

MAR 11 1988

102.8/RB/3/11/88

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MEMORANDUM FOR: B. Joe Youngblood, Chief
Operations Branch, HLWM

FROM: Ronald L. Ballard, Chief
Technical Review Branch, HLWM

SUBJECT: RECOMMENDED ADDITIONAL CDSCP REVIEW WORK AND
STAFF-DAY ESTIMATES

This is in response to your memo of March 8, requesting HLTR recommendations for additional CDSCP review needed to finalize the draft point papers and associated staff-day estimates. The attached tables identify the work and estimated time in staff-days required to complete the additional tasks broken down by section. We have used Figure 1 of the APP for schedules and Figure 2 of the APP to determine the scope of work. If you have any questions regarding the contents please contact me or the appropriate Section Leader.



Ronald L. Ballard, Chief
Technical Review Branch, HLWM

Attachment:
As stated

cc: J. Linehan, HLOB
J. Kennedy, HLOB
S. Coplan, HLOB

8803310218 880311
PDR WASTE
WM-11 DCD

102.8
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NH18

**Materials Engineering Section
Additional CDSCP Review Work**

Description	Staff days
1. Review CDSCP references	15
2. Review Sections of CDSCP other than those directly related to the waste package and EBS	5
3. Participate in DOE workshops	3
4. Final point paper preparation	15
5. IQA review	3
Total = 41 Staff days	

GEOLOGY/GEOPHYSICS SECTION - ADDITION REVIEW TIME TO COMPLETE CDSCP REVIEW

<u>Review</u>	<u>Estimate (Staff days)</u>
1. Lead responsibilities	15
2. Input responsibilities	5
3. Key references: Conceptual Design Report Ross (2 reports) Fernandez Rogers and others Szymanski report	60
4. Prepare/participate in DOE/NRC Workshops	35
5. Review/prepare final point paper	25
6. IQA final point paper	5
7. Section Leader review/supervision/mgt/IQA	<u>TBD</u>
Total	145

AG 3/11/88

DRAFT CHERY 3/11

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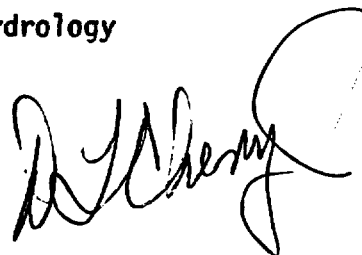
NOTE TO: Mysore Nataraja, Geotechnical Eng.
FROM: D.L. Chery, Hydrology
SUBJECT: STAFF DAY ESTIMATES FOR COMPILATION OF CDSCP

As requested in Memo from Youngblood (3/8/88), the Hydrology Section estimate of additional time needed for Section staff to complete work on the CDSCP is:

<u>Tasks</u>	<u>Estimated Staff Days</u>	
	March 21	April 12
1. Workshop preparation	4(0.2)	2(1) = 2.8
2. Workshop participation	2	8 = 10
3. Comment Revision		<u> </u> = 4
		16.8
4. IQA and Contingency		3.2
		<u>Total = 20.0</u>

D.L. Chery, Hydrology

cc: W. Ford
J. Pohle
F. Ross



March 11, 1988

GEOCHEMISTRY SECTION - WORK/ACTIVITY/STAFF DAYS NEEDED TO
FINALIZE CDSCP DRAFT COMMENTS

	<u>WORK/ACTIVITY</u>	<u>STAFF DAYS</u>	<u>STATUS</u>
(1)	Follow-up CDSCP Analysis o Lead/Input assignments	10 Days	33% Complete
(2)	Review Key References o Fernandez (1987) o Ross (1987) o Others	15 Days	25% Complete
(3)	Participate in Workshops o Comment Clarification Workshop o Alt. Concept. Mod. Workshop	13 Days	Not Started
(4)	Prepare Final Point Papers	5 Days	Not Started
(5)	IQA Final Point Papers	3 Days	Not Started

ADDITIONAL REVIEW WORK NEEDED TO COMPLETE
CDSCP REVIEW IN GEOTECHNICAL ENGINEERING AREA

<u>REVIEW WORK</u>	<u>STAFF DAY ESTIMATE</u>
1. RESPONSIBILITY 1 OF CDSCP	10
Section 8.3.1.13 Offsite Inst/Ops Program	
Section 8.3.1.14 Overview Surf. Charact.	
Section 8.3.5.7 HLW findings	
2. RESPONSIBILITY 2 OF CDSCP	20
Too many sections to provide an exhaustive list.	
Examples:	
Section 8.1 Rationale	
Section 8.2 Issue Res/Info Req.	
Section 8.3.1.2.2 Unsaturated Zone Investigations	
Section 8.3.1.4.2 Issue Resolution 1.10:	
Emplacement Borehole Design Related Issues	
Section 8.3.5 Performance Assessment	
3. Chapters 2 & 6 of the CDSCP	20
4. Conceptual Design Reports: 6 Volumes	20
5. Key References (Performance Analysis)	30
(a) Case & Kelsall	
(b) Fernandez et al	
(c) SAND85-0598	
6. IQA for final point papers	10
7. Prepare and participate in workshops	10
	<hr/> 120

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OFFICIAL CONCURRENCE AND DISTRIBUTION RECORD

MEMORANDUM FOR: B. Joe Youngblood, Chief
Operations Branch, HLWM

FROM: Ronald L. Ballard, Chief
Technical Review Branch, HLWM

SUBJECT: RECOMMENDED ADDITIONAL CDSCP REVIEW WORK AND
STAFF-DAY ESTIMATES

DATE: MARCH , 1988

MAR 11 1988

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HLTR/RLBallard

Raj
[Handwritten initials and signatures]

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3/11/88

NOTE JUSTUS 3/10

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EVALUATION OF NAS ITEMS ADDRESSED IN CDSCP

1. Ion-absorbing properties of tuff

CDSCP SECTIONNot adequately
addressed by:

8.3.1.2.3

8.3.1.3.4

8.3.1.3.6

8.3.1.3.7

8.3.5.13

NRC CDSCP CONCERN

Comments 15

19, 20, 22, 23,

24, 25, and 89

Question 10

2. Radionuclide movement ...

CDSCP SECTIONNot adequately
addressed by:

8.3.1.2.3.1

8.3.1.3.4

8.3.1.3.5

8.3.1.3.6

8.3.1.3.7

8.3.5.13

NRC CDSCP CONCERN

Comments 14, 15,

22, 23, 24, 25

Questions 6, 10, 47

3. Rock Dimensions

CDSCP SECTIONNot adequately
addressed by:

8.3.1.4

8.3.2.4

NRC CDSCP CONCERN

Comments 27, 28, 29, 30 and 100

4. Groundwater Movement

CDSCP SECTIONNot adequately
addressed by:

8.3.1.2

8.3.1.2.2

8.3.1.2.2.3.2

8.3.1.2.2.3.2

8.3.1.2.2.4

8.3.1.2.2.4

8.3.1.2.2.4

8.3.1.2.2.5.1

8.3.1.2.3.1

8.3.5.12

NRC CDSCP CONCERN

Comment 5

Comment 6

Comment 7

Comment 8

Comment 9

Comment 10

Comment 11

Comment 12

Comment 13

Comment 86

8.3.5.12

Comment 87

8.3.5.12

Comment 88

8.3.5.14

Comment 96

5. Seismic Stability

CDSCP SECTION

Not adequately
addressed by:

8.3.1.8

8.3.1.17

8.3.5.13

NRC CDSCP CONCERN

Comments 52, 73, 94
Questions 15, 21, 22,
25, 31 and 32

6. Volcanic Stability

CDSCP SECTION

Not adequately
addressed by:

8.3.1.8

8.3.1.17

8.3.5.13

NRC CDSCP CONCERN

Comment 49, 51, 94 and 95
Question 20

7. Lateral Variation...

CDSCP SECTION

Not adequately
addressed by:

8.3.1.4

8.3.1.17

8.4.2.4

NRC CDSCP CONCERN

Comments 28 and 100

8. Faulting

CDSCP SECTION

Not adequately
addressed by:

8.3.1.4

8.3.1.8

8.3.1.17

NRC CDSCP CONCERN

Comments 26, 28, 29, 37, 49,
50, 53, 59, 73, 94 and 101
Questions 20 and 22

9. Stability of tuff...

CDSCP SECTION

Not adequately
addressed by:

8.3.1.3.3

NRC CDSCP CONCERN

Comments 17, 71

NOTE JUSTUS 3/10

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10. Waste, water, tuff interactions

CDSCP SECTION

Not adequately
addressed by:

8.3.1.3.1

8.3.1.3.3

8.3.1.3.5

8.3.1.3.7

NRC CDSCP CONCERN

Comment 16, 18, 20,
21, 25, 71

Question 11

NOTE JUSTUS 3/10

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OFFICIAL CONCURRENCE AND DISTRIBUTION RECORD

MEMORANDUM FOR: B. J. Youngblood, Chief
Operations Branch Division of High-Level Waste Management

FROM: Ronald L. Ballard, Chief
Technical Review Branch Division of High-Level Waste
Management

SUBJECT: REQUEST FOR EVALUATION OF WHETHER NAS ITEMS
ARE ADDRESSED IN CDSCP

REF: Letter from Gloyna (NAS) to Meyers (DOE) dated April 23,
1979

DATE: 3/11/88

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