



*STABLEIN*  
Lawrence Livermore National Laboratory

February 3, 1988  
NWM:88-017

N.K. Stablein  
Senior Project Manager  
U.S. Nuclear Regulatory Commission, MS-4H3  
Washington DC 20555

Dear Mr. Stablein:

In our conversation January 28 at the Reno session on the consultation draft SCP you asked for clarification concerning waste package study plans. Your staff had noted that the list of Study Plans in the SCP-CD (p. 8.5-27 to 8.5-33) did not seem to cover all of the waste package effort. I confirmed that this was true, and that the study plans associated with the SCP all involved site characterization. I explained that the format and content of plans for design and performance assessment needed to be significantly different from those for site characterization.

I also pointed out that LLNL had a series of ten WBS-oriented planning documents that had much of the content of a study plan and that many of these were (or would soon be) available as published documents. You indicated that NRC would like to see these plans and that they may be sufficient for SCP review purposes.

Five design and performance assessment plans have been approved for publication and are either distributed or being printed. Another four have been approved by NNWSI for their original purpose, a Scientific Investigation Plan, as required in QA Element 3A of the NNWSI QAP. One additional has not been written, as work other than planning has not started in that area. We are also considering adding an eleventh plan.

In addition to these documents, a Waste Package Post-Closure Compliance Strategy Document is being written to summarize the strategy reflected in the SCP. We also are preparing a Waste Package Program Plan, which will provide a top-down summation of all these documents and clarify the position of each in the program. We plan to have these available by the time of issuance of the SCP.

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A list of the WBS-oriented planning documents is enclosed. Please note that any dates or milestones in these documents are outmoded and that the Nuclear Waste Policy Amendments Act of 1987 may require their revision. However, they give background and were a good indication of program direction when they were written.

We are also enclosing four printed documents. If you want copies of the two that are being printed, we could send you a xerox copy.

Sincerely,



Lawrence D. Ramspott  
LLNL Technical Project Officer  
for NNWSI

Enclosures

xc (w/doc.list):

R. Stein, HQ  
D. Alexander, HQ  
M. Frei, HQ  
C. Gertz, WMPO  
L. Skousen, WMPO  
M. Blanchard, WMPO  
T. Hunter, SNL

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### Status of Waste Package Planning Documents

1. Package Environment (WBS 1.2.2.2, SCP Section 8.3.4.2.4)

Still at author for revision for publication.

Note: This document is represented by three Study Plans in the SCP list; Study 1.10.4.1, 1.10.4.2, and 1.10.4.3.

2. Spent Fuel Waste Form (WBS 1.2.2.3.1.1, SCP Section 8.3.5.10)

"Plan for Spent Fuel Waste Form Testing for NNWSI," Shaw, UCID-21272, November 1987.

Approved by WMPO on 12/08/87; in production.

3. Glass Waste Form (WBS 1.2.2.3.1.2, SCP Section 8.3.5.10)

"Plan for Glass Waste Form Testing for NNWSI," Aines, UCID-21190, September 1987.

Printed and distributed.

4. Metal Barrier (WBS 1.2.2.3.2, SCP Section 8.3.5.9)

"Plan for Metal Barrier Selection and Testing for NNWSI," McCright, UCID 21262.

Still at author for revision for publication.

5. Other Materials (WBS 1.2.2.3.3, SCP Section 8.3.4.2)

Not written.

6. Alternate Container Material (No current WBS, SCP Section 8.3.5.9.3.3)

Not written - former planning work done under Other Materials. Will likely form a separate effort and plan.

7. Integrated Testing (WBS 1.2.2.3.4, SCP Section 8.3.5.10)

"Plan for Integrated Testing for NNWSI Non EQ3/6 Data Base Portion," Oversby, UCID-21274, November 1987.

Approved by WMPO on 1/29/88; in production.

8. Design (WBS 1.2.2.4, SCP Sections 8.3.4.3 and 8.3.4.4)

Still at author for revision for publication.

9. Performance Assessment (WBS 1.2.2.5.1, SCP Sections 8.3.5.9 and 8.3.5.10)

"Scientific Investigation Plan for NNWSI, WBS Element 1.2.2.5.L, NNWSI Waste Package Performance Assessment," Eggert, O'Connell and Lappa, UCID-20967, October 1986.

Printed and distributed.

10. EQ3/6 (WBS 1.2.3.8, SCP Section 8.3.5.10)

"Geochemical Modeling (EQ3/6) Plan: Office of Civilian Radioactive Waste Management Program," McKenzie, Wolery, Delany, Silva, Jackson, Bourcier, and Emerson, UCID-20864, August 1986.

Printed and distributed.

11. Exploratory Shaft Testing (WBS 1.2.6.9, SCP Section 8.3.4.2.4.4)

"Concept for Waste Package Environment Tests in the Yucca Mountain Exploratory Shaft," Yow, UCID-20450, May 1985.

Note: This document is merely a precursor to one of the official study plans in the SCP list, Study 1.10.4.4: Engineered barrier system field tests. It is also not a Scientific Investigation Plan (SIP) as are the others in this list, although a SIP exists and was approved in October 1986.

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