

JUN 07 1993

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Division of High-Level Waste Management, NMSS

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Mel Silberberg, Chief
Waste Management Branch
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FROM: Margaret V. Federline, Chief
Hydrology and Systems Performance Branch
Division of High-Level Waste Management, NMSS

SUBJECT: REVISED OUTLINE AND SCHEDULE FOR COMPLETION OF THE
PERFORMANCE ASSESSMENT STRATEGIC PLAN

The Performance Assessment Section of HLHP, in cooperation with the CNWRA, is developing a Performance Assessment Strategic Plan (PASP). This document will provide a strategic plan for the conduct of performance assessment and performance assessment-related activities for the high-level waste management program at the NRC for the duration of the HLW program. On April 8, 1993, a working draft of the PASP was distributed to you and members of your staff for review and comment.

Comments received from both DHLWM and RES identified a need to more strongly integrate the PASP with other HLW program management documents (e.g., the Overall Review Strategy (ORS), the DHLWM Management Plan, the Research Program Plan, and the LARP Development Plan). As a result, the PASP outline has been revised to reflect this need for integration (Enclosure 1).

Revision of the PASP along the lines shown in the revised outline will necessitate (1) development of new sections of text to appropriately describe the integration among the HLW management program documents, and (2) fairly significant restructuring of the text contained in the current working draft. Consequently, the original schedule for completion of this document has been revised (Enclosure 2).

As stated in my note to you of 6 March 1993, ultimately, we will be seeking your concurrence for this plan. Therefore, a meeting has been scheduled for Monday, June 14, from 2:00 to 4:00 p.m. in Room 4B-13, to discuss whether you believe this revised outline will provide an acceptable approach to resolving the concerns regarding integration. The meeting room is large enough to accommodate Section Leaders and Section staff contacts also, and I certainly would welcome their input as well.

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If you have any conflicts with either the date or the time of the meeting, or any questions, please contact Jim Park. He can be reached at 504-2592.

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Margaret V. Federline, Chief
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Enclosures:
As stated

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**Revised Outline for
the Performance Assessment Strategic Plan (PASP)**

Chapter 1 Introduction and Purpose

- Introduction
- Regulatory environment and background

Chapter 2 HLW Program

- Discuss Overall Review Strategy (ORS)
- Discuss relationships among PASP, RES Program Plan, and LARP Development Plan, Analysis Methodology Development, and SRA

(envisioned as generic to all the long-range development plans, with plan-specific slant the distinguishing feature)

Chapter 3 HLW Performance Assessment Program

- HLW Performance Assessment program (includes discussion of goals, assumptions, and constraints)

Chapter 4 Summary of Technical Issues

- Origin of technical issues
- Categorization of technical issues
- Prioritization of issues (approach, criteria, and results)

(chapter will summarize appendix)

Chapter 5 Summary of PA Program Implementation

- Program implementation and program goals (introduction)
- Crosswalk of technical issues and activities
- Regulatory Requirements
 - Conform Part 60 to Revised EPA Standard
 - Support Substantially Complete Containment (SCC) rulemaking
 - Groundwater Travel Time (GWTT)
- Technical Guidance
 - Formal use of expert judgment
 - "Scenario" definition
 - CCDF construction
 - Partial model validation
 - Determination of scenario probabilities
 - Other (e.g., uncertainty analysis, numerical model requirements)

- LARP and Supporting Technical Capability
 - Develop overall system performance LA review plans (CDSs/CDMs)
 - Develop overall system performance code and model development (Iterative Performance Assessment effort)
 - Identification, evaluation, and prioritization of key technical uncertainties (KTUs) identified through SRA
 - Analysis Method Preparation
 - Wasteform characterization studies
 - Hydrologic model development
 - Tectonic model development
 - Seismic hazard model development
 - Thermal hazard model development
- Pre-License Application Reviews
 - DOE's TSPAs, other issues
 - Biannual Site Characterization Progress Reports

Appendix Issues in HLW PA Program (detailed discussion)

- Issues identified through Systematic Regulatory Analysis

Broad discussion headings (from overall system performance CDSs)

 - Conceptual model uncertainty
 - Parameter uncertainty
 - Mathematical model uncertainty
 - Model validation
 - Future states uncertainty

Discussion topic areas:

 - Technical issues to address to reduce KTU
 - Work required to address technical issues
 - Tie work to LARP development
 - Schedules
- Other Issues (e.g., those identified through IPA)
 - Technical issues to address to reduce potential KTU
 - Work required to address technical issues
 - Tie work to LARP development
 - Schedules

**SCHEDULE FOR COMPLETION OF PA STRATEGIC PLAN
(MM 062-510-010)**

May 21 - June 14

- o J.Park (NRC) finalizes revised outline for PASP, identifies areas to be developed by NRC and by CNWRA, respectively, through discussions with relevant NRC and CNWRA staff
- o J.Park arranges for briefing to NRC and CNWRA management on revised PASP outline and schedule for completion; briefing tentatively scheduled for Monday, June 14
- o Based on management approval, work on draft begins

June 14 - July 30

- o Production of draft document continues, with completion on Friday, July 9
- o Draft document distributed for review and comment by NRC (NMSS and RES) and CNWRA technical staffs on Monday, July 12
- o Comments due back to J.Park (NRC contact) or to B.Baca/B.Sagar (CNWRA contact) by Friday, July 30. CNWRA comments transmitted to J.Park

August 2 - September 3

- o Comments from technical staffs addressed and resolved; J.Park available to arrange meetings if necessary. Revised draft completed on Friday, August 13
- o Meeting with technical staffs to discuss how resolution of comments was achieved on Monday, August 16
- o Revised draft distributed to NRC and CNWRA technical staffs for review and comment on Monday, August 16. Comments due back to NRC/CNWRA contacts by Monday, August 23. CNWRA comments transmitted to J.Park
- o Comments from technical staffs addressed and resolved. Final draft for management review completed on Friday, September 3

September 7 - October 15

- o Final draft distributed for management review at NRC and CNWRA on Tuesday, September 7. Comments due back to NRC/CNWRA contacts by Friday, September 17. CNWRA comments transmitted to J.Park
- o Resolution of management comments by Friday, October 1
- o Submittal of Final PASP by CNWRA to NRC on Friday, October 15