

# **CNWRA** *A center of excellence in earth sciences and engineering*

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November 6, 2002  
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Account No. 20.06002.01.011

U.S. Nuclear Regulatory Commission  
Attn: Ms. Deborah A. DeMarco  
Office of Nuclear Material Safety and Safeguards  
Program Management, Policy Development and Analysis Staff  
Mail Stop 8-A23  
Washington, DC 20555

Subject: CNWRA Annual Review, December 3–5, 2002, Final Agenda

Dear Ms. DeMarco:

Enclosed is the final agenda for the CNWRA Annual Review for your distribution and use. Your comments have been incorporated.

Please call me if you have any questions. We are looking forward to hosting this review in December.

Sincerely yours,

  
Budhi Sagar  
Technical Director

BS/lg  
Enclosure

cc: B. Meehan	B. Brach	E. Leeds	A. Bradford
M. Virgilio	C. Trottier	C. Glenn	A. Coggins
W. Reamer	L. Camper	G. Gnugnoli	W. Patrick
J. Greeves	D. Hassell	C. Miller	CNWRA Directors
M. Federline	S. Stewart	D. Riffle	CNWRA Element Managers
J. Linehan	R. Baum	M. Young	T. Nagy, SwRI Contracts
J. Schlueter	R. Zimmerman	D. Dambly	

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Washington Office • Twinbrook Metro Plaza #210  
12300 Twinbrook Parkway • Rockville, Maryland 20852-1606

Final AGENDA  
CNWRA ANNUAL PROGRAM REVIEW  
SwRI Building 189  
Video-Conference Center  
San Antonio, Texas  
December 3-5, 2002

**OBJECTIVES OF REVIEW:** The two and a half day review in December will focus on management aspects of the entire NRC Program at the CNWRA (HLW, UR, WVDP, Decommissioning Project, SFPO, and any other projects ongoing at the time). An overview and presentations on subjects of general interest to all NRC managers will be given the first morning. These will be followed by presentations on each of the components of work the CNWRA is supporting outside the repository program. The second day and the morning of the third day will comprise presentations on each of the key technical issues (KTIs) and status of the Yucca Mountain Review Plan from the HLW repository program. Note that we proposed having Principal Investigators and KTI Leads make most of the presentations to facilitate direct interactions with the NRC management team. Please note that the entire review will include a video-conference connection between San Antonio and NRC headquarters.

The objective of all presentations is to provide NRC management with an overall picture of technical, programmatic, and management aspects of all of the projects, without getting into detailed discussions of technical aspects. The subtopics listed under each major topic of the agenda define the scope of the associated presentations.

**FINAL AGENDA FOR DECEMBER 3–5, 2002**  
**CNWRA ANNUAL PROGRAM REVIEW MEETING**  
 [Note: All items are in Central Standard Time]

**December 3, 2002**

<b><u>TIME</u></b>	<b><u>TOPIC</u></b>	
8:00 am	Opening Remarks	M. Virgilio/M. Federline W. Patrick
	– Meeting Objectives – Overview of Meeting	
8:20 am	Summary of CNWRA Five Year Strategic Plan	B. Sagar
	– Should CNWRA Focus Only on LA Review?	
8:50 am	Status of Work for Others	N. Sridhar
	– Summary of Work for Others for FY2002 – Future Outlook	
9:15 am	Funding, Organization, and Staffing of CNWRA	W. Patrick
	– Funding Outlook – CNWRA Organization – Current and Projected Staffing and Skill Mix – Staff at Risk?	
10:00 am	Break	All
10:15 am	Spent Fuel Project Office Projects—NRC Overview	C. Miller
	– NRC Views on Program Management – Critical Program Components – Future Outlook	
10:30 am	Spent Fuel Project Office Projects—CNWRA Overview	A.Chowdhury
	– Key Regulatory Issues – Scope, Schedule, and Cost for FY2002 – Private Fuel Storage Facility – INEEL ISFSI-2 – Diablo Canyon ISFSI – Baltimore Tunnel Fire – Program Management and Lessons Learned – Program Plan for FY2003	

**FINAL AGENDA FOR DECEMBER 3-5, 2002**  
**CNWRA ANNUAL PROGRAM REVIEW MEETING (Cont'd)**  
[Note: All items are in Central Standard Time]

**December 3, 2002**

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|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 11:00 am   | Private Fuel Storage Facility Project—CNWRA Overview                                                                                                                                                                                                                                                        | A. Ghosh      |
|            | <ul style="list-style-type: none"><li>– Key Regulatory Issues</li><li>– Scope, Schedule, and Cost for FY2002</li><li>– Response to Contentions</li><li>– Development of SER</li><li>– Participation in Hearings</li><li>– Accomplishments and Lessons Learned</li><li>– Work Plans for FY2003</li></ul>     |               |
| 11:30 am   | INEEL ISFSI-2 Project—CNWRA Overview                                                                                                                                                                                                                                                                        | D. Gute       |
|            | <ul style="list-style-type: none"><li>– Key Regulatory Issues</li><li>– Scope, Schedule, and Cost for FY2002</li><li>– Fuel Handling Operations</li><li>– Request for Additional Information</li><li>– Accomplishments and Lessons Learned</li><li>– Work Plans for FY2003</li></ul>                        |               |
| 12:00 noon | Lunch                                                                                                                                                                                                                                                                                                       | All           |
| 1:00 pm    | Diablo Canyon ISFSI Project—CNWRA Overview                                                                                                                                                                                                                                                                  | J. Stamatakos |
|            | <ul style="list-style-type: none"><li>– Key Regulatory Issues</li><li>– Scope, Schedule, and Cost for FY2002</li><li>– Slope Stability</li><li>– Cask Anchorage Design</li><li>– Request for Additional Information</li><li>– Accomplishments and Lessons Learned</li><li>– Work Plans for FY2003</li></ul> |               |
| 1:30 pm    | Mixed Oxide Fuel Project—NRC Overview                                                                                                                                                                                                                                                                       | E. Leeds      |
|            | <ul style="list-style-type: none"><li>– NRC Views on Program Management</li><li>– Critical Program Components</li><li>– Future Outlook</li></ul>                                                                                                                                                            |               |

**FINAL AGENDA FOR DECEMBER 3–5, 2002**  
**CNWRA ANNUAL PROGRAM REVIEW MEETING (Cont'd)**  
[Note: All items are in Central Standard Time]

**December 3, 2002**

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|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 1:45 pm | Mixed Oxide Fuel Project—CNWRA Overview                                                                                                                                                                                                                                                                                                                                                     | J. Stamatakos |
|         | <ul style="list-style-type: none"><li>– Key Regulatory Issues</li><li>– Scope, Schedule, and Cost for FY2002</li><li>– Seismic, Structural, and Tornado Hazards</li><li>– Geotechnical Stability</li><li>– Accomplishments</li><li>– Work Plans for FY2003</li></ul>                                                                                                                        |               |
| 2:15 pm | Decommissioning Projects—NRC Overview                                                                                                                                                                                                                                                                                                                                                       | J. Shepherd   |
|         | <ul style="list-style-type: none"><li>– NRC Views on Program Management</li><li>– Critical Program Components</li><li>– Roles of NRC and CNWRA Staff</li><li>– Future Outlook</li></ul>                                                                                                                                                                                                     |               |
| 2:30 pm | Decommissioning Project Program—CNWRA Overview                                                                                                                                                                                                                                                                                                                                              | J. Russell    |
|         | <ul style="list-style-type: none"><li>– Key Regulatory Issues</li><li>– Scope, Schedule, and Cost for FY2002</li><li>– IAEA-WASCC Document Review</li><li>– Analysis of Soil Reuse Scenario</li><li>– INEEL Tank Closure Incidental Waste</li><li>– Participation in Multi-Agency Working Groups</li><li>– Program Management and Lessons Learned</li><li>– Work Plans for FY2003</li></ul> |               |
| 3:15 pm | Break                                                                                                                                                                                                                                                                                                                                                                                       | All           |
| 3:30 pm | West Valley Demonstration Project—NRC Overview                                                                                                                                                                                                                                                                                                                                              | C. Glenn      |
|         | <ul style="list-style-type: none"><li>– NRC Views on Program Management</li><li>– Program Overview and Expectations</li><li>– Future Outlook</li></ul>                                                                                                                                                                                                                                      |               |

**FINAL AGENDA FOR DECEMBER 3-5, 2002**  
**CNWRA ANNUAL PROGRAM REVIEW MEETING (Cont'd)**  
[Note: All items are in Central Standard Time]

**December 3, 2002**

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|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 3:45 pm | West Valley Demonstration Project—CNWRA Overview                                                                                                                                                                                                                                                                                                            | D. Farrell  |
|         | <ul style="list-style-type: none"><li>– Key Regulatory Issues</li><li>– Scope, Schedule, and Cost for FY2002</li><li>– Review of DOE Documents: Approach and Accomplishments</li><li>– Development of a GIS Tool for Environmental Review</li><li>– Modeling of Long-Term Erosion Rates</li><li>– Work Plans for FY2003</li></ul>                           |             |
| 4:15 pm | Environmental Reviews and Guidance Development—<br>NRC Overview                                                                                                                                                                                                                                                                                             | A. Bradford |
|         | <ul style="list-style-type: none"><li>– Program Overview and Expectations</li><li>– Future Outlook</li></ul>                                                                                                                                                                                                                                                |             |
| 4:30 pm | Environmental Reviews and Guidance Development—<br>CNWRA Overview                                                                                                                                                                                                                                                                                           | D. Turner   |
|         | <ul style="list-style-type: none"><li>– Key Regulatory Issues</li><li>– Scope, Schedule, and Cost for FY2002</li><li>– EIS for West Valley</li><li>– EIS for Mixed Oxide Fuel Fabrication Facility</li><li>– EIS for NFS Tank Storage and Oxide Conversion</li><li>– Incidental Waste Methodology for West Valley</li><li>– Work Plans for FY2003</li></ul> |             |
| 5:10 pm | Uranium Recovery Project—CNWRA Overview                                                                                                                                                                                                                                                                                                                     | P. Mackin   |
|         | <ul style="list-style-type: none"><li>– Key Regulatory Issues</li><li>– Scope, Schedule, and Cost for FY2002</li><li>– Update of Regulatory Guidance</li><li>– Work Plans for FY2003</li></ul>                                                                                                                                                              |             |
| 5:20 pm | Adjourn                                                                                                                                                                                                                                                                                                                                                     | All         |

**FINAL AGENDA FOR DECEMBER 3-5, 2002  
CNWRA ANNUAL PROGRAM REVIEW MEETING (Cont'd)**  
[Note: All items are in Central Standard Time]

**December 4, 2002**

<b><u>TIME</u></b>	<b><u>TOPIC</u></b>	
8:00 am	Repository Program Outlook, Budgets, and Priorities – NRC View on Program management – FY2002 Accomplishments – FY2003 Program Budget and Planned Activities – Transition to LA Review – Program Priorities – Future Outlook With Respect to Technical Work and Staffing	J. Schlueter
8:40 am	Overview of Repository Work at CNWRA – Status of Issue Resolution – Technical Accomplishments of FY2002 – Risk Significance of Key Technical Issues – Integration of KTI Work into Major NRC Regulatory Products – Summary of Work Plan for FY2003 – Problems or Concerns – Summary of Publications, Presentations, and Distinctions	B. Sagar
9:40 am	Activities Related to Licensing Support Network – Accomplishments in FY 2002 – Problems or Concerns – Summary of Work Plans doe FY2003	P. Mackin
10:00 am	Break	All
10:15 am	Activities Related to Performance Confirmation – Summary of DOE Activities – Accomplishments in FY2002 – Summary of Work Plans in FY2003 – Problems or Concerns	E. Percy
10:30 am	Yucca Mountain Review Plan – Approach and Accomplishment in FY2002 – Summary of Public Comments – Plans for Revision 2 in FY2003 – Problems or Concerns	P. Mackin

**FINAL AGENDA FOR DECEMBER 3–5, 2002  
CNWRA ANNUAL PROGRAM REVIEW MEETING (Cont'd)**  
[Note: All items are in Central Standard Time]

December 4, 2002

<u>TIME</u>	<u>TOPIC</u>	
11:00 am	Public Outreach	M. Smith
	<ul style="list-style-type: none"> <li>– Overview of FY2002 Work and Accomplishments</li> <li>– Relations of Work to NRC Mission</li> <li>– Problems or Concerns</li> <li>– Work Plan for FY2003</li> <li>– Summary of Publications, Presentations, and Distinctions</li> </ul>	
11:20 am	Risk Insights	R. Benke
	<ul style="list-style-type: none"> <li>– What are the Insights?</li> <li>– What is Important?</li> <li>– What are the Results From Sensitivity Analyses?</li> <li>– How are We Going to Use the Results?</li> <li>– Any Potential Surprise?</li> </ul>	
12:00 noon	Lunch	All
1:15 pm	Total-System Performance Assessment & Integration KTI	S. Mohanty
	<ul style="list-style-type: none"> <li>– Status of Sub-Issue Resolution</li> <li>– What Does the DOE Need to Provide Before LA: Use of Risk Information?</li> <li>– What Do We Need to Do Before LA: Use of Risk Information?</li> <li>– Any Potential Surprise?</li> <li>– Overview of FY2002 Work and Accomplishments</li> <li>– Relations of Work to NRC Mission</li> <li>– Problems or Concerns</li> <li>– Work Plan for FY2003</li> <li>– Summary of Publications, Presentations, and Distinctions</li> </ul>	
1:45 pm	Evolution of Near-Field Environment KTI	R. Pabalan
	<ul style="list-style-type: none"> <li>– Status of Sub-Issue Resolution</li> <li>– What Does the DOE Need to Provide Before LA: Use of Risk Information?</li> <li>– What Do We Need to Do Before LA: Use of Risk Information?</li> <li>– Any Potential Surprise?</li> <li>– Overview of FY2002 Work and Accomplishments</li> <li>– Relations of Work to NRC Mission</li> <li>– Problems or Concerns</li> <li>– Work Plan for FY2003</li> <li>– Summary of Publications, Presentations, and Distinctions</li> </ul>	

**FINAL AGENDA FOR DECEMBER 3-5, 2002  
CNWRA ANNUAL PROGRAM REVIEW MEETING (Cont'd)**  
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December 4, 2002

<u>TIME</u>	<u>TOPIC</u>	
2:30 pm	Thermal Effects on Flow KTI	R. Fedors
	<ul style="list-style-type: none"><li>- Status of Sub-Issue Resolution</li><li>- What Does the DOE Need to Provide Before LA: Use of Risk Information?</li><li>- What Do We Need to Do Before LA: Use of Risk Information?</li><li>- Any Potential Surprise?</li><li>- Overview of FY2002 Work and Accomplishments</li><li>- Relations of Work to NRC Mission</li><li>- Problems or Concerns</li><li>- Work Plan for FY2003</li><li>- Summary of Publications, Presentations, and Distinctions</li></ul>	
3:00 pm	Break	All
3:15 pm	Container Life and Source Term KTI	G. Cragnolino
	<ul style="list-style-type: none"><li>- Status of Sub-Issue Resolution</li><li>- What Does the DOE Need to Provide Before LA: Use of Risk Information?</li><li>- What Do We Need to Do Before LA: Use of Risk Information?</li><li>- Any Potential Surprise?</li><li>- Overview of FY2002 Work and Accomplishments</li><li>- Relations of Work to NRC Mission</li><li>- Problems or Concerns</li><li>- Work Plan for FY2003</li><li>- Summary of Publications, Presentations, and Distinctions</li></ul>	
4:00 pm	Igneous Activity KTI	B. Hill
	<ul style="list-style-type: none"><li>- Status of Sub-Issue Resolution</li><li>- What Does the DOE Need to Provide Before LA: Use of Risk Information?</li><li>- What Do We Need to Do Before LA: Use of Risk Information?</li><li>- Any Potential Surprise?</li><li>- Overview of FY 2002 Work and Accomplishments</li><li>- Relations of Work to NRC Mission</li><li>- Problems or Concerns</li><li>- Work Plan for FY2003</li><li>- Summary of Publications, Presentations, and Distinctions</li></ul>	

**FINAL AGENDA FOR DECEMBER 3–5, 2002**  
**CNWRA ANNUAL PROGRAM REVIEW MEETING (Cont'd)**  
**[Note: All items are in Central Standard Time]**

**December 4, 2002**

<b><u>TIME</u></b>	<b><u>TOPIC</u></b>	
4:45 pm	Structural Deformation and Seismicity KTI	J. Stamatakos
	<ul style="list-style-type: none"><li>– Status of Sub-Issue Resolution</li><li>– What Does the DOE Need to Provide Before LA: Use of Risk Information?</li><li>– What Do We Need to Do Before LA: Use of Risk Information?</li><li>– Any Potential Surprise?</li><li>– Overview of FY 2002 Work and Accomplishments</li><li>– Relations of Work to NRC Mission</li><li>– Problems or Concerns</li><li>– Work Plan for FY2003</li><li>– Summary of Publications, Presentations, and Distinctions</li></ul>	
5:30 pm	NRC Caucus	NRC Management
7:15 pm	Dinner (no host—SwRI Cafeteria)	All

**FINAL AGENDA FOR DECEMBER 3-5, 2002**  
**CNWRA ANNUAL PROGRAM REVIEW MEETING (Cont'd)**  
**[Note: All items are in Central Standard Time]**

**December 5, 2002**

<b><u>TIME</u></b>	<b><u>TOPIC</u></b>	
8:00 am	Repository Design and Thermo-Mechanical Effects KTI (Post-Closure)	G. Ofoegbu
	<ul style="list-style-type: none"><li>- Status of Sub-Issue Resolution</li><li>- What Does the DOE Need to Provide Before LA: Use of Risk Information?</li><li>- What Do We Need to Do Before LA: Use of Risk Information?</li><li>- Any Potential Surprise?</li><li>- Overview of FY2002 Work and Accomplishments</li><li>- Relations of Work to NRC Mission</li><li>- Problems or Concerns</li><li>- Work Plan for FY2003</li><li>- Summary of Publications, Presentations, and Distinctions</li></ul>	
8:30 am	Repository Design and Thermo-Mechanical Effects KTI (Pre-Closure)	B. Dasgupta
	<ul style="list-style-type: none"><li>- Status of Sub-Issue Resolution</li><li>- What Does the DOE Need to Provide Before LA: Use of Risk Information?</li><li>- What Do We Need to Do Before LA: Use of Risk Information?</li><li>- Any Potential Surprise?</li><li>- Overview of FY 2002 Work and Accomplishments</li><li>- Relations of Work to NRC Mission</li><li>- Problems or Concerns</li><li>- Work Plan for FY2003</li><li>- Summary of Publications, Presentations, and Distinctions</li></ul>	
9:00 am	Unsaturated and Saturated Flow Under Isothermal Conditions KTI	J. Winterle
	<ul style="list-style-type: none"><li>- Status of Sub-Issue Resolution</li><li>- What Does the DOE Need to Provide Before LA: Use of Risk Information?</li><li>- What Do We Need to Do Before LA: Use of Risk Information?</li><li>- Any Potential Surprise?</li><li>- Overview of FY2002 Work and Accomplishments</li><li>- Relations of Work to NRC Mission</li><li>- Problems or Concerns</li><li>- Work Plan for FY2003</li><li>- Summary of Publications, Presentations, and Distinctions</li></ul>	

**FINAL AGENDA FOR DECEMBER 3-5, 2002  
CNWRA ANNUAL PROGRAM REVIEW MEETING (Cont'd)**  
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December 5, 2002

<u>TIME</u>	<u>TOPIC</u>	
9:45 am	Radionuclide Transport KTI	P. Bertetti
	<ul style="list-style-type: none"> <li>– Status of Sub-Issue Resolution</li> <li>– What Does the DOE Need to Provide Before LA: Use of Risk Information?</li> <li>– What Do We Need to Do Before LA: Use of Risk Information?</li> <li>– Any Potential Surprise?</li> <li>– Overview of FY2002 Work and Accomplishments</li> <li>– Relations of Work to NRC Mission</li> <li>– Problems or Concerns</li> <li>– Work Plan for FY2003</li> <li>– Summary of Publications, Presentations, and Distinctions</li> </ul>	
10:30 am	Break	All
10:45 am	Summary of Meeting by CNWRA Management	B. Sagar
11:15 am	NRC Caucus	NRC
11:45 am	Management Discussion and Close Out	NRC/CNWRA
	<ul style="list-style-type: none"> <li>– NRC Summary and Observations</li> <li>– Action Items</li> </ul>	
12:00 noon	Communications Risks and the Hearing Process	D. Dambly
12:45 pm	Adjourn Meeting	All