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CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

CORRECTIVE ACTION REQUEST

CAR No: 2001-05

Associated AR, SR, NCR No: AR2001-02

PART A: DESCRIPTION OF CONDITION ADVERSE TO QUALITY

FY 2000 and FY 2001 surveillance schedules did not meet the objective of twice per year for each technical activity. Most non high-level waste technical activities were not scheduled.

Surveillances performed did not meet schedules: 8 performed of 24 scheduled through July, 2001 in FY 2001, similar level of surveillances performed in FY 2000.

Initiated by: Robert Brient

Date 8/24/2001

PART B: PROPOSED ACTION

Responsible EM: B. Mabrito

Response Due: 9/24/2001

1) **Extent of Condition:** CNWRA surveillance activities were concentrated in the areas where past observations, concerns, and findings had occurred. These concentrated surveillances in areas addressing CQAM concerns were performed in addition to answering audit findings and questions, responding to audit recommendations, changing the CQAM to a NQA-1 document, performing other requested surveillances, addressing QA verification of products, and up-grading objective evidence on Scientific and Engineering Software, prevented surveillance specifically from being performed in the scheduled technical areas. In addition, as found during the audit, the surveillance schedule was directed towards the High Level Waste activities and did not include other CNWRA technical activities. Even though the surveillance schedule did not allow for meeting the objective of providing surveillance in each area twice annually, and did not cover non-HLW tasks, the CNWRA product quality and acceptance rate remained high according to clients.

2) **Root Cause:** The surveillance schedule did not account for providing surveillance activities in each area twice annually, did not contain surveillances in non-High Level Waste areas, and was not updated in a timely manner to show requested surveillances. These schedule issues, along with insufficient QA resources to manage both planned and other event-driven quality activities, adversely impacted surveillance planning and implementation.

3) Remedial Action:

Proposed Completion Date: 11/20/2001

An evaluation was performed on surveillances (attached) which were scheduled, on surveillances performed, and on areas where surveillances and/or audit activities had not been performed in the previous years. Areas not recently audited or not having surveillance activities performed were identified and those evaluated that require immediate attention will be scheduled for surveillance and will have highest priority in the FY2002 surveillance schedule.

4) Corrective Action to Preclude Recurrence:

Proposed Completion Date: 10/12/2001

The highest priority surveillances will be performed first, as noted on the FY2002 Surveillance Schedule which will be distributed by 10/12/2001. Procedure QAP-004, Surveillance, will be revised to more clearly state obtainable goals for surveillance activities without compromising quality. Additional surveillance activities and current surveillance scheduling will be highlighted by QA personnel in weekly management meetings.

Element Manager:

Dennis Malachuk

Date:

9/22/2001

PART C: APPROVAL

Comments/Instructions

WPK

Director of QA:

Wesley Patrick

Date:

9/24/2001

PART D: VERIFICATION OF CORRECTIVE ACTION IMPLEMENTATION

Priority surveillances are now being performed in accordance with the surveillance schedule. QAP-004 Surveillance Control, was revised and distributed in Sept. 2001 and contains more realistic and achievable goals.

Verified by:

Mark R. Shustrom

Date:

12/18/2001

Distribution:

- Original-CNWRA/QA DIRECTOR QA Records
- ELEMENT MANAGERS
- CNWRA Directors
- W. Patrick, CNWRA President
- M. Ehnstrom
- R. Folck

Surveillance areas completed and planned are annotated in the CNWRA Management Minutes.

Surveillance/Audit Evaluation for CAR 2001-05

Project Number	Title	Need For Surveillance	Last Audit or Surveillance	Responsible Person
20.01402	CNWRA Operations Plans	N/A	N/A	H. Garcia
20.01402.331	HLW Operations Plan External QA	Low	A-2001-02	B Mabrito
20.01402.461 & 462	Igneous Activity	Low	A-2001-02	L McKague
20.01402.471 & 472	Structural Deformation And Seismicity	Medium	A-2000-1	J. Stamatakos
20.01402.561	Evolution of the Near Field Environment	High	+	E. Percy
20.01402.562	Evolution of the Near Field Environment	High	+	E. Percy
20.01402.571	Container Life and Source Term	Medium	A-2000-01 S-00-18/01-07	V Jain
20.01402.661	Thermal Effects On Flow	Low	S-01-02	A. Chowdhury
20.01402.671	RDTME	Medium	A-2000-01	A. Chowdhury
20.01402.761	TSPA Tech. Assistance	N/A	N/A	G. Wittmeyer
20.01402.762	TPA Development	Low	A-2000-01/A-2001-02	G. Wittmeyer

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Surveillance/Audit Evaluation for CAR 2001-05

Project Number	Title	Need For Surveillance	Last Audit or Surveillance	Responsible Person
20.01402.771	HLW Regulations Part 63	Low	A-2000-01	G. Wittmeyer
20.01402.773	HLW regulations Part 963	No Assignment	N/A	G. Wittmeyer
20.01402.861	Unsaturated And Saturated Flow Under Isothermal Conditions	Low	A-2001-02	E. Pearcy
20.01402.870	Radionuclide Transport	Medium	A-2000-01	E. Pearcy
20.01402.921	Sufficiency Comments	Low	S-01-08A	P. Mackin
20.01402.941	Public Outreach	N/A	N/A	G. Wittmeyer
20.01402.950	YMRP	Medium	A-2000-01	P. Mackin
20.01403.102	TWRS Ops. Plan	Project Complete	N/A	V. Jain
20.01405.031	CISF	Project Complete	N/A	A. Chowdhury
20.1405.041	PFSF SAR	Low	A-2001-02	A. Chowdhury
20.01405.051	S. Evaluation of ISFSI/INEEL	Low	Proj. Not Started	A. Chowdhury
20.01405.061	S. Evaluation of @Humboldt Bay	Low	Proj. Not Started	A. Chowdhury
20.01405.071	S. Evaluation of @Diablo Canyon	Low	Proj. Not Started	A. Chowdhury
20.01405.081	S. Evaluation of @INEEL	Project Complete	N/A	A. Chowdhury

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Surveillance/Audit Evaluation for CAR 2001-05

Project Number	Title	Need For Surveillance	Last Audit or Surveillance	Responsible Person
20.01620.011	UR 10 CFR Part 41 Task 1	Low	N/A	P. Mackin
20.04238.001-4	Performance Prediction Tool	N/A	N/A	N. Sridhar
20.04276	Tech. Assis. Envir. Docs.	N/A	N/A	D. Turner
20.4336	Internal Corrosion	N/A	N/A	V. Jain
20.32107	SS Pasiv. for Rx Indus.	N/A	N/A	V. Jain
20.04503	MOX Fuel	Medium	S-01-09	A. Chowdhury
20.04767	MOX Fuel/Tornado Savannah River	High	+	A. Chowdhury
20.04768	MOX Fuel/Structured Design Savannah River	High	+	A. Chowdhury
20.01402.931	Review Supp. Draft EIS	Project Complete	N/A	P. Mackin
20.OHD20.107	S. Wells and S. Holes	N/A	N/A	E. Percy
20.OHD20.117	In Situ L. UR.T.O. 8-10	Project Complete	A-2001-02	P. Mackin
20.08801.002	Jefferson Proving Ground	No Activity	N/A	J. Russell
20.08801.061&.062	DECOM. Proj.T.O No.6	Project Complete	A-2000-01	J. Russell
20.08801.071	Eval. of Resuspension Factor	Project Complete	N/A	J. Russell

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Surveillance/Audit Evaluation for CAR 2001-05

Project Number	Title	Need For Surveillance	Last Audit or Surveillance	Responsible Person
20.08801.081	Indep. Tech Review NUREG 1640	Project Complete	N/A	J. Russell
20.08801.101	Task 10 Soil Reuse	High	+	J. Russell
20.08801.111	Task 11 IAEA Review	Low	N/A	J. Russell
20.08801.121	Task Order No.12	Project Complete	N/A	J. Russell
20.01977.002	West Valley T.O. No. 2	Low	A-2001-02	P. Mackin
20.01977/23094	West Valley T.O. No. 3	High	+	P. Mackin

Example: S-01-01 = Surveillance performed in 2001, 1st Surveillance
A-2000-01 = Audit performed in 2000, 1st Audit
+ = **Surveillance Required**
N/A = Activity with little-to-no need for Surveillance or Audit
High = Has not been audited or surveyed in two years prompt surveillance required
Medium = Has been audited in 2000 or had been surveyed in 2000
Low = Had been audited in 2001 or had been surveyed in 2000

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CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES 31/12

MEMORANDUM

October 11, 2001

TO: CNWRA President
CNWRA Directors
CNWRA Element Managers

FROM: Bruce Mabrito, Director of Quality Assurance

SUBJECT: CNWRA Surveillance Schedule for FY2002



The attached initial CNWRA surveillance schedule for FY2002 is ready for your review and comment. This is not a complete surveillance schedule as of this date because of (i) the status of Ops Plan development and need for subsequent NRC approval, (ii) not all Quality Requirements Application Matrixes (QRAMs) have been submitted as of this date, (iii) unanticipated work will be identified, and (iv) other surveillances you may specifically request. This initial CNWRA FY2002 surveillance schedule does incorporate surveillances that were scheduled for FY2001 but that had not been accomplished.

Please review this CNWRA FY2002 surveillance schedule and make suggestions to improve the timing of the surveillances in your areas and make suggestions as to other needed surveillances. Thank you in advance for your input. We will publish any revised CNWRA surveillance schedules, clearly noted, based on your input. QA recognizes that the number of surveillances shown will "grow" with input from various sources.

Attachment

cc: CNWRA QA Records -- Surveillance Reports Folder/181
M. Ehnstrom/30
T. Mayces/30
R. Folck/Consultant
CNWRA QA Records -- CAR Folder 2001-05

**CNWRA SURVEILLANCE SCHEDULE
(BASED ON CURRENT OPS PLANS AND QRAMS FY-2002)**

10/11/2001 GEM

Report Sequence Number	Project Number	Task	Principal Investigator
1	20.08801.101	Reuse Soil Scenario Analyses	J. Russell
2	20.04767.02.001	Final Review Plan (MOX)	A. Chowdhury
	.03.001	Draft Assessment Report	
	.04.001	Final Assessment Report	
3	20.04768.02.001	Final Review Plan	A. Chowdhury
	.03.001	Draft Tornado/High Wind Assessment Report	
	.04.001	Final Tornado/High Wind Assessment Report	
4	20.08801.111	IAEA-WASCC Committee Document Review	J. Russell
5	20.01402.561	Evolution of the Near-Field Environment Technical Assistance	R. Pabalan
	.562	Evolution of the Near-Field Environment Code Development-Multiflo	S. Painter
6	20.04503.01.002	Draft and Final Seismic Assessment (MOX Fuel)	A. Chowdhury
7	20.01977.003	West Valley Demonstration Project-GIS Integration and Modeling	D. Farrell
8	20.01620.011	Tech. And Regulatory Analyses Support for the 10 CFR Part 41 Rulemaking	P. Mackin
9	20.01402.471	Structural Deformation Technical Assistance	J. Stamatakos
	.472	Structural Deformation Code Development- 3D Stress	D. Ferrill
10	20.01402.671	Repository Design & TM Effects Technical Assistance	G. Ofoegbu
	.672	Repository Design & TM Effects Code Development	G. Ofoegbu
11	20.01402.871	Radionuclide Transport Technical Assistance	P. Bertetti
12	20.04331.001	Differentiation of Corrosion Mechanism Morphological Features	O.Moghissi
	20.4336.101	Direct Assessment of Internal Corrosion (Phase .01 and .02)	O. Moghissi
13	20.04914.001	Analog Modeling of Dome Formation in the Arabian Gulf	D. Sims
14	20.01402.571	Container Life & Source Term Technical Assistance	G. Cragnolino
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MEMORANDUM

*Management
Meeting
Example*

TO: Center for Nuclear Waste Regulatory Analyses (CNWRA) Staff
FROM: Bruce Mabrito
DATE: December 18, 2001
SUBJECT: Information Items; CNWRA Management Staff Meeting held December 17, 2001

Attached is a list of items that summarize the key points of the Management Staff Meeting and the status of CNWRA activities.

If you need additional clarification on the attached, please contact your Element Manager.

cc: Correspondence Control

G:\MEETING.MIN\2001\dec\minutes.12.17.wpd

CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES
INFORMATION ITEMS

SUBJECT: Center for Nuclear Waste Regulatory Analyses (CNWRA)
Management Staff Meeting

DATE/PLACE: December 17, 2001
San Antonio, Texas

PRESENT: CNWRA (SA)
W. Patrick (WP)
B. Sagar (BS)
A. Chowdhury (AC)
L. McKague (LM)
B. Mabrito (BM)
G. Wittmeyer (GW)
E. Percy (EP)
Blaine Russell (BR) for P. Mackin (PM)
V. Jain (VJ)
N. Sridhar (NS)

CNWRA (Washington)
J. Russell (JR)

BACKGROUND:

This meeting is held weekly to review current and future CNWRA activities that need management attention. The meeting is also a forum for exchanging information and integrating CNWRA activities. The meeting began at 10:30 a.m. and ended at 11:50 a.m. CST.

SUMMARY OF PERTINENT POINTS:

- PA staff have completed most of the new sections that are needed for the integrated IRSR. Subsections on scenario analysis, identification of very unlikely events, individual protection, and human intrusion have already been completed. Subsections on lifestyle of the RMEI and ground-water protection will be finished mid-week. (BS/GW)
- TSPA I KTI members are beginning a review of the latest DOE model validation report. The plan is to prepare a draft review report of this 300 page document by January 11, 2002. Please see R. Benke for additional information. (GW)
- The "plus-up funding" for the Marine Corps Corrosion Center of Excellence (CCE) did not occur in the last round of the Defense appropriations bill, having been displaced by a number of higher priority items in response to the September 11th attack. Institute PDO met with the Marine Corps chief logistician to discuss the path forward. Apparently, the Marine Corps has inserted the CCE in their FY03 Program Objectives Management (POM) document, which is their planning process. In addition, they agreed for SwRI to brief the Marine Corps program managers in charge of various assets some time in January 2002. The PMs have

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funding from the Marine Corps operations and maintenance budget that may be available to start the CCE. (NS)

- Div. 20 provided ideas to Div. 09 on the Department of Defense Broad Agency Announcement related to counter measures for weapons of mass destruction. The proposed program will utilize Div. 20 skills in radionuclide sorption using zeolites with the UAV technology developed by Div. 09 and polymer film/foam technology developed by Div. 01. (NS/EP)
- After the NRC/DOE (Foster Wheeler) meeting on initiation of INEEL ISFSI-2 project on December 11, 2001, the next phase of this project is to conduct an Acceptance Review of the Safety Analysis Report. This Acceptance Review will be conducted following the SFPO Procedure, and a copy of this procedure has been received at the CNWRA. (AC)
- The PFSF SER Supplement on seismic/geotechnical/structural sections has been transmitted to NRC electronically as an Administrative Item. The CNWRA staff will now work with NRC OGC staff to prepare the NRC release version that will be published by the NRC on December 21, 2001. Related analysis tasks are being carried out on seismic soil-structure interaction and HI-STORM cask tip over. (AC)
- The preparation of the MOX safety evaluation report on seismic and geotechnical hazard, tornado/high wind hazard, and structural design criteria sections continued. The SER for these sections is due at NRC by December 31, 2001. Two of these three tasks are under a performance based contract. (AC)
- S. Painter and R. Green attended a meeting of the Edwards Aquifer Authority's Groundwater Modeling Advisory Panel on December 14, 2001. Painter presented his recent results using a statistical inverse method to honor measured hydraulic heads for the Edwards. Side conversations at the meeting were exceptionally positive regarding the CNWRA work. It appears that the EAA does not plan to use Argonne National Laboratory for future work. (EP)
- Div. 20 shipped the deliverable "MULTIFLO Version 1.5 User Guide Update" to the NRC. Version 1.5 includes specific features important to evaluating repository performance, including a free-drainage boundary condition and an improved description of fracture-to-matrix flow. (EP)
- Under Task Order 1, Div. 20 completed a letter report reviewing revised radionuclide inventory calculations for the WVDP and shipped to NRC on time for a 12/14 deliverable. Under Task Order 3, Div. 20 has completed a first draft of comments on the draft EIS prepared by Argonne Environmental group for the MOX facility at Savannah River. P. Mackin and D. Turner will attend a meeting at Argonne on 12/17-12/20 to discuss the DEIS with NRC and Argonne staff. The schedule calls for a completed letter report to NRC on 1/15/02. Given the tight schedule and the impact of the holidays, it is likely that technical and programmatic review will need to run concurrently. Div. 20 has continued review of the license amendment environmental report prepared by NFS. (David Turner)
- The Yucca Mountain Review Plan continues internal NRC concurrence review. An updated version was produced last week to incorporate comments from OGC. Further changes are expected. (PM)

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- We are working with NRC to develop guidance for putting CNWRA documents in the licensing support network. The goal is to have approved guidance available by the end of February 2002. (PM)
- D. Farrell is developing erosion modeling capability for the West Valley site. (PM)
- Work continues on preparing updates to two UR standard review plans for delivery in January. (PM)
- The IMS Group staff reports that the "gone.scr" virus is not present in our LAN system. However, the link between NRC and the CNWRA, including the WTSO, remains down. The NRC has not decided yet whether to restore the link. The staff are trying to "clean-up" the "G" drive and ensure that only files in frequent use are maintained there. (HG)
- CNWRA QA Procedure-016, Procurement; Administrative Procedure-005, Obtaining Subcontract Services; and AP-006, Obtaining Consultant Services, were distributed to appropriate staff the week of December 10, 2001. (BM)
- AP-001, Evaluation of Potential Conflict of Interest, Revision 5 Change 0, has been through concurrence review and will go into programmatic review after more detailed discussions with the NRC are held the week of December 17, 2001. (BM)
- Nonconformance Report 2001-14 was closed out December 13, 2001 with the issuance of QA Procedure-016. (BM)
- The NRC/CNWRA observation of the DOE audit of the Metal Samples Inc. Alabama facility was completed Nov. 29, 2001 and the input report was completed and sent to the NRC December 11, 2001. (BM)
- Surveillances in several technical areas were started the week of December 10, 2001, including the chemical shelf life surveillance. Also, surveillances on the Soil Reuse project and software utilized by the CNWRA were begun. A surveillance on the items received from the Department of Energy was accomplished during the month of November 2001. (BM)
- The Soil Reuse project has now been funded and there will be a Soil Reuse project presentation on January 8, 2002 at the NRC. (JR)

BUSINESS DEVELOPMENT:

- The Mars abstracts are being completed and are being readied for submission. (NS)
- A GANTT chart for the first year of CNWRA work for the Barbados Water Authority was received by the CNWRA. There appears to be a "disconnect" between the funding and the large number of activities required. (EP)
- There was a discussion about an SwRI multi-Division shared work contract with an "oil patch" supplier which has left Div. 20 with limited funds to complete the project. CNWRA staff are reminded that when working with other SwRI Division staff and outside consultants, a very clear statement of work and funding limitations is required. (WP/GW/BM)

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- BP has requested the CNWRA to perform stress corrosion cracking tests on stainless steel for downhole application. The program is estimated to start in January and be conducted over 4 months. (NS)

PREPARED BY:

APPROVED:

Bruce Mabrito
Director of Quality Assurance

Wesley C. Patrick
President, CNWRA

Date: _____

Date: _____

/mp

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CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES
MANAGEMENT STAFF MEETING
December 17, 2001, 10:30 a.m. - 12:00 noon, Room A-237

1. **Element Manager and Director Issues and Required Actions**
 - SwRI Procurement Cards (HG to respond)
 - Office/Lab Space Evaluation
 - Evaluation of and Compliance with MD 12.6 (PM)

2. **Last Week**
 - Meetings with Region IV on IPs
 - NRC/DOE (Foster Wheeler) meeting at CNWRA on INEEL ISFSI project

3. **This Week**
 - A. **Task Work**—See Commitment Control Log
 - Helpdesk Statistical Analysis and Plan (HG)
 - CNWRA Strategic Plan Development (EMs)

 - B. **Recruitment**
 - Interviews scheduled: Thorsdon, 1/17-18/2002 (GLGP)
 - Decisions pending: Chichkov (PA), Park (MGFE); V.Realmuto, S. Young, (GLGP)
 - Positions open: performance assessment (1), PA; principal hydrologist (1), GHGC; sr. res. engr.(1) MGFE; seismologist (1), volcanologist (1) GLGP

 - C. **Travel/Meetings**—CNWRA travel and vacation schedule attached
 - CRG Award Fee Meeting and Management Meeting 12/18-19/2001
 -

 - D. **Internal Operations**
 - Environmental Engineering and Science Brochure (GW/NS)
 - Document Format Review/Revision Committee (BC et al.)
 - CNWRA Holiday "Goodie" Table 12/17 and 12/18
 - CNWRA Christmas lunch 12/20/2001, Bldg 189 VTC
 - AP-5, AP-6 procedures distributed

4. **Next Week**—See Commitment Control Log
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5. **Future**
 - Sasaki (Kajima Corp.) Meeting at the CNWRA 1/7/2002
 - NRC/DOE Appendix 7 meeting on Geomechanical Testing (TBD)
 - CNWRA Presentation on Soil Reuse Analyses, TBD NRC TWFN
 - DOE/NRC Technical Exchange on YMRP in Las Vegas TBD
 - NASA Mars (Orlando Figueroa) at SwRI (delayed; TBD)

6. **Training**
 - See Attached List of Scheduled Courses and Participants

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Course/Location	To Attend	Dates	Attended By
Marketing and Promoting R&D: SwRI Library Conference Room			B. Mabrito-06/86 J. Russell-11/91 B. Sagar-11/91 A. Chowdhury-07/92 Y. Pan-10/93 G. Ofoegbu-04/94 E. Pearcy-04/94 H. Garcia-04/95 D. Pickett-10/95 D. Turner-2/96 A. Ghosh-10/97 B. Pabalan-10/97 S. Brossia-3/99 J. Winterle-10/99 B. Dasgupta-3/00 D. Hughson-3/00 L. Yang-3/00
Project Management:	(wait list) O. Povekto L. Howard D. Sims J. Stamatakos		A. Chowdhury-06/89 H. Garcia-05/91 E. Pearcy-01/93 D. Turner-07/93 G. Wittmeyer-01/93 S. Hsiung-01/94 Y. Pan - 1/94 S. Mohanty-8/95 D. Pickett-11/95 N. Sridhar-7/96 G. Cragolino-12/96 R. Green-12/96 A. Armstrong-10/97 G. Ofoegbu-10/97 V. Jain-10/97 A. Ghosh-2/98 D. Daruwalla-2/98 J. Weldy-6/98 S. Brossia-2/99 O. Pensado-2/99 O. Moghissi-6/99 S. Painter-6/99 D. Dunn-6/99 D. Farrell-6/00 D. Hughson-6/00 M. Smith-6/00 L. Yang-6/00 R. Benke-10/2000 D. Gute-10/2000 S. Mayer-10/2000 M. Necsoiu-7/2001

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Course/Location	To Attend	Dates	Attended By
Project Financial Management Methods: SwRI Library 4 th floor conference room			S. Hsiung-02/93 E. Pearcy-02/93 N. Sridhar-09/94 L. McKague-02/95 D. Pickett-04/96 G. Ofoegbu - 4/96 D. Turner-12/97 J. Winterle-9/99 O. Pensado-2/99 V. Jain - 9/00 S. Brossia - 1/00 P. Maldonado - 9/01
Making Oral Technical Presentations: Administration Building Auditorium (Mondays)			A. Ghosh-08/93 R. Green-11/93 S. Hsiung-04/94 B. Mabrito-04/94 S. Mohanty-05/95 W. Illman-3/2001 V. Jain-3/2001 L. Yang-3/2001 O. Moghissi-3/2001 R. Fedors-3/2001
Proposal Preparation: Administration Building Auditorium			R. Green-10/89 E. Pearcy-11/93 Y. Pan-11/93 A. Ghosh-05/94 P. Mackin-05/94 G. Ofoegbu-1/96 D. Turner-5/96 D. Pickett-7/98 D. Dunn-4/99 B. Dasgupta-11/99 W. Illman-4/2000 D. Hughson-4/2000 O. Moghissi-6/2001 L. Yang-6/2001 O. Povetko-6/2001
Successful Cost Estimating: Administration Building Auditorium			S. Hsiung-12/92 E. Pearcy-12/92 N. Sridhar-08/93 P. Mackin-12/95 D. Turner-05/94 P. Mackin-12/95 D. Pickett-11/95 V. Jain-5/97 S. Brossia-5/98 L. Yang-5/2000

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Course/Location	To Attend	Dates	Attended By
Numerical Methods for the Elastic-Plastic Flow and Shock Physics of Solids: SwRI Bldg. 71, 1st floor conf rm.			S. Hsiung-11/97 A. Ghosh-11/97
NRC Regulatory Process Course: Bethesda, Maryland			A. Chowdhury P. LaPlante B. Mabrito P. Mackin L. McKague W. Patrick J. Russell

Support Staff Development

FY2002

Course Title	Course Date	Participant(s)
Professional Secretary Management	9/5-10/20/2001	C. Weaver
Introduction to Microsoft Word	12/6/2001	B.Caudle, R. Emmot, C. Weaver
Time Management	11/28/2001	C. Weaver

CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

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MEMORANDUM

December 18, 2001

TO: QA Records Corrective Action Request 2001-05 Folder

FROM: Bruce Mabrito, Director of Quality Assurance 

SUBJECT: Closure of Corrective Action Request (CAR) 2001-05

REFERENCE: CAR 2001-05, Annual 2001 CNWRA QA Audit

This memorandum to the CAR 2001-05 folder is to document progress and closure of CAR 2001-05.

CAR 2001-05 was initiated August 24, 2001 at the conclusion of the 2001 annual CNWRA QA Audit. Remedial actions and corrective actions to preclude recurrence have taken place over the last 115 days. A QA team composed of Bruce Mabrito, Mark Ehnstrom and Randy Folck worked on the response to the CAR and the response was accepted by Wes Patrick, the CNWRA President. Although a CNWRA Surveillance Schedule for FY2002 was distributed to CNWRA Management Staff on October 11, 2001, the CAR was not closed at that time because the CNWRA Director of Quality Assurance wanted to actually start the surveillances before closing the CAR and to fulfill the other corrective actions to preclude recurrence.

Additionally, due to work being accomplished in CNWRA QA to support the revising of the CNWRA QA Manual, modifying Administrative Procedures -005 and -006, the rewriting of Administrative Procedure-001, the revision of QAP-008, completing review of the CNWRA Repository Operations Plans and related QRAM activities, and other activities involving outgoing products to clients and COI investigation, we did not promptly close this CAR.

Now that all actions have been taken and documented, this CAR is being closed by M. Ehnstrom.