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CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

TRIP REPORT
August 30, 1990

SUBJECT: NRC/DOE Meeting on Technical Data
DATE AND PLACE: August 23-24, 1990
Yucca Mountain Project Office, Las Vegas, Nevada
AUTHOR(S): Rawley Johnson, Steve Young, Charles Acree
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SUBJECT: NRC/DOE Meeting on Technical Data

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AUTHOR(S): Rawley Johnson, Steve Young, Charles Acree

PERSONS PRESENT:

NRC-Las Vegas

John Gilray
Paul Prestholt

NRC-LSSA

Betsy Shelburne

CNWRA

Charles Acree
Rawley Johnson
Steve Young

DOE-YMPO

Bob Barton
Max Blanchard
Lee Carpenter
Uel Clanton
Donald Helton
Vincent Iorri
Chris Lewis
Claudia Newbury
Linda Roy
Nick Stellavato

DOE-Washington

Barbara Cerny

SAIC

John Ashton
Jackalie Blue
Mae Cotter
Bruce Foster
M. Glora
Richard Holmes
Jan Statler
Nora Trentman

SNL

Joe Schelling

BACKGROUND AND PURPOSE:

The purpose of this meeting was to provide an opportunity for managers of the Department of Energy's (DOE) Yucca Mountain Project Office (YMPO) to explain its "technical data" handling methods to representatives of the Nuclear Regulatory Commission's (NRC) Office of the Licensing Support System (LSS) Administrator (LSSA) and the Center for Nuclear Waste Regulatory Analyses (CNWRA). The LSSA has engaged the CNWRA to resolve ambiguities pertaining to the term "technical data", to identify the organizations generating such data, to document existing plans for providing access to it, and to prepare a plan for implementing related requirements of the LSS Rule. The meeting was held as an Appendix 7 technical exchange.

SUMMARY OF PERTINENT POINTS:

1. LSSA and CNWRA representatives explained the purpose of their visit (stated above) and said that this was their initial fact-finding endeavor.
2. YMPO representatives and contractors presented briefings that afforded an overview of its technical data management system, providing the enclosed handouts. Earlier, the YMPO had provided copies of three administrative procedures pertaining to technical data - also enclosed.
3. No attempt will be made here to summarize the briefings and voluminous handouts thoroughly. However, there are several key points pertinent to the LSS that were clarified or emphasized:

Technical Data Definition

- A. The LSSA has employed the term "technical data" as a convenient way to describe documentary material which cannot be entered into the LSS in text-searchable form, in order to ensure that all of the relevant graphic and numeric material on which written materials are based will be included within the LSS framework and become accessible, somehow, to LSS users. The YMPO, in contrast, uses the term "technical data" far more broadly, to encompass all of the raw data that it acquires from technical activities, develops through the analysis of that raw data, and uses during the process of interpretation (e.g., socioeconomic data). In short, the YMPO calls the totality of the data that it includes within its non-administrative information storage and retrieved systems "technical data" - the "qualitative" portions, as well as the graphic and quantitative portions. While computer tapes are included within the YMPO's definition, physical samples are not - being a source of data, not properly data itself.

Technical Data Management System

- B. The YMPO's system is composed basically of the following:
 1. Nine local records centers (at the YMPO itself and at contractors SAIC, H&N, FSN, REECo, SNL, LANL, LLNL, AND USGS). These are libraries to which project organizations submit their acquired (raw) data. Each center employs its own computer system, as needed, to assist its data-consolidating activity.
 2. The Central Records Facility (CRF), the project-level library at the YMPO, to which the local centers submit all of their collected data.
 3. The Technical Data Base (TDB), located at SNL, an "umbrella" structure of "controlled data bases," which includes the Site and Engineering Properties Data Base (SEPDB), a Geographic Information System (GIS), and a Thermodynamic database. These computer systems are used by project investigators to manipulate the raw data, through the use of modeling and

graphic-display techniques. This assists analysis and interpretation of the data to produce developed data-record-packages.

4. The Reference Information Base (RIB), produced at SNL. This is a folder that contains a "distilled" summary description of fully interpreted technical data, with references to the more detailed data.
5. The Project Data Catalog, a manual index produced by the CRF. It describes the technical data stored by the YMPO and states its origin and whereabouts.
6. The Reference Information System (RIS) - the CRF's computer-based general records index.
7. The Automated Technical Data Tracking System (ADTS), the CRF's supplemental, computer-based technical-data index, which traces developed data to its raw-data origins through a data hierarchy. When it becomes fully operational, it will be the basis for the Data Catalog and will record TDB submissions and requests.

Technical Data Sources

- C. The CRF, with its computer indices, will be the foundation for the YMPO's support of the LSS. The CRF is now receiving quarterly and cataloging on a timely basis all raw technical data and developed data-record-packages that are generated by the DOE, its contractors, and sub-contractors in connection with high-level nuclear waste (HLW) repository licensing. Technical data submission to the CRF is governed by three management plans and three implementing procedures (all enclosed), which were formally adopted in early 1990.
- D. For more than a year, the nine local records centers have been forwarding technical data and developed data-record packages to the CRF, which they have generally received from associated project organizations within 45 days of acquisition (in the case of raw data) and 45 days after development (in the case of data-record-package segments). The YMPO is working to incorporate a large pre-1989 backlog of this material into its CRF holdings and computer indices.
- E. The YMPO's Sample Management Facility, which stores physical samples, submits the information it derives from those samples to the CRF as technical data.

Technical Data Storage

- F. The CRF stores both qualified (subjected to appropriate procedures) and non-qualified technical data - identified accordingly. However, submissions to the project-level TDB and RIB must satisfy all quality-assurance requirements.

- G. The YMPO does not store any documents on-line within its computer systems, in either searchable or imaged ("bit-mapped") form. Its archives are recorded in microfilm, as mandated by the National Archives. When loading begins for the LSS, the YMPO will use its LSS capture station to scan its materials (records and raw data) and submit the resulting images to the LSS by means of magnetic tape or disk.
- H. The YMPO does not intend to provide scanned images to the LSS in the case of certain forms of technical data, which have yet to be defined from both a practical and cost-benefit point of view, but which tentatively include such items as extra-large maps, colored photographs and maps, radiographs, and computer-tape contents. Only bibliographic headers will be sent to the LSS for such items. The YMPO has not yet determined in detail how it will handle the imaging of data-record-packages, which usually contain interspersed pages of graphs and photos.

Technical Data Access

- I. DOE policy is to make all technical data in its possession available to the public if no privileges apply. However, this complex matter has yet to be resolved in detail.
- J. The YMPO expects that all (non-DOE) LSS requests for its technical data will be channelled centrally, in written, descriptive form, through the YMPO Manager to the CRF (once all backlogged materials are stored there). The YMPO intends to respond in a timely manner. There will be no requests addressed to local records centers, no electronic requests, and no on-line access to CRF computer indices. Manipulable electronic data will be furnished only in the event that a request leads to a magnetic tape stored at the CRF.
- K. The YMPO will assure that the data elements it uses in the RIS (the computer-based record index) are compatible with the bibliographic header fields that the LSS finally adopts, so that the RIS format will serve to make CRF records available to the LSS expeditiously. Additional search criteria will be available through the YMPO's emerging ADTS (supplemental technical data index), which is updated using established Technical Data Information Forms that the local records centers complete. (The procedures for this important, inter-related process will be established when LSS procedures themselves become more clearly defined.)
- L. Currently, non-DOE requests for technical data are made using bound notebooks for reference: the Data Catalog and the RIB technical data summary, both of which are updated quarterly. When the LSS becomes available, participants will instead use on-line LSS bibliographic headers for this purpose, provided by the RIS (the CRF index). The RIB summary, will be viewable and text-searchable as an on-line document. The Data Catalog will, in effect, be automated through the RIS/ADTS, which will feed the LSS. The SEPDB (TDB-component) quarterly report, actually an updated catalog, will also be

available and searchable on the LSS, providing references to numeric data that are retrievable in hard copy or on magnetic media.

- M. The DOE's goal, on a national scale, is to create a networked, distributed data-base environment for HLW materials - providing non-DOE access, as appropriate, through standardized protocols, insofar as possible.

IMPRESSIONS/CONCLUSIONS:

The YMPO provided a well-orchestrated, comprehensive, and most helpful overview of its methods of handling technical data and answered all questions as candidly and thoroughly as possible in an informal atmosphere. It is important to note that its responses were confined to the DOE/contractor environment - offering no information or opinions concerning non-DOE technical data generation or foreseen needs. NRC and CNWRA representatives expressed their appreciation for the quality and usefulness of the session.

PROBLEMS ENCOUNTERED: None.

PENDING ACTIONS:

The summary of pertinent points (above) will be included within a briefing that the CNWRA will present to the LSS Advisory Review Panel on October 11, 1990.

RECOMMENDATIONS: None at this time.

SIGNATURE (S):

Charles L. Aron
Steph A. Gama

REFERENCES: None.

CONCURRENCE SIGNATURE AND DATE:

Rawley D. Johnson
Rawley D. Johnson
Director - Information Management Systems

9/11/90
Date

Allen R. Whiting
Allen R. Whiting
Director, WSE&I

9/13/90
Date

ENCLOSURES TO MEETING REPORT

1. Response to NRC Questions Regarding Technical Data (informal document).
2. Management Approach for Technical Data, Samples, and Systems (briefing charts).
3. Reference Information Base (briefing charts).
4. Yucca Mountain Project Records Management Program (briefing charts).
5. Technical Data Information Form (input form).
6. Sample Management Facility (public hand-out).
7. Sample Overview Committee (briefing charts).
8. Information System Management Plan (document).
9. Records Management Plan (document).
10. Technical Data Management Plan (document).
11. Administrative Procedure AP-5.1Q - Control and Transfer of Technical Data on the Yucca Mountain Project (document).
12. Administrative Procedure AP-5.2Q - Technical Information Flow to and from the Yucca Mountain Project Technical Data Base (document).
13. Administrative Procedure AP-5.3Q - Information Flow into the Project Reference Information Base (document).

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RESPONSE TO NRC QUESTIONS REGARDING TECHNICAL DATA

The Nuclear Regulatory Commission (NRC) letter from L. J. Donnelly, LSS Administrator, to J. C. Hoyle, LSSARP Chairman, dated July 16, 1990 contained several questions with regard to how technical data would be integrated into the Licensing Support System (LSS). Below is the Yucca Mountain Project response to those questions.

1. What types of material constitute technical data?

The Yucca Mountain Project defines technical data as: "Data and supporting information expressed as Project-defined parameters that are provided as input to or that result as outputs from Project technical activities (Technical Data Management Plan, Rev. 1)." Such data result from data acquisition or development activities and include scientific, environmental, socioeconomic, and engineering numerical values. Technical data may be either qualitative, quantitative, or graphic. It must be noted that physical samples are not considered to be technical data as they by themselves do not provide information about the site. It is the information derived from those samples (numerical or descriptive) that provide useful information and are thus considered technical data. Physical samples are managed through the Sample Management Facility.

2. What are the user needs for technical data?

There are basically two types of users: internal and external. Internal users (i.e., internal to the Yucca Mountain Project) acquire, develop, and use data to support Project activities such as site characterization, performance assessment, and design. Detailed data needs are described in individual study plans and in the Test and Evaluation Planning Basis (a controlled document). Detailed data needs of external organizations have not been addressed by Project activities. The Project policy is to respond to external data requests on a case-by-case basis.

3. What should be the timing and format for submission of technical data?

This issue is addressed in the Technical Data Management Plan, the Records Management Plan, and implementing procedures. In general, Project organizations are required to submit an index of acquired data within 45 days or in accordance with an approved schedule. The same time requirement applies for developed data on completion of a data development activity.

4. What types of technical data should not be imaged from a cost-benefit standpoint?

A cost-benefit analysis on this specific issue has not been performed by Project organizations. This information might be available from OCRWM/HQ as a result of activities performed by the LSS Design and Implementation Contractor. A qualitative answer to this question is that it would not be practical to image raw data, particularly those data that reside on computer tapes. There is little value in looking at rows of numbers without possessing some key to

interpreting them. Much of this data will be available through technical data reports which will already be imaged. Access to the computer tapes could readily be handled via a bibliographic header in the LSS.

5. What fields should be in the header?

Specific fields for capturing bibliographic information about technical data can be identified by examining the Project Records Information System (RIS). Additional information is available from the fields recorded on Technical Data Information Forms (TDIFs) which will be captured in the Automated Data Tracking System (ADTS).

6. What information should be included in the LSS to facilitate LSS participant access to technical data?

This issue has not been addressed by Project organizations. It is suggested that this question be referred to appropriate personnel at OCRWM/HQ. For internal Project users, the information to be recorded in the ADTS will be sufficient.

7. What are the existing infrastructures for providing access to technical data?

Access to technical data is provided through the Central Records Facility (CRF) which provides an access path to records of technical data (through the RIS) and to the data itself (through the ADTS). Submission of requested technical data is accomplished through established Project protocols. Additional details are available in the Technical Data Management Plan and the Records Management Plan.

TECHNICAL INFORMATION MANAGEMENT
ON THE YUCCA MOUNTAIN PROJECT

MANAGEMENT APPROACH FOR
TECHNICAL DATA, SAMPLES, AND SYSTEMS

MAXWELL BLANCHARD

ROBERT BARTON

AGENDA FOR NRC/DOE MEETING ON TECHNICAL DATA

AUGUST 23, 1990

INTRODUCTIONS/PURPOSE	1:30	BLANCHARD/BARTON
OVERVIEW OF TECHNICAL DATA MANAGEMENT	2:00	NEWBURY
REFERENCE INFORMATION BASE	3:00	SHELLING
RECORDS MANAGEMENT/TOUR	3:30	STATLER

AUGUST 24, 1990

SAMPLE MANAGEMENT	8:00	CLANTON/STELLAVATO
INFORMATION MANAGEMENT SYSTEM	9:00	HELTON
ROUND TABLE DISCUSSION	10:00	ALL

TECHNICAL DATA MANAGEMENT
ON THE YUCCA MOUNTAIN PROJECT

PRESENTED BY

CLAUDIA NEWBURY

PURPOSE

PROVIDE AN OVERVIEW OF THE PROJECT'S TECHNICAL DATA
MANAGEMENT SYSTEM

OVERVIEW OF TECHNICAL DATA MANAGEMENT

- **DEFINITION OF TECHNICAL DATA**
- **REQUIREMENTS**
- **SYSTEM DESCRIPTION**
- **TECHNICAL DATA INFORMATION SOURCES**
- **ACCESS TO TECHNICAL DATA**

LSS DEFINITION OF TECHNICAL DATA

- GRAPHIC-ORIENTED DOCUMENTARY MATERIAL WHICH COULD BE ELECTRONICALLY STORED IN IMAGED FORM
- DOCUMENTARY MATERIAL THAT CANNOT BE "IMAGED," SUCH AS COMPUTER TAPES AND CORE SAMPLES.

YUCCA MOUNTAIN PROJECT DEFINITION OF TECHNICAL DATA

DATA AND SUPPORTING INFORMATION EXPRESSED AS PROJECT-DEFINED PARAMETERS THAT ARE PROVIDED AS INPUT TO OR THAT RESULT AS OUTPUTS FROM PROJECT TECHNICAL ACTIVITIES (TECHNICAL DATA MANAGEMENT PLAN, REV. 1)

- TECHNICAL DATA RESULT FROM DATA ACQUISITION OR DATA DEVELOPMENT ACTIVITIES
- TECHNICAL DATA INCLUDES SCIENTIFIC, ENVIRONMENTAL, SOCIOECONOMIC, AND ENGINEERING NUMERICAL VALUES
- TECHNICAL DATA MAY BE QUALITATIVE, QUANTITATIVE, OR GRAPHIC
- PHYSICAL SAMPLES ARE NOT TECHNICAL DATA

OVERVIEW OF TECHNICAL DATA MANAGEMENT

(CONTINUED)

- DEFINITION OF TECHNICAL DATA

- REQUIREMENTS

- SYSTEM DESCRIPTION

- TECHNICAL DATA INFORMATION SOURCES

- ACCESS TO TECHNICAL DATA

OVERVIEW OF TECHNICAL DATA MANAGEMENT (CONTINUED)

TECHNICAL DATA MANAGEMENT REQUIREMENTS (QARD AND TDMP)

- ALL DATA SHALL BE IDENTIFIED AND TRACEABLE TO THE SOURCE
- ESTABLISHED INTERFACES AMONG PARTICIPANTS TO ENSURE COMMUNICATIONS LINES BETWEEN DATA USERS AND DATA PROVIDERS
- PROCESSING OF TECHNICAL DATA SHALL BE VERIFIED AND DOCUMENTED
- DATA BASES STORING TECHNICAL DATA AND INFORMATION SHALL BE CONTROLLED
- ALL RECORDS GENERATED DURING ACQUISITION/DEVELOPMENT/ACTIVITIES SHALL BE COLLECTED AND MAINTAINED IN A CONTROLLED MANNER

OVERVIEW OF TECHNICAL DATA MANAGEMENT (CONTINUED)

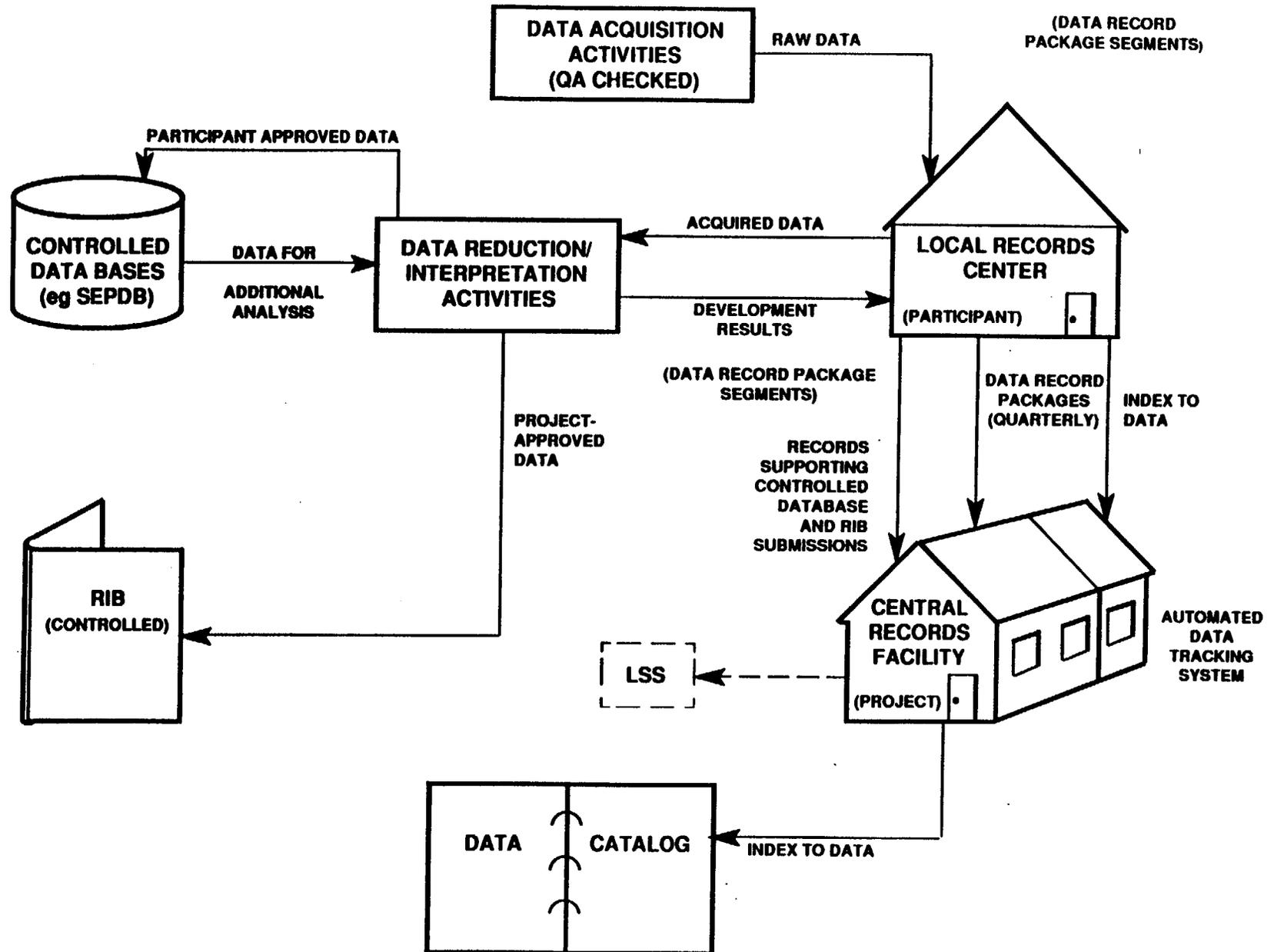
- DATA AND SUPPORTING INFORMATION SHALL BE PROVIDED TO THE CONTROLLED DATA BASES IN A TIMELY MANNER
- DATA SHALL BE PROVIDED TO REQUESTORS IN A TIMELY MANNER

OVERVIEW OF TECHNICAL DATA MANAGEMENT

(CONTINUED)

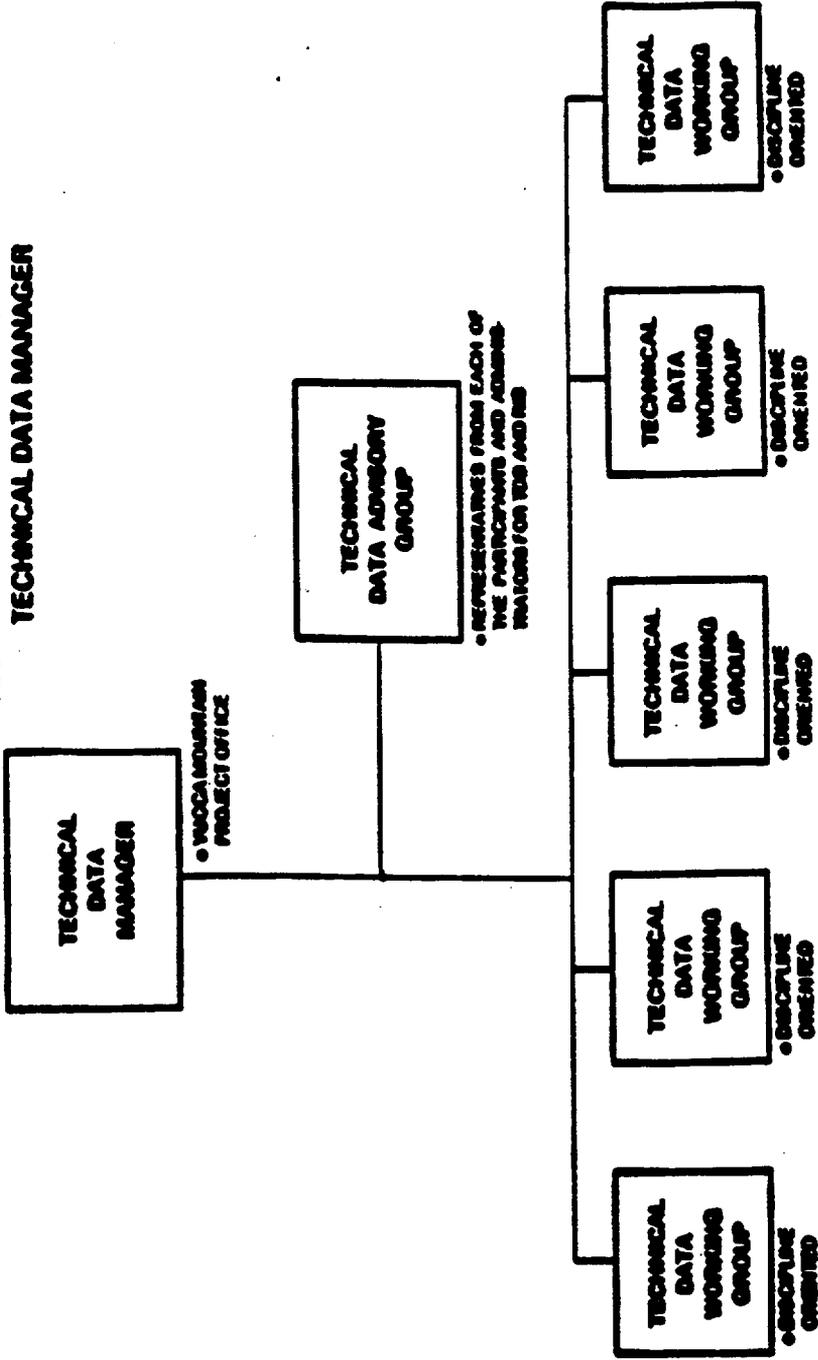
- DEFINITION OF TECHNICAL DATA
- REQUIREMENTS
- SYSTEM DESCRIPTION
- TECHNICAL DATA INFORMATION SOURCES
- ACCESS TO TECHNICAL DATA

SYSTEM OVERVIEW



MANAGEMENT STRUCTURE

PROJECT MANAGER
REGULATORY & SITE EVALUATION DIVISION DIRECTOR
TECHNICAL ANALYSIS BRANCH CHIEF
TECHNICAL DATA MANAGER

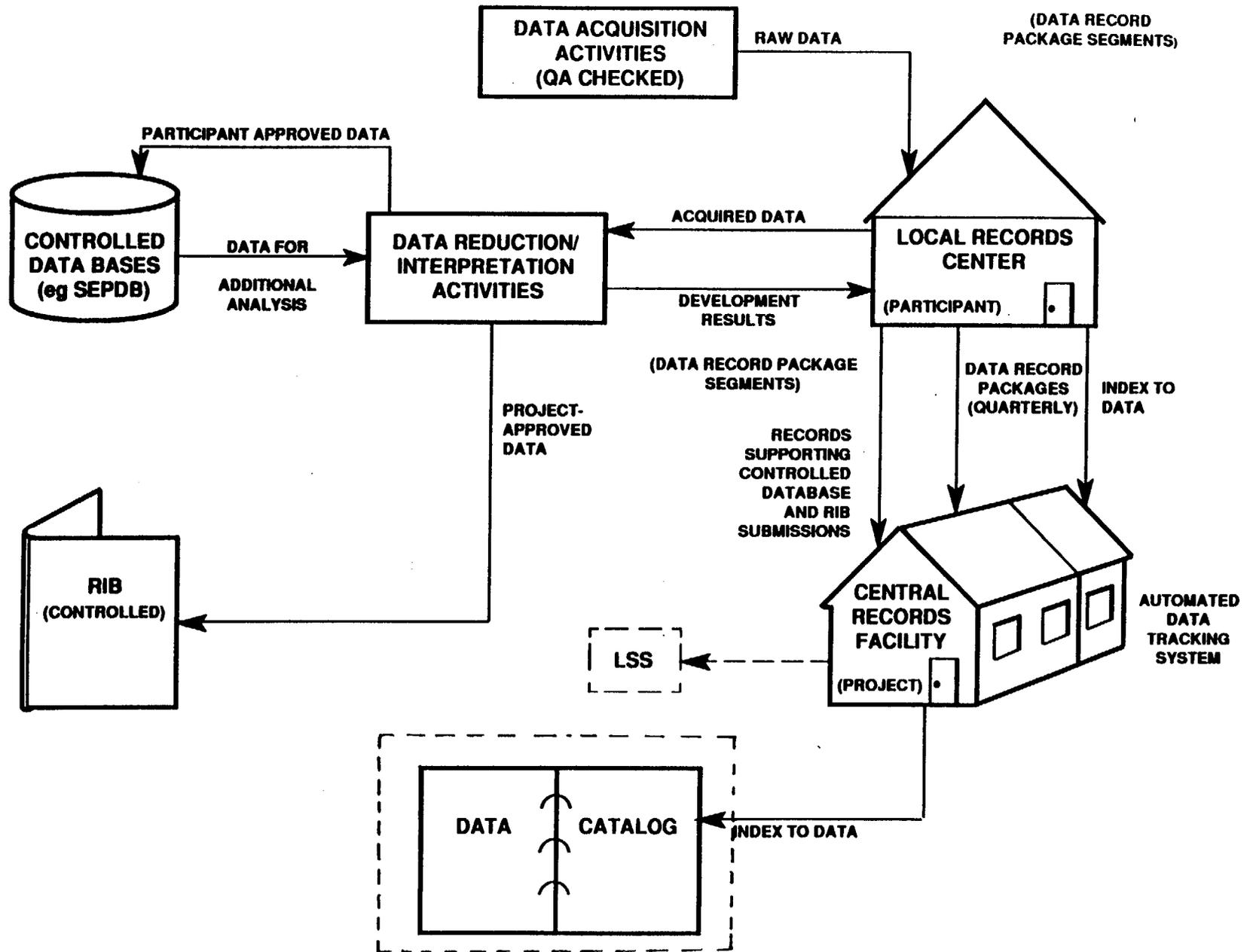


OVERVIEW OF TECHNICAL DATA MANAGEMENT

(CONTINUED)

- DEFINITION OF TECHNICAL DATA
- REQUIREMENTS
- SYSTEM DESCRIPTION
- TECHNICAL DATA INFORMATION SOURCES
- ACCESS TO TECHNICAL DATA

SYSTEM OVERVIEW



TECHNICAL DATA INFORMATION SOURCES

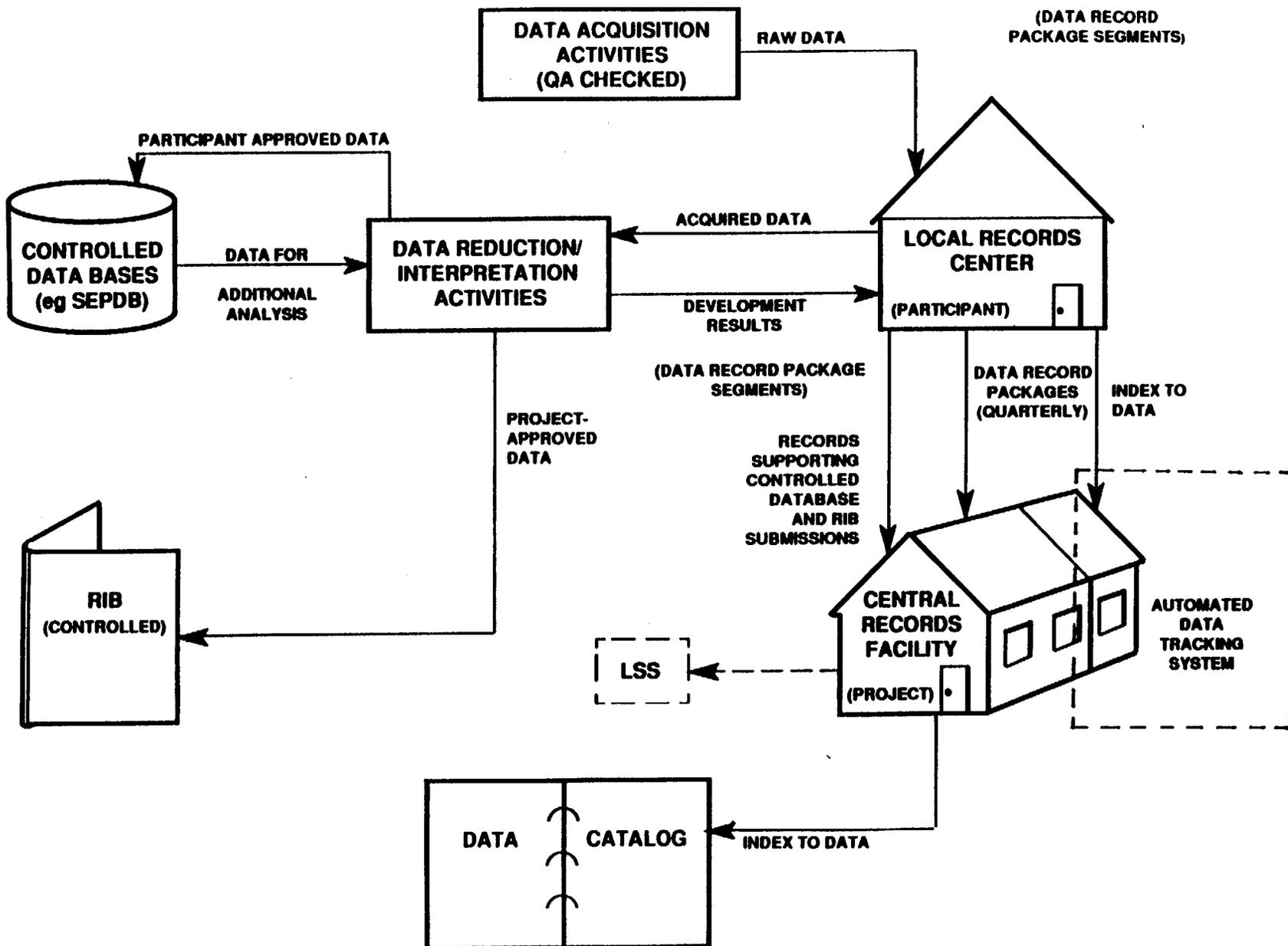
DATA CATALOG

- INDEX TO:
 - ACQUIRED DATA
 - DEVELOPED DATA
 - DATA STORED IN THE TECHNICAL DATA BASE
- PUBLISHED QUARTERLY
- DEVELOPED FROM THE AUTOMATED DATA TRACKING SYSTEM (PLANNED)

DATA CATALOG CONTENTS

- LISTING OF ACQUIRED DATA TYPES OR INFORMATION
- DESCRIPTION OF THE DATA
- LOCATION WHERE THE DATA WAS ACQUIRED
- DATA AND TIME OF ACQUISITION
- LOCATION WHERE DATA MAY BE EXAMINED

SYSTEM OVERVIEW

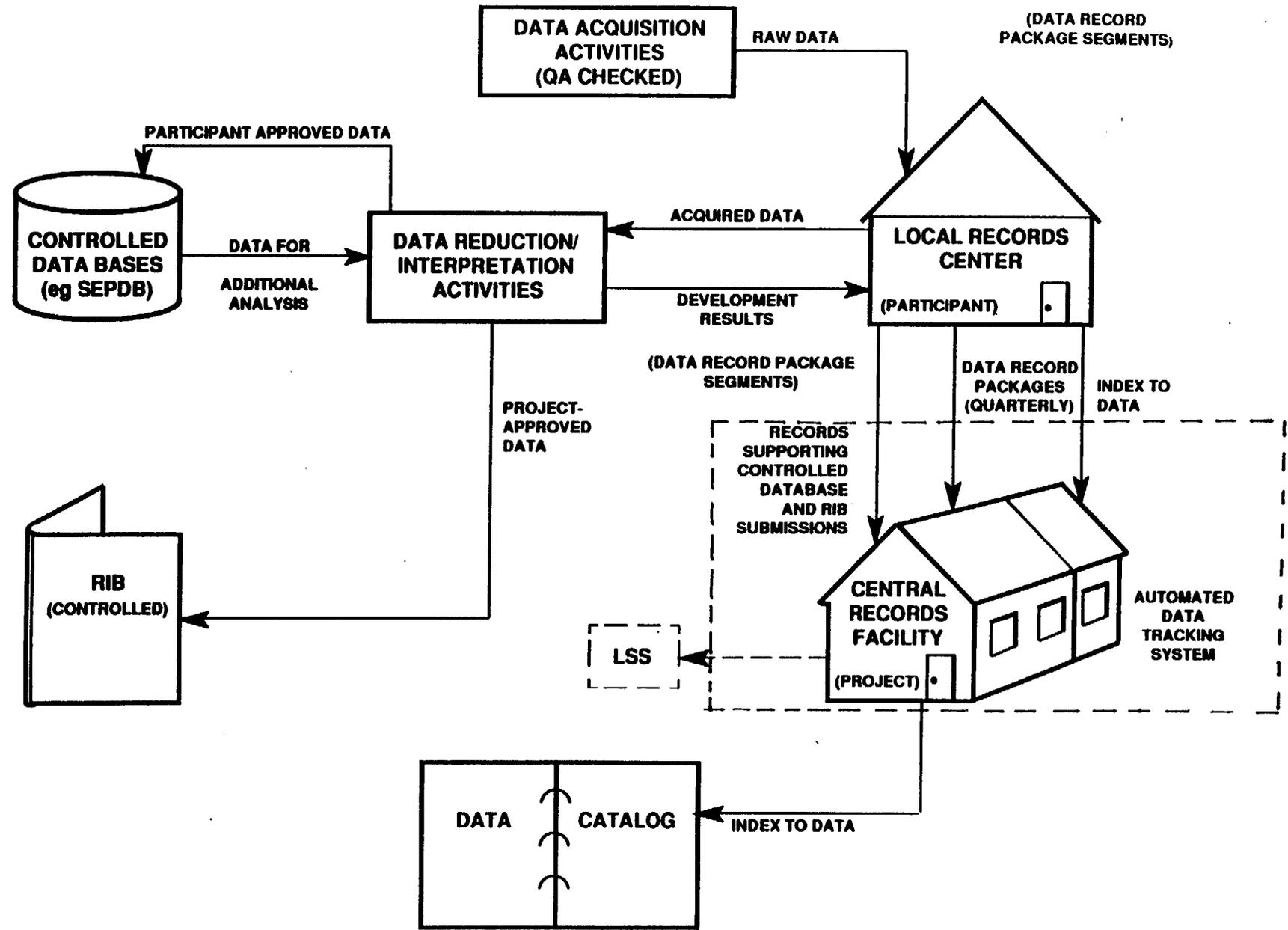


TECHNICAL DATA INFORMATION SOURCES (CONTINUED)

AUTOMATED DATA TRACKING SYSTEM

- INFORMATION MANAGEMENT SYSTEM
- MAINTAINS REFERENCES TO TECHNICAL DATA USED ON THE PROJECT
- ASSISTS PROJECT IN DETERMINING STATUS/AVAILABILITY OF TECHNICAL DATA
- TRACKS SUBMITTALS OF DEVELOPED AND ACQUIRED TECHNICAL DATA TO LOCAL RECORD CENTERS
- LINKED WITH PROJECT RECORDS MANAGEMENT SYSTEM TO PROVIDE EXACT LOCATION OF TECHNICAL DATA

SYSTEM OVERVIEW

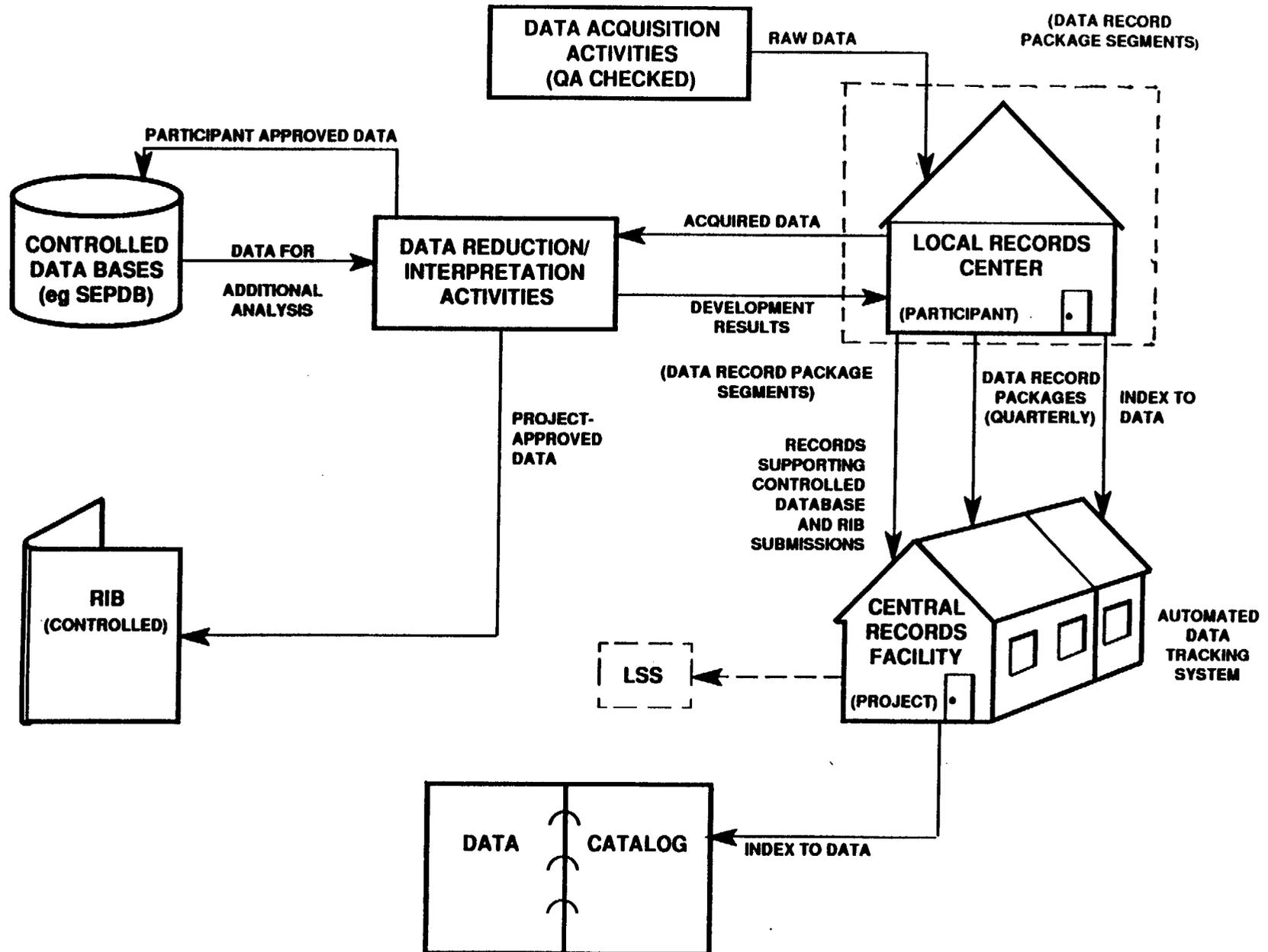


TECHNICAL DATA INFORMATION SOURCES (CONTINUED)

CENTRAL RECORDS FACILITY

- COPIES OF ALL TECHNICAL DATA STORED AT LRC ARE SUBMITTED QUARTERLY OR AS SCHEDULED TO THE CRF
- PROVIDES SECURE CENTRAL STORAGE AND COPYING FACILITY
- FOUNDATION FOR LICENSING SUPPORT SYSTEM (LSS)
- MAINTAINS AUTOMATED DATA TRACKING SYSTEM AND PRODUCES QUARTERLY DATA CATALOG

SYSTEM OVERVIEW

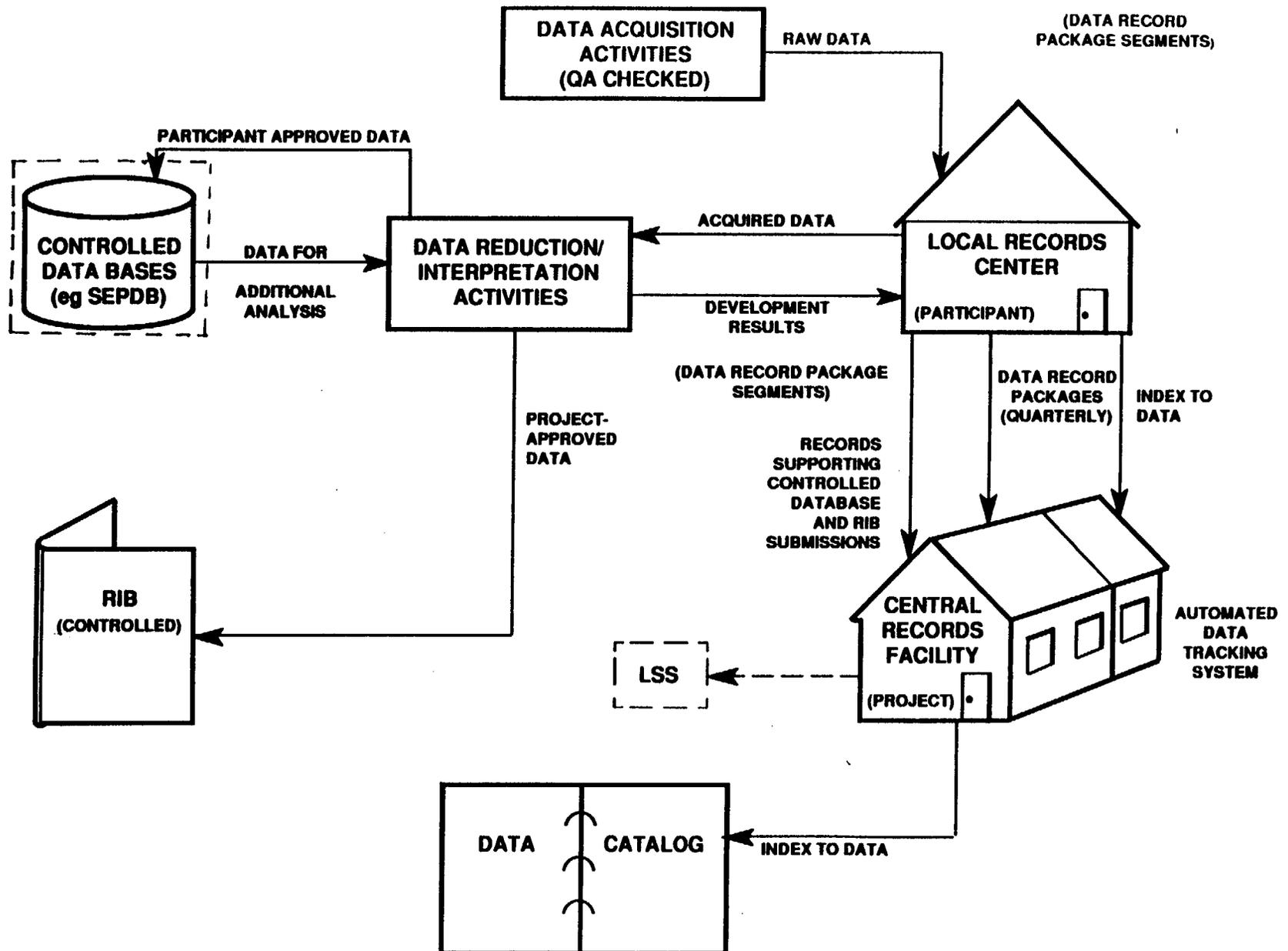


TECHNICAL DATA INFORMATION SOURCES (CONTINUED)

LOCAL RECORD CENTERS

- ACQUIRED DATA ARE PLACED IN STORAGE WITHIN 45 DAYS OF ACQUISITION
- DEVELOPED DATA ARE PLACED IN STORAGE WITHIN 45 DAYS OF COMPLETION OF ACTIVITY
- PROVIDES LIMITED ACCESS STORAGE AREA
- PROVIDES FULL DOCUMENTATION OF DATA DEVELOPMENT
- TRANSMITS INDEX OF ALL TECHNICAL DATA ACQUISITIONS OR MANIPULATIONS TO CRF VIA TECHNICAL DATA INFORMATION FORMS (TDIFs) FOR CAPTURE BY ADTS

SYSTEM OVERVIEW

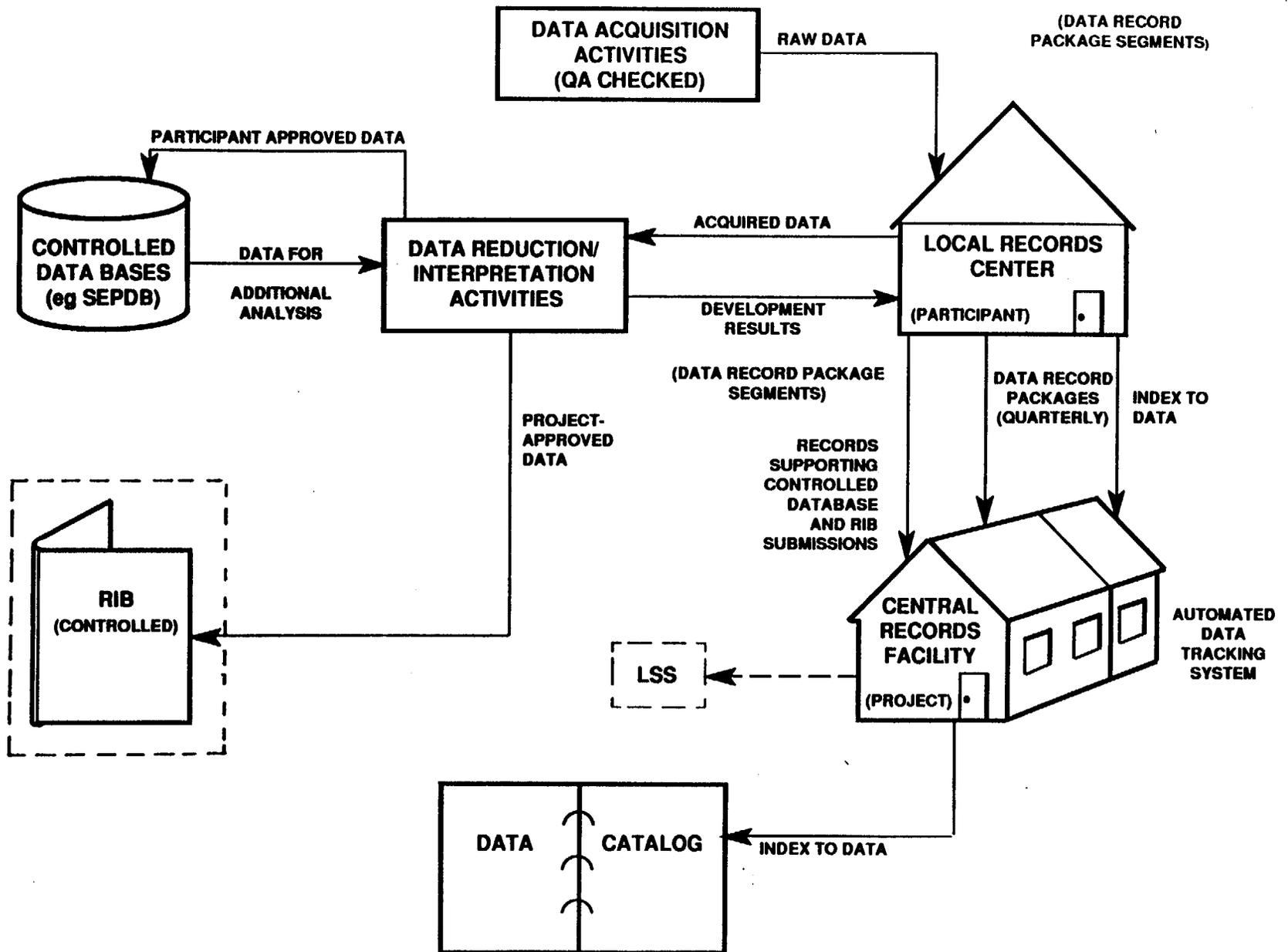


TECHNICAL DATA INFORMATION SOURCES (CONTINUED)

TECHNICAL DATA BASE (TDB)

- TDB CURRENTLY CONSISTS OF THE SEPDB, GIS AND THERMODYNAMIC DATA BASE
- SEPDB PROVIDES COMPUTER STORAGE AND RETRIEVAL FOR PHYSICAL PROPERTIES AND RELATED ALPHA-NUMERIC INFORMATION USED IN DESIGN, PERFORMANCE ASSESSMENT AND MODELING
- GIS IS A GEOGRAPHIC INFORMATION SYSTEM FOR YUCCA MOUNTAIN
- THERMODYNAMIC DATA BASE SUPPORTS MODELING CODES SUCH AS THE EQ3/6 GEOCHEMICAL MODELING CODE.

SYSTEM OVERVIEW



TECHNICAL DATA INFORMATION SOURCES (CONTINUED)
REFERENCE INFORMATION BASE (RIB)

- CONTROLLED DOCUMENT

- PROVIDES INTERNALLY CONSISTENT VALUES FOR PROJECT WIDE USE IN VARIOUS ANALYSES OF
 - SITE
 - DESIGN
 - PERFORMANCE
 - SOCIOECONOMIC
 - ENVIRONMENTAL

- PROVIDES REFERENCES TO MORE DETAILED DATA AND INFORMATION IN THE CRF

- REVISED ANNUALLY WITH QUARTERLY UPDATES AS INFORMATION IS IDENTIFIED FOR INCLUSION BY TECHNICAL DATA ADVISORY GROUP

OVERVIEW OF TECHNICAL DATA MANAGEMENT

(CONTINUED)

- DEFINITION OF TECHNICAL DATA
- REQUIREMENTS
- SYSTEM DESCRIPTION
- TECHNICAL DATA INFORMATION SOURCES
- ACCESS TO TECHNICAL DATA

ACCESS TO TECHNICAL DATA BY OUTSIDE PARTIES

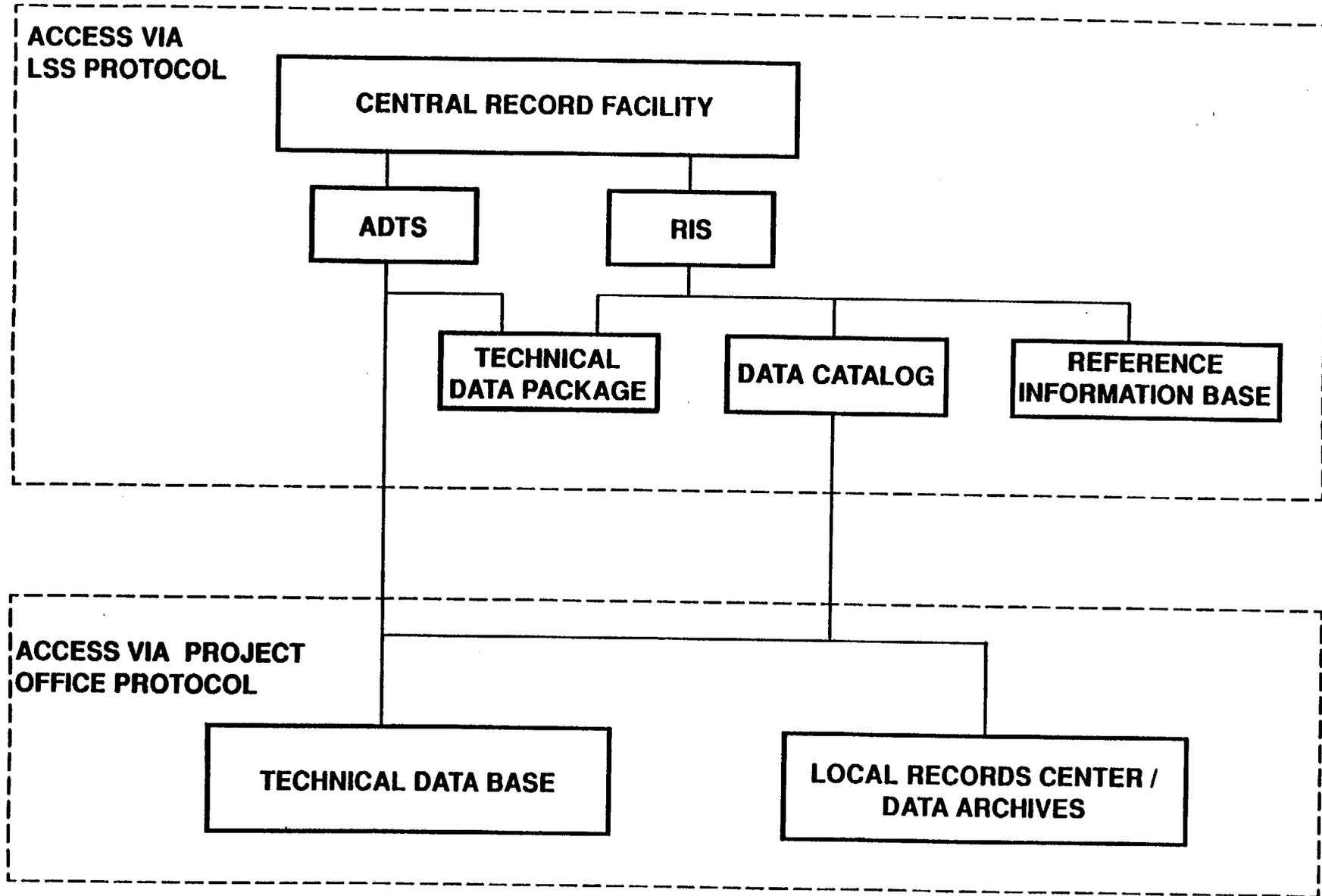
DOE'S PROCESS TO RESPOND TO DATA REQUESTS:

- DATA NEEDS IDENTIFIED IN DATA CATALOG
- REQUEST FOR DATA SUBMITTED TO DOE
- DOE TRANSMITS INCOMING REQUEST TO APPROPRIATE RECORDS CENTER FOR COMPLETION
- THE APPROPRIATE RECORD CENTER WILL PROVIDE DATA TO PROJECT OFFICE FOR TRANSMITTAL TO REQUESTER
- DOE WILL COORDINATE AS NECESSARY WITH REQUESTING PARTY AND WILL KEEP REQUESTER INFORMED OF STATUS
- DOE WILL PROVIDE DATA FROM MOST APPROPRIATE SOURCE IF DATA IS NOT YET IN DATA CATALOG OR RIB

SOURCES FOR ACCESS TO TECHNICAL DATA FROM THE LSS

- RECORDS SYSTEM
- DATA CATALOG
- REFERENCE INFORMATION BASE
- AUTOMATED TECHNICAL DATA TRACKING SYSTEM

TECHNICAL DATA ACCESS PATHS



CURRENT STATUS

- AUTOMATED DATA TRACKING SYSTEM IS UNDER DEVELOPMENT
- DATA CATALOG HAS BEEN PUBLISHED QUARTERLY FOR SEVERAL YEARS, BUT DOES NOT YET INCORPORATE INFORMATION FROM ALL PARTICIPANTS
- RIB, AND TDB SYSTEMS ARE OPERATIONAL AND CONTAIN DATA
- NONE OF THE SYSTEMS CURRENTLY CONTAIN THE COMPLETE SET OF EXISTING PROJECT DATA
- RIB, AND TDB WILL CONTINUE TO EXPAND AS SITE CHARACTERIZATION AND DESIGN INFORMATION BECOMES AVAILABLE
- LOCAL AND CENTRAL RECORDS CENTERS ARE FUNCTIONAL

CURRENT TECHNICAL DATA MANAGEMENT FOCUS

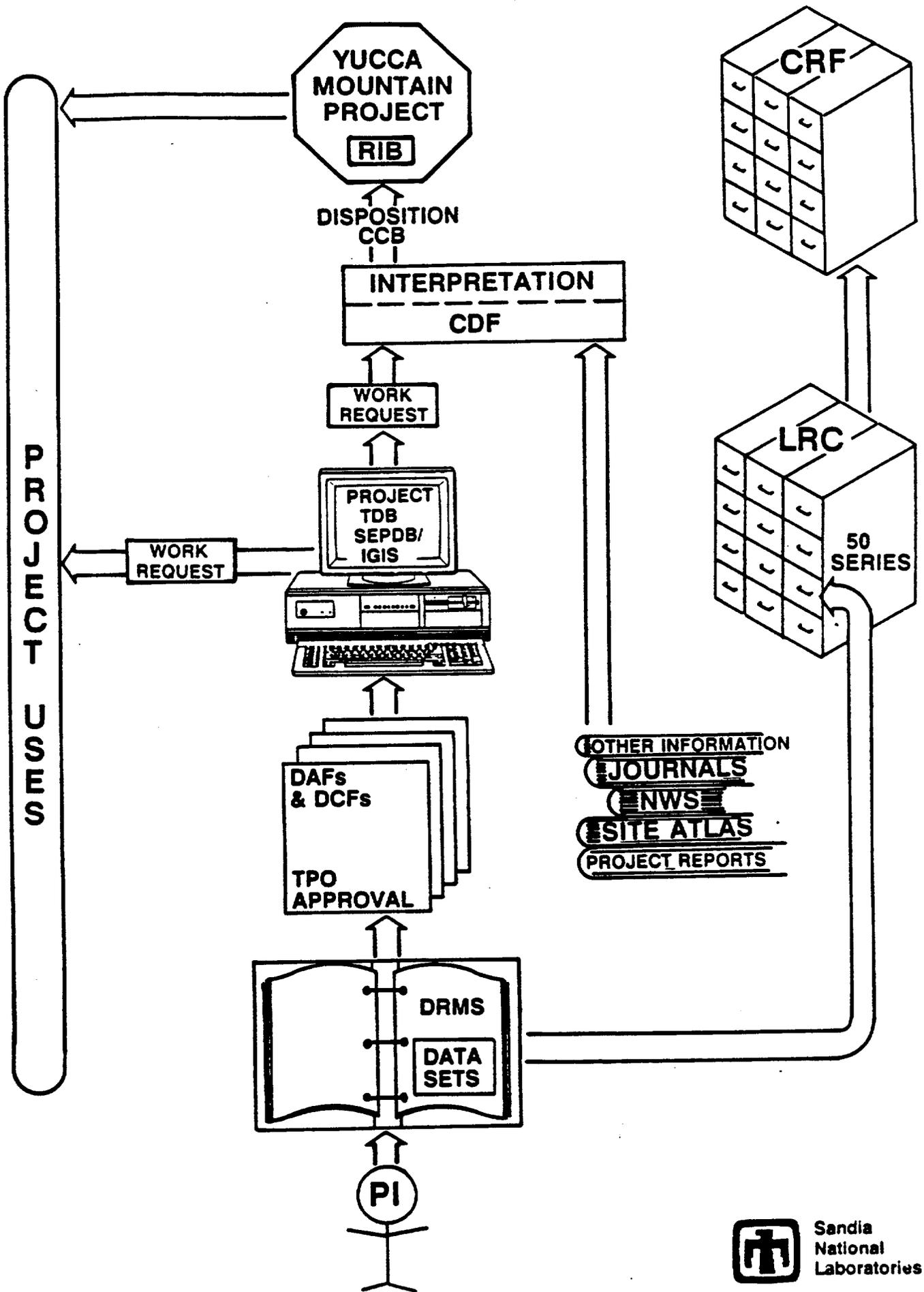
- COMPLETION OF AUTOMATED DATA TRACKING SYSTEM
- COLLECTION OF EXISTING TECHNICAL DATA IN POSSESSION OF PROJECT PARTICIPANTS
- PROCESSING OF BACKLOG RECORDS. TECHNICAL DATA FOUND IN RECORDS WILL BE RECORDED IN THE AUTOMATED DATA TRACKING SYSTEM
- REVISION OF RIB TO ENCOMPASS ALL SCP PARAMETERS
- FUNCTIONAL ANALYSIS OF THE TDB
- DEVELOP SCHEDULE FOR ADTS AND TDB SUBMITTALS

SUMMARY

CENTRAL RECORDS FACILITY WILL BE THE PRINCIPAL SOURCE OF DATA TO THE LSS

- TECHNICAL DATA MANAGEMENT SYSTEM WILL PROVIDE INFORMATION ON TECHNICAL DATA VIA TDIF FOR RECORDS MANAGEMENT SYSTEM.
- ADTS WILL PROVIDE DATA TRACEABILITY FROM ITS DEVELOPED FORM TO ITS ACQUIRED DATA ORIGIN

PROJECT DATA FLOW



2.3.3

RIB PURPOSE

The purpose of the Reference Information Base (RIB) is to:

- 1) assimilate, synthesize, distill, and interpret results obtained through Project data acquisition and analysis activities,**
- 2) serve as a central source of controlled technical information, and**
- 3) enhance communication and improve the consistency of use of data in Project activities.**

RIB DEFINITION

The RIB provides a distillation of Project technical data, which establishes nominal values and ranges of uncertainty for technical parameters relevant to Project applications.

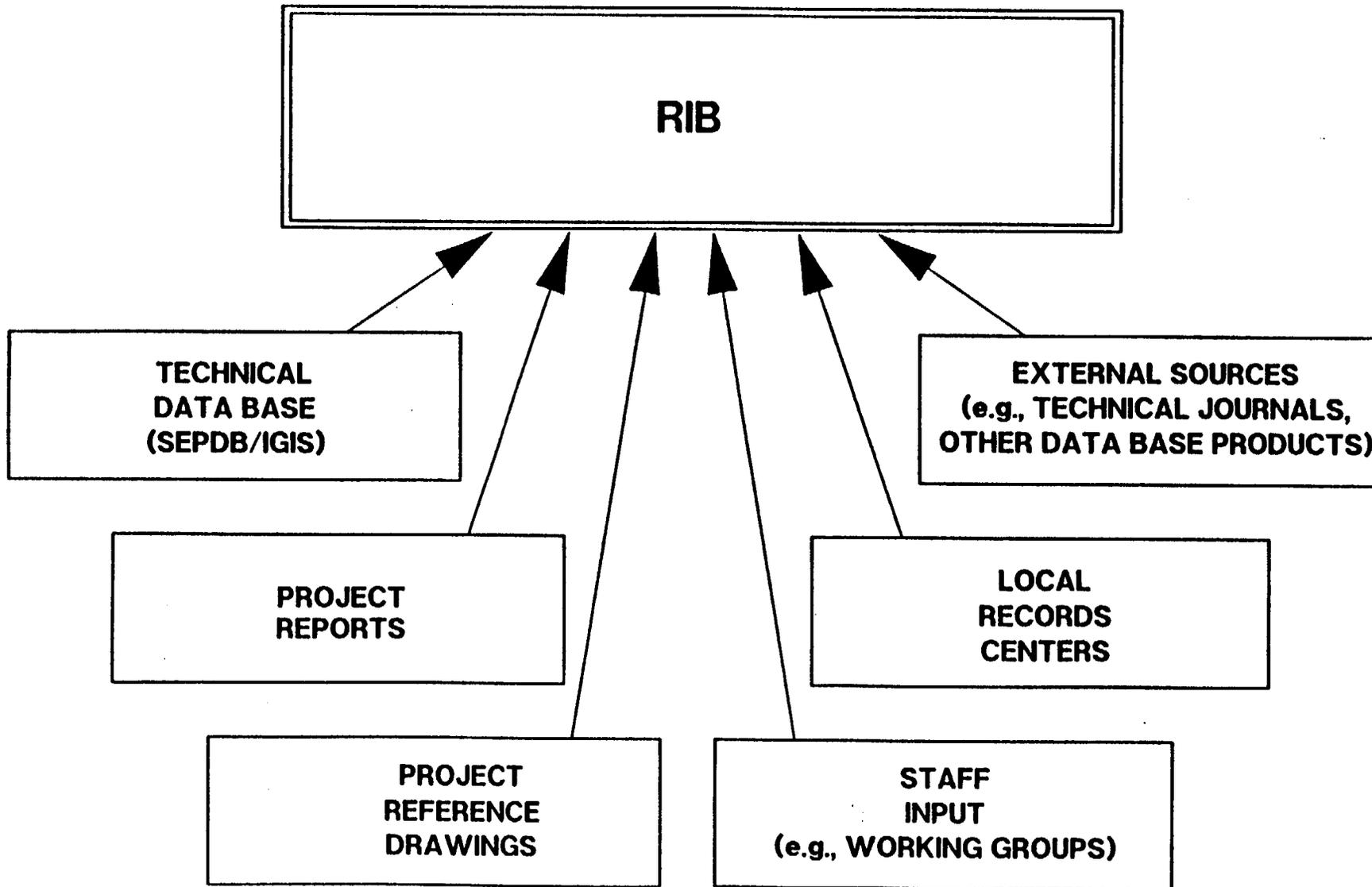
The "information base" format provides descriptive summaries of assumptions, limitations, and recommendations on uses of data and data interpretations, and identifies sources of more detailed information.

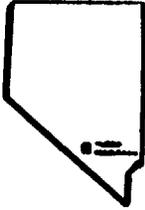
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RIB INFORMATION SOURCES





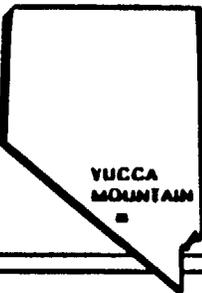
**YUCCA
MOUNTAIN
PROJECT**

INTENDED RIB CONTENT

RIB Content is guided by:

- **Site Characterization Plan (SCP) Parameters**
- **Issues Hierarchy and Information Needs**
- **Licensing Support System (10 CFR 2) Topical Guidelines**

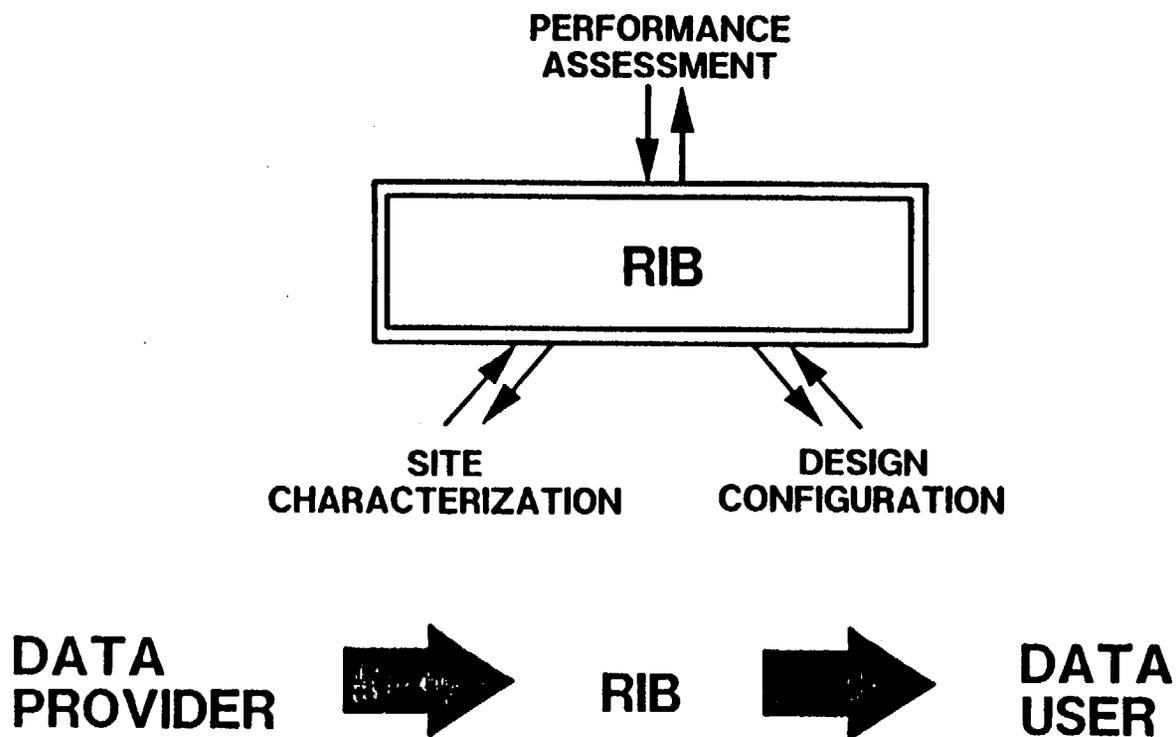




RIB INTERFACES



CONSISTENT USE OF INFORMATION IS ENHANCED BY COORDINATING AND CONTROLLING INFORMATION THROUGH THE RIB.



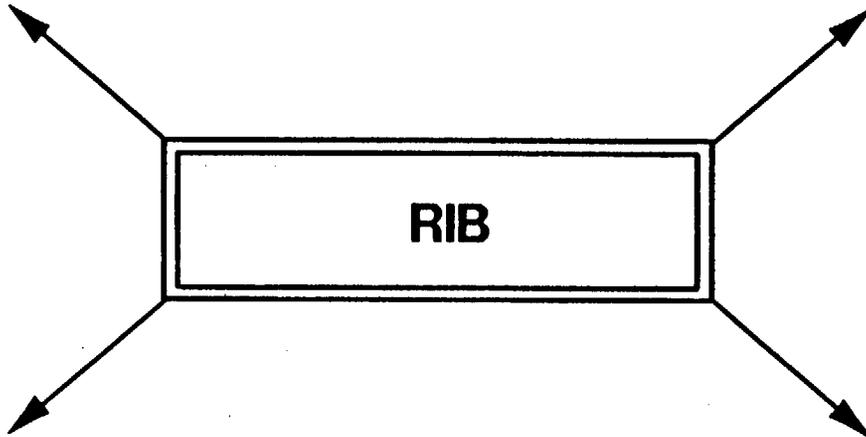


USE OF THE RIB FOR PROJECT ANALYSES



ENVIRONMENTAL/SOCIOECONOMIC

SITE CHARACTERIZATION



REPOSITORY DESIGN

PERFORMANCE ASSESSMENT



LICENSE
APPLICATION
SUPPORT

RIB GOALS

Short-Term:

- **Document Project interpretation of the current understanding of technical data parameters to improve the consistency in the use of data in Project activities.**

Long-Term:

- **Evolution to a stable descriptive summary of technical information used in support of license application.**

**YUCCA
MOUNTAIN
PROJECT****RIB ITEM CONTENT**

Header: Change control identification, e.g. RIB Version 4, Revision 0 of Item 1.2.2.

Keywords: List of topical keywords tied to Topic Index

Description

& Methodology: A descriptive summary of the data, which describes the relationship to sources, assumptions, limitations, and recommendations for usage.

Quality

Assurance: A description of the quality assurance and traceability associated with the information.

Sources: Bibliographic summary of information sources, including both published and unpublished references.

Technical

Information: Tabular and graphic format reference data and information.



Sandia
National
Laboratories

RIB CHANGE CONTROL

Changes to the RIB are controlled by the Project Change Control Board.

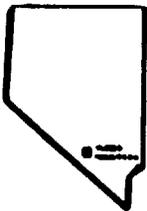
- helps to ensure consistency of data used in Project activities**
- monitors communication feedback between activities.**

Evolutionary growth is essential to RIB development.

- documents advances in Project knowledge and understanding**
- recognizes iterative nature of scientific process**
- responds to modifications to unique licensing process**
- serves as a source of information for use in ongoing activities and as a summary of output generated by activities**

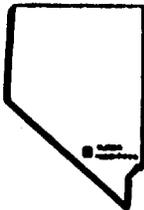
CHANGE PROCESSING

- **Candidate information is established by Project priority or user-specified need.**
- **Participant technical staff are contacted to identify, prepare, and supply input to the RIB.**
- **Review process establishes Project concurrence on adequacy and validity of proposed information.**
- **Proposed changes are submitted for Change Control Board approval and distribution.**

**YUCCA
MOUNTAIN
PROJECT****RIB HISTORY**

RIB 01.001	April, '86	Draft example of typical form and content.
RIB 02.001	May, '87	Change-controlled, expanded draft example; submitted for Project approval; content based on SCP-CDR.
RIB 02.002	August, '87	Draft update set to RIB 02.001, as an example of continuous updating and growth of RIB content.
RIB 03.001	January, '88	Project-approved and baselined version; initial content drawn from draft RIB 02.002, but limited to ESF Title I data needs.
RIB 4	February, '89	Project controlled base version; initial content primarily prepared for ESF Title II start; improved change control and information traceability.





**YUCCA
MOUNTAIN
PROJECT**

PLANNED DEVELOPMENTS

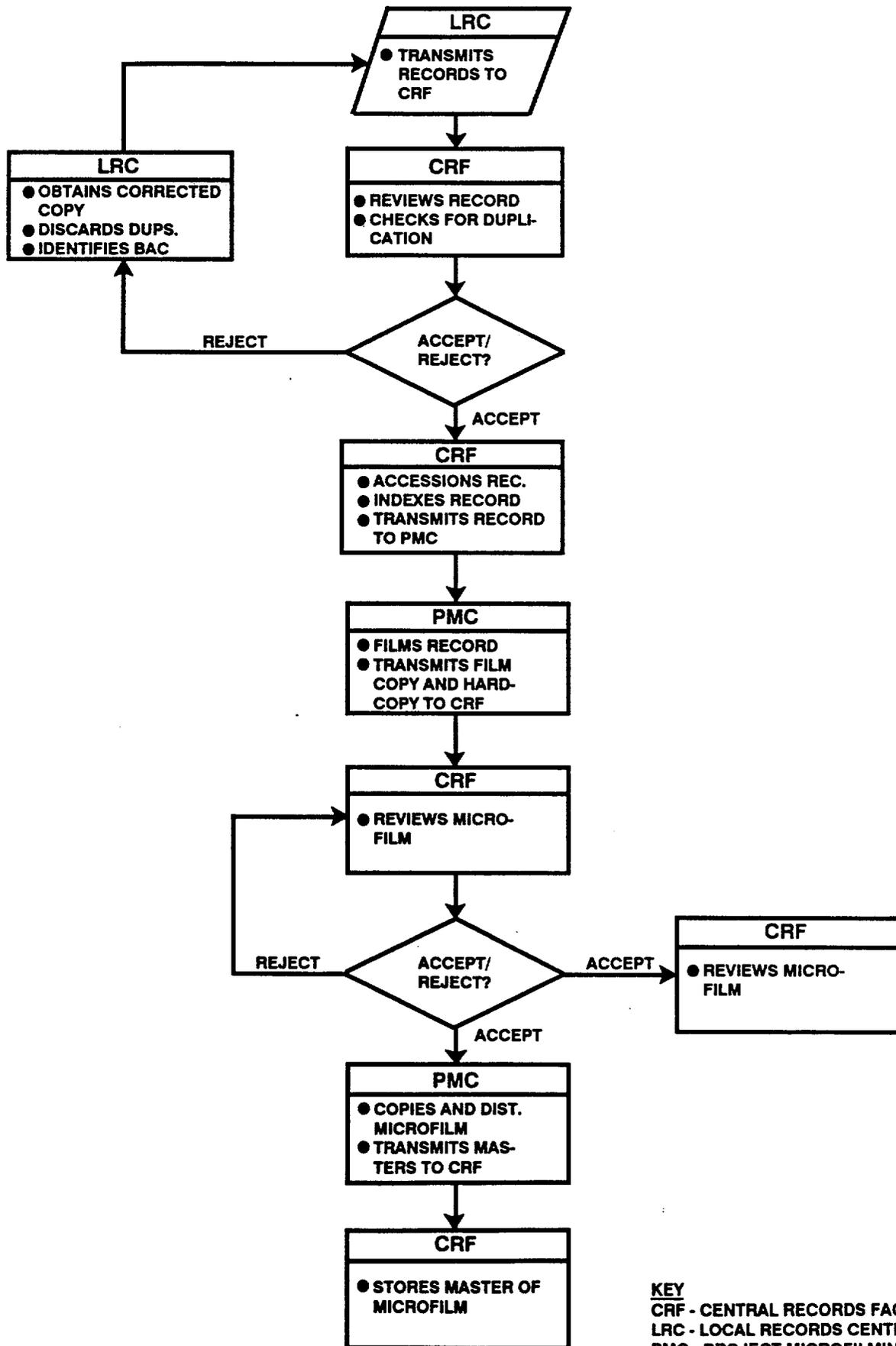
- **Modify development process for improved efficiency.**
- **Prepare more comprehensive base version.**
- **Continue efforts to communicate RIB function.**
- **Improve integration with Project activities.**
- **Enhance participant involvement and support.**



YUCCA MOUNTAIN PROJECT RECORDS MANAGEMENT PROGRAM

- **In existence since 8/15/88**
- **Central Records Facility (CRF)
established 6/88**
- **All participants integrated into
program since 9/89**
 - o **Local Records Centers (LRC)**
 - o **implementing procedures**

RIS PROCESSING



KEY
 CRF - CENTRAL RECORDS FACILITY
 LRC - LOCAL RECORDS CENTER
 PMC - PROJECT MICROFILMING CENTER

CENTRAL RECORDS FACILITY

- **4,200 square feet**
 - o **2,900 in processing area**
 - o **1,200 in file area**
- **Approximately 30 people**
- **Processes an average of 5,500 records per month**
 - o **Receipt inspection/problem resolution with LRCs**

- o Accessioning and indexing into Records Information System (RIS)**
- o Indexing into Automated Technical Data Tracking System (ATDT)**
- o Coordination with Project Microfilming Center**
- o Review of film**
- o Permanent Storage**
- o Project level retrieval**

AVERAGE RECORDS FLOW
(per month since January 1990)

FSN	84.0
H&N	185.7
LANL	269.6
LLNL	237.9
REEC_o	179.5
SAIC	956.5

SNL	350.8
USGS	652.7
YMPO	811.5
Backlog*	1766.3
TOTAL RECEIVED AND PROCESSED BY CRF	5494.5

*** QARMS records prepared for processing
by SAIC**

YMV5::HOWARDC

JOB 257

CDDICREA

Owner UIC: [IMS,HOWARDC]
Account: IMS

Priority: 4
Submit queue: CRAB
Submitted: 21-AUG-1990 13:27
Printer queue: CRAB
Printer node: CRAB
Started: 21-AUG-1990 13:27

Controlled Document Information System
 New Issue Document Transmittal/Acknowledgment Records
 August 21, 1990
 13:24

Document Number	Rev.No	Copy	Document Holder Name
TMSS/061/1	0	1	NELSON J H
TMSS/061/1	0	2	MACNABB W V
TMSS/061/1	0	3	ADKINS H E
TMSS/061/1	0	4	DAER GARY
TMSS/061/1	0	5	MATTHEWS H S
TMSS/061/1	0	6	TREADWELL J S
TMSS/061/1	0	7	WESTON J E
TMSS/061/1	0	8	BORICH M J
TMSS/061/1	0	9	MATTHEWS S C
TMSS/061/1	0	10	SAUNDERS R S
TMSS/061/1	0	12	TOMPKINS A J
TMSS/061/1	0	13	PHILLIPS J S
TMSS/061/1	0	14	BRYANT E P
TMSS/061/1	0	15	YOUNKER J L
TMSS/061/1	0	16	BEALL G K
TMSS/061/1	0	17	TAIT T D
TMSS/061/1	0	18	DUSSMAN M M
TMSS/061/1	0	19	STELLAVATO J N
TMSS/061/1	0	20	BEERS R H
TMSS/061/1	0	21	MUDRA P J
TMSS/061/1	0	22	WADDELL J D
TMSS/061/1	0	23	JORGENSEN D B
TMSS/061/1	0	24	BRUNO R J
TMSS/061/1	0	25	HANS S P
TMSS/061/1	0	26	MCCANN E W
TMSS/061/1	0	27	VOEGELE M D
TMSS/061/1	0	28	SPANGLER E L
TMSS/061/1	0	29	GLORA M A
TMSS/061/1	0	30	DOCKTER R E
TMSS/061/1	0	31	CHANDLER D K
TMSS/061/1	0	32	GOLD STAR LIBRARY/BRYANT E P
TMSS/061/1	0	33	ANDREWS W B
TMSS/061/1	0	34	BLUE J L
TMSS/061/1	0	35	STATLER J K
TMSS/061/1	0	36	STELLAVATO J N
TMSS/061/1	0	37	WOOLFOLK S W
TMSS/061/1	0	38	DOCUMENT CONTROL
TMSS/061/1	0	39	HELMS R G
TMSS/061/1	0	40	FOLEY M I
TMSS/061/1	0	41	HARPER J B
TMSS/061/1	0	44	TEMPLE A L
TMSS/061/1	0	45	GRAY J A
TMSS/061/1	0	47	BELL L E
TMSS/061/1	0	48	HULBERT D I
TMSS/061/1	0	49	BRENNAN K F
TMSS/061/1	0	50	WOLVERTON K M
TMSS/061/1	0	51	DOYLE J R
TMSS/061/1	0	52	GILKERSON K O
TMSS/061/1	0	53	HODGES KRISTI
TMSS/061/1	0	54	JOHNSON K B
TMSS/061/1	0	55	NARRON J R
TMSS/061/1	0	56	NOLAN S P
TMSS/061/1	0	57	TAYLOR C T
TMSS/061/1	0	58	SMITH O D
TMSS/061/1	0	59	PROWELL G H

TMSS/061/1	0	60	ESTELLA J W
TMSS/061/1	0	61	DOCUMENT CONTROL
TMSS/061/1	0	62	NIDY D L
TMSS/061/1	0	63	DOCUMENT CONTROL
TMSS/061/1	0	64	NILSEN D A
TMSS/061/1	0	65	CLARK J E
TMSS/061/1	0	66	CALDWELL H H
TMSS/061/1	0	67	FURBUSH D A
TMSS/061/1	0	68	VOLEK S M
TMSS/061/1	0	69	HORTON D G
TMSS/061/1	0	70	SWEENEY R J
TMSS/061/1	0	71	CONWAY Z J
TMSS/061/1	0	72	LUTHIGER P J
TMSS/061/1	0	73	QA LIBRARY/SCHERR L G
TMSS/061/1	0	74	DOCUMENT CONTROL
TMSS/061/1	0	75	DOCUMENT CONTROL

Data Element Comparison between the LSS prototype and the RIS

<u>LSS Prototype</u>	<u>RIS</u>
1) LSS Accession No	-
2) Title	Title
3) LSS Pointer	Cross Reference No.
4) Submitter's Acc. No	RIS Accession No.
5) Document Type	Document Type Code
6) Detailed Doc. Type	Detail Document Code
7) Document Date	Document Date
8) Doc/Report Number	Doc/Report Number
9) Edition, Version/Revision ...	Version/Revision
10) Author Name	Author Name
11) Author Organization	Author Organization
12) Receiver Name	Receiver Name
13) Receiver Organization	Receiver Organization
14) Sponsoring Agency	Sponsoring Organization
15) Project	Project ID
16) Location	Keywords (location names can be found here)
17) Publication Data	Bibliographic Citation
18) Major Subject	Keywords/Title/Abstract
19) Descriptors	Keywords/Title/Abstract
20) Identifiers	Keywords/Title/Abstract
21) Special Class	Special Class
22) Abstract	Abstract
23) Comment	Comments
24) Document Condition	Document Condition Code
25) QA Level Code	QA Level
26) Media	Media
27) Page Count	Page Count
28) -	Access Control Code
29) -	Contract Number
30) -	WBS Prefix and Number
31) -	Secondary Distribution
32) -	Related Packages
33) -	Source Org. Name
34) -	Receive Date
35) -	Retention Class. Code
36) -	Microfilm/Fiche/Apert. Card Num.
37) -	Drawing Number

Potential Additional Fields for RIS II

- 38) Item Number Item Number
- 39) Reference Number Reference Number
- 40) Related Document Numbers Related Document Numbers

Potential Fields to Eliminate in RIS II

- 5) Document Type Code Document Type Code
- 30) WBS Prefix WBS Prefix (retain number)
- 32) - Related Packages
- 34) - Received Date (internal use only)

TECHNICAL DATA INFORMATION FORM

(check one):

- DATA RESULTING FROM DATA ACQUISITION (complete PARTS I and III)
- DEVELOPED DATA (complete PARTS I and II)
- DATA TRANSFER (complete PARTS I and II)

PART I

Submission Date: _____ WBS Number: _____

Version Number: _____ Is Data Qualified? _____

Preparer: _____
Name Organization

Communal Recording System Data Source: _____

Title/Description of Data: _____

Activity Number: _____ Governing Plan(s): _____

Comments: _____

TECHNICAL DATA INFORMATION FORM
CONTINUATION PAGE

PART II

Source Data Accession Number(s):

Full Package TDIF(s): _____

Partial Package TDIF(s): _____

TDB Submittal Yes No

If Yes, complete the following:

- a. Identify TDB Component: _____
- b. Format of document containing submitted data (e.g., magnet tape, floppy disc, etc.). Attach any remarks regarding special storage format or data organization that might be required. NOTE: A hard copy of the submitted data is required.

- c. Number of attached pages containing data: _____
- d. Identification number(s) or Local Record Center (LRC) code(s) on each submitted document:

e. Is submitted data published? Yes No

Published reference: _____

- f. If submittal includes a modification (addition, correction, etc.) to a previous submittal, indicate reference to previous submittal. Also indicate which data are to be removed or superceded, the data and information as it should be in the TDB, and the reason for the modification (include attachments if necessary).

TECHNICAL DATA INFORMATION FORM
CONTINUATION PAGE

Page 3 of 3 N-AD-065
4/90

g. The attached data were collected for the Yucca Mountain Project and they are hereby authorized for inclusion in the TDB. All appropriate reviews and quality assurance requirements have been met.

TPO Signature/Organization

Date

For TDB Administrator Use:

Data Entered into TDB

Data Submittal Rejected

TDB Product Yes No

If yes, complete the following:

a. TDB Component _____

b. Recipient/Organization _____

Interparticipant Transfer Yes No

If yes, Recipient/Organization _____

PART III

Principal Investigator: _____

Participating Organization Generating Data: _____

Description of Test/Collection Method: _____

Automated Recording Network Source Data: _____

Identification

Number of Test: _____ Sample Number: _____

Collection Location: _____

Period of Data Acquisition: _____

**INSTRUCTIONS FOR PREPARATION OF
TECHNICAL DATA INFORMATION FORM
N-AD-065**

Submission Date: Today's date.

WBS Number: WBS number of technical data described by this form.

Version Number: In case of data package revision or updates, increment the version number.

Is Data Qualified? Was data acquired or developed under a fully qualified QA program or qualified in accordance with appropriate Project procedures? Answer Yes or No as appropriate.

Preparer Name and Organization:

Name of individual providing data for this form and his/her organization.

Communal Recording System Data Source:

If submittal is for data resulting from data acquisition and data were originally recorded by a communal recording system, identify original tape or disc.

Title/Description of Data:

Provide descriptive data in no more than 480 characters.

Activity Number: Provide the Site Characterization Plan Activity Number and governing plan(s) under which this data was produced. (not the TDMP)

Comments: Provide comments (i.e. any constraints, limitations, or assumptions concerning the data) or write "N/A" in the Comments field.

Source Data Accession Number(s):

Provide the CRF Accession Numbers of all technical data (e.g. Source Data) used to produce the data described by this form. If the Source Data is an entire Data Records Package (DRP) submitted previously, then write the accession numbers of the TDIF(s) included in the DRP in the Full Package TDIF(s) field. If the Source Data is a portion of a DRP submitted previously, then write only the accession numbers of the TDIF(s) which pertain to the Source Data in the Partial Package TDIF(s) field.

TDB Submittal: Indicate if the submittal is to the TDB, and if Yes, complete steps "a" through "g."

TDB Product: Indicate if the submittal is a product of the TDB, and if Yes, complete steps "a" and "b."

Interparticipant Transfer:

Indicate if the submittal is a transfer of data between participants, and if Yes, complete step "a."

Principal Investigator:

Person responsible for this activity.

Participating Organization Generating Data:

For example, LANL, SNL, LLNL, etc.

Description of Test/Collection Method:

Briefly describe the overall test/collection approach followed.

Identification Number of Test:

Provide the Identification Number of the test which was performed to produce this data (no more than 26 characters long).

Sample Number: Provide the Sample Identification Number or write "N/A" if not applicable.

Collection Location:

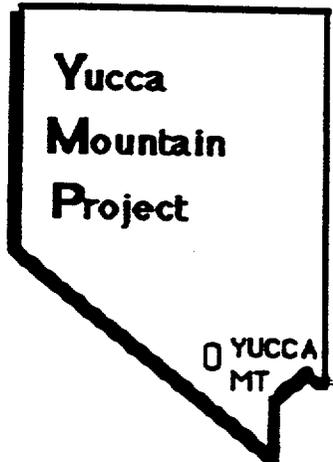
Provide, as appropriate, the bore hole identification number, the latitude/longitude coordinates, etc.

Period of Data Acquisition:

Provide the date (MMDDYY) or range of dates (MMDDYY - MMDDYY format) over which data was acquired.

**OPERATIONS OFFICE
U.S. DEPARTMENT OF ENERGY**

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**Welcome
to the
U.S. Department of Energy
Sample Management Facility
for the
Yucca Mountain Project**

During the next seven years, Yucca Mountain will be evaluated to determine if it is a suitable location for the nation's first repository for permanent disposal of high-level radioactive waste and spent nuclear fuel. Site characterization of Yucca Mountain will require the collection and analysis of thousands of borehole core samples, surface geologic samples, and geologic samples from a mined exploratory shaft.

The Sample Management Facility (SMF) is the state-of-the-art sample management and archiving facility which will process, document, and preserve these Yucca Mountain Project samples. The facility is housed in two renovated warehouses, remodeled at a cost of \$870,000. The SMF contains technical equipment bought at a cost of \$465,000.

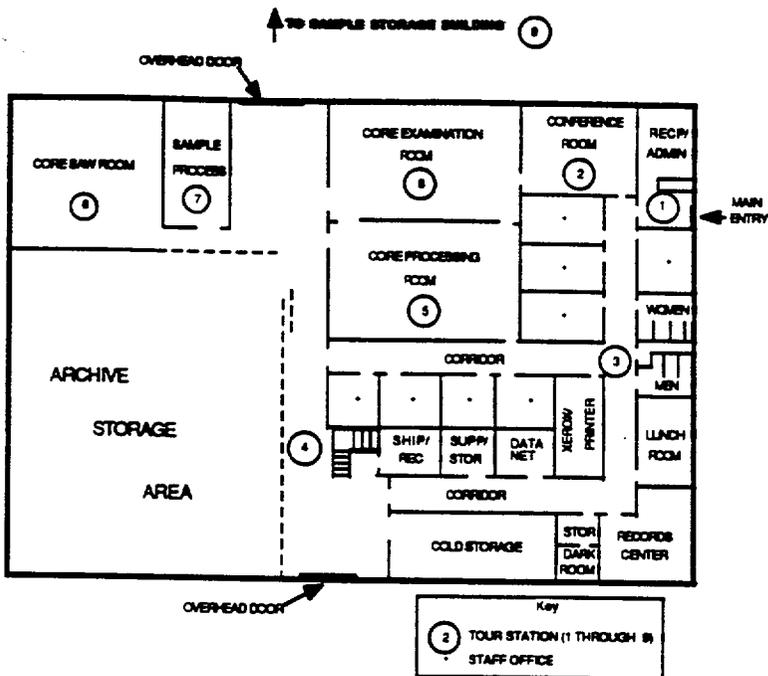
One of the SMF's primary responsibilities is to document the life cycle of a sample from the time it is collected in the field, through transport, processing, analysis, storage, and archiving. To carry out this responsibility, the SMF restricts access to Project samples in a manner that allows for an accurate record of every person who comes into contact with each sample. Access to samples is limited to those individuals who have been authorized by the Project. Visitors are required to register at the reception area prior to admittance to the examination areas.

TECHNICAL & MANAGEMENT SUPPORT SERVICES CONTRACTOR

Science Applications International Corp.
Westinghouse Electric Corp. Harza Engineering Corp.

Sample Management Facility
Yucca Mt. Project
P.O. Box 617
Mercury, NV 89023
(702) 295-6095

Technical & Management Support
Services Contractor
Yucca Mt. Project
101 Convention Center Dr.
Las Vegas, NV 89109
(702)794-7000

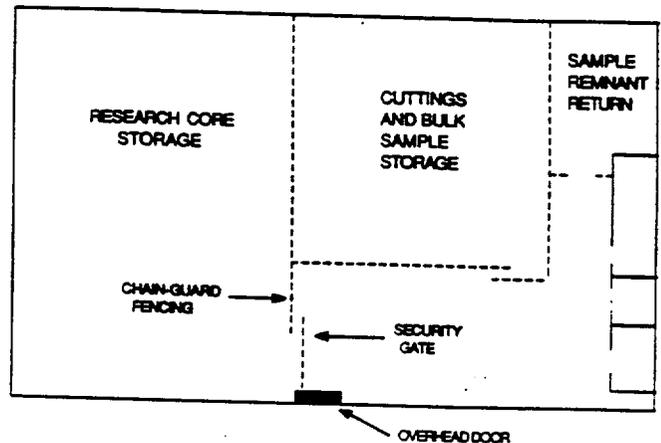


ADMINISTRATION AND PROCESSING BUILDING 4221

14,000 sq. ft. of administrative, processing, storage completely access-controlled storage areas secured w/ locked, chain-guard fencing

SAMPLE STORAGE BUILDING 4320

14,000 sq. ft. of storage equipment: fork lift, stock picker 4 sample storage areas each area secured with locked, chain-guard fencing



STATION 1 - Reception and Administration

- Access
once the SMF is fully operational, all visitors must register with the Receptionist at the front desk; this is to maintain traceability and custody of samples stored at the SMF

STATION 2 - Conference Room

- Brief orientation program
background summary of selection of Yucca Mountain for site characterization
conceptual model of proposed high-level nuclear waste geologic repository
guided tour of the Sample Management Facility

STATION 3 - Administrative and Staff Offices

- Offices
for permanent staff and temporary authorized visitors
- Xerox and Printer Room
computer printer, copiers, FAX machine
- Records
for maintaining complete working set of borehole records

- Lunch Room
- Darkroom
- Supplies and Storage

STATION 4 - Sample Receiving Area

- Shipping and Receiving Office
using portable terminal/scanner, bar codes on field boxes are scanned
links to Yucca Mt. Project VAX computer system in Las Vegas
sample tracking data base: Curatorial Sample Inventory & Tracking System
- Cold Storage Area
for storage of borehole water samples and unsaturated zone core
temperature maintained at 38°F to minimize changes in sample from biological and chemical activity
- Archive Storage Area
capacity: 67,000' of 3 1/2" diameter core)
equipment: pallet jack, stock picker
bar codes on boxes scanned before and after shelving or moving

STATION 5 - Core Processing Room

- **Field Logging and Documentation**

Geologist completes lithologic and structural logging of core and cuttings at the field site as soon as samples are obtained from surface drilling operations and during construction of the exploratory shaft

Logging process includes marking the core with depths and orientation marks and describing the character of the rock, as well as structural features, such as fractures

- **Verification**

Ensures that any discrepancies incurred during field logging are found and reconciled before becoming part of the permanent sample record

Verification checklists used to ensure that: samples have been accurately marked structural features have been adequately noted lithologic changes in rock are noted and have been adequately described

STATION 6 - Core Saw Room

- **Slabbing Equipment**

saws - cut up to 96 ft./hr.
dust collection system
packaging supplies
electronic scale

- **Core Slabbing**

duplication of core markings on opposite side of core
sawing of core into two longitudinal splits:
2/3 research split - primary source of specimen materials
1/3 archival split - for permanent storage

- **Photography**

1/3 archival split photographed by Nevada Test Site Contractor

- **Packaging**

splits packaged in separate boxes
new bar codes assigned

STATION 7 - Sample Processing Room

- **Cuttings Washing and Processing**

capable of washing and drying 40-60 samples/hr.
equipment: Wemas washer/dryer, riffle-type sample splitter, scale
processing: samples split into research and archival portions and labeled

- **Specimen Removal**

trim saw used to remove rectangular specimens from core sent to laboratories for testing and analysis

STATION 8 - Core Examination Room

- **Final Processed Sample**

research split for testing and analysis
archival split for permanent storage

- **Sample Examination by Authorized Visitors**

Purposes:

nondestructive examination of samples
sample logging
selection of specimens

Facilities:

sliding work tables with lighting system
(under construction)
binocular microscopes

STATION 9 - Sample Storage Building 4320

- **Research core** - capacity: 163,000' of 3 1/2" diameter core); for subsampling

- **Cuttings and Bulk Samples** - for all cuttings and bulk samples

- **Remnants** - for remnants of specimens returned to the SMF by researchers

- **Aggregate Sampling Bins** - for muck from construction of the exploratory shaft
14 bins, each bin 10' X 20' (to be constructed)
researchers able to select samples from each blasting round
portion of each round then stored in 55 gal. drums in yard

For more information on the repository program, write or call:

Office of Civilian Radioactive
Waste Management
U.S. Department of Energy
Mail Stop RW-43
Washington, D.C. 20585
(202)586-5772

Office of External Affairs
U.S. Department of Energy
Nevada Operations Office
P.O. Box 98518
Las Vegas, NV 89193-8518
(702) 295-3521

U.S. DEPARTMENT OF ENERGY

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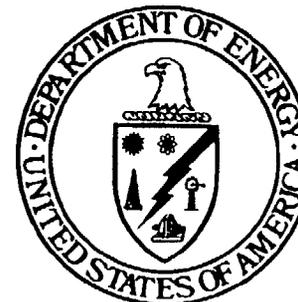


YUCCA MOUNTAIN PROJECT

SAMPLE OVERVIEW COMMITTEE

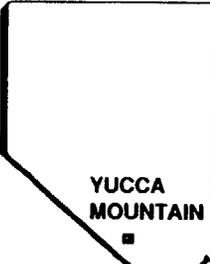
PRESENTED BY
UEL S. CLANTON

AUGUST 23 & 24, 1990



U.S. DEPARTMENT OF ENERGY

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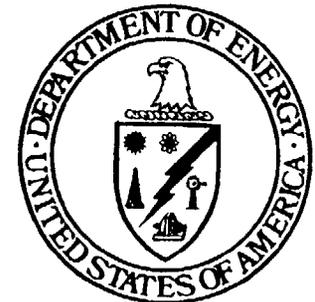


YUCCA MOUNTAIN PROJECT

SAMPLE OVERVIEW COMMITTEE

PRESENTED BY
UEL S. CLANTON

AUGUST 23 & 24, 1990



SAMPLE OVERVIEW COMMITTEE RESPONSIBILITIES

SOC MEMBERS

- REPRESENTS THEIR ORGANIZATIONS' SPECIMEN NEEDS AND REQUESTS**
- INTEGRATE CURRENT AND FUTURE PROJECT NEEDS**
- RECOMMENDING RESOLUTION OF CONFLICTING REQUESTS**
- RECOMMEND A COURSE OF ACTION TO THE RSED DIRECTOR**

SOC CHAIRMAN

- SAME AS ABOVE BUT FOR "OUTSIDE" ORGANIZATIONS (e.g., THE U.S. NUCLEAR REGULATORY COMMISSION, STATE OF NEVADA, etc.)**

SAMPLE OVERVIEW COMMITTEE

ESTABLISHED TO EVALUATE REQUESTS FOR SPECIMENS WITH RESPECT TO CURRENT AND FUTURE PROJECT SPECIMEN PLANS AND NEEDS, AND TO ENSURE PRESERVATION OF REPRESENTATIVE SAMPLES DEEMED APPROPRIATE.

SAMPLES INCLUDE CORE, CUTTINGS, FLUIDS AND ANY OTHER GEOLOGIC SAMPLES COLLECTED AT YUCCA MOUNTAIN OR RELATED FIELD SITES

SAMPLE OVERVIEW COMMITTEE

AP-6.4Q

PROJECT LEVEL ORGANIZATION COMPOSED OF:

- PROJECT OFFICE/CHIEF, SITE INVESTIGATION BRANCH - CHAIRMAN**
- LOS ALAMOS NATIONAL LABORATORY - VOTING MEMBER**
- LAWRENCE LIVERMORE NATIONAL LABORATORY - VOTING MEMBER**
- T&MSS CONTRACTOR (SAIC, HARZA, WESTINGHOUSE) - VOTING MEMBER**
- SANDIA NATIONAL LABORATORY - VOTING MEMBER**
- U.S. GEOLOGICAL SURVEY - VOTING MEMBER**
- SAMPLE MANAGEMENT FACILITY CENTER - NONVOTING MEMBER**
- PROJECT OFFICE QUALITY ASSURANCE - NONVOTING MEMBER**