

JUN 27 1989

MEMORANDUM FOR: R. John Starmer, Section Leader
Technical Branch
Division of Low-Level Waste Management
and Decommissioning, NMSS

FROM: Edward Y. Shum
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Division of Low-Level Waste Management
and Decommissioning, NMSS

SUBJECT: TRIP REPORT - MEETING WITH SANDIA NATIONAL LAB (SNL)
STAFF TO DISCUSS PERFORMANCE ASSESSMENT

On June 14, 1989 I met with Sandia National Lab (SNL) staff at SNL (Albuquerque, New Mexico) to review technical progress and discuss management issues concerning the performance assessment project under NRC contract FIN-A1764. The attendees were as follows:

NRC

E. Shum

SNL

E. Bonano

M. Chu

C. Harlen

M. Kozak

P. Mattingly

The principle subjects of discussion were:

1. Review comments on report for Subtasks 2.3 and 2.4 on "Selection and Integration of Models for Low-Level/Waste Performance Assessment Methodology" under FIN A-1764.
2. Task to review a DOE Prototype License Application under short-term technical assistance (Task 6) of FIN A-1764 and
3. Initiation of the development of methodology for radiological assessment from routine and accidental release from the operation of a LLW disposal facility under Subtask 6 of FIN A-1764.

Item No. 1: The NRC staff presented the comments from internal reviews of subtask 2.3 and 2.4 report and suggested approaches to resolve these comments. The SNL staff were informed that Chapter 3 of the report on "Source Term Models" will be under peer review by Dr. D. Kelmers' group at Oak Ridge National Lab (ORNL) and comments will be provided in about

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three weeks. Chapter 5 of the report on "Ground-Water Models" is under peer review by Dr. M. Bergeron's group at Pacific Northwest Lab (PNL), and comments will be provided in about two weeks. The models described for the rest of the chapters in the report had already been subjected to peer-review. In addition, the selection of computer codes for ground water modeling in Chapter 4 of report submitted by SNL under next subtasks 3.0 and 4.1 will be peer-reviewed by the PNL group. It was suggested that a meeting to discuss the selected ground water modeling codes between SNL, PNL, RES and LLW staff should be scheduled on the week of July 17. During this week the SNL staff can also attend the "kick-off" meeting of the DOE Prototype License Application review.

Item No. 2: The NRC staff had mailed the DOE's Safety Analysis Report for the Below Ground Vault; NRC's Standard Format and Content; Standard Review Plan and copy of examples of the NRC's review instructions; review and comments on the DOE's other Prototype License Application (Earth Mounted Concrete Bunker) to SNL staff. A general scope on the review of the DOE's SAR was discussed. In general, the review mainly covers Chapter 6 of the SAR on performance assessment and other related topics on performance assessment in the SAR. SNL staff should use the NRC's Standard Format and Content; Standard Review Plan as guidance to identify inadequacies of information in the SAR and provide questions and comments to NRC project manager after review of the SAR. This constitutes the major scope of the SNL review of the SAR. In addition SNL staff should independently evaluate some of the pathway analysis if the data, funding and time are available. It is expected that SNL will send representative(s) to discuss the details of this assignment at the NRC's "kick-off" meeting scheduled for the July 17 week of 1989.

Item No. 3: Development of methodology for radiological assessment from routine and accidental release from the operation of a LLW disposal facility were discussed with SNL staff. The NRC staff encouraged the SNL staff to initiate the project as soon as possible. The SNL staff should start working with the accidental release under a specified meteorological condition and in FY90 when additional funding is available, they should work on routine releases and cover other release conditions and population dose evaluation. This work, with the SNL's post-closure project, should complete the overall radiological assessment methodology from the operation of a LLW disposal facility.

Original Signed By
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 Technical Branch
 Division of Low-Level Waste Management
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cc: M. Chu, SNL
 E. Bonano, SNL

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