MAY BE REQUESTED UNDER
FOIA OR DISCOVERY
- CENTRAL DEPOSITORY FOR DOE, NRC, STATES, INDIAN
TRIBES, AND OTHER RECORDS. COMMUNICATION LINKS
FOR SEPARATE USER (DISTRIBUTED) SYSTEMS
-
-
- REASONABLE ACCESS BY ALL USERS
(INDIAN TRIBE REPRESENTATIVE REQUESTED DIAL-UP
CONNECTIONS)

MAJOR DIFFERENCE BETWEEN NRC AND DOE APPROACH AS OF FEBRUARY 8

- 0 DOE - DEVELOPING A DOCUMENT IDENTIFICATION AND LOCATER SYSTEM
 - USING EXISTING SYSTEMS
 - PRIMARILY BIBLIOGRAPHIC AND ABSTRACT SEARCH CAPABILITY TO IDENTIFY PERTINENT DOCUMENTS AND THEIR LOCATION
 - LIMITED DATA BASE

- 0 NRC - INVESTIGATING AN INTEGRATED INFORMATION MANAGEMENT SYSTEM
 - EVALUATING RECENT DEVELOPMENTS
 - CONSIDERING CAPTURING EXISTING MACHINE READABLE COPY AND THE FEASIBILITY OF REQUIRING THIS RECORD FORM IN THE FUTURE
 - LOOKING FOR IMPROVED DAY-TO-DAY OPERATIONS AND ANALYSIS CAPABILITY AS WELL AS IMPROVED DOCUMENT SEARCH AND RETRIEVAL TO SUPPORT LICENSING AND REDUCE THE TIME REQUIRED FOR LICENSING
 - DESIRE TO LINK SYSTEMS TOGETHER: ISSUE TRACKING; DOCUMENT SEARCH AND RETRIEVAL; DOCUMENT GENERATION; SEPARATE FACILITIES (FIELD OFFICES)
 - ALL RECORDS

NRC MAJOR CONCERN

- 0 THE DOE LICENSING DATA MANAGEMENT SYSTEM WILL NOT BE CAPABLE OF SUPPORTING A THREE YEAR LICENSE APPLICATION REVIEW
- THE SYSTEM, DATA, AND DOCUMENTS MUST BE AVAILABLE TO NRC, THE STATES, INDIAN TRIBES, AND OTHERS YEARS IN ADVANCE OF LICENSE APPLICATION
 - ANY AND ALL DOCUMENTS THAT MAY BE REQUESTED UNDER "DISCOVERY" MUST BE READILY IDENTIFIABLE AND RETRIEVABLE (CLASSIFIED AND PROPRIETARY DOCUMENTS MUST BE IDENTIFIED AS TO TYPE AND SUBJECT)

TYPES OF RECORDS THAT MAY BE REQUESTED IN DISCOVERY

(FROM AN ACTUAL HEARING)

- 0 "EACH REQUEST TO PRODUCE APPLIES TO PERTINENT DOCUMENTS WHICH ARE IN THE POSSESSION, CUSTODY, OR CONTROL OF THE STAFF AND THE APPLICANTS INCLUDING THEIR OFFICERS, DIRECTORS, EMPLOYEES, AGENTS, ADVISORS, OR COUNSEL."
- 0 "THE TERM 'DOCUMENTS' SHALL INCLUDE ANY WRITINGS, DRAWINGS, GRAPHS, CHARTS, PHOTOGRAPHS, AND OTHER DATA COMPILATION FROM WHICH INFORMATION CAN BE OBTAINED."
- 0 "PURSUANT TO 10 CFR 2.741 AND 2.744 MAKE AVAILABLE ---
 - (1) ANY WRITTEN RECORD OR ANY ORAL COMMUNICATION BETWEEN OR AMONG APPLICANTS, THEIR ADVISORS, CONSULTANTS, AGENTS, ATTORNEYS, AND/OR ANY OTHER PERSONS INCLUDING BUT NOT LIMITED TO THE NRC STAFF, INTERVENORS, AND THEIR ADVISORS, CONSULTANTS, AGENTS, ATTORNEYS, AND/OR ANY OTHER PERSONS; AND
 - (2) ANY DOCUMENTS, CORRESPONDENCE, LETTERS, MEMORANDA, NOTES, DIAGRAMS, REPORTS, CHARTS, PHOTOGRAPHS, OR ANY OTHER WRITING OR WHATSOEVER DESCRIPTION INCLUDING BUT NOT LIMITED TO WORK PAPERS, PRIOR DRAFTS, AND NOTES OF MEETINGS."

LEGAL INFORMATION RETRIEVAL REQUIREMENTS OF NRC

FREEDOM OF INFORMATION ACT (FOIA):

- 0 NRC REGULATIONS (10 CFR 9 SUBPART A - FREEDOM OF INFORMATION ACT REGULATIONS) REQUIRE ANY IDENTIFIABLE RECORD MADE BY, IN THE POSSESSION OF, OR UNDER THE CONTROL OF THE NRC, SHALL BE MADE AVAILABLE FOR INSPECTION AND COPYING PURSUANT TO THE PROVISIONS OF THIS PART, UPON REQUEST OF ANY MEMBER OF THE PUBLIC. THIS WOULD INCLUDE RECORDS IN THE POSSESSION OF NRC CONTRACTORS AND SUBCONTRACTORS.
- 0 CERTAIN RECORDS ARE EXEMPT FROM DISCLOSURE UNDER FOIA AND NRC REGULATIONS.
- 0 NRC MUST RESPOND TO THE REQUESTER WITHIN 10 DAYS AFTER RECEIPT OF A FOIA REQUEST.

LEGAL INFORMATION RETRIEVAL REQUIREMENTS OF NRC (CONT)

DISCOVERY:

- 0 GENERALLY STAFF DOCUMENTATION RELATIVE TO LICENSING PROCEEDINGS ARE ROUTINELY AVAILABLE IN THE NRC PUBLIC DOCUMENT ROOM.
- 0 DISCOVERY IS AVAILABLE REGARDING ANY MATTER, NOT PRIVILEGED, WHICH IS RELEVANT TO THE SUBJECT MATTER INVOLVED IN THE PROCEEDING.
- 0 DISCOVERY AGAINST THE NRC STAFF IS LIMITED TO ITEMS NOT REASONABLY AVAILABLE FROM OTHER SOURCES.
- 0 NRC REGULATIONS ALSO PROVIDE FOR DISCOVERY BETWEEN THE PARTIES TO A LICENSING HEARING; WRITTEN RESPONSE IS REQUIRED WITHIN 30 DAYS AFTER THE SERVICE OF THE REQUEST FOR PRODUCTION OF RECORDS AND DOCUMENTS.
- 0 THE SYSTEM SHOULD HAVE THE CAPABILITY TO IDENTIFY THE EXISTENCE, DESCRIPTION, NATURE, CUSTODY, AND LOCATION OF ANY BOOKS, DOCUMENTS, OR OTHER MATTER THAT MAY BE SUBJECT TO DISCOVERY OR FOIA REQUESTS.
- 0 NRC, STATES, INDIAN TRIBES, AND THE PUBLIC NEED TO BE ASSURED THAT DOE CAN PROVIDE ACCESS TO DOCUMENTS WHICH BOTH ARE SUPPORTIVE AND CONTRARY TO DOE'S POSITION.

GENERAL COMMENTS

- 0 DOE SHOULD EXPECT ALL CANDIDATE SITES TO BE SUBJECT TO DISCOVERY DURING THE LICENSING HEARING
- 0 NRC, STATES, AND INDIAN TRIBES SHOULD HAVE EQUAL ACCESS TO DOCUMENTS
- 0 ALL DOCUMENTS THAT CAN BE ASSOCIATED WITH LICENSING ARE SUBJECT TO DISCOVERY, PARTICULARLY THOSE THAT ARE CONTRARY TO A POSITION TAKEN
- 0 CONSISTENT USE OF DOCUMENT CODING (INDEXES, CONTROLLED VOCABULARY, TAXONOMY) IS IMPORTANT IN IDENTIFYING AND RETRIEVING DOCUMENTS - COORDINATION BETWEEN DOE, STATES, AND INDIAN TRIBES IS NEEDED
- 0 RETROFIT CAN BE TIME CONSUMING AND COSTLY, THEREFORE, ALL DOCUMENTS SHOULD BE CAPTURED NOW

STATUS OF NRC ISSUE AND INFORMATION MANAGEMENT SYSTEMS

NRC INFORMATION MANAGEMENT SYSTEMS

STATUS - PILOT PROJECT

- 0 BOTH ISSUE AND LICENSING DOCUMENT MANAGEMENT SYSTEM WILL BE DEMONSTRATED
- 0 SCOPE OF DEMONSTRATION
 - IDENTIFICATION, PROCESSING, TRACKING, AND RESOLUTION OF ISSUES
 - FULL TEXT STORAGE AND RETRIEVAL OF DOCUMENTS
 - TYPES OF INDEXING AND RETRIEVAL VOCABULARY
 - DATE BASE OF APPROXIMATELY 20,000 PAGES TO BE CREATED USING OPTICAL CHARACTER READER AND CURRENT WORD PROCESSING WORK STATIONS
 - USE OF REMOTE TERMINALS TO ACCESS SYSTEM
- 0 IMPLEMENTATION
 - IBM INFORMATION NETWORK
 - EQUIPMENT ON ORDER
 - PILOT PROJECT OPERATING PLAN DUE 5/30 FROM CONTRACTOR
 - LOGISTICS/INSTALLATION/TESTING
 - STAIRS IMPLEMENTATION (FULL TEXT STORAGE AND RETRIEVAL)
 - APPLICATION SYSTEM IMPLEMENTATION (ISSUE SYSTEM)
 - TRAINING
 - PERFORMANCE ASSESSMENT (TECHNICAL/COST/OPERATIONAL/SCHEDULE)

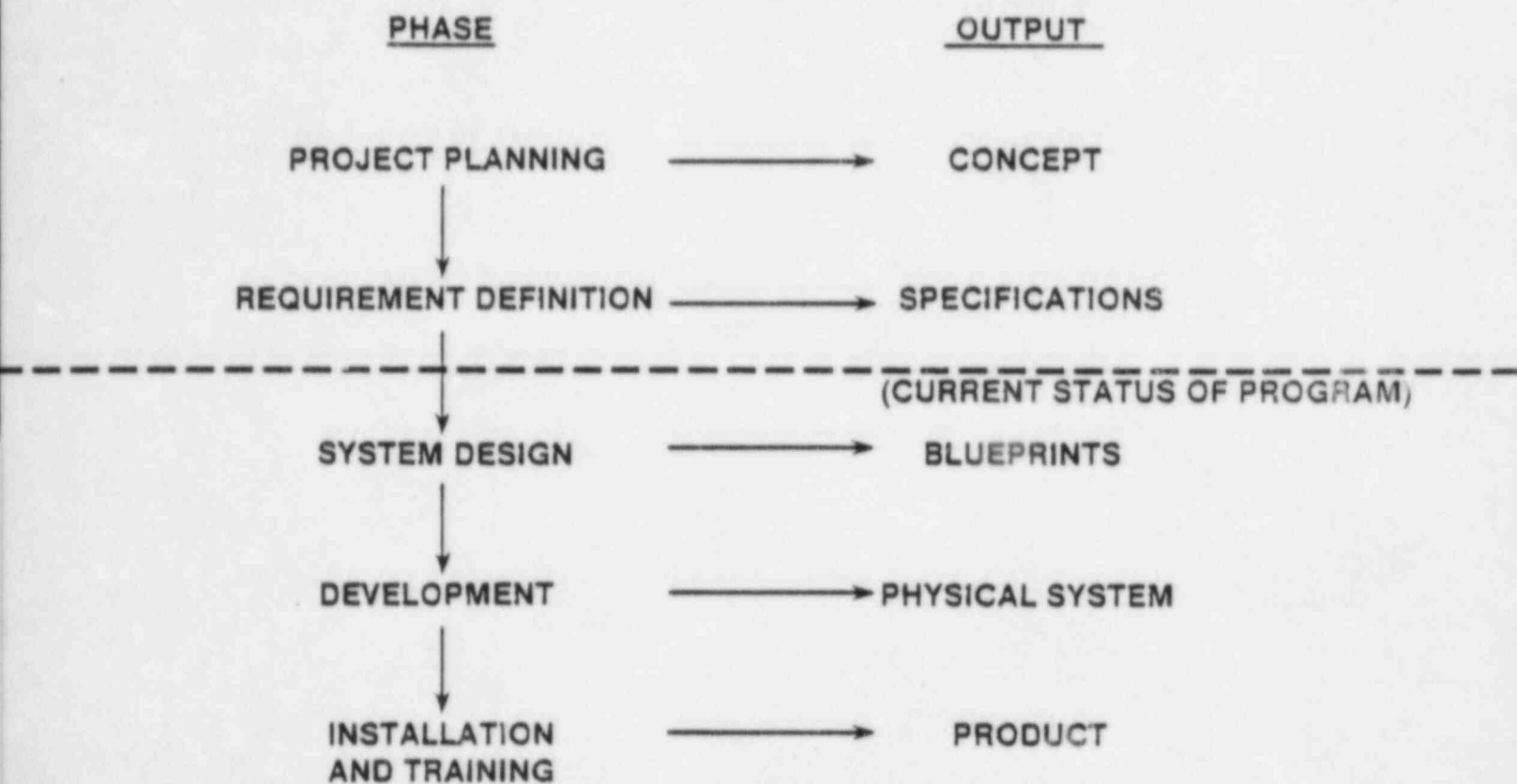
**OFFICE OF GEOLOGIC REPOSITORIES
LICENSING INFORMATION SYSTEM
REQUIREMENTS STUDY**

MARCH 18, 1985

PURPOSE OF THE LICENSING INFORMATION SYSTEM

- **SUPPORT TECHNICAL AND MANAGERIAL INFORMATION NEEDS TO SECURE LICENSE**
- **PROVIDE PERMANENT RECORD OF LICENSING ACTIVITIES**
- **SERVE AS A SOURCE FOR INFORMATION ABOUT LICENSING**

LICENSING INFORMATION SYSTEM DEVELOPMENT LIFE CYCLE



LICENSING INFORMATION SYSTEM REQUIREMENTS DEFINITION STUDY TASKS

- DESCRIBE LICENSING PROCESS
- DETERMINE INFORMATION NEEDS
- EVALUATE EXISTING SYSTEMS
- SYSTEM SCOPE AND DEFINITION
- IMPLEMENTATION PLAN
- FINAL BRIEFINGS

----- CURRENT STATUS
----- OF PROGRAM

- FINAL REPORT
— RECOMMENDATIONS
- DOE DECISION ON IMPLEMENTATION

LICENSING PROCESS KEY MILESTONES

- **SITE CHARACTERIZATION PLANS** 1985-1986
- **SITE DESIGNATION** 1991
- **LICENSE APPLICATION** 1991
- **CONSTRUCTION AUTHORIZATION** 1993
- **AMEND TO RECEIVE AND POSSESS** 1997
- **PROJECTED END OF OPERATIONS** 2026
- **CLOSURE/END OF RETRIEVABILITY OPTION** 2048
- **POTENTIAL END OF RETRIEVAL PERIOD** 2082

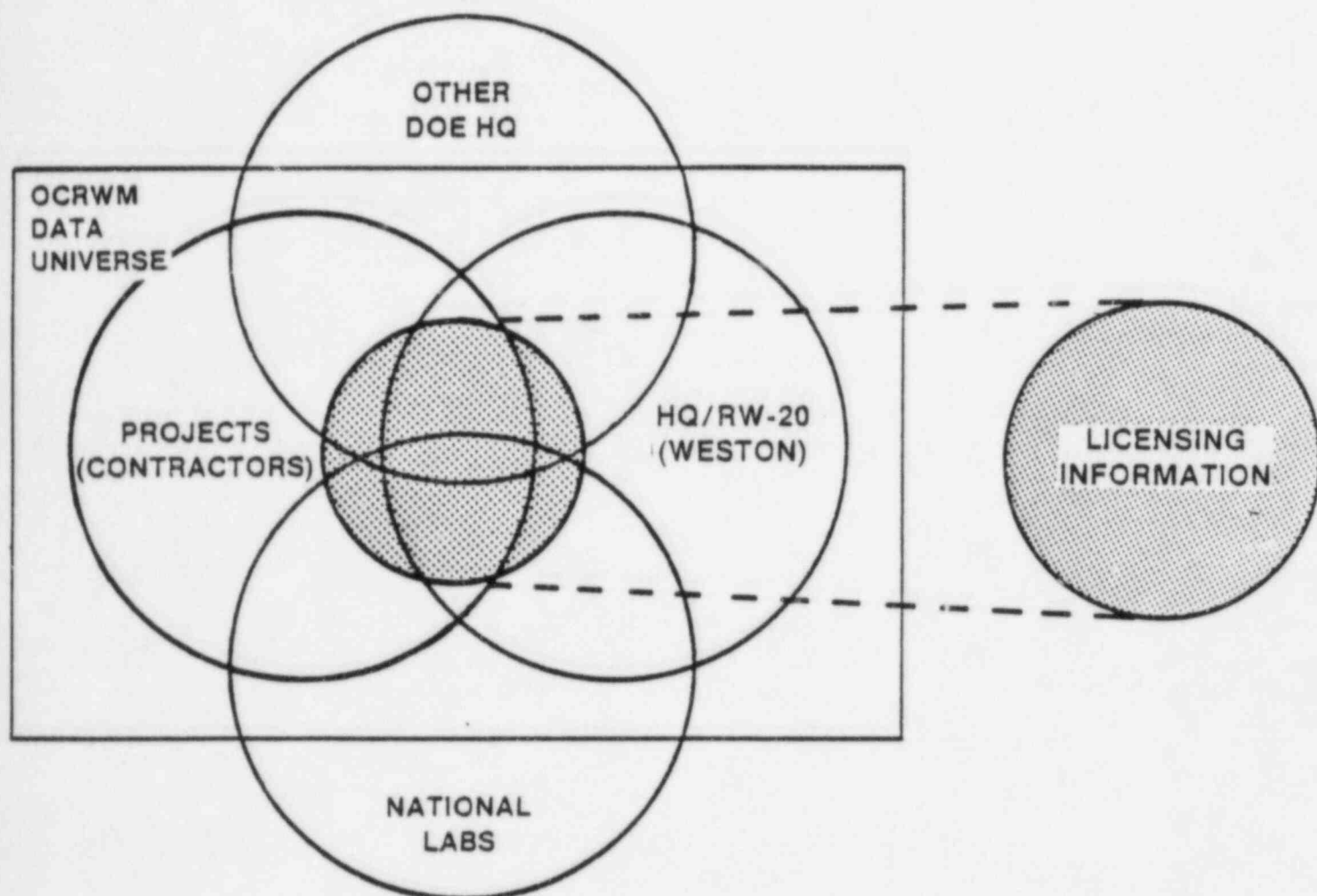
LICENSING PROCESS KEY DOCUMENTS

- **SITING GUIDELINES**
- **ENVIRONMENTAL ASSESSMENTS**
- **SITE CHARACTERIZATION PLANS**
- **ENVIRONMENTAL IMPACT STATEMENT**
- **SITE SELECTION REPORT**
- **LICENSE APPLICATION**
- **LICENSE AND AMENDMENTS**

LICENSING PROCESS SCHEDULED HEARINGS

- **EA HEARINGS**
- **SCP HEARINGS**
- **EIS HEARINGS**
- **ASLB HEARINGS**
- **ASLAB HEARINGS**
- **LAWSUITS**

LICENSING INFORMATION SYSTEM ENTITY DIAGRAM



EXISTING OCRWM ARCHIVE SYSTEMS

SRPO AND CRPO HAVE FULL SYSTEM FOR CAPTURE, MICROGRAPHIC COPY, INDEXING, ABSTRACTING AND CENTRAL STORAGE OF PROGRAM DOCUMENTS.

ROCKWELL IS SUPPORTED BY A SIMILAR SYSTEM BUT *NOT* ALL PROGRAM DOCUMENTS ARE CAPTURED, PARTICULARLY RL DOCUMENTS.

NNWSI IS CURRENTLY PERFORMING A REQUIREMENTS ANALYSIS FOR SUCH A SYSTEM.

HQ IS SUPPORTED BY MANUAL DECENTRALIZED FILING SYSTEMS.

OCRWM PROGRAM COMPUTER RESOURCES

DOE OFFICE	PRIME CONTRACTOR	MAINFRAME HARDWARE	DATA MANAGEMENT SOFTWARE
HQ	WESTON	IBM 4341 AMDAHL SPERRY 1100/72 (W) DEC VAX-11/785 (W)	DMS-1100, MAPPER INFO
BWIP	ROCKWELL	SPERRY 1100/44 IBM 4341	SYSTEM 2000 NOMAD
NNWSI	SAIC SANDIA	DEC VAX-11/750 (SAI) CDC CYBER (SANDIA)	INGRES SYSTEM 2000
SRP	BATTELLE	DEC VAX-11/750 (BCL) CDC CYBER (BCL)	BASIS
CRP	BATTELLE	DEC VAX-11/750 (BCL) CDC CYBER (BCL)	BASIS

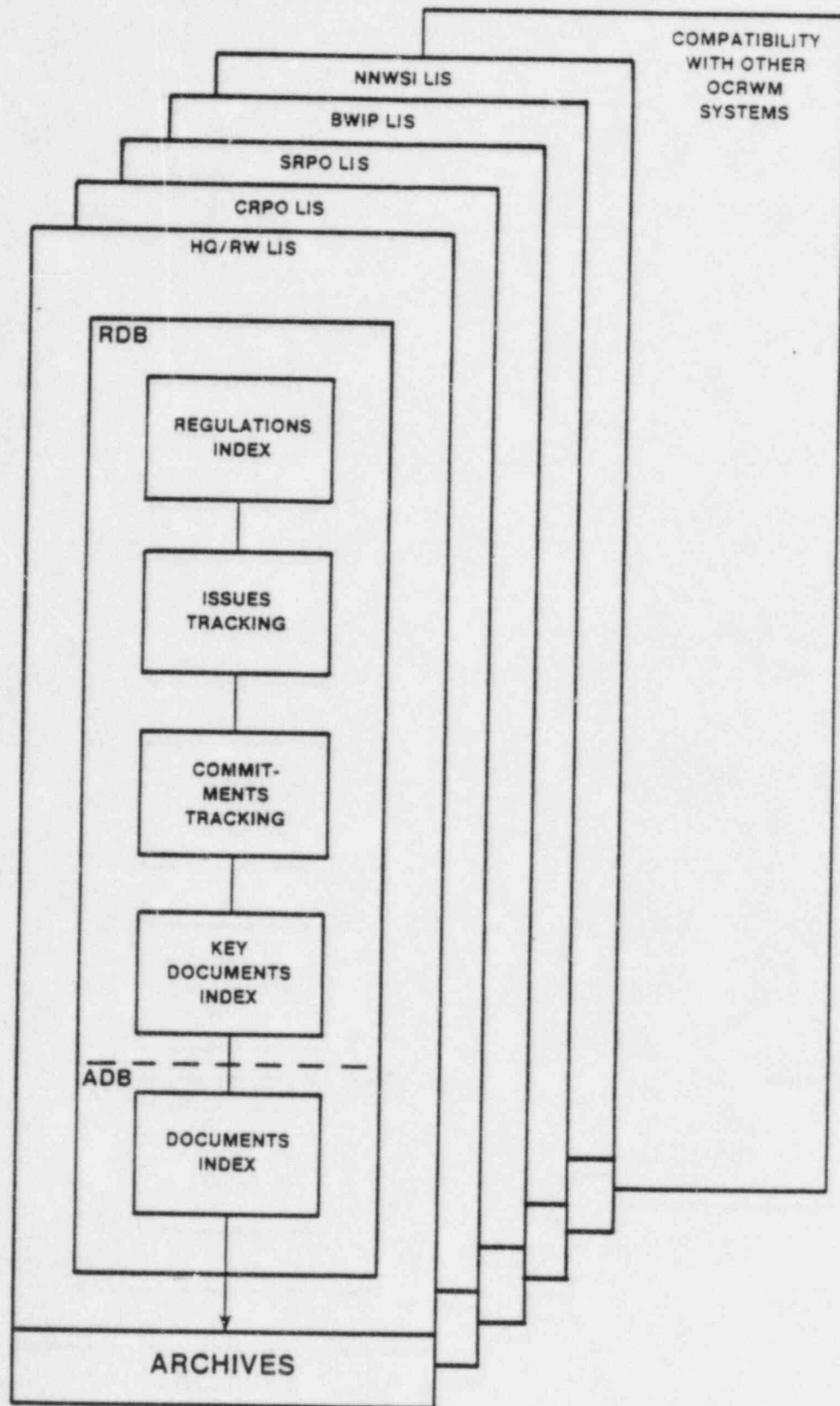
LICENSING INFORMATION SYSTEM REQUIREMENTS

- **ACCESS TO REGULATIONS**
- **TRACKING OF ISSUES**
- **TRACKING COMMITMENTS**
- **DOCUMENTING KEY DOCUMENTS**
- **ACCESS TO PROGRAM ARCHIVES**
- **EXPANDABLE TO INCORPORATE
OTHER PROGRAM ELEMENTS**

LICENSING INFORMATION SYSTEM (LIS) DATA BASE ADMINISTRATION RESPONSIBILITIES

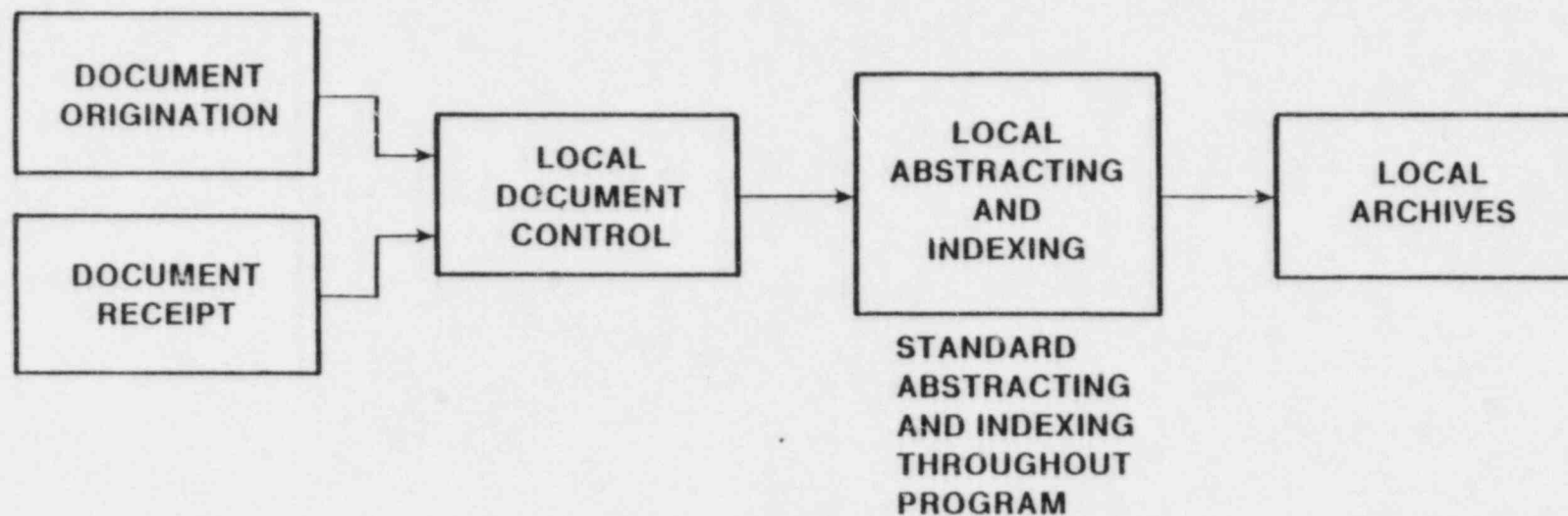
DATA BASE COMPONENTS	HQ	BWIP	NNWSI	SRP	CRP
REGULATIONS INDEX	FEDERAL	FEDERAL, FED. FLOWDOWN STATE, LOCAL	FEDERAL, FED. FLOWDOWN STATE, LOCAL	FEDERAL, FED. FLOWDOWN STATE, LOCAL	FEDERAL, FED. FLOWDOWN STATE, LOCAL
ISSUES TRACKING DATA BASE	PROGRAMMATIC, GENERIC AND SITE	SITE	SITE	SITE	SITE
COMMITMENTS TRACKING DATA BASE	PROGRAMMATIC, GENERIC AND SITE	SITE	SITE	SITE	SITE
KEY DOCUMENTS INDEX	PROGRAMMATIC AND GENERIC	SITE	SITE	SITE	SITE
DOCUMENTS INDEX	PROGRAM	SITE	SITE	SITE	SITE
HARDCOPY FILES	LOCAL	LOCAL	LOCAL	LOCAL	LOCAL
MICRO FICHE STORAGE	LOCAL	LOCAL	LOCAL	LOCAL	LOCAL
REFERENCE LIBRARY	LOCAL	LOCAL	LOCAL	LOCAL	LOCAL
PUBLIC DOCUMENT ROOM	LOCAL	LOCAL	LOCAL	LOCAL	LOCAL

OCRWM PROGRAM LIS

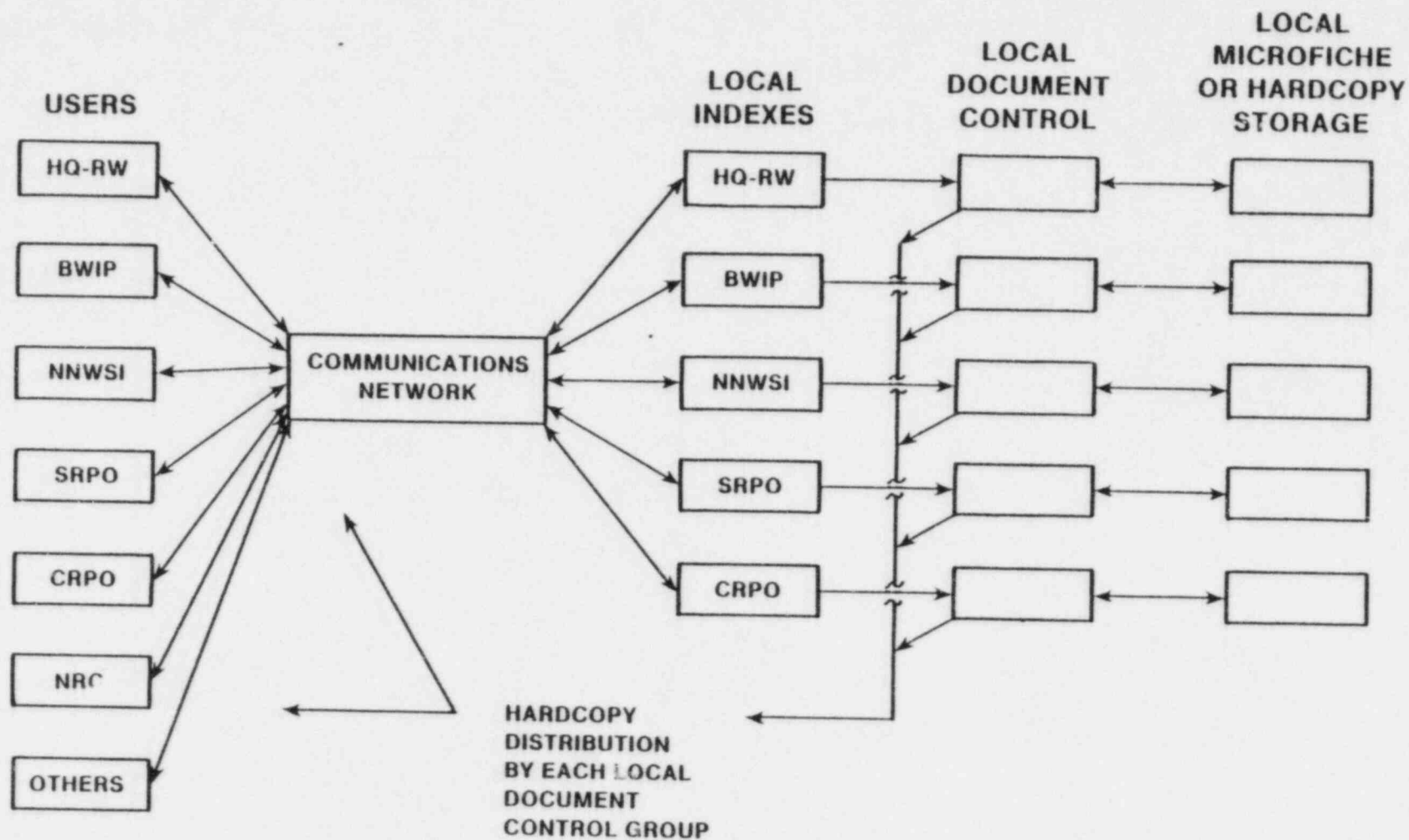


DECENTRALIZED IMPLEMENTATION OF LICENSING INFORMATION
SYSTEM (LIS)

LICENSING INFORMATION SYSTEM INPUT TO LOCAL ARCHIVES (TYPICAL FOR HQ-RW AND PROJECT OFFICES)



LICENSING INFORMATION SYSTEM (LIS) DOCUMENT SEARCH AND RETRIEVAL



LIS IMPLEMENTATION SCHEDULE

