



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

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'86 OCT 23 AIO:21

TO: Avi Bender, Policy and Program Control Branch (WMPC)
FROM: Paul T. Prestholt, Sr. On-Site Licensing Representative
DATE: October 20, 1986
SUBJECT: Technical Database Status (2); Data Management; Flow of
Technical Information for the NNWSI Project.

Please find enclosed the above-referenced information
for your use.

PTP:nan

WM Record File 102 WM Project 11
Docket No. _____
PDR
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Distribution:
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TECHNICAL DATABASE STATUS

- ORGANIZING DATA AND RECORDS INTO CENTRAL LOCATION(S)
 - INTERACTION WITH RECORDS CENTER
 - INTERACTION WITH IMS

- ORGANIZING PARTICIPANTS TO PROVIDE FOR DATA FLOW INTO DATABASE
 - WMPO WORKING GROUP
 - SEIG INTERACTION
 - PROCEDURE DEVELOPMENT

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TECHNICAL DATABASE STATUS (continued)

- ESTABLISHING AND IMPLEMENTING REFERENCE INFORMATION BASE
 - INITIAL DRAFT
(COMMENTS)
 - SEIG INTERACTION
 - MAKING A PART OF PRODUCTS
(DESIGN, PA, CHARACTERIZATION)

- REPORTING PROGRESS ON ABOVE
 - PARTICIPANT MONTHLY REPORT
 - SUMMARY

APPENDIX A

TECHNICAL DATA BASE

A. CANDIDATE INFORMATION FOR SITE AND ENGINEERING PROPERTIES DATA BASE

1. "Fluid Flow in a Fractured Rock-Mass (SAND85-0855) by E. A. Klavetter and R. R. Peters.

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B. DATA FORMALLY SUBMITTED TO THE SITE AND ENGINEERING PROPERTIES DATA BASE

1. "Rock-Mass Classification of Candidate Repository Units at Yucca Mountain" (SAND82-2034) by B. S. Langkopf and P. R. Gnirk.

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TECHNICAL DATA BASE

- o RESPONSE TO ACTION ITEM FROM JULY TPO MEETING
 - TEAM FORMED TO DEVELOP PROCEDURE TO IMPLEMENT SNL PROPOSED PROJECT TECHNICAL DATA BASE MANAGEMENT SYSTEM
- o AT AUGUST TPO MEETING (9/4/86), TPO'S AGREED TO APPOINT REPRESENTATIVES TO THE TDB MANAGEMENT SYSTEM PLANNING MEETING
- o ON SEPTEMBER 30, 1986, PLANNING MEETING WAS HELD AT SAIC
- o ALL PARTICIPANTS, EXCEPT F&S, WERE REPRESENTED

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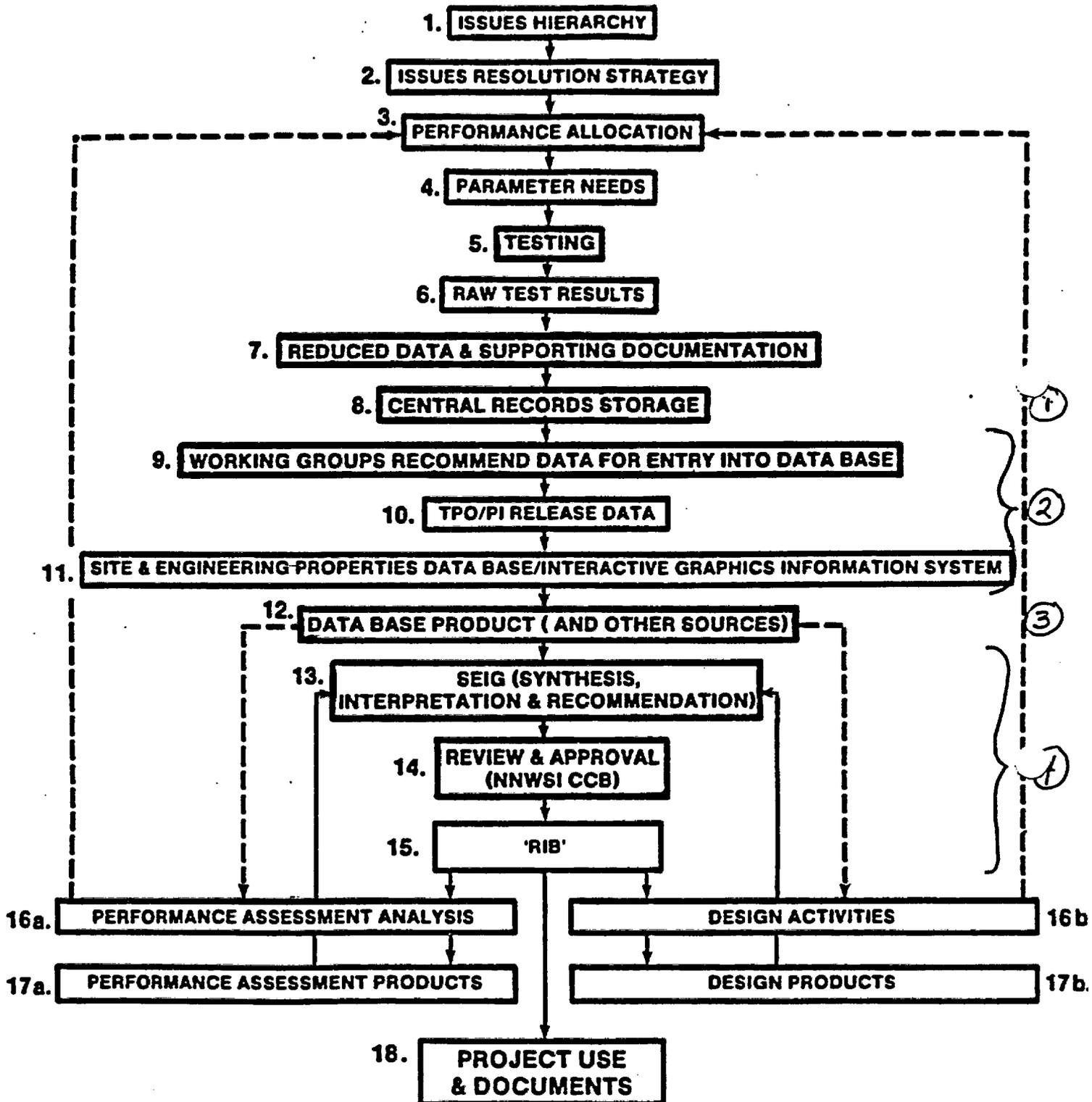
TECHNICAL DATA BASE

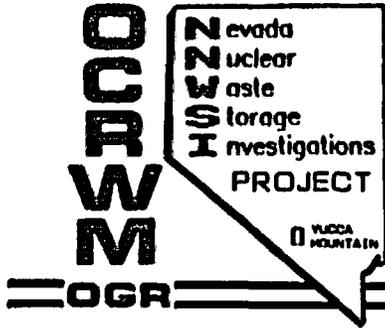
RESULTS OF TECHNICAL DATA BASE PLANNING MEETING

- DEFINED THE NEEDED PROJECT LEVEL REQUIREMENTS PROCEDURES
- DEFINED THE PARTICIPANTS' IMPLEMENTING PROCEDURE SCOPES
- IDENTIFIED MAJOR ISSUES/CONCERNS
- ESTIMATED THE RESOURCES NECESSARY TO PREPARE PROCEDURES AND IMPLEMENT THE SYSTEM
- FORMULATED RECOMMENDATIONS

DMD 10/2/86

SNL TECHNICAL DATA BASE DATA CYCLE





TECHNICAL DATA BASE

PROJECT LEVEL (WMPO) REQUIREMENTS

PROCEDURES NEEDED TO DEFINE TECHNICAL DATA BASE SYSTEM

- 1) REQUIREMENT FOR LOCAL DATA RECORDS STORAGE
- 2) REQUIREMENTS FOR SCREENING AND IDENTIFICATION OF DATA FOR ENTRY INTO TECHNICAL DATA BASE
- 3) REQUIREMENTS FOR CONTROL OF TECHNICAL DATA BASE PRODUCTS
- 4) REQUIREMENTS FOR THE REFERENCE INFORMATION BASE

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PARTICIPANTS PROCEDURE SCOPES

- 1) LOCAL DATA RECORDS STORAGE FACILITY OPERATION
 - DATA TURNOVER FROM PRINCIPAL INVESTIGATORS
 - INDEXING AND STORAGE OF DATA
 - CONTROL OF DATA
 - INTERACTION WITH QARMS
 - RELEASE OF DATA TO NRC/COMPLIANCE WITH AGREEMENTS

- 2) DATA SCREENING BY DISCIPLINE-ORIENTED WORKING GROUPS
 - CRITERIA FOR DATA SELECTION FOR TDB
 - INTERACTION WITH DBA
 - REVIEW/APPROVAL BY TPO

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MAJOR ISSUES

o RELEASE OF DATA

- COMPLIANCE WITH DOE/NRC PROCEDURAL AGREEMENT

- o DATA CATALOG-TIMING
- o RESPONSE TO DATA REQUEST-TIMING
- o DETAIL LEVEL OF TEST SCHEDULE

- RELEASE OF DATA TO PROJECT PARTICIPANTS FOR PROJECT USES

- o PROFESSIONAL ENHANCEMENT vs. PROJECT NEEDS

- STATE/PUBLIC ACCESS TO DATA

o PRINCIPAL INVESTIGATOR/DATA BASE ADMINISTRATOR COMMUNICATION

- PI'S NEED TO COMMUNICATE NEEDS TO DATA BASE ADMINISTRATOR (AND VICE VERSA) TO FACILITATE TRANSFERS OF DATA TO TDB

- o FORMAT
- o DEGREE OF DATA REDUCTION

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MAJOR ISSUES (CONT)

- o NECESSITY TO INCLUDE "ENVIRONMENTAL DATA" IN THE PROJECT SYSTEM
 - ENVIRONMENTAL
 - RADIOLOGICAL
 - SOCIOECONOMIC
 - ENVIRONMENTAL

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ESTIMATED RESOURCES

- o PREPARATION PROJECT LEVEL REQUIREMENTS PROCEDURES

FOUR MAJOR PROCEDURES AT 2 MAN-WEEKS EACH

8 MAN WEEKS

- o PREPARATION PARTICIPANTS IMPLEMENTING PROCEDURES

APPROXIMATELY 35 PROCEDURES AT ONE MAN-WEEK EACH

35 MAN WEEKS

ABOUT 40-50 MAN WEEKS

- o IMPLEMENTATION OF PROCEDURES AT PARTICIPANTS LOCATIONS

15-30 FTE's

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TECHNICAL DATA BASE

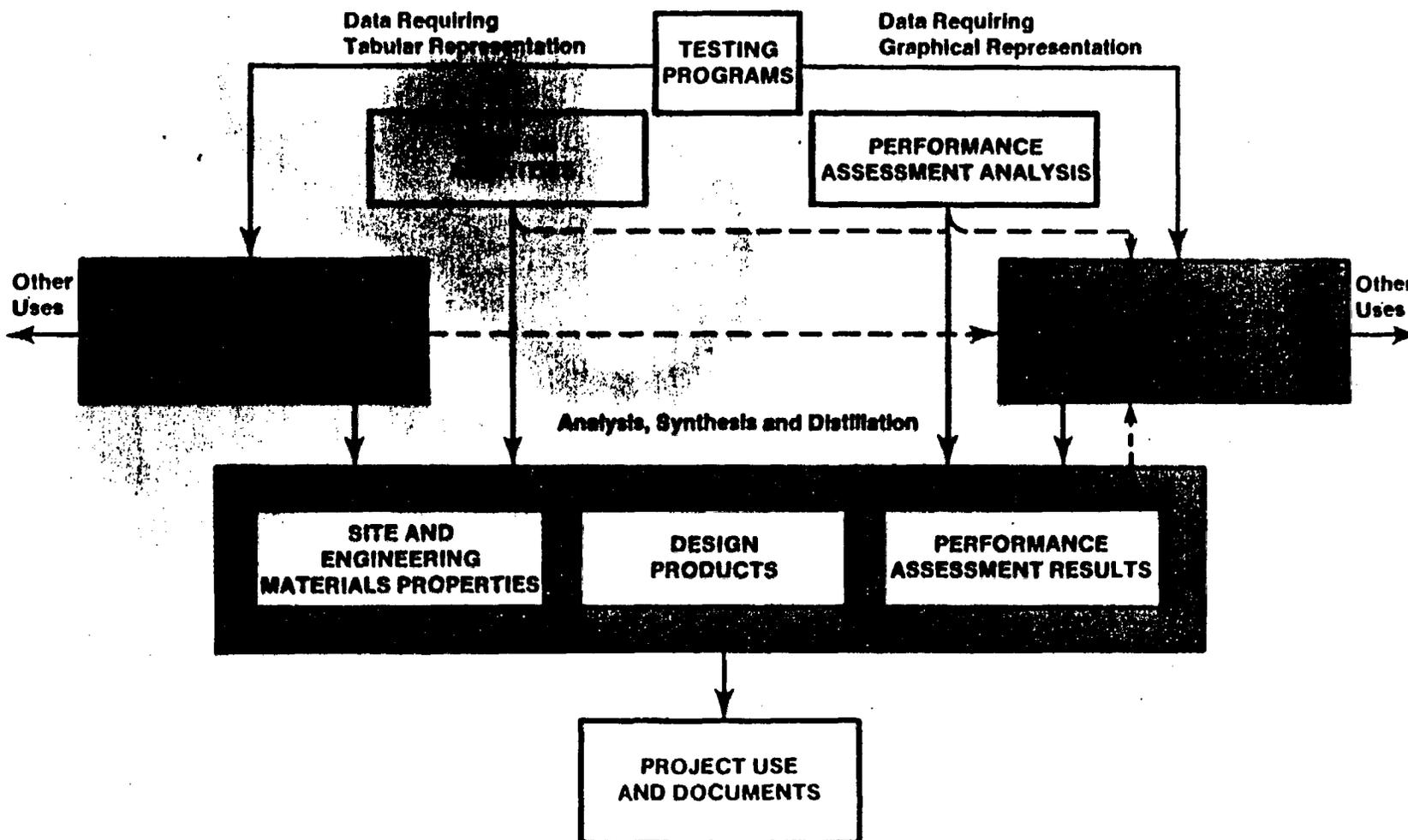
APPROACH/RECOMMENDATIONS

- o PREPARE PROJECT LEVEL REQUIREMENTS PROCEDURES BY 1/15/87
 - o PARTICIPANTS REVIEW, CONCUR BY 2/15/87
 - o PARTICIPANTS DEVELOP COST, SCHEDULE TO PREPARE IMPLEMENTING PROCEDURES BY 3/15/87
 - o SNL CONTINUE TO PREPARE TECHNICAL DATA BASE GENERAL REQUIREMENTS (NO ADDITIONAL RESOURCES) *
 - o SNL CONTINUE TO DESIGN/INSTALL TDB SYSTEM (NO ADDITIONAL RESOURCES) *
 - o PRESENT PARTICIPANTS COST/SCHEDULE ESTIMATES TO TPO's MARCH TPO
 - o APPROVAL TO PROCEED 4/15/87
 - o PARTICIPANTS PREPARE/OBTAIN WMPO APPROVAL OF PROCEDURES BY 9/1/87
-
- o SNL COMPLETE TDB SPECIFIC REQUIREMENTS - DATA BASE PLAN (BASED ON CHAPTER 8.3, SCP) BY 1/1/87
 - o SYSTEM IMPLEMENTATION (VAX 7500, VAX 8200, INGRESS) BY 1/1/87

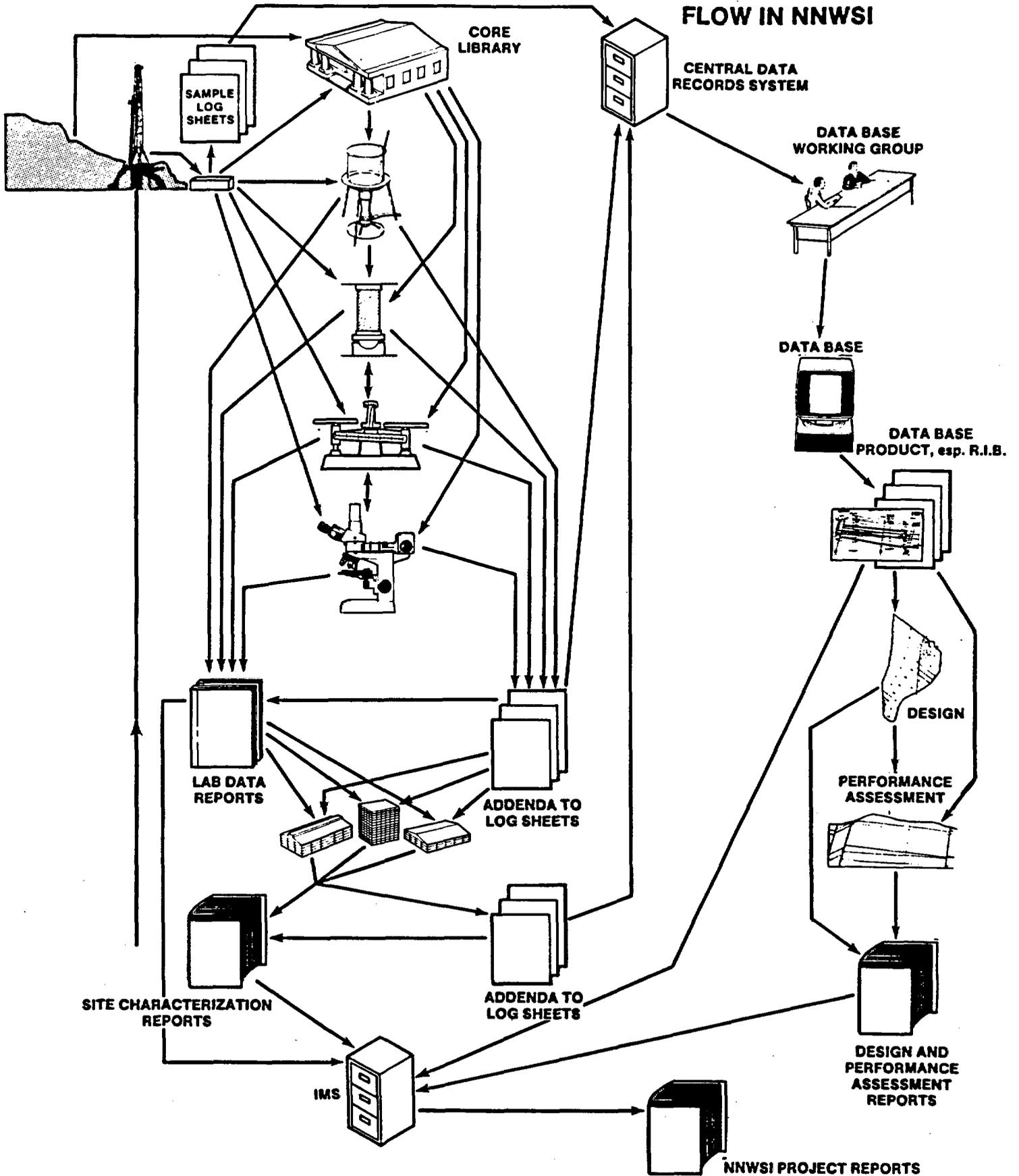
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FLOW OF TECHNICAL INFORMATION FOR THE NNWSI PROJECT



PROPOSED TECHNICAL INFORMATION FLOW IN NNWSI



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DATA MANAGEMENT

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ACTION ITEM--DON LIVINGSTON, WMPO

COORDINATING GROUP

LIVINGSTON, WMPO
HATCH, WMPO
LEVICH, WMPO
ROBSON, WMPO

PARTICIPANT REPS
TINSLEY, SAIC
DAWSON, SAIC
DOKUZOKUZ, SAIC

ZEUSCH(DBA), SNL

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DATA MANAGEMENT

PURPOSE

TO IMPLEMENT THE DATA TRANSFER AND MANAGEMENT SYSTEM
PROPOSED BY SNL AT THE AUGUST 8 TPO MEETING.

APPENDIX A

To be appendix to Monthly Report

TECHNICAL DATA BASE

A. CANDIDATE INFORMATION FOR SITE AND ENGINEERING PROPERTIES DATA BASE

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- 2.
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- 4.

TECHNICAL DATA BASE

Candidate Information for the Reference Information Base

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DATA RECORD MANAGEMENT SYSTEM

A. Data Submitted

- 1.
- 2.
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- 4.
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B. Data Formally Entered

- 1.
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STATUS

IDENTIFYING NEEDED PROCEDURES AT BOTH PROJECT-WMPO-AND PARTICIPANT LEVELS, AS WELL AS DATA BASE ADMINISTRATOR

- INTERFACE WITH TPOs AND DBA TO ACCOMPLISH
- WORK WITH PARTICIPANT REPRESENTATIVES TO DEVELOP PLAN

SCHEDULE

- TPO IDENTIFY PARTICIPANT REPS--9/3
- COORDINATING GROUP MEET TO DEVELOP IMPLEMENTATION PLAN--9/15
- PARTICIPANTS/WMPO PREPARED PROCEDURES-- BEGIN 9/22
- REVIEW OF PROCEDURES--TBD
- IMPLEMENT SYSTEM--TBD