

To: John Linehan / Paul Hildenbrand
 MS 623SS Department of Energy
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Linehan / Hildenbrand
 101 - PDR-1
 LPDR -
 WM1012

June 26, 1987

Stephen H. Kale
 Associate Director
 for Geologic Repositories
 Office of Civilian Radioactive
 Waste Management, HQ

WM Record File 101 WM Project 10
 Docket No. _____
 PDR
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Distribution:
SSK WASTLER
Hildenbrand
 (Return to WM, 623-SS)

BWIP WEEKLY HIGHLIGHTS REPORT

Enclosed for your information is the BWIP Weekly Highlights Report for the week ending June 26, 1987.

J. H. Anttonen
 for John H. Anttonen, Assistant Manager
 for Commercial Nuclear Waste

Enclosure

- cc: J. Bresee, RW-22, HQ
- J. Morris, RW-22, HQ
- R. Stein, RW-23, HQ
- J. Knight, RW-24, HQ
- M. E. Langston, RW-40, HQ
- C. Smith, RW-43, HQ
- C. Peabody, RW-22, HQ
- D. Siefkin, Weston
- R. Jackson, Weston
- W. McClain, Weston
- T. Bates, Weston
- G. Shaw, Weston
- F. R. Cook, NRC ←
- A. Alkezweeny, On-Site Tribal Representative
- T. Husseman, State of Wash.
- M. S. Power, State of Wash.
- R. Jim, Yakima Indian Nation
- W. Burke, CTUIR
- R. Halfmoon, Nez Perce Tribe
- W. Hanson, GAO
- Latir Energy Consultants

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BWIP WEEKLY HIGHLIGHTS
JUNE 25, 1987

I. Critical Item Status

Basalt Waste Isolation Division (BWI) (O. L. Olson)

General Restart

The partial lift of the BWIP stop work order issued on June 10, 1987, will be accomplished in three phases: (1) partial restart, which allows preparation of work packages, (2) work package approval, and (3) lift of the stop work order. Nine action items have been added to the items identified as required for resolution prior to total restart as a result of agreements/commitments identified in the June 4, 1987, consultation with DOE-HQ, NRC, States and Indian Tribes. The items identified as required for resolution prior to total restart numbered 91. Partial lift requirements were met and the remainder of items punchlisted. Thirteen of these are still in process of resolution for the total lift and resumption of work.

Site Characterization Plan

Rockwell has assembled a team of Rockwell BWIP senior scientists and managers to summarize BWIP's overall strategy for site characterization and the program as reflected by approaches to performance allocation, preclosure safety, design, geoscience testing, special guidance, and integration of tasks. The completed strategy should provide the framework to better integrate the Issue Resolution Strategies and SCP Plans into a purposeful whole. The completion of this task is expected by the end of June 1987.

Action has been taken to review details of an appropriate address list related to publishing and distribution of the Hanford SCP with NNWSI (Nevada) and DOE-HQ OCRWM (Engineering and Geosciences Division) due to the size of reference Hanford SCP.

Licensing Assurance Review (LAR)

On June 22-23, DOE-RL and Rockwell completed Comment Resolution meetings on all remaining LAR comments that were not dispositioned in the first round of meetings held on May 26-28, 1987. The purpose of the meetings was to disposition LAR comments and separate contentious comments from easily dispositioned comments. We will disposition these comments in meetings and/or telephone conversations with the LAR reviewers.

Quality Systems Division (QSD) (R. P. Saget)

DOE-HQ early action regarding BWIP's request for NRC position to be taken on the On-Site Representative's monthly reports is imperative for expeditious resolution of these issues. BWI has transmitted proposed resolutions on RAI's from the NRC regarding BQARD. Final approval of these proposed resolutions by NRC is impacting completion of BQARD revision.

II. Significant Accomplishments/Information Items

Office of the Project Manager (J. H. Anttonen)

Final draft of the agreement between the Nez Perce Tribe and the DOE governing the negotiation of a Consultation and Cooperation (C&C) Agreement, as discussed at Lewiston, Idaho, on June 11, 1987, has been received at RL from the attorney for the Nez Perce Tribe.

Basalt Waste Isolation Division (BWI) (O. L. Olson)

Geoscience and Technology Branch (D. H. Dahlem)

Agreement has been reached among RL-BWI, Rockwell BWIP, and State of Washington representatives on the location of a seismic line to be operated by the Denver office of the U. S. Geological Survey.

In the geology area, the requisition for the seismic-acquisition parameter study was submitted to Procurement; links between the mineralogy/petrology logics and other BWIP function logics were completed.

A major rewrite of the Site Subsystem Description document was accomplished and the Work Initiation Package for monitoring borehole drilling was completed.

In the area of Exploratory Shaft testing, an ES testing schedule for the next three years was completed from the logics and an impact schedule for DOE/NRC review of study plans was assembled.

DOE-HQ reviewed the technical, management, and budget of the Performance Assessment Group.

DOE-RL has reviewed logic diagrams for all performance assessment activities.

A final report has been issued on Waste Package Reliability.

The contract for X-ray fluorescence work at Washington State University is ready but is delayed until the Expedited Special Case for DC-24/25 is approved.

Engineering and Construction Branch (R. A. Holten)

A more detailed response has now been received from KE/PB on how the SEMP may impact their programs. A complete evaluation will be conducted by DOE-RL.

A preparatory meeting was held with possible Rockwell BWIP participants to assure readiness for the scheduled meeting on July 7-9, 1987, with DOE-HQ representatives on Documentation and Data Management.

KE/PB has completed the building specification for the Core Storage Facility. M-K is preparing the bid package scheduled to go on the street on June 26. Expected award date is August 8, 1987.

Representatives of RL BWI and Rockwell BWIP visited KE/PB to discuss ways to reduce the scope of work requirements for the Core Storage Facility, and reduce manhours and the anticipated design costs. The A/E will provide a new schedule and cost by June 26, 1987.

The replacement waterline for the Near Surface Test Facility (NSTF) is being designed by KEH and is scheduled to be completed by June 30, 1987. Construction will begin by mid-August and be completed by mid-October 1987.

BWI staff will participate in the July 15 meeting with representatives of the four tribes and present planned construction and modification plans scheduled for the NSTF in FY 1987 and 1988. In addition, suggestions for reclamation and mitigation of Gable Mountain will also be presented.

DOE-HQ comments on the ES Design Basis Study have been received and are currently being reviewed. This review is in preparation for a Design Basis Study workshop with HQ scheduled for the week of July 20.

Also scheduled for the week of July 20 is a meeting with HQ to discuss CM costs as presented in the TEC 1987 Rev. 2. Material for this meeting is being prepared by M-K.

The Work Initiation Package for the ES Site Specific Design Requirements has been processed and approved by RL BWI Readiness Review Board. Rockwell has been authorized to proceed with this activity.

A draft Rockwell report, "Modeling Copper Corrosion: The Transport Limited Approach," was reviewed and a marked up copy provided informally to the author. The markup will be discussed with the author prior to generating a formal response.

The draft high-level radioactive waste container design and construction standard was received by RL-BWI on June 19. The document will be provided to HQ and other projects for review and comment in accordance with previous waste package coordination group meetings.

Quality Systems Division (QSD) (R. P. Saget)

A meeting was held to provide comments on the basic requirements that must be contained in Work Initiation Packages submitted by Rockwell.

A checklist is being prepared for review of DC-24/25, Expedited Special Case package.

Criteria are being developed for review of study plans being submitted by Rockwell.

QSD participated in the Rockwell audit of Westinghouse activities for design of boreholes and corrosion studies.

An exit meeting on Project Records Management Surveillance was held on June 17. One finding was issued as a result of the surveillance on DOE concerning handling of records in compliance with BQARD requirements.

III. Upcoming Meetings

See attached pages.

**BWIP UPCOMING EVENTS
JUNE 25, 1987**

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Contact</u>
<u>HQ Meetings</u>			
July 7	Study Plan Status Meeting	HQ	Mecca/Dahlem
July 7-9	Documentation and Data Management	Richland	Petrie
July 7-9	HQ Interface for Environmental Planning Issues	Seattle	Whitfield
August 17-21	HQ Interface for Environmental Planning Issues	Richland	Whitfield
TBD	System Functional Analysis Review	Richland	Petrie
<u>Coordinating Group Meetings -</u>			
June 29-July 1	Rock Mechanics Symposium	Tucson	Dahlem
July 7-8	Materials Steering Committee	HQ	LaMont
July 21-23	ISCG	Seattle	Whitfield
July 24-31	Commitment Tracking Utility Group	Syracuse	Krupar
September 2-3	Technical Code Coordinating Group	Idaho Falls	Krupar
<u>State/Indian/Public Interaction</u>			
June 26	Meeting with Terry Husseman, State of Washington	Richland	Anttonen
July 15	Meeting with affected Tribes to discuss Gable Mt. under Indian Religious Freedom Act	Richland	Whitfield
July 29-30	BWIP Quarterly Meeting with the States and Tribes	Richland	Powell
<u>Internal Project Meetings -</u>			
July 14-15	Rock Creep Workshop	Richland	Dahlem

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Contact</u>
<u>NRC Interactions</u>			
June 30-July 1	NRC Annual Meeting on HLW Program with States and Tribes	Washington DC	Powell
July 21-23	Geochemistry Data Examination	Richland	Furman
July	Exploratory Shaft Meeting	Richland	Boileau/Kovacs
TBD	Repository Design (workshop)	Richland	Kovacs
TBD	BWIP NRC meeting to discuss SCP Issues, Hierarchy, Resolution Strategy, Data Needs	HQ	Mecca/Dahlem
August 10	Geology Data Examination	Richland	Furman
<u>Other</u>			
June 29	Testimony before the U. S. Senate Energy and Natural Resources Committee	Washington	Anttonen



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Send ^{copy} to
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June 18, 1987

Stephen H. Kale
 Associate Director
 for Geologic Repositories
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John H. Anttonen, Assistant Manager
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 W. Hanson, GAO
 Latir Energy Consultants

OFFICE	AMO	QSD	BWI	AMC			
SURNAME	Turner:mbv	Sager	Oison	Anttonen			
DATE	6/18/87	6/19/87		6/19			

BWIP WEEKLY HIGHLIGHTS
JUNE 18, 1987

1. Critical Item Status

Basalt Waste Isolation Division (BWI) (O. L. Olson)

General Restart

The partial lift of the BWIP stop work order issued on June 10, 1987, will be accomplished in three phases: (1) Partial restart, which allows preparation of work packages, (2) work package approval, and (3) lift of the stop work order. The items identified as required for resolution prior to total restart numbered a total of 84. Partial lift requirements were met and the remainder of items punch listed. Fifteen of these are still in process of resolution for the total lift and resumption of work. DOE review and approval of Rockwell's 30 QA Administrative Procedures (QAAP) to support project restart has been completed. Review and approval of revisions to the QAAPs is continuing.

Site Characterization Plan

Incorporation of comments from HQ/Weston reviews during April 21 to May 15 is continuing for the following chapters/sections:

- Chapter 6 - Conceptual Design
- Chapter 7 - Waste Package
- Section 8.2 - Issues
- Section 8.3.1.1 - Overview
- Section 8.3.1.2 - Geology
- Section 8.3.1.3 - Hydrology
- Section 8.3.1.4 - Geochemistry
- Section 8.3.1.5 - Climatology
- Section 8.3.2.6 - Resource Potential
- Section 8.3.2 - Repository Program
- Section 8.3.3 - Seals
- Section 8.3.4 - Waste Package
- Section 8.3.5 - Performance Assessment

Final revisions of the BWIP Glossary were completed on June 12, with the identification of additional SCP terms. This draft will be submitted to Technical Publications next week.

Of the 13,621 SCP Review Comments that have been entered into the Comment Tracking System, 5580 have been closed out.

BWIP will incorporate into the SCP the Licensing Assurance Review (LAR) comments dispositioned during the May 26-28, 1987, LAR workshops. Rockwell will identify preliminary dispositions of the

remaining 361 LAR comments for consideration and endorsement by DOE-RL prior to incorporation into the SCP.

The LAR comments will be classified according to the following characteristics:

- redundant with previous DOE-HQ/Review comments
- require additional LAR reviewer contact/assistance
- issue versus plans/data chapter comments

Rockwell is developing a revised SCP Production Action Plan that accommodates the LAR commentary. This Plan will include the following six major elements:

- develop overall characterization strategy
- establish integration criteria
- complete technical comment incorporation
- implement management integration team
- prepare SCP for Assembled Review - Revision 0
- conduct Assembled Review

Quality Systems Division (QSD) (R. P. Saget)

HQ prompt action regarding BWIP's request for NRC position to be taken on the OR's monthly reports is vital for expeditious resolution of these issues. BWIP has transmitted proposed resolutions on Requests for Additional Information (RAI's) from the NRC regarding BQARD. Lack of final approval of these proposed resolutions by NRC is impacting completion of BQARD revision.

II. Significant Accomplishments/Information Items

Office of the Project Manager (J. H. Anttonen)

John Anttonen has been requested to give testimony on June 29, 1987, regarding BWIP, before the Energy and Natural Resources Committee, United States Senate.

Consultation and Cooperation (C&C) negotiations between DOE and the Nez Perce Tribe began June 11, 1987. A procedural agreement was reached for conducting the C&C negotiations.

Executives from the West German Government visited BWIP on June 16, 1987. The purpose of the visit was to discuss radioactive waste management and tour facilities in accordance with DOE/BMFT bilateral agreement. There was a good technical exchange of information.

Basalt Waste Isolation Division (BWI) (O. L. Olson)

Geoscience and Technology Branch (D. H. Dahlem)

Contact has been made with Advanced Energy Technology (AET), Houston, with respect to their ongoing work in electrical-magnetotelluric profiling for oil companies. Presently AET is not planning on profiling across the Hanford Site, but we expressed an interest in supporting work south of the Saddle Mountains BN 1-9 well onto the Hanford Site. (Husseman made the project aware of this opportunity.)

BWI has begun a readiness review of the expedited special case (ESC) restart package including drilling and piezometer installation for DC-23, DC-24, DC-25, DC-32 and DC-33. The review schedule will provide a recommendation to the Readiness Review Board by July 14, 1987.

Documents that comprise the DC-24 ESC package are being assembled for distribution to the NRC, States and affected Tribes so that a mid-July meeting may occur to discuss the drilling activity. Piezometer installation will be discussed at a later date.

The Mineralogy/Petrology Network Logic was presented for RL review.

QA qualification costs continue to be a problem for contracts at "one-of-a-kind" external laboratories.

The RFP for determination of seismic reflection parameters has been completed and is in the signature process.

The Stratigraphy Study Plan has been submitted to Rockwell Technical Publications for editing.

A Work Initiation Package for preparation of the deep borehole position paper was completed.

The external review of the Rock Mechanics Study Plan was completed.

Technical review meetings for the In Situ Stress Determination and Mechanical Properties Study Plans were held.

Engineering and Construction Branch (R. A. Holten)

The Design Requirements Document and Scope of Work for the design and construction of the Core Storage/Records Storage Facility were completed. It is anticipated that construction will begin this fall with operational availability in May 1988.

An informal meeting was held with representatives of the Wanapum and Yakima Indian Tribes to discuss safety and operational improvements to the Near Surface Test Facility (NSTF). These improvements include a replacement water line for fire protection and operational use, relocating office trailers to the apron area, and construction of security fences prior to beginning the test program scheduled for October. A tour of NSTF and Gable Mountain areas was provided so the tribal representatives could see where the construction activities will take place.

Detailed response from KE/PB on implementation of SEMP impacts on their work has not been received. The initial commitment was June 5, 1987.

One meeting was held with RL, Rockwell, and MACTEC, and another is scheduled for June 16, in preparation for meetings with Charles Brooks, DOE-HQ, on July 7-9, regarding documentation and data management.

Negotiations were completed with KE/PB for final costs on Task V, Study 11, Exploratory Shaft Design Methodology.

RL reviewed BWIP logic diagrams for waste package activities with Rockwell and provided comments informally to lead Rockwell staff. The most significant comment was that the scope of work planned for the "Design for Reliability Methodology" task and the "Waste Package Performance Assessment" task appeared to overlap. Rockwell is addressing this comment.

A second draft briefing paper was reviewed by RL for the upcoming Rock Creep/Waste Package Workshop planned for July 14-15, 1987. Although the latest draft is an improvement, it is still below a quality suitable for transmittal to external expert consultants and project participants. Additional comments were provided to Rockwell informally.

Rockwell was advised of the assistance needed on preparing for the Materials Steering Committee meeting at HQ on July 8-9, 1987.

RL reviewed the draft Waste Package Subsystem Design Description formally submitted by Rockwell. It appears that a major rework is needed and informal response to Rockwell is planned.

Quality Systems Division (QSD) (R. P. Saget)

Division personnel are continuing to update DOE-RL administrative procedures to comply with the latest HQ documents and NQA-1, 1986

requirements and incorporate organizational changes. To date, 34 procedures have been approved and 3 are in the concurrence cycle.

Proposed resolution of NRC RAI's on the QAP were reviewed with DOE-HQ on June 3, 1987, and transmittal of these to HQ will be executed by June 17, 1987.

QSD staff participated in the Rockwell audit of Westinghouse activities for design of boreholes and corrosion studies.

QSD staff participated in the Rockwell audit of the SCP licensing activities within Rockwell.

III. Upcoming Events

See attached pages.

**BWIP UPCOMING EVENTS
JUNE 18, 1987**

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Contact</u>
<u>HQ Meetings</u>			
June 17-18	HQ Review of BWIP's Postclosure Performance Assessment	Richland	Knepp/Krupar
July 7	Study Plan Status Meeting	HQ	Mecca/Dahlem
July 7-9	Documentation and Data Management	Richland	Petrie
July 7-9	HQ Interface for Environmental Planning Issues	Seattle	Whitfield
August 17-21	HQ Interface for Environmental Planning Issues	Richland	Whitfield
TBD	System Functional Analysis Review	Richland	Petrie
<u>Coordinating Group Meetings</u>			
June 23-24	Materials Steering Committee meeting	HQ	LaMont
June 29-July 1	Rock Mechanics Symposium	Tucson	Dahlem
July 7-8	Materials Steering Committee	HQ	LaMont
July 21-23	ISCG	Seattle	Whitfield
<u>State/Indian/Public Interaction</u>			
June 22-23	Briefing for State on Waste Shipments from Hanford to WIPP	Olympia	Powell
June 26	Meeting with Terry Husseman, State of Washington	Richland	Anttonen
July 29-30	BWIP Quarterly Meeting with the States and Tribes	Richland	Powell
<u>Internal Project Meetings -</u>			
July 14-15	Rock Creep Workshop	Richland	Dahlem

Next week
LaMont

wrote pubing

Hydro took group mtg. This week.

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Contact</u>
<u>NRC Interactions</u>			
June 30-July 1	NRC Annual Meeting on HLW Program with States and Tribes	Washington DC	Powell
July 21-23	Geochemistry Data Examination	Richland	Furman
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TBD	BWIP NRC meeting to discuss SCP Issues, Hierarchy, Resolution Strategy, Data Needs	HQ	Mecca/Dahlem
TBD	Geology Data Examination	Richland	Furman
<u>Other</u>			
June 15-19	Reporting and Control Training	Denver	Boileau
June 29	Testimony before the U. S. Senate Energy and Natural Resources Committee	Washington	Anttonen
<u>Visits</u>			
June 20-27	Upward Bound	Richland	Turner