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109

SC/84/12/27/1/RS

JAN 04 1985

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MEMORANDUM FOR:

Malcolm R. Knapp, Chief
Geotechnical Branch, DWM

Lake Barrett, Chief
Engineering Branch, DWM

FROM:

Hubert J. Miller, Chief
Repository Projects Branch, DWM

SUBJECT:

PRE-SCP RESOLUTION OF ISSUES WITH DOE

Distribution

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Present schedules indicate that the Department of Energy will submit the first of three Site Characterization Plans (SCPs) for potential repository sites to the NRC for review beginning in the first quarter of fiscal 1986. These SCPs will be reviewed and a Site Characterization Analysis (SCA) will be issued upon completion of each review. While a relatively fast response to the SCs, i.e. the SCAs, is planned there is a need to resolve certain items in advance of DOE's issuance of the SCs. Those items pertain to site characterization activities that require long lead time commitments by DOE such as locations, method of construction and sealing of exploratory shafts, exploratory shaft test plans, drilling of holes for hydrogeologic testing and others. Failure to resolve such items prior to DOE's making contractual and other commitments could result in delays of the DOE program that would be contrary to PPG. Also there will be issues raised by the NRC staff during the EA reviews that will need to be resolved prior to site recommendation. We will need to work with DOE as they attempt to resolve these issues.

The Repository Projects Branch (with Marc Rhodes as the lead) is attempting to identify critical path items and get in place a program to resolve them with DOE prior to submittal of the SCs. We believe that this could best be accomplished with the assistance of a task force which would include one member each from the Engineering and Geotechnical Branches in addition to the RP PMs. Because of the press of DOE's schedules it is important that we initiate interaction with DOE as soon as possible following EA review and establish a schedule for these interactions before that time. To do this, we need to initiate discussion with DOE this month.

Attached is a "strawman" identification of items and timing for their resolution. A final version is to be attached to a letter to W. Purcell (DOE) to be sent Friday, January 11. Please identify task force members so that Marc can discuss the "strawman" with them by next Wednesday. Your assistance in this matter is greatly appreciated.

WM Record File 109
WM Project 1
Docket No. _____
PDR _____
LPDR _____

ORIGINAL SIGNED BY

Hubert J. Miller, Chief
Repository Projects Branch
Division of Waste Management

Distribution: _____

CC: WMRP PM's
(Return to WM 623 SS)

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PDR WASTE
WM-1 PDR

OFC	: WMRP	: WMRP	: WMRP	:	:	:	:
NAME	: MRhodes	: SCoplan	: HJMiller	:	:	:	:
DATE	: 1/4/85	: 1/4/85	: 1/4/85	:	:	:	:

ITEMS FOR RESOLUTION PRIOR TO SCP RECEIPT

<u>Item</u>	<u>Timing For Resolution</u>		
	<u>BWIP</u>	<u>NNWSI</u>	<u>SRP</u>
1. Shaft:	6 mo. prior to ES construction	6 mo. prior to ES construction	12 mo. prior to ES construction
a. Location	or 3 months prior to SCP submittal, whichever comes first		
b. Method of construction			
c. Sealing methods			
1. short term			
2. long term			
d. Exploratory Shaft Test Plan			
e. Impact on other site characterization activities			
2. Conceptual design information included in SCP	3 months prior to SCP submittal		
1. What specific kinds of information need to be included to adequately assess SCP			
3. Hydrology Testing	2 months prior to site recommendation		
1. Number and placement of hydrology testing wells			
2. choice of drilling fluid for hydrology testing wells			
3. suite of tests to be performed			
4. Geology	2 months prior to site recommendation		
A. Number and placement of cored wells and/or intervals			
B. geophysics			

<u>Item</u>	<u>Timing For Resolution</u>		
	<u>BWIP</u>	<u>NNWSI</u>	<u>SRP</u>
5. Geochemistry 1. Number and location of rock and water chemistry samples	2 months prior to site recommendation		
6. Waste Package 1. Integration into overall disposal system i.e., transportation, MRS, repository, etc. (constraints on waste package/form design) 2. Uniform vs localized corrosion (test program)	Within next 12 months (?)		
7. Issues raised by NRC during EA Reviews	2 months prior to site recommendation		
8. Format and Content Guide for SCPs	February 1985		