



*To: John Linehan / Paul Hildenbrand / Linehan / Hildenbrand*  
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 HLOB  
 Department of Energy 101  
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Richland Operations Office  
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June 87, 1987 11:51

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

**BWIP WEEKLY HIGHLIGHTS REPORT**

Enclosed for your information is the BWIP Weekly Highlights Report for the week ending June 4, 1987.

*[Signature]*  
 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
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- W. Hanson, GAO
- Latir Energy Consultants

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BASALT WASTE ISOLATION PROJECT  
WEEKLY HIGHLIGHTS REPORT  
JUNE 4, 1987

I. Critical Item Status

Basalt Waste Isolation Division (O. L. Olson)

General Restart

DOE-RL and Rockwell are nearing completion of open items requiring closure for the partial lift of the Stop Work Order (SWO). On June 4, 1987, a briefing for DOE-HQ, NRC, States, and Tribes was held relative to project status and actions for lifting the SWO. Open items are scheduled to be completed the week of June 8 and a partial lift of the SWO will be issued. This partial lift will authorize unrestricted conduct of Quality Level 3 activities and controlled conduct of Quality Level 1 and 2 activities. Quality Level 1 and 2 activities will require DOE approval of Work Initiation Packages, including the technical implementing documents, and the work will be closely audited and surveilled during its conduct.

Site Characterization Plan

Action plans resulting from the comment resolution meetings at DOE-HQ during April 21-May 15 continue to be implemented and affected chapter and section rewrites are progressing. Comments resulting from the Licensing Assurance Review (LAR) conducted during the week of June 1 at Richland are being reviewed and their impact assessed as reflected in the SCP Completion Status Summary.

A draft of Issue 1.8 was sent to DOE-HQ for concurrence review.

Quality Systems Division (R. P. Saget)

As reported previously, HQ prompt action regarding BWIP's request for NRC positions to be taken on the OR's monthly reports is vital for expeditious resolution of these issues.

II. Significant Accomplishments/Information Items

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

Support Services Contractor (E. W. Higgins)

Transition of the support contractor, MAC, to MACTEC is on schedule. MACTEC has filled 49 of the identified 75 positions. Interviews with an additional 11 personnel are in process.

Basalt Waste Isolation Division (O. L. Olson)

Licensing, Environmental, and Safety Branch (J. E. Mecca)

S. C. Whitfield (BWI), Dr. David Rice (consultant under contract), and PNL conducted a reconnaissance-level archaeological survey of Gable Butte on May 29. A number of new archaeological sites (mainly rock cairns) were identified.

A concurrence review continued on the second draft of the ERCP. The document is scheduled to be forwarded to DOE-HQ on June 8.

A letter was sent out to all major project participants regarding the work force survey, which will be conducted semi-annually for all BWIP employees and administered at the time of hire to all new BWIP employees. Major project participants were informed that, although Battelle HARC, the DOE socioeconomic contractor, will furnish the actual survey forms and provide technical suggestions for administering the survey, it will be the responsibility of each of the participants to administer and collect the survey forms.

The LAR Team Leaders met with the Rockwell SCP authors on May 26-28 in Richland to discuss/disposition their most significant comments resulting from their review of the SCP. DOE-HQ also attended these meetings. Seven topical meetings were conducted covering Geoen지니어ing and Repository Design, Seals Design, Hydrology, Geology, Climatology, Geochemistry, and Waste Package. With regard to geochemistry, the principal criterion was the absence of an integrating theme, but the reviewers did not have access to Section 8.2, which is intended to provide an integrating discussion of the SCP activities and issues. To respond to the criticism, discussion will be added to 8.3.1.4 to provide a "road map" that relates the discussion of 8.3.1.4 to the other parts of the SCP that address geochemistry issues. A large percentage of the LAR comments were dispositioned during the meetings. A large percentage were also duplicates of HQ comments on the SCP. DOE-RL is developing a plan of action for incorporating the LAR findings into the SCP.

Geoscience and Technology Branch (D. H. Dahlem)

**Geology:** A draft of the Earthquake Seismology Study Plan was completed and comment resolution meetings were held on the Intraflow Structure and Stratigraphy Study Plans.

**Exploratory Shaft Test:** An external review of the Mechanical Properties Definition Study Plan was completed.

An analysis is being conducted by the Repository Design and Development Group which examines the impact of new boreholes within a prescribed distance from the border of the repository underground layout area.

A consistency review meeting of SCP Chapters 2 and 6 and Section 8.3.2.4 was held with Charlie Voss from PNL/DOE-HQ on May 26 in Richland.

Performance Assessment is revising strategies in response to recent DOE-HQ and Licensing Assurance Reviews.

III. Upcoming Events

See attached pages.

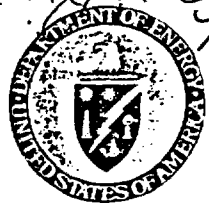
BWIP UPCOMING EVENTS  
JUNE 4, 1987

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Contact</u>
<u>HQ Meetings</u>			
June 8-12	Environmental Planning Working Group (EPWG)	Las Vegas	Whitfield
June 9-10	DOE-HQ Onsite Technical Review	Richland	Whitfield
June 16	Pre-Solicitation Conference (SEDM Contract)	HQ	Holten
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
TBD	BWIP Quarterly Program Review	Richland	Anttonen
<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 15-16	ISCG	TBD	Whitfield
<u>State/Indian/Public Interaction</u>			
June 5-6	Cultural Exchange with the Nez Perce Tribe	Lapwai, ID	Kale/Anttonen/ Powell
June 11	C&C Meeting - Nez Perce Tribe	Lewiston	Anttonen/Olson/ Powell
June 26	Meeting with Terry Husseman, State of Washington	Richland	Anttonen

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Contact</u>
July 22-23	BWIP Quarterly Meeting with the States and Tribes	Richland	Powell
<u>Internal Project Meetings -</u>			
July 14-15	Rock Creep Workshop	Richland	Dahlem
<u>NRC Interactions</u>			
June 23-24	Geology Data Examination	Richland	Furman
TBD	Repository Design (workshop)	Richland	Kovacs
TBD	BWIP NRC meeting to discuss SCP Issues, Hierarchy, Resolution Strategy, Data Needs	HQ	Mecca/Dahlem
<u>Other</u>			
June 9	NAS - Rock Mechanics Review of Premises	Boston	Dahlem
June 15-19	Reporting and Control Training	Denver	Boileau
June 25	Testimony before Sen. Bennett Johnston's Subcommittee	Washington	Anttonen
<u>Visits</u>			
June 17	Korean Vice Minister	Richland	Olson
June 20-27	Upward Bound	Richland	Turner

*Linahan/Hildenbrand*

20. *John Linahan / Paul Hildenbrand*



*MS 62355*

*HLOB*

**Department of Energy**

Richland Operations Office  
P.O. Box 550  
Richland, Washington 99352

May 21, 1987

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

**BWIP WEEKLY HIGHLIGHTS REPORT**

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

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BASALT WASTE ISOLATION PROJECT  
WEEKLY HIGHLIGHTS REPORT  
MAY 21, 1987

I. Critical Item Status

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

RL is awaiting HQ approval of the BWI Project Management Plan. Immediate approval is required to support partial lifting of the stop work order.

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

Site Characterization Plan

Comment Resolution meetings on the following chapter/sections were completed on May 15, 1987.

- Chapter 7 - Waste Package
- Section 8.2.2 - Issues (partial)
  - Issue 2.6
  - Issue 4.3
- Section 8.3.4 - Waste Package

Incorporation of comments from earlier reviews is continuing for the following chapter/sections:

- Chapter 6 - Conceptual Design
- Section 8.2 - Issues (partial)
- 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 8.3.1.6 - Resource Potential
- Section 8.3.2 - Resource Program
- Section 8.3.3 - Seals

A revised schedule based on projections from the "Action Plans" (including Waste Package) was developed as part of the review meetings held in Washington, DC, during the four-week period ending May 15. The scope addition and level of detail requested by the reviewers will require a substantial commitment of BWIP resources and time to complete. This revised schedule projection extends the Assembled Review meeting initiation to September 7, 1987.



DOE-HQ rejected the possibility of starting the Assembled Review meetings in September 1987 and proposed a staggered Assembled Review with meetings beginning on August 3, 1987, as individual sections of the SCP become available (assumes a two-week review period prior to the Comment Resolution meeting).

<u>08/03/87</u>	<u>08/10/87</u>	<u>08/17/87</u>
Chapter 2	Chapter 1	Chapter 7
Chapter 3	Chapter 4	Section 8.2.2 (Waste Package)
Chapter 5	Section 8.2.1	Section 8.3.4
Chapter 6	Section 8.3.1.2	
Section 8.3.1.3	Section 8.3.1.4	
Section 8.3.1.5	Section 8.3.5	
Section 8.3.2		
Section 8.2.2 (except Waste Package)		

- An analysis of public comments received from the 1983 Site Nomination Hearings has been initiated. The purpose of this analysis is to ensure that all comments have been considered and accurately reflected in a new matrix to be included in Section 8.2.1 of the Site Characterization Plan (SCP).

The technical approach to resolving over 1800 comments on the BWIP waste package sections of the draft SCP Rev B were agreed upon at the SCP workshop at HQ on May 4-15, 1987. As of May 20, BWI has not received official guidance on the new proposed design criteria for Substantially Complete Containment; the delay in receipt of guidance on this subject could potentially impact revision of the BWIP strategy for Issue 1.4 in Section 8.2 of the SCP.

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

HQ prompt action regarding BWIP's request for NRC positions to be taken on the OR's monthly reports is vital for expeditious resolution of these issues.

II. Significant Accomplishments/Information Items

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

Licensing/Environmental/Safety Branch (J. E. Mecca)

The Licensing Assurance Review (LAR) team leaders met in Salt Lake City on May 13-14 to consolidate, integrate, and prioritize the comments resulting from the team reviews of the SCP chapters/sections. Significant comments from the LAR are being transmitted to DOE-RL during the week of May 18. On May 26-28,

the LAR team leaders will meet with the Rockwell SCP authors to discuss/disposition the most significant comments from the review. DOE-HQ will also attend these meetings.

Engineering and Construction Branch (R. A. Holten)

The Bureau of Mines (BOM) review of the ESF Design Basis Study has been completed and is currently enroute to DOE-RL. Participant comments have been incorporated and RCRs are in the sign-off process.

A checklist for the ESF SDR Work Initiation Package has been prepared and issued to the Readiness Review Board for review. Approval of the checklist is expected at a Readiness Review Board meeting scheduled for May 21.

A draft transition plan for a KE/PB office in the Tri-Cities has been received and is currently being reviewed by Rockwell and DOE-RL. KE/PB has also submitted a draft of the final Study 11 report which is also under review.

Comments from Rockwell BWIP on the PNL report, "The Impacts of Spent Fuel Age and Exposure on Waste Package and Repository Thermal Loads," were informally provided to OGR. The formal response from BWI is anticipated to be submitted within two weeks.

Systems documents in review at DOE-RL include:

BMGDS Description Document  
Basalt Repository Preliminary Q-List  
Configuration Management Plan

Geoscience and Technology Branch (D. H. Dahlem)

Four Study Plans are in the review cycle by Rockwell: Thermal Properties, In Situ Stress, Opening Performance, and Mechanical Properties.

The technical review meeting for the Site Groundwater Study Plan was held and the ES Grout Development Study Plan was reviewed.

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

QSD is continuing to update DOE-RL's QA 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.

The final report of DOE audit of KE/PB is in preparation.

A number of surveillances have been planned during the month of May. These will be of the ongoing tasks performed by Rockwell, Westinghouse, and DOE-RL.

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.

Review is ongoing based on the checklist established for partial lifting of the general stop work on Rockwell activities. To date, 84 discrepancies have been identified by the Readiness Review Team. These discrepancies cover the breadth of all management control systems being emplaced by Rockwell. Of the 84 discrepancies, 54 have thus far been resolved.

III. Upcoming Events

See attached pages.

BWIP UPCOMING EVENTS  
MAY 21, 1987

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Contact</u>
<u>HQ Meetings</u>			
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June 9-10	DOE-HQ Onsite Technical Review	Richland	Whitfield
June 25	BWIP Quarterly Program Review	Richland	Anttonen
July 7-9	Documentation and Data Management	Richland	Petric
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 15-16	ISCG	TBD	Whitfield
<u>State/Indian/Public Interaction</u>			
May 19-26	Basalt Meeting/GSA	Hilo	Dahlem
May 20-21	Cultural Exchange with Confederated Tribes of the Umatilla Indian Reservation	Pendleton	Anttonen/Kale/Powell
May 22-23	Cultural Exchange with Yakima Indian Nation	Yakima	Anttonen/Kale/Powell
May 25	Staff Members of the Senate Energy and Natural Resources Committee	Richland	Anttonen
May 27-28	States/Indian Tribes Quarterly Meeting	Las Vegas	Anttonen/Powell

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Contact</u>
June 4	Restart Briefing for HQ, NRC, States, and affected Tribes	Richland	Saget
June 11	C&C Meeting - Nez Perce Tribe	Lewiston	Anttonen/Olson/ Powell
June 26	Meeting with Terry Husseman, State of Washington	Richland	Anttonen
July 22-23	BWIP Quarterly Meeting with the States and Tribes	Richland	Powell

Internal Project Meetings - None

NRC Interactions

June 23-26	Geology Data Review	Richland	Dahlem/Mecca
TBD	Repository Design (workshop)	Richland	Kovacs
TBD	BWIP NRC meeting to discuss SCP Issues, Hierarchy, Resolution Strategy, Data Needs	HQ	Mecca/Dahlem

Other

June 15-19	Reporting and Control Training	Denver	Boileau
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*John Linhan / Paul Hildenbrand*  
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**Department of Energy**  
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MAY 14, 1987

I. Critical Item Status

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RL is awaiting HQ approval of the BWI Project Management Plan. Immediate approval is required to support partial lifting of the stop work order.

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

As reported in our May 7, 1987, weekly highlights report, Bob Cook, NRC, noted in his latest monthly report the deferment of Rockwell's "committed to training session" regarding NRC Agreements and Appendix 7. RL still has not received HQ final input to the training materials, which is required prior to going forward.

Licensing/Environmental/Safety Branch (J. E. Mecca)

Regarding the Site Characterization Plan (SCP), comment resolution meetings on the following sections were completed by May 7, 1987:

- Section 8.2
- Issue 1.10
- Issue 1.11
- Issue 2.6
- Issue 2.7
- Issue 4.2
- Issue 4.3
- Issue 4.4
- Section 8.3.2 - Repository

Discussions on Waste Package Issues 1.4 and 1.5, Section 8.3.4, and Chapter 7 will continue through the week of May 11.

Some changes to the waste package strategy have been made and could have an impact on the SCP schedule. Assessment of the changes will be made at the conclusion of this week's meetings.

Two major unresolved comments resulted from the SCP comment resolution meeting on Chapters 6 and 7, and Sections 8.3.2 and 8.3.4 during the week of May 4, 1987. The unresolved comments relate to (1) the BWIP Waste Package Strategy and Associated Study Plans, (2) the use of average rock mass strength in calculation for Repository Conceptual Design Development. Dialogue between HQ and Project Office principals to resolve the issues is continuing.

Geoscience and Technology Branch (D. H. Dahlem)

A Comment Resolution meeting on the Site Groundwater Study Plan was held on May 11. Significant work is required for the plan to meet its objectives. Rockwell is evaluating time and manpower requirements.

Rockwell staff, with Golder Associates, has written a draft plan to develop purposes and acceptance criteria for elements of the pre-ES hydrology testing program, especially decision points identified in the Option Paper. The plan is in Rockwell internal review, expected to be forwarded to DOE-RL by next week. The draft plan provides deliverables, based on a CASZ groundwater model, in August 1987. Rockwell has been tasked with providing an early response for the June NRC meeting to discuss readiness for drilling DC-24 and DC-25.

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

Reevaluations by the Readiness Restart Team (RRT) are continuing for partial lifting of the general stop work on Rockwell activities. Of the 82 discrepancies covering the breadth of all management control systems being emplaced by Rockwell, 50 have been resolved. A draft RRT report is scheduled for May 15.

II. Significant Accomplishments/Information Items

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

BWIP presented a display as part of the University of Washington Nuclear Engineering Department's Open House. Approximately 300 local high school and university students and the public visited the exhibits. Positive feedback was received from the visitors and the University.

RL attended the HQ meeting in Salt Lake City regarding proposed rule making on financial assistance. There were no major issues; however, the states did reject DOE's definition of "Site" as it pertains to PETT.

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

Licensing/Environmental/Safety Branch (J. E. Mecca)

The team leaders for the Licensing Assurance Review (LAR) met in Salt Lake City on May 13-14 to discuss their comments on SCP handling of cross-link issues, e.g., issues due to interactions between geology, geoen지니어ing and design or between hydrology and geochemistry. In addition, the LAR determined the priorities for the LAR comments and discussed the comment transmittal letter.



A meeting with the Washington State Department of Ecology concerning water rights for the BWI Project was rescheduled for early June 1987.

A meeting was set up with HQ for June 9-10, 1987, at Richland to discuss progress on preparation of draft Study Plans.

Engineering and Construction Branch (R. A. Holten)

Readiness Review Team for Work Initiation Package for preparation of the ESF-SSDR has been approved by the Readiness Review Board. Checklist has been prepared and is scheduled for submittal to the Board for approval at a meeting on May 13, 1987.

A review of the ESF Design Basis Study (DBS) is proceeding on schedule. A technical review meeting to resolve participant's comments was held on May 8, 1987, and the DBS is scheduled for completion in mid-June.

Preparation of a final report and a comment resolution for Study 11 are currently in progress. Completion of Study 11 is scheduled for August 1, 1987.

RL and Rockwell are meeting with KE/PB to review a plan for moving KE/PB staff to Richland. The plan would move people in two phases: one for ESF work and another later move for ACD should RL determine that ACD work will be performed here.

M-K and Rockwell are evaluating a proposed \$4M cut in ESF Construction Management budget over FY 1988 and 1989. These cuts, if sustained, will definitely impact the ESF and overall BWIP schedule.

At the request of C. Brooks, OGR was informally provided the following information with respect to document submittals to OGR.

System Requirements Document 11/30/87  
Waste Package Design Requirements 11/25/87  
Repository Design Requirements 1/29/88

Comments were prepared on the PNL Report, "ALARA Analysis of a Transportation System for Commercial Spent Fuel," April 1987. This effort is in preparation for the Peer Review Meeting May 19-20 in Chicago.

Geoscience and Technology Branch (D. H. Dahlem)

Problems persist with QA in placement of University subcontractors. Specifically, this week work is focused on upgrading technical, training, and QA procedures to place a services contract at Washington

State University to provide X-ray fluorescence support for the BWIP Laboratory Department.

The BWIP QA recently audited procedures used by Krueger Enterprises, Inc., and found sufficient deficiencies to warrant stopping work on BWIP samples. As a result, Krueger may be unable, or unwilling, to analyze the stable isotopes samples that are in their laboratory. A decision is being formulated as to whether to expend the necessary resources to bring Krueger into compliance or to identify and qualify a new supplier.

DOE-RL controlled milestones for far-field radionuclide sorption characterization and geochemical modeling are forecast to be delayed. This is a progress report that will contribute to the field-scale radionuclide reactivity tests. Resource priorities for completion of the Site Characterization Program and study-plans have necessitated this change. Loss of personnel is also a contributing factor. New forecast dates will be provided during the May reporting period.

A meeting with the NRC/State/Affected Tribes was held from May 11-15 concerning Hanford Site Drilling Data. The meeting went well and there were no issues.

The Mineralogy/Petrology Characterization Study Plan and draft versions of the Geologic Deformation and Fracture Characteristics Study Plans were completed.

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

An audit of the Quality Systems Division was conducted by the RL ES&H Division during the period May 4-6. Six findings were identified, none of them significant.

### III. Upcoming Events

See attached pages.

BWIP UPCOMING EVENTS  
MAY 14, 1987

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Contact</u>
<u>HQ Meetings</u>			
May 19-20	Transportation System ALARA	Chicago	Petrie
May 20-21	EMMP/SMMP Comment Resolution Meetings	HQ	Whitfield
June 8-12	Environmental Planning Working Group (EPWG)	Las Vegas	Whitfield
June 25	BWIP Quarterly Program Review	Richland	Anttonen
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June 29-July 1	Rock Mechanics Symposium	Tucson	Dahlem
<u>State/Indian/Public Interaction</u>			
May 14	State of Washington - PETT	Richland	Powell
May 14-15	States/Tribes - Grant Workshop	Richland	Powell
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May 20-21	Cultural Exchange with Confederated Tribes of the Umatilla Indian Reservation	Pendleton	Anttonen/Kale/ Powell
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June 4	Restart Briefing for HQ, NRC, States, and affected Tribes	Richland	Saget
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Internal Project Meetings - None

NRC Interactions

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