

NRC/DOE Management Meeting Summary
NRC Headquarters, Rockville, MD; DOE, Las Vegas, NV;
NRC Region IV, Arlington, TX; CNWRA, San Antonio, TX
December 6, 2001, 1:00 PM to 4:00 PM, ET

The U.S. Nuclear Regulatory Commission (NRC) and the U.S. Department of Energy (DOE) met on December 6, 2001. This meeting summary includes a brief description of the discussions.

Introductory Comments

Under Secretary Robert Card provided introductory remarks. He recognized the need to focus on licensing after transition from the siting phase if the site is recommended and designated. Mr. John Greeves (NRC) noted that implementation of quality assurance (QA) remains an issue for DOE to address. He also stated that NRC was pleased to be able to provide its preliminary sufficiency comments.

DOE Program Update

Mr. Lake Barrett (DOE) acknowledged the NRC sufficiency comments and the work to be done as DOE moves toward a potential license application. He indicated that DOE is developing work plans to accommodate the budget for FY 2002 and move forward towards possible licensing. Mr. Barrett noted that DOE was continuing work toward a potential decision by the Secretary on Site Recommendation and that a supplemental public comment period was underway.

Mr. Barrett updated the NRC on the selection process for a permanent Director for the Program's Office of Quality Assurance (OQA), noting that the acting Director Mr. Bob Davis would be replaced by Mr. Ram Murthy effective December 16, 2001. Mr. Murthy will act until the final selection is made. Mr. Barrett stated that the Program will improve its processes as it transitions to possible licensing. The Performance Improvement Transition Plan (PITP) will describe these efforts. The NRC expressed the need to review the PITP and hold follow-up discussions with DOE.

Mr. Barrett re-iterated DOE's intent to re-institute BSC's authority to conduct audits and surveillances. DOE believes that QA oversight of BSC's activities will benefit the Project. DOE would retain its oversight role and overall responsibility for the QA program. He noted that DOE is working to implement recommendations from the Morgan-Lewis Report related to a safety conscious work environment (SCWE). Mr. Barrett also noted that DOE was making changes to its web site in response to DOE security directives following September 11, 2001.

Mr. Don Horton (DOE) provided an update on the Yucca Mountain project. He noted DOE is incorporating FY 2001 Quality Assurance Management Assessment (QAMA) results into the PITP. Mr. Greeves requested the QAMA team to review the Project's performance metrics before the end of the next QAMA cycle. Mr. Bob Latta (NRC) asked whether it would be more appropriate to wait until a permanent QA Director is named. DOE indicated the need to move forward with careful implementation of BSC's new authority with OQA oversight. Mr. Bill Belke (NRC) asked whether DOE management had considered the potential of a "chilling effect"

Belke (NRC) asked whether DOE management had considered the potential of a “chilling effect” of relegating audit responsibilities to BSC. DOE responded that this was considered, but did not expect it to be a concern.

Dr. Steve Brocoum (DOE) reported on site recommendation status and preparation for a potential license application (LA). He noted that the supplemental public comment period is consistent with the Secretary’s commitment to provide an additional opportunity for public involvement. He discussed the PITP and stated that the goal is to provide this plan to the NRC in mid-December 2001, subject to management review to ensure a quality document. Dr. Brocoum noted that a rebaselined schedule for development of a potential LA is expected to be available in March 2002. He noted the desirability of meeting with NRC to discuss the process for the next round of meetings. The NRC would like to receive the schedule prior to the next quarterly management meeting.

NRC Program Update

Mr. Bill Reamer (NRC) provided an update on the NRC program. Upcoming activities in 2002 include public meetings in Nevada to discuss the final 10 CFR Part 63 comment resolution process. In response to questions by Ms Judy Treichel (NV Nuclear Waste Task Force), Mr. Reamer stated that these meetings fulfill a commitment made by NRC. He noted the Commission’s direction to undertake a rulemaking to quantify the definition of “unlikely.” He stated that the July 2000 draft of the Yucca Mountain Review Plan (YMRP) had been made available to the public. Mr. Reamer stated that staff is currently updating the YMRP to be consistent with the final rule. The NRC re-iterated its offer to hold a technical exchange on electronic information exchange. Mr. Reamer indicated that NRC would be issuing an integrated Issue Resolution Status Report covering all KTIs in March or April of 2002. In response to a question from Ms. Susan Lynch (State of Nevada), the NRC reiterated its conclusions in the sufficiency comments. Mr. Greeves stated that NRC took no position on site recommendation.

DOE KTI Resolution Management

Dr. Russ Dyer (DOE) re-iterated the DOE management commitment to respond to the KTI agreements and to provide information in advance of LA for NRC review.

DOE/NRC Communications Issues

Dr. Brocoum, responding to a concern raised in NRC’s November 17, 2001 letter, indicated DOE’s commitment to improved communication with the Onsite Representatives and technical staff regarding significant changes to test plans or design that could impact KTI agreements. He stated that any changes in agreements, if needed, would be coordinated with the NRC Project Manager for issue resolution. No additional response is necessary on this issue.

Management Issues from QA and KTI Sessions

Mr. Reamer summarized issues from the Quarterly QA Meeting and the KTI breakout meeting held December 5, 2001 for which follow-up discussions were required. The issues are provided in the minutes from the subject meetings.

OCRWM Concerns Program Update

Mr. Horton discussed the status of the OCRWM concerns program. He addressed the increased rate of concerns since contractor transition. Mr. Greeves noted that SCWE concerns were important and that DOE appears to be dealing with them. He questioned the high percentage of concerns still in process. DOE responded that management is working to increase resources for the OCRWM Concerns Program. Mr. Greeves intends to follow-up on the length of time to resolve concerns and DOE's proposed method to communicate actions taken to address concerns. In response to a question from Mr. Mike Baughman (Lincoln and White Pine Counties) regarding the NRC's preclicensing authority, Mr. Greeves explained that although NRC has no enforcement authority at this time, it would provide feedback to DOE on its concerns program because these issues can undermine a program.

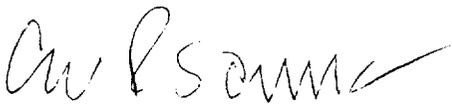
Action Item Status

New action items identified at this meeting (included on list of Action Items, Attachment 4):

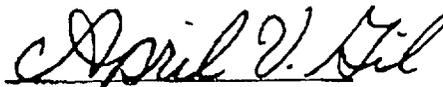
1. NRC and DOE will meet in late January or early February 2002 to discuss the path forward for future meetings on KTI's and preclosure topics.
2. DOE will provide NRC additional information on how Morgan-Lewis recommendations regarding SCWE concerns are addressed in the PITP.

Closing Remarks

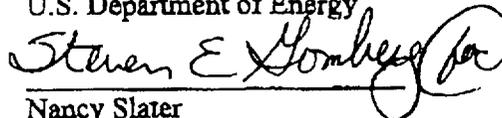
There were no closing remarks.



C. William Reamer
 Division of Waste Management
 Office of Nuclear Material
 Safety and Safeguards
 U.S. Nuclear Regulatory Commission



April V. Gil
 Office of Licensing and
 Regulatory Compliance
 Yucca Mountain Site
 Characterization Office
 U.S. Department of Energy



Nancy Slater
 Regulatory Coordination Division
 Office of Civilian Radioactive
 Waste Management
 U.S. Department of Energy

Agenda
DOE/NRC Quarterly Management Meeting
December 6, 2001
1:00 PM- 4:15 PM (ET)
10:00 AM- 1:15 PM (PT)

U. S. NRC
Room O3B-4
Rockville, MD

Bridge Number: (702) 295-6111
And via Videoconference to:

BSC
9960 Covington Cross
Room 915
Las Vegas, NV

U. S. NRC
Region IV
611 Ryan Place Drive
Arlington, TX

CNWRA, SWRI
Building 189, Room A103
6220 Colebra Road
San Antonio, TX

1:00 PM	Introductions	ALL
1:10 PM	DOE Program/Project Update <ul style="list-style-type: none">• Program Update• Project Update• SR Status and Preparation for a Potential LA Brocoum	DOE Barrett Dyer
1:30 PM	NRC Program Update	NRC
1:45 PM	DOE KTI Resolution Management	Barrett/Dyer
2:00 PM	DOE/NRC Communication Issues	Brocoum
2:15 PM	Management Issues from QA and KTI Sessions	DOE
3:00 PM	Break	ALL
3:15 PM	OCRWM Concerns Program Update	Dyer
3:45 PM	Action Item Status	DOE/NRC
4:00 PM	Closing Remarks	ALL

QA: N/A

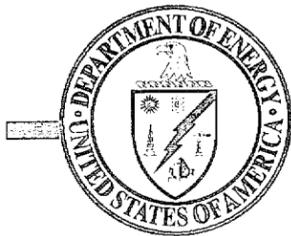
ATTENDANCE LIST
DOE - NRC Quarterly Management Meeting
Rockville, MD
December 6, 2001

Name	Organization	Telephone
ROBERT J. DAVIS	DOE	702-794-1460
LARRY L. CAMPBELL	NRC/NMSS	(301) 415-5000
Jack Parrott	NRC/NMSS	301-415-6700
Doug Duncan	USGS	202-586-1244
Steve Hanauer	DOE	202-586-6850
Larry Saraka	BSC	202-488-6745
King Stablein	NRC/NMSS	301-415-7445
Khalid Ibrahim	NRC/NMSS	301-415-6651
Donald Pearman	BSC	702-295-0528
Tim McCartin	NRC/NMSS	301-415-7285
James Firth	NRC/NMSS	301-415-6628
STAN Echols	Echols Consulting Group	202-537-1497
John Green	NRC/DGW	301-415-7437
ELAINE HIRUD	PLATTS NUCLEAR Publications	202-388-2163
Sidney Crawford	Consultant	301 216 3080 scrwf@erols.com

QA: N/A

ATTENDANCE LIST
DOE - NRC Quarterly Management Meeting
Rockville, MD
December 6, 2001

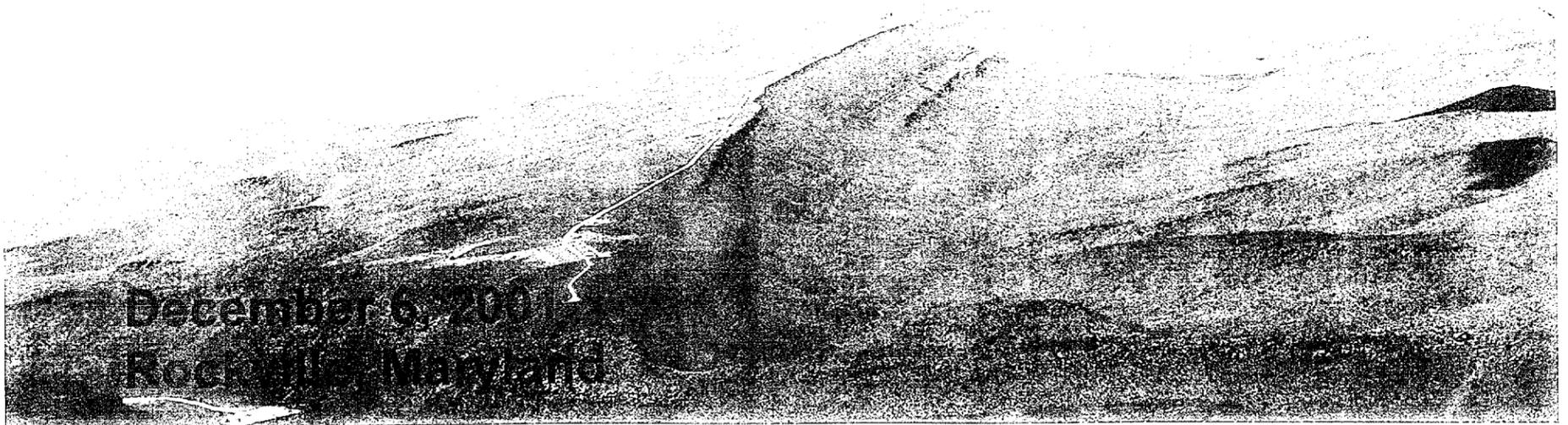
Name	Organization	Telephone
E. J. TIESSENHAUSEN	CLARK COUNTY	702 455-5784
ALI HAGHI	BSC/DUKC	295-5318
SAM HOBBS	BSC/LAP	295-6620
SUSAN LYNCH	State of Nevada	775-687-3744
FRANK KRATUNIAN	MTS/GAI	702-794-5057
R. M. LATTA	US NRC	702-794-5048
G. G. PARNELL	BSC	702-295-5477
George deKrom	DOE/YNSCO	702-794-1419
Drew H. Coleman	DOE	702-794-5537
Jim Linhart	NSMFP	702-295-0366
Russ Fray	BSC/Projects	702-295-0053
Kristi Hodges	OQA/NQS	702-794-1464
ROBERT HASSON	OQA/NQS	702-794-5023
Steve Brishman	State of NV	775-687-3744
Judy Turchel	ANWTF	702-248-1127
Mike Bayhman	Lincoln + White Pine County's	775 883 2051
Bob Clark	DOE YNSCO	702 794 5583
Veronica Cornell	BSC/LAP	702-295-5342
Ralph Rogers	MTS/BAH	702-794-1415
William Scott	USGS	702-295-3512
Edward P. Opelski	OQA/NQS	702-794-1332



U.S. Department of Energy
Office of Civilian Radioactive Waste Management



DOE/NRC Quarterly Management Meeting



Enclosure 4



U.S. Department of Energy
Office of Civilian Radioactive Waste Management

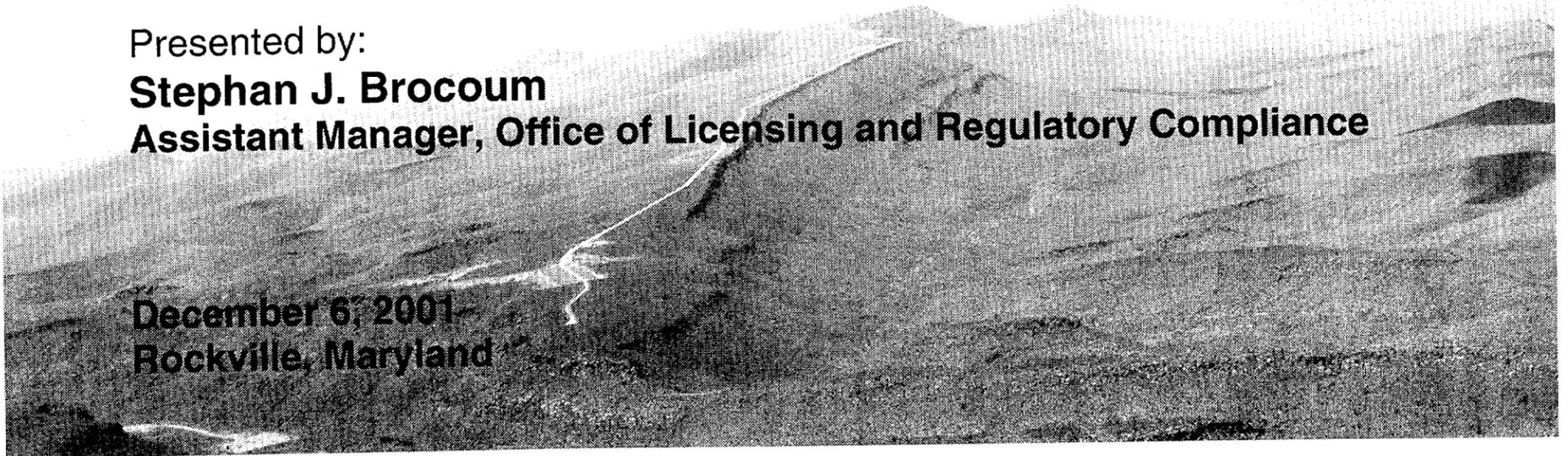


Site Recommendation Status and Preparation for a Potential License Application

Presented to:
DOE/NRC Quarterly Management Meeting

Presented by:
Stephan J. Brocoum
Assistant Manager, Office of Licensing and Regulatory Compliance

December 6, 2001
Rockville, Maryland



Outline

- **Site Recommendation**
 - Status
 - Future Actions
- **NRC Sufficiency Comments**
- **Resolution of Quality Issues**
- **Planning for a Potential License Application (LA)**



Site Recommendation - Status

- ***Supplement to the Draft Environmental Impact Statement***
 - Issued 5/4/01; hearings announced
 - Public comment period closed 7/6/01
- **Initial public comment period on consideration of a possible site recommendation**
 - ***Yucca Mountain Science & Engineering Report*** issued 5/07/01; public comment period initiated
 - ***FY01 Supplemental Science and performance Analyses*** report issued 7/19/01
 - ***Preliminary Site Suitability Evaluation*** issued 8/21/01; hearings announced
 - Initial public comment period closed 10/19/01



Site Recommendation - Status

(Continued)

- **Supplemental public comment period on consideration of a possible site recommendation**
 - **Consistent with Secretary's commitment to provide additional opportunity for public involvement closer to decision time focused on issues that could not have been raised earlier**
 - **Information available since close of initial comment period**
 - ◆ **NRC sufficiency comments received 11/13/01**
 - ◆ **Final 10 CFR Part 963 issued 11/14/01 following NRC concurrence**



Site Recommendation - Status

(Continued)

- Information available since close of initial comment period
 - ◆ Supplemental technical information made available 11/14/01
 - » TSPA - Analyses for Disposal of Commercial and DOE Waste Inventories at Yucca Mountain - Input to FEIS and Site Suitability Evaluation
 - » TSPA Sensitivity Analyses for Final NRC Regulations
 - » Technical Update Impact Letter Report
- Opportunity for comment announced 11/14/01
- Public hearings have begun



Site Recommendation - Future Actions

- **If the Secretary decides to recommend the site he will:**
 - **Notify the Governor and Legislature of the State of Nevada**
 - **Submit a site recommendation to the President no sooner than 30 days after a notification to the State**
 - ◆ **Recommendation would be accompanied by a comprehensive statement of the basis for the recommendation, including the NRC's preliminary comments on sufficiency**



NRC Sufficiency Comments

- **DOE appreciates the timeliness of NRC's letter transmitting the preliminary comments required as part of the basis for a possible site recommendation**
- **DOE acknowledges and is committed to addressing NRC's expectations regarding information needed for a potential LA**
 - **Resolution of agreements reached regarding collection of additional information**
 - **Information needed if a lower temperature operating mode or the approach used in the SSPA were adopted**
- **DOE is committed to achieving an effective QA program to support a potential LA and licensing**



Resolution of Quality Issues

- **DOE is addressing quality issues**
 - **Significance of unqualified data, models, and software used for TSPA-SR**
 - ◆ **Model Validation Status Review complete; report provided to NRC on 11/30/01**
 - ◆ **Data supporting TSPA-SR 99% qualified**
 - ◆ **Software supporting TSPA-SR 100% qualified**
 - **Performance Improvement Transition Plan**
 - ◆ **Preliminary discussions held with NRC on performance metrics for plan**
 - ◆ **Plan was presented in yesterday's QA meeting**
- **Transition Plan will be provided to NRC following management review and approval**



Planning for a Potential LA

- **Plan to cover early FY02 work has been baselined**
 - **Work to address KTI agreements for FY02 explicitly included**
- **Development of integrated plan through completion of LA is underway**
 - **Evaluating risk-informed strategies for meeting NRC licensing requirements and acceptance criteria**
 - ◆ **10 CFR Part 63, final on 11/2/01**
 - » **Significant changes are not anticipated based on preliminary results of impact analysis for final licensing requirements**
 - ◆ **Yucca Mountain Review Plan, when issued**
 - **Addressing LSN requirements**
 - **Plan will cover all work needed to complete an LA and include a resource-loaded schedule**



Planning for a Potential LA

(Continued)

- **Integrated LA schedule will be available in 3/02**
 - **Integrated with baseline to include**
 - ◆ **KTI agreements identified as individual activities**
 - ◆ **Logic-based schedule with predecessor activities identified**
 - ◆ **Resource loaded to realistically estimate duration and manage budget**
 - ◆ **Monitored weekly to identify early indication of problems**
 - **Review scope to ensure appropriate responsiveness to NRC concerns; review schedule to ensure consistency with other LA activities**
 - **Based on integrated technical baseline and product schedule, interactions with NRC will be held to demonstrate progress in addressing KTI agreements and potential emerging issues**



Summary

- **Development of basis for a possible site recommendation for consideration by Secretary is nearly complete**
 - Supplemental public comment period closes 12/14/01
 - Comments received during initial and supplemental comment periods will be considered by the Secretary prior to making a decision on site recommendation
- **Development of the planning basis through completion of a potential LA is underway**
- **DOE is developing a Performance Improvement Transition Plan and actively addressing quality issues in preparation for a possible licensing proceeding**





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Office of Civilian Radioactive Waste Management

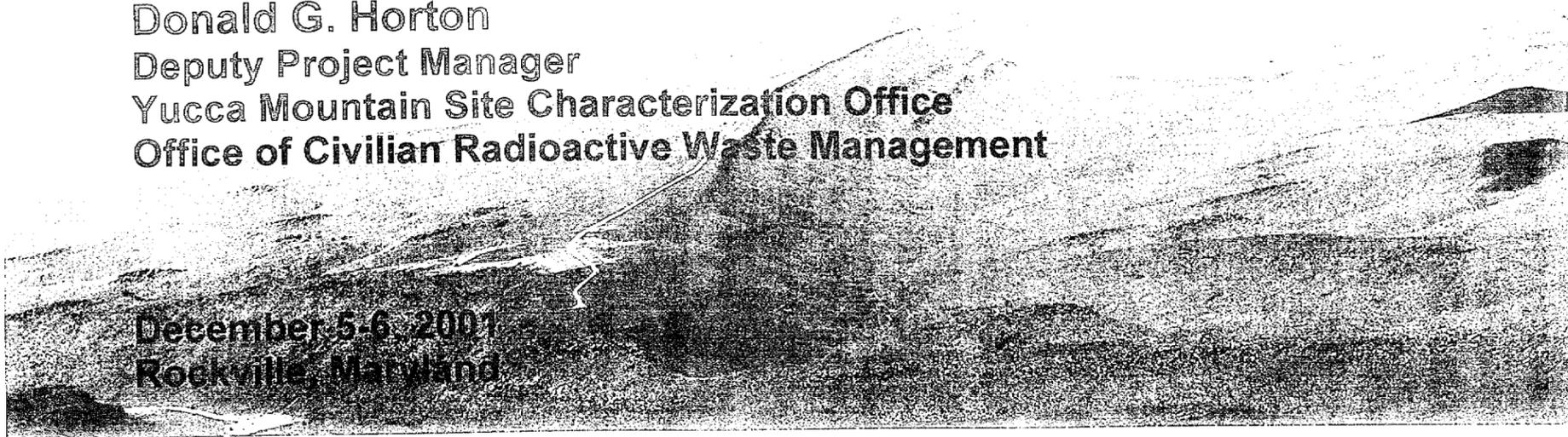


OCRWM Concerns Program

Presented to:
DOE/NRC Quarterly Management Meeting

Presented by:
Donald G. Horton
Deputy Project Manager
Yucca Mountain Site Characterization Office
Office of Civilian Radioactive Waste Management

December 5-6, 2001
Rockville, Maryland



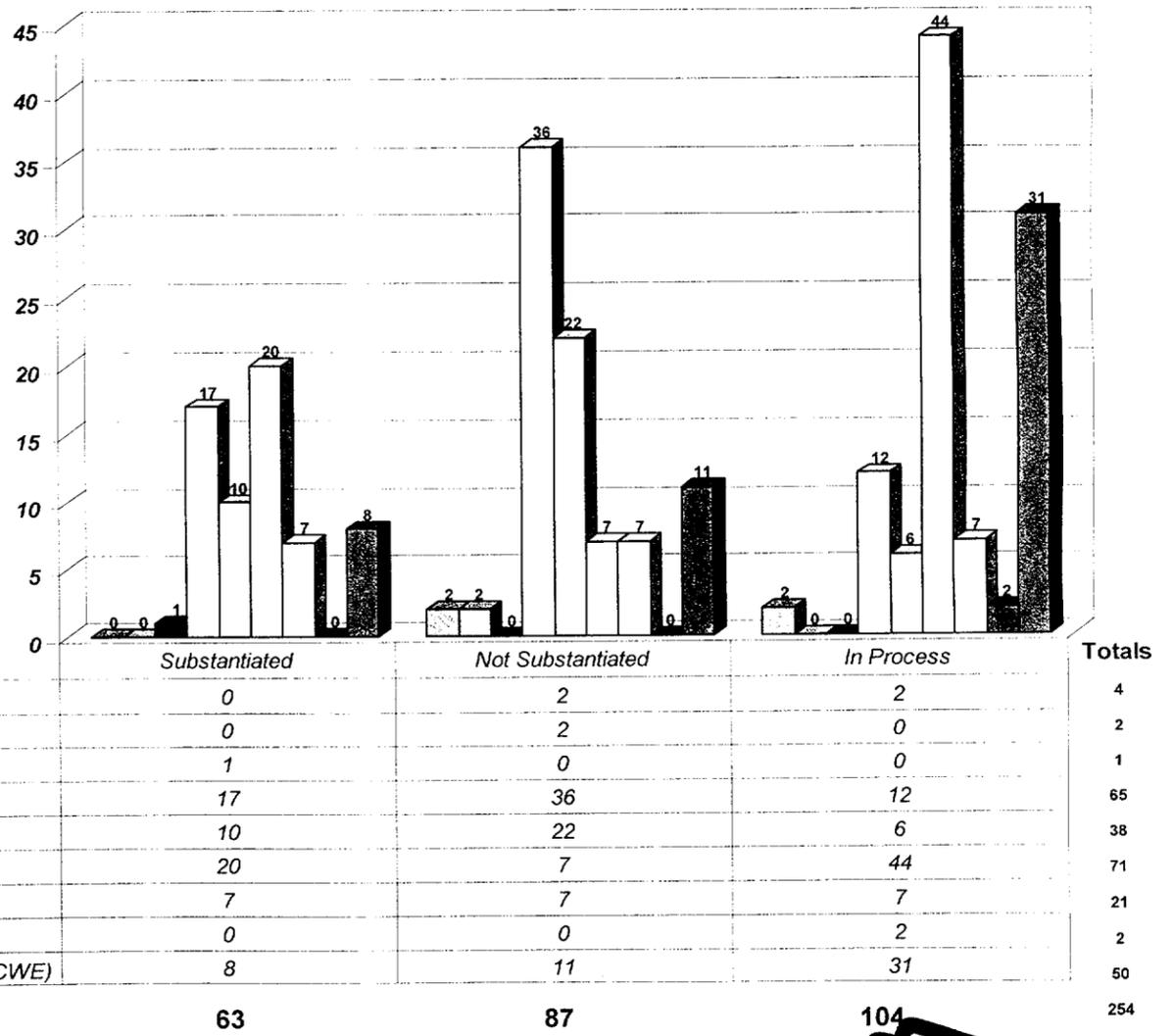
OCRWM Concerns Program

Concern Status Through November 23, 2001

- **Employees Continue to Use OCRWM Concerns Program**
 - 142 Concerns received: Jan. 3 through Feb. 9, 2001
 - 112 Concerns received: Feb. 12 through Nov. 23, 2001
 - 254 = Total No. Concerns Submitted through November 23, 2001
- **Breakdown - Number of Concerns per Category**
 - 4 - Differing Professional View
 - 2 - Environmental & Health
 - 1 - Fraud, Waste & Abuse
 - 65 - Management
 - 38 - Personnel Policy/Practice
 - 71 - Quality
 - 21 - Worker Safety
 - 2 - Personnel/Facility Security
 - 50 - Safety Conscious Work Environment



Status of Concerns Jan. - Nov. 23, 2001



OCRWM Concerns Program

Selected Concern Categories

- **Management Concern**

- **Definition - Related to a management policy, budget allocation and/or use of personnel/resources**
- **Results through November 23, 2001**
 - ♦ **17 Management Concerns = Substantiated**
 - ♦ **36 Management Concerns = Not Substantiated**
 - ♦ **12 Management Concerns = In Review with 4 Final Reports in-process**

65 = Total No. of Management Concerns Received



OCRWM Concerns Program

Selected Concern Categories

(Continued)

- **Quality Concern**

- **Definition - Condition alleging that activities have not met either technical or quality requirements regarding**
 - ♦ **The radiological health and safety of workers and/or the public**
 - ♦ **Work that either provides direct input to the license application or the radiological safety sections of the EIS**
- **Review results through November 23, 2001**
 - ♦ **20 Quality Concerns = Substantiated**
 - ♦ **7 Quality Concerns = Not Substantiated**
 - ♦ **44 Quality Concerns = In Review stage with 13 Final Reports in-process**

71 = Total No. of Quality Concerns Received



OCRWM Concerns Program

Selected Concern Categories

(Continued)

- **Safety Conscious Work Environment (SCWE) Concerns**
 - **Definition - A concern alleging harassment, intimidation, retaliation or discrimination (HIRD) or any other act of reprisal by management, supervision or a coworker regarding an employee's efforts to raise a concern or document a work-related issue for resolution. (Ref. NRC Policy Statement dated May 14, 1996)**
 - **Review results through November 23, 2001**
 - » **8 SCWE Concerns = Substantiated**
 - » **11 SCWE Concerns = Not Substantiated**
 - » **31 SCWE Concerns = In OCP Review Stage with 8 Final Reports in-process**

50 = Total No. of SCWE Concerns Received



OCRWM Concerns Program

Actions on 8 Substantiated SCWE Concerns

- **Concern No. 1: Sexual Harassment**

- **Having reviewed the OCP Final Report, BSC Management**
 - ♦ **Completed its internal review**
 - ♦ **Returned Concernee to Project in temporary position through Dec. 31, 2001; Attempting to place in permanent position**
 - ♦ **Notified OCP, on Nov. 8, 2001, of BSC's personnel actions to address the employee's behavior towards the Concernee**
 - » **Will be returned to previous role, which is a non-managerial/supervisory position**
 - » **Will be given necessary training and mentoring to prepare for a future supervisory position, and**
 - » **Will have a meeting with one of BSC's top managers to be advised as to what is acceptable managerial/supervisory behavior**



OCRWM Concerns Program

(Continued)

- **Concern No. 2: Harassment and Intimidation**
 - **Having reviewed the OCP Final Report, BSC Management**
 - ◆ **Completed internal review to address the Final Report**
 - ◆ **Addressed employment actions with its subcontractor and received assurance of future job referrals for affected employee**
 - ◆ **Final BSC action not yet reported to OCP**

Note: Affected employee was temporarily hired to support YMP activities during Sept.- Oct. 2001

OCRWM Concerns Program

(Continued)

- **Concern No. 3: Hostile Work Environment**
 - **Having reviewed the OCP Final Report, BSC Management**
 - ◆ **Completed its internal review to address the Final Report**
 - ◆ **Conducted team building and other training in affected organization**
 - ◆ **Final BSC action not yet reported to OCP**
 - ◆ **OCP monitoring affected work environment**



OCRWM Concerns Program

(Continued)

- **Concern No's. 4-6: Hostile Work Environment**
 - **Note: Three (3) concerns in same organizational area/supervisor**
 - ♦ **Supervisor not extended job offer during transition**
 - **OCP continues to monitor functional area work environment; Feedback from Concernees remains positive**
- **Concern No. 7: Hostile Work Environment/EEO Issue**
 - **Concern related to substantiated EEO issues with former M&O contractor**
 - **Concernee not placed in position outside previous department during transition**
 - **Management Actions**
 - ♦ **BSC HR successfully placed Concernee in position outside previous department**
 - ♦ **OCP continues to monitor environment; Concernee remains positive about new assignment**



OCRWM Concerns Program

(Continued)

- **Concern No. 8: Intimidation/Work Environment Issue**
 - Involved threat by Project contractor manager towards a DOE employee in effort to prevent DOE employee's participation in a review of the QA Program; Threat based on manager's knowledge of DOE employee's inappropriate behavior towards a contractor employee
 - OCP substantiated that the contractor manager attempted to use the DOE employee's behavior to dissuade the DOE employee from further participation in the QA review
 - **Management Actions Taken:**
 - ◆ DOE management counseled the DOE employee on inappropriate behavior
 - ◆ The Project contract manager subsequently employed outside YMP



OCRWM Concerns Program

(Continued)

- **Follow-up from Sept. 7, 2001 meeting**
 - Responding to a concerned individual (CI)
 - OCP's formal process
 - When CI is known, the OCP Manager
 - ♦ Notifies the CI of results of the investigation and any corrective actions taken to resolve the concern;
 - ♦ CI is provided opportunity to respond and comment;
 - ♦ If the CI does not agree with either the 'corrective actions' or the 'not substantiated' results, takes steps to address the CI's comments, including:
 - ♦ Reviews any additional information offered by the CI; and/or



OCRWM Concerns Program

(Continued)

- ◆ **Explores discussions with respective levels of management in effort to obtain resolution at these levels**
- ◆ **When appropriate, takes steps to escalate resolution to the Project Manager, YMSCO and/or the Director, OCRWM**
- ◆ **Above steps are documented and final resolution is maintained in the respective OCP concern file**
- ◆ **Note: Anonymous concerns are processed with the same level of review and protocol; all final reports are maintained in the OCP concern file to address and close the issue**



DOE/NRC Management Meeting Action Items

Num	Action Item	Status	Remarks	LAP Lead	Tech Lead
01/09-01	NRC requests followup discussion with DOE and NRC staff regarding specific examples in the presentation on impact assessment of unqualified data and software.	In Progress	Followup discussion has been initiated during telephone conversations since the September QA meeting. Will be further addressed in the December Quarterly QA meeting and in additional followup as necessary..		
01/09-02	NRC requests followup discussion in the next management meeting on the OCRWM concerns program, specifically how feedback is provided to employees.	In Progress	Is being addressed in the December Quarterly Management Meeting		
01/06-02	DOE will provide the results of the management action plan, including the root-cause analysis, at least one month before NRC provides sufficiency comments.	Complete	The results of the management action plan will be available by August 29, 2001 and briefed at the September 6-7, 2001 QA and Management meetings. The management plan was briefed at the September meetings (including the root cause analyses). The root cause analyses have been provided to the ORs, but will also be formally transmitted to the NRC. (Transmitted on 9/12/01)		
01/06-04	DOE's unqualified data and software impact analysis will include the SSPA, or explain why the SSPA is not included [combined with previous action #00/09-01].	Complete	The analyses was completed by August 15, 2001. The NRC was briefed during the September 6-7, 2001 QA and Management Meetings. This information was also transmitted to the NRC by letter on August 31, 2001.		
01/06-05	DOE will update NRC on OCRWM Employee Concerns Program within 30 days.	Complete	DOE provided a briefing by telephone to the NRC management on the results of the Morgan - Lewis survey when the survey was completed. Also, DOE provided an update of the OCRWM Employee Concerns Program during the September 7, 2001 Management Meeting.		
01/04-03	NRC will provide DOE with information on its transition to an Integrated Sub-Issue (ISI) framework and its Integrated Issue Resolution Status Report at a meeting to be scheduled.	In Progress	This will be completed following issuance of the YMRP (which is the appropriate time to provide the information).		
00/04-05	DOE and NRC agreed to establish a consolidated list of commitments and open items and develop a process to track which open items are closed, closed pending confirmation, or open. The status of this effort will be reported at future management meetings	In Progress	There was a demonstration of CIRS database and commitment management system on 11/21/00 to demonstrate DOE open item management. Also, KTI status was discussed at the December 20, 2000 and prior to the April 18, 2001 Management Meeting. NRC will provide the OITS report to DOE in the near future. At the September 7, 2001 management meeting, it was agreed to add an agenda item for the next KTI breakout.		