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MEMORANDUM FOR: R. L. Ballard, Chief

Technical Review Branch

Division of High-Level Waste Management

FROM:

D. L. Chery, Section Leader

Hydrology Section Technical Review Branch

Division of High-Level Waste Management

SUBJECT:

SCOPE OF HYDROLOGY SECTION YUCCA MOUNTAIN CONSULTATIVE DRAFT

SITE CHARACTERIZATION PLAN REVIEW

In February 1988, the Hydrology Section completed a level of effort review of the Yucca Mountain Consultative Draft Site Characterization Plan (CDSCP). In the memorandum (February 22, 1988) to you transmitting the Hydrology Section Draft Point Papers, a commitment was made to provide a description of the focus and the portions of the CDSCP covered by our review. This memo fulfills that commitment and contains a description of the Sections's focus and a listing of portions of the CDSCP reviewed by the Section. Those sections of the CDSCP and the level of responsibility assigned to the Hydrology Section in the Administrative Plan and Procedures for NRC Staff Review of DOE's CDSCP are listed below.

	SECTION	LEVEL OF RESPONSIBILITY	ESTIMATED PAGES
1.0	GEOLOGY	2	348
3.0	HYDROLOGY		240
4.0	GEOCHEMISTRY	1 2	38
5.0	CLIMATOLOGY & METEOROLOGY	ī	106
8.0	INTRODUCTION		1
	RATIONALE FOR SCP	2	11
8.2		2 2 EQ. 2 TUDIES 2 2 1	229
	PLANNED TESTS, ANALYSES, AND S	Tinies 2	2
	SITE PROGRAM	2	1
	GEOHYDROLOGY	1	346
	GEOCHEMISTRY		136
		2 2	
8.3.1.4	ROCK CHARACTERISTICS		95 106
8.3.1.5		1 3	106
8.3.1.6			29
	ROCK DISSOLUTION	· 2	2
8.3.1.8	POST CLOSURE TECTONICS	· 2 2 3	119
8.3.1.9	HUMAN INTERFERENCE	3	44
8.3.1.12	METEOROLOGY	1	65
8.3.1.16		4	25

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	SECTION	LEVEL OF RESPONSIBILITY	ESTIMATED PAGES
8.3.4.2 8.3.5 8.3.5.1 8.3.5.4 8.3.5.5 8.3.5.7	PERFORMANCE ASSESSMENT STRATEGY FOR PRECLOSURE PERF. ASSES WORKER RADIOLOGICAL SAFETY ACCIDENTAL RADIOLOGICAL RELEASES HIGHER LEVEL FINDEASE & COST OF OUR STRATEGY FOR POST CLOSURE PERF. ASSENGINEERED BARRIER SYSTEM RELEASES GROUND-WATER TRAVEL TIME TOTAL SYSTEM PERFORMANCE GROUND-WATER PROTECTION NRC SITING CRITERIA	2 2 2 2 SS. 2 2 2 CONST.2 SESS. 2 2 1 2 1 2 2 MENT 2 5	81 5 48 58 2 20 27 31 16 9 75 67 104 16 100 10 9 38 3
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The Hydrology Section completed a limited review of the Consultative Draft Site Characterization Plan by focusing on those sections for which it had prime responsibility. An exception was made for Section 8.3.1.16 (Preclosure Hydrology). We were assigned a level 4 responsibility for this section, but no one else was assigned to review this section and we assumed it to be our responsibility. Another exception was made for Section 8.3.5.14 (Individual Protection), which was reviewed, because we thought it was in our area of responsibility.

Further it is noted that the limited review that was done was not able to be fully coordinated with all the General Review Guides (Section 4.2) of the Draft Technical Review Plan. Those sections of the Consultative Draft Site Characterization Plan that received a limited review by the Hydrology Section are listed below.

	SECTION	LEVEL OF RESPONSIBILITY	ESTIMATED PAGES
3.0	HYDROLOGY	2	240
5.0	CLIMATOLOGY AND METEOROLOGY	1	106
8.0	INTRODUCTION	2	1
8.1	RATIONALE FOR SCP	2	11
8.2	ISSUE RESOLUTION INFORMATION REQ.	2	229
8.3	PLANNED TESTS, ANALYSES, AND STUDIE	S 2	2

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	SECTION	LEVEL OF RESPONSIBILITY	ESTIMATED PAGES
8.3.1 8.3.1.2 8.3.1.15 8.3.1.16 8.3.5.12 8.3.5.13 8.3.5.14 8.3.5.15 8.3.5.17 8.3.5.20 8.4.2.7	SITE PROGRAM GEOHYDROLOGY CLIMATE METEOROLOGY PRECLOSURE HYDROLOGY GROUND-WATER TRAVEL TIME TOTAL SYSTEM PERFORMANCE INDIVIDUAL PROTECTION GROUND-WATER PROTECTION NRC SITING CRITERIA ANALYTICAL TECH. REQUIRING DEVELOPE CONSTRUCTION OF EXP. SHAFT 1 TO DE		1 346 106 65 25 67 104 14 16 100 9
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Should you have any questions on this memo please contact William Ford (x20506).

Donald Chery, Section Leader
Hydrology Section
Technical Review Branch
Division of High-Level Waste Management

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