



MS 62355

Department of Energy

Richland Operations Office
P.O. Box 550
Richland, Washington 99352

From: R. Cook
NRC

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JUN 18 1986
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General Manager
Rockwell Hanford Operations
Richland, Washington

WM Record File

WM Project

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Docket No.

PDR

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Dear Sir:

Distribution:

REQUIREMENTS FOR PROJECT DOCUMENTATION

Hildenbrand Linehan CFR

(Return to WM, 623-SS)

This letter defines the major features of a number of documents needed by the Basalt Waste Isolation Division (BWID) to coordinate technical planning and facilitate discussion and review. This letter describes a system of documents in which the strategy of testing and closure is parsed between the Site Characterization Plan (SCP), Study Plans, and position papers written for the Licensing Strategy Document/File. The SCP Chapter 8 will contain the umbrella strategy and critical data elements required by the strategy. The Study Plans will contain detail for that strategy for a one year program along with proper reference to the full term strategy for a specific discipline or test location. Supporting information will occur in position papers. BWID requests Rockwell to plan and implement the development of the documents immediately. As described below, the first installment of Study Plan documents will be required when the Site Characterization Plan is released.

STUDY PLANS:

Documents called Study Plans will be developed that provide supplemental detail to the SCP. They fully discuss studies, tests and analyses. These documents will be referenced by the SCP. The Licensing Strategy/File will be referenced for the high level rationale, and the implementing documentation will be comprised of the individual test plans/specifications and procedural documents. A proposed outline of a Study Plan is attached.

Study Plans will be organized primarily by discipline. However, a limited number of Study Plans will also be produced which are organized by facility, i.e., Exploratory Shaft and possibly Laboratory facility documents may be required. Study Plans for facilities are subservient to plans for the disciplines and are to provide only non-redundant material to the discipline-oriented Study Plans, such as space requirements and schedule. A purpose of the facility-oriented Study Plans is to demonstrate that testing in a given facility will not interfere with other testing in the same facility.

The required Study Plans will be produced in installments. The first installments referenced in and due with the release of the SCP, must describe both ongoing and proposed testing that will be initiated in the 12 months after release of the SCP. Additional installments or revisions will be on a six month basis and will describe both refinements to past planning and extend the planning horizon an additional six months. Planning will always remain at a one year horizon.

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Individual test plans/specifications and procedures will be referenced in the Study Plans. The installments to the Study Plans will be referenced in the six month Progress Reports to the SCP as will results or planned results documents.

TEST PLANS/SPECIFICATIONS AND PROCEDURES:

These documents described the individual tests. The Test Specification is an engineering document providing sufficient detail to control the test procedure and the test facility. The Test Procedure provides the step-by-step procedures required to provide specifics to the performing technician and the inspector. These documents must be released 60 days prior to their use in order to allow for external review. All management procedures must be in place prior to the start of testing. Both of these documents are referenced as to their need in the study plan.

LICENSING STRATEGY DOCUMENT/FILE (LSD):

A LSD will be produced and maintained that minimally contains the Licensing Strategy and Needs Forms and Project technical position papers that bear on major features of the strategies. Changes to the top level strategies and sub strategies also will be described in the six month Progress Reports on the SCP and recorded in the LSD. At strategic times in the course of the project these strategies will be refined. The LSD consists of controlled documents which are maintained current with project plans and activities. The LSD will contain the file of forms and supporting position papers on which the strategies are based.

DATA SPECIFICATIONS DOCUMENT (DSD):

The DSD will contain a list of all the data required to implement the Licensing and Information Needs Strategies. For each data element, the DSD will provide the following:

- Enabling strategy or sub strategy
- Responsible strategist or group
- Organizational element of Rockwell collecting the data
- Required data accuracy, precision, place of data collection, environmental or scheduling constraints
- Test duration
- Other unique features related to how the data will be collected

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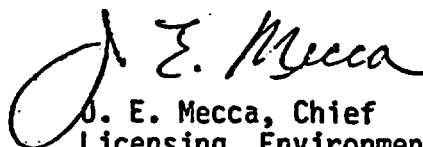
The preceding description of contents and interrelationships is not intended to be final or all encompassing. It is intended to provide immediate direction as to project requirements. Please plan for a meeting on June 23 with D. H. Dahlem, J. E. Mecca and E. H. Petrie to discuss your plans for the development of the above documents. The agenda will include a discussion of any potential problems or conflicts foreseen by Rockwell in implementing this guidance. At this time Rockwell should be prepared to name the Study Plans needed, present a schedule for developing the details of these documents, identifying the need for any other implementing documentation and modifying the Document Hierarchy if necessary. The completion of the first installment of the Study Plans by December 1986 to coincide with the SCP release must be the target goal. Please provide change pages to the PMP and SEMP as appropriate to include the above named documents.

If you have any questions please contact A. J. Knepp (376-4934).

Sincerely,



D. H. Dahlem, Chief
Geoscience and Technology Branch
Basalt Waste Isolation Division



J. E. Mecca, Chief
Licensing, Environmental,
and Safety Branch
Basalt Waste Isolation Division

BWI:AJK

Attachment

cc w/encl:
D. C. Gibbs, Rockwell

CONTENT REQUIREMENTS

SCP SECTION 2.3

I. PURPOSE AND OBJECTIVES OF INVESTIGATIONS

II. RATIONALE FOR SELECTED INVESTIGATION

- RATIONALE AND TECHNICAL BASIS FOR INVESTIGATION CONDUCT
- CONSTRAINTS FOR INVESTIGATION
 - HOW CONSTRAINTS AFFECT STUDY SELECTION
- STRATEGY FOR RESOLVING TECHNICAL ISSUES*

III. DESCRIPTION OF STUDIES

- OBJECTIVES OF STUDY
- LIST TESTS, TEST METHODS, DATA/PARAMETERS TO BE COLLECTED, LOCATION AND NUMBERS OF TESTS, TECHNICAL PROCEDURES, REFERENCE STUDY PLANS
- INDICATE IF TEST IS TO SUPPORT CONCEPTUAL MODEL DEVELOPMENT
- LIST METHODS OF ANALYSIS AND RESULTING INFORMATION
- INDICATE IF STUDY BEING CONDUCTED TO GUIDE SITE CHARACTERIZATION, PERFORMANCE ASSESSMENT, OR DESIGN

IV. APPLICATION OF RESULTS

- DISCUS WHERE RESULTS FROM INVESTIGATION/STUDY USED
- REFER TO SPECIFIC PERFORMANCE ASSESSMENT STUDIES USING INFORMATION
- REFER TO USE OF INFORMATION IN DESIGN AND DEVELOPMENT
- REFER TO USE OF INFORMATION IN PLANNING CHARACTERIZATION ACTIVITIES

V. SCHEDULE AND MILESTONES

- LIST MAJOR MILESTONES IN TABULAR FORM
- PRESENT SCHEDULE FOR STUDIES SUPPORTING INVESTIGATION
 - BEGINNING AND END DATES FOR TESTS AND ANALYSES
- INTERRELATIONSHIP AND SEQUENCING OF (GROUPS OF) TESTS AND ANALYSES - PERT CHART

STUDY PLANS

I. PURPOSE AND OBJECTIVES OF STUDIES

II. RATIONALE FOR SELECTED STUDY

- RATIONALE AND JUSTIFICATION FOR SELECTED TESTS AND ANALYSES
- CONSTRAINTS FOR STUDY
 - LOW CONSTRAINTS AFFECT TEST METHODS AND ANALYTICAL APPROACH
 - LISTING OF 6 SPECIFIC FACTORS TO BE CONSIDERED
 1. POTENTIAL SITE IMPACTS
 2. NEED FOR SIMULATION OF REPOSITORY CONDITIONS
 3. REQUIRED ACCURACY AND PRECISION*
 4. LIMITS OF ANALYTICAL METHODS USING INFORMATION
 5. CAPABILITY OF ANALYTICAL METHODS TO SUPPORT STUDY
 6. TIME REQUIRED VS. TIME AVAILABLE

III. DESCRIPTION OF TESTS AND ANALYSES (DESCRIBE AND DISCUSS FULLY)

- GENERAL APPROACH TO TEST
- SUMMARIZE TEST METHODS
 - REFERENCE STANDARD PROCEDURES
 - INDICATE NECESSARY MODIFICATION AND SCHEDULE FOR DEVELOPING ADDITIONAL PROCEDURES
 - APPLICABLE QA REQUIREMENTS APPLIED TO SPECIFIC TEST
- TOLERANCY, ACCURACY, AND PRECISION REQUIRED
- RANGE OF EXPECTED RESULTS AND BASIS; ESP. RELATION OF TEST TO SET PERFORMANCE GOALS AND CONFIDENCE LEVELS
- LIST OF EQUIPMENT
- TECHNIQUES FOR DATA REDUCTION AND ANALYSIS
- REPRESENTATIVES OF TEST INCLUDING UNCERTAINTIES
- ILLUSTRATIONS OF TEST LOCATIONS

IV. APPLICATION OF RESULTS

- DISCUS WHERE RESULTS FROM INVESTIGATION/STUDY USED
 - REFER TO SPECIFIC PERFORMANCE ASSESSMENT STUDIES USING INFORMATION
 - REFER TO USE OF INFORMATION IN DESIGN AND DEVELOPMENT
 - REFER TO USE OF INFORMATION IN PLANNING CHARACTERIZATION ACTIVITIES
- #### V. SCHEDULE AND MILESTONES
- PROVIDE DURATION AND INTER-RELATIONSHIPS AMONG PRINCIPAL ACTIVITIES ASSOCIATED WITH STUDY
 - DESCRIBE TIMING OF PARTICULAR STUDY RELATIVE TO OTHER STUDIES AND PROGRAM ACTIVITIES AFFECTING STUDY COMPLETION
 - DATES FOR ACTIVITIES, INCLUDING DURATIONS AND INTER-RELATIONSHIPS

*DISCUSSION CORRELATED WITH INFORMATION NEEDS
DISCUSSION OF UNIFORM ISSUE RESOLUTION STRATEGY PRESENTED IN 2.2