



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

February 7, 2001

Dr. Steven Brocoum, Assistant Manager
for Licensing and Regulatory Compliance
Yucca Mountain Site Characterization Office
Office of Civilian Radioactive Waste Management
U.S. Department of Energy
P.O. Box 30307
North Las Vegas, NV 89036-0307

SUBJECT: MINUTES OF THE DECEMBER 20, 2000, MANAGEMENT MEETING

Dear Dr. Brocoum:

Enclosed are the minutes of the December 20, 2000, Management Meeting between the U.S. Department of Energy (DOE) and the U.S. Nuclear Regulatory Commission to discuss the status of various management and programmatic issues concerning Yucca Mountain, Nevada. The meeting minutes consist of the meeting minutes summary, agenda, attendance list, and the presentation material noted as enclosures 1, 2, 3, and 4, respectively.

The meeting was held at NRC Headquarters in Rockville, Maryland with participation by video conference at DOE facilities in Las Vegas, NV and Washington, DC, and the Center for Nuclear Waste Regulatory Analyses in San Antonio, TX.

The meeting resulted in a good exchange of information and views between DOE and NRC. No response to this letter is required. If you have any questions regarding the enclosed meeting minutes, please contact Ken Chang of my staff. He can be reached on (301) 415-6612.

Sincerely,

A handwritten signature in black ink, appearing to read "C. William Reamer".

C. William Reamer, Chief
High-Level Waste Branch
Division of Waste Management
Office of Nuclear Material Safety
And Safeguards

Enclosures: Summary Highlights
Agenda
Attendance List
Briefing Materials

cc: See attached list

Letter to S. Brocoum from C. William Reamer dated: February 7, 2001

cc:

R. Loux, State of Nevada	B. Duke, Lander County, NV
S. Frishman, State of Nevada	R. Massey, Lander County, NV
L. Barrett, DOE/Washington, DC	J. Pitts, Lincoln County, NV
A. Brownstein, DOE/Washington, DC	M. Baughman, Lincoln County, NV
S. Hanauer, DOE/Washington, DC	J. Wallis, Mineral County, NV
C. Einberg, DOE/Washington, DC	J. Shankle, Mineral County, NV
J. Carlson, DOE/Washington, DC	L. Bradshaw, Nye County, NV
N. Slater, DOE/Washington, DC	M. Murphy, Nye County, NV
A. Gil, YMPO	J. McKnight, Nye County, NV
R. Dyer, YMPO	D. Weigel, GAO
S. Brocoum, YMPO	W. Barnard, NWTRB
R. Clark, YMPO	R. Holden, NCAI
S. Mellington, YMPO	A. Collins, NIEC
C. Hanlon, YMPO	R. Arnold, Pahrump County, NV
T. Gunter, YMPO	J. Larson, White Pine County
G. Dials, M&O	R. Clark, EPA
J. Bailey, M&O	F. Marcinowski, EPA
D. Wilkins, M&O	R. Anderson, NEI
M. Voegele, M&O	R. McCullum, NEI
S. Echols, Winston & Strawn	S. Kraft, NEI
B. Price, Nevada Legislative Committee	J. Kessler, EPRI
J. Meder, Nevada Legislative Counsel Bureau	D. Duncan, USGS
D. Bechtel, Clark County, NV	R. Craig, USGS
E. von Tiesenhausen, Clark County, NV	W. Booth, Engineering Svcs, LTD
A. Kalt, Churchill County, NV	J. Curtiss, Winston & Strawn
G. McCorkell, Esmeralda County, NV	S. Besser, NV Congressional Delegation
L. Fiorenzi, Eureka County, NV	N. Rice, NV Congressional Delegation
A. Johnson, Eureka County, NV	T. Story, NV Congressional Delegation
A. Remus, Inyo County, CA	J. Reynoldson, NV Congressional Delegation
	J. Pegues, City of Las Vegas, NV

ENCLOSURE 1

NRC/DOE Management Meeting Summary

DOE Las Vegas, NV; NRC Headquarters, Rockville, MD; CNWRA, San Antonio, TX
December 20, 2000, 2:00 PM to 4:30 PM, EST

The U.S. Nuclear Regulatory Commission (NRC) and the U.S. Department of Energy (DOE) met on December 20, 2000, to discuss the status of various management and programmatic issues. This meeting summary includes a brief description of the discussions, the meeting agenda (attachment 1), the attendance list (attachment 2), a copy of handouts used (attachment 3), and the list of action items being tracked with their status (attachment 4).

Introductory Comments

There were no introductory comments by the NRC, DOE, Affected Units of Local Government (AULG), or other Interested Parties.

NRC Program Update

Mr. John Greeves (NRC) provided a summary of the DOE/NRC Quarterly Quality Assurance (QA) Meeting held December 19, 2000. He indicated that, based on the information presented at the QA meeting, DOE appeared to be meeting its goals for data and software qualification, and requested that the QA meeting continue to be held in advance of the Management Meeting.

Mr. Bill Reamer (NRC) provided updates on the status of 10 CFR Part 63, the Yucca Mountain Review Plan (YMRP), NRC's concurrence on 10 CFR Part 963, and NRC's sufficiency review. The status of these activities remains unchanged since the previous Management Meeting. He indicated that prelicensing consultations with DOE may need to be revisited depending on the differences between the final and proposed rules. He indicated that NRC expected DOE to submit a license application consistent with the guidance provided in YMRP for format and content. Mr. Reamer stated that no further action would be taken on the NRC's strategy and guidance for its sufficiency review until the final 10 CFR Part 63 is issued and the YMRP is revised to be consistent with the final rule. Regarding the Licensing Support Network (LSN) Rulemaking, Mr. Reamer stated that the staff expected to complete its review of comments and provide its recommendations to the Commission early in 2001. He indicated that the timing of DOE's certification of LSN availability was one of the principal issues raised in the comments.

Ms. Judy Treichel (Nevada Nuclear Waste Task Force) asked if the final 10 CFR Part 63 would be issued before the YMRP so that it would be possible to see how comments on the rule were treated before reviewing the YMRP. Mr. Reamer stated that the final 10 CFR Part 63 would be issued and then changes would be made in the YMRP to make it consistent with the final rule.

DOE Program Update

Mr. Don Horton (DOE) indicated that milestones for licensing may change as a result of work currently being planned to address issues raised by the Nuclear Waste Technical Review Board (NWTRB). He stated that DOE would keep NRC informed of such changes. Mr. Horton briefly discussed the announcement by Secretary Richardson of an investigation by the DOE Inspector

General of allegations made regarding contractor bias. He stated that the Site Recommendation Consideration Report (SRCR) would not be issued until this investigation is complete. Mr. Horton also stated DOE's belief that the scientific and technical work conducted by the Program and reflected in its technical documents is unbiased and of high quality and provides the basis for the issue resolution process currently underway. Mr. Reamer said that the issue resolution process should proceed independently of the SRCR schedule. NRC staff would be amenable to an adjustment in the schedule for issue resolution due to a lack of people or resources, he added, but not to a shortening of its current 6-month schedule for sufficiency review of the SRCR.

Mr. Horton introduced Mr. Ken Hess, General Manager of the Bechtel SAIC Company, LLC. Mr. Dick Spence (DOE) provided a detailed discussion of the contractor transition process, its status and schedule for completion, including the turnover of ongoing work. Mr. Spence provided a complete list of the transition issues identified. Mr. Greeves also expressed interest in how the employee concerns program is being handled in the transition and indicated that he will follow-up with Mr. Horton. Mr. Greeves stated that NRC was interested in follow-up discussions on QA and other regulatory issues with DOE and its new M&O contractor after the transition period ends.

Key Technical Issues (KTI) Status

Ms. Carol Hanlon (DOE) reviewed the status of KTI resolution. Ms. Hanlon proposed a basis for closure of two KTIs (Structural Deformation and Seismicity, and Igneous Activity) for consideration by the NRC. Mr. Reamer stated that NRC would respond to this proposal as well as to proposed date changes for future KTI resolution meetings. Ms. Sandy Wastler (NRC) indicated that NRC was concerned by the potential delay in availability of the Features, Events, and Processes (FEPs) database for NRC review prior to a meeting on the Total System Performance Assessment and Integration (TSPAI) KTI. Ms. Hanlon indicated that DOE would keep NRC informed of the status of the FEPs database. Mr. Reamer (NRC) stated that the Chairman of the Commission had received a letter from Ms. Treichel regarding the issue resolution process and would be responding shortly.

Action Items

Mr. Tim Gunter (DOE) presented the status of action items from previous Management Meetings. He also presented a proposal for capturing action items in a list that would be updated after every meeting, included as part of the meeting summary, and discussed at the subsequent meeting. Actions identified as complete would be archived and deleted from the list for the next meeting.

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

1. NRC will follow-up with DOE on Employee Concerns Program as part of transition.
2. DOE will provide NRC with clarification regarding which transition issues are related to regulatory and QA matters.
3. A KTI breakout session will be held prior to the next Management Meeting.

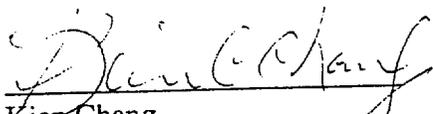
4. DOE will provide an update on the status of FEPs database availability to NRC prior to the Technical Exchange on TSPA I KTI.

Closing Remarks

Mr. Horton emphasized that QA will continue to be important to DOE and that DOE will monitor implementation by the new M&O contractor.

Mr. Greeves stated that NRC will monitor DOE's implementation of its QA program and that he wants an opportunity to meet with the new contractor to share NRC perspectives on past history.

No closing remarks were made by the AULG or other Interested Parties.



Kien Chang
Division of Waste Management
Office of Nuclear Material
Safety and Safeguards
U.S. Nuclear Regulatory Commission



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

ENCLOSURE 2

TENTATIVE AGENDA
NRC/DOE Quarterly Management Meeting
December 20, 2000
2:00 PM to 4:00 PM EST
11:00 AM to 1:00 PM PST
NRC White Flint (Room T2B5) Rockville, MD
V-Tel to SW Research Center (Room A103) San Antonio, TX
V-Tel to DOE Headquarters (Room 7F-091) Washington, D.C.
V-Tel to DOE-Hillshire (Room 516) Las Vegas, NV

Introductory Comments	NRC/DOE
NRC Program Update	NRC
DOE Program Update	DOE
Key Technical Issues Status	DOE
Action Items	NRC/DOE
Closing Remarks	ALL

ENCLOSURE 3

ATTENDANCE LIST
 NRC/DOE Management Meeting
 December 20, 2000
 Rockville, MD

Name	Organization	Phone	E-Mail
Kien Chang	NRC/DWM	301 415-6612	KCC@NRC.GOV
Bob Gamble	MTS/BAH	702-794-1440	Robert_gamble@ymp.gov
PETER F RIEHM	SAIC	301-601-8276	Peter.F.Riehm@saic.com
Michael Cline	MTS/BAH	702 794 5481	mike-cline@ymp.gov
KENNON KRESS	BECHTEL-SAIC	702-362-3084	KRESS@BECHTEL.COM
NANCY WILLIAMS	BECHTEL-SAIC	702-249-8890	nhwillia@bechtel.com
JIM YORK	DOE-Allen	202-626-1027	jim.york@rw.doe.gov
Chris Einberg	DOE/OCRWM	202-586-8869	christian.Einberg@HQ.DOE.GOV
Tim McCartin	NRC/DWM	301 415 7285	tjm3@nrc.gov
LARRY CAMPBELL	NRC/DWM	301 415-5000	llc3@nrc.gov
Richard Sance	DOE/OCRWM	(702) 794-4555	Dick-Sance@ymp.gov
April Gil	DOE/YM	702 794-5578	April-gil@ymp.gov
Alan Brownstein	DOE/OCRWM	(202) 586-4973	
DONALD HORTON	DOE/YMSPD	(702) 794-1001	
LOUIS LONG	So. NUCLEAR	205-992-7562	LBLONG@SOUTHERNCO.COM
SWASTIK	NRC/DWM	301-415-8733	SLW1@NRC.GOV
David Brooker	NRC/DWM	301-415-7284	DJB@NRC.GOV

List of Attendees
December 20, 2000
DOE/NRC Management Meeting
Location: LAS VEGAS - HILLSHIRE (ATRIUM)
(city, state / organization - building)

Name	Organization	Phone
Ronald Kohn	MTS L/DW-6	794-5376
E. J. LIFENHAINEN	CCCP	755-5134
Steve Arshman	NV NUPD	775-687-3244
Judy Treichel	NNUWTF	702-248-1127
ROBERT LATTA	US NRC	702 794-5048
S. J. CERRETIANO	BSC	249-8284
FRANK KRATZINGER	MTS	794-5057
George Hellstrom	DOE	794-1559
Chad Glenn	NRC	794-5046
Bob Stadlbauer	MTS	794-5424
Kathryn S. Krupp	MTS	794-5093
VINCENT F TORII	DOE	794-1470
DENNIS ROYER	DOE	794-1858
Marty Bryan	MTS L/C	295-6273
Sean Younger	MASTRW	295 5497
Barbara McKinnon	MTS/BAH	794-5460
Robert L. Fish	MTS/BAH	794-5444
RAM B. MURPHY	DOE/RW-3	794-5549
DENNIS R. WILLIAMS	DOE/YM/OLRC	794-5326
STEPHAN BROUWEN	DOE/YM/OLRC	794-1359
Carol Hanlon	DOE/YM/OLRC	794-1324

ENCLOSURE 4



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

OCRWM M&O Contract Transition

Presented to:
NRC/DOE Management Meeting

Presented by:
Richard E. Spence
OCRWM Transition Management Team
Department of Energy
Yucca Mountain Site Characterization Project

December 20, 2000

YUCCA
MOUNTAIN
PROJECT

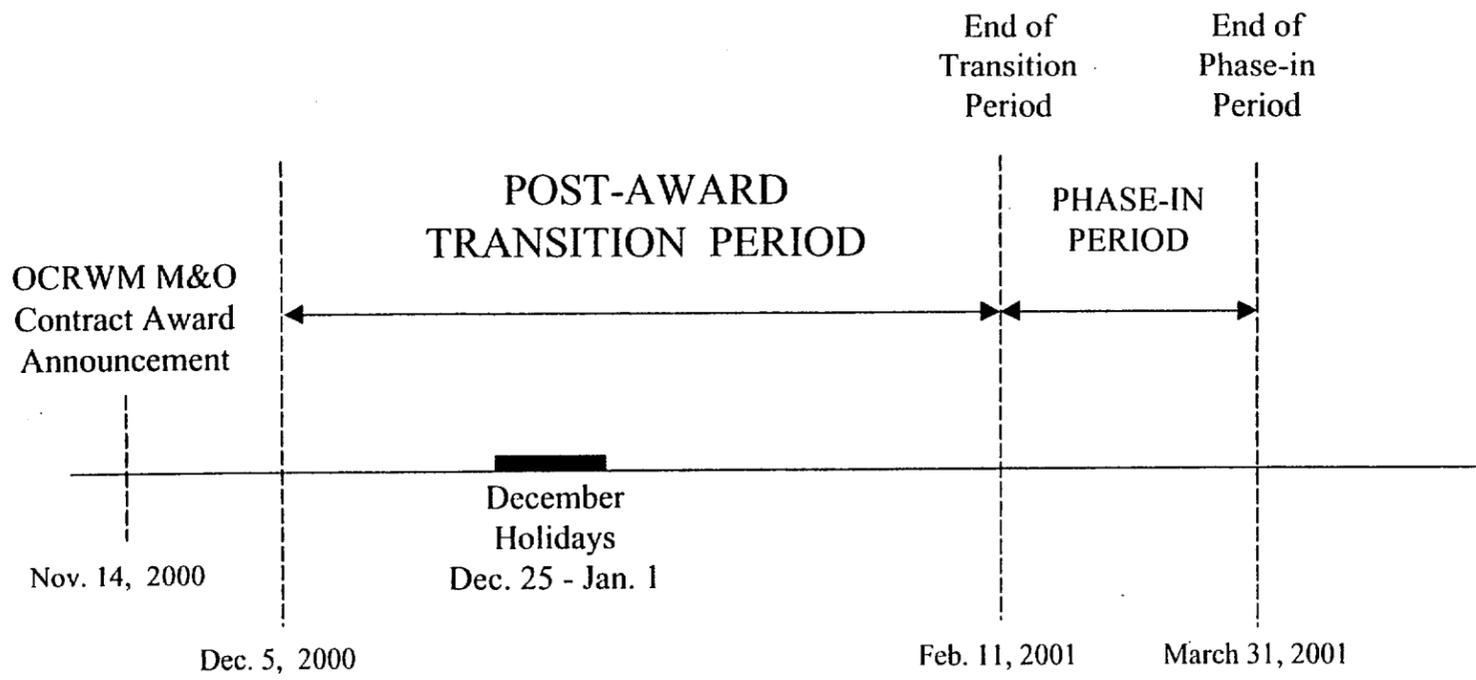
Overview

- **Transition Objectives**
- **Timeline**
- **Transition Teams and Organization**
- **Transition Process**
- **Capturing all the Work**
- **Summary of Pre-Award Planning**
- **Transition Briefing Hierarchy**
- **Summary of BSC Accomplishments**
- **Phase-in Period**

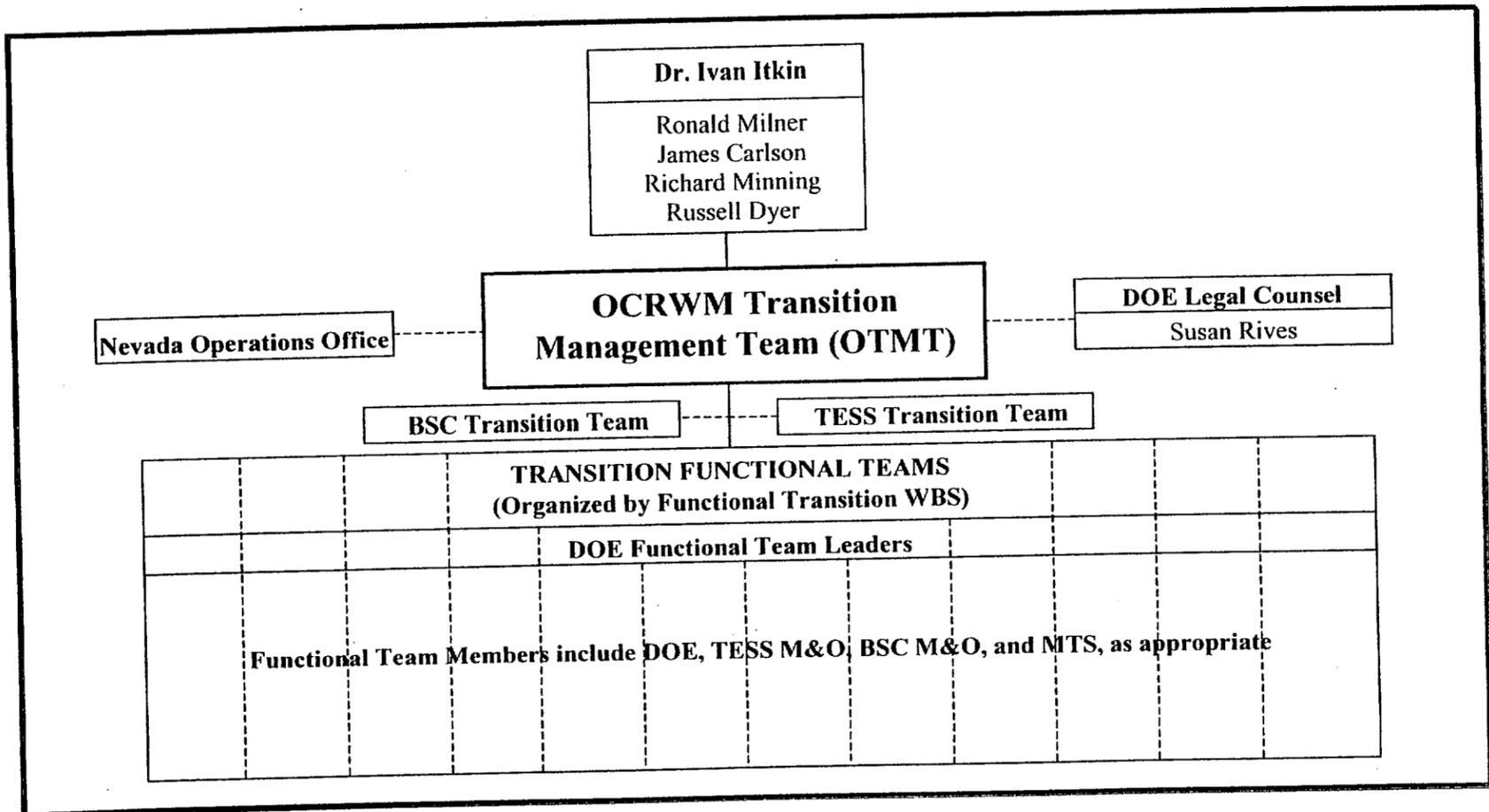
OCRWM M&O Contract Transition Objectives

- **Conduct Orderly Transition of Workslope**
- **Maintain Continuity of M&O Work**
 - Retain traceability and defensibility
- **Minimize Impact to Employees**
 - Expedite personnel interviews and employee retention
 - Lab and USGS Principal Investigators retained per RFP
- **Minimize Impact on On-going Work Activities and Milestones**
- **Minimize Total Cost of Transition**

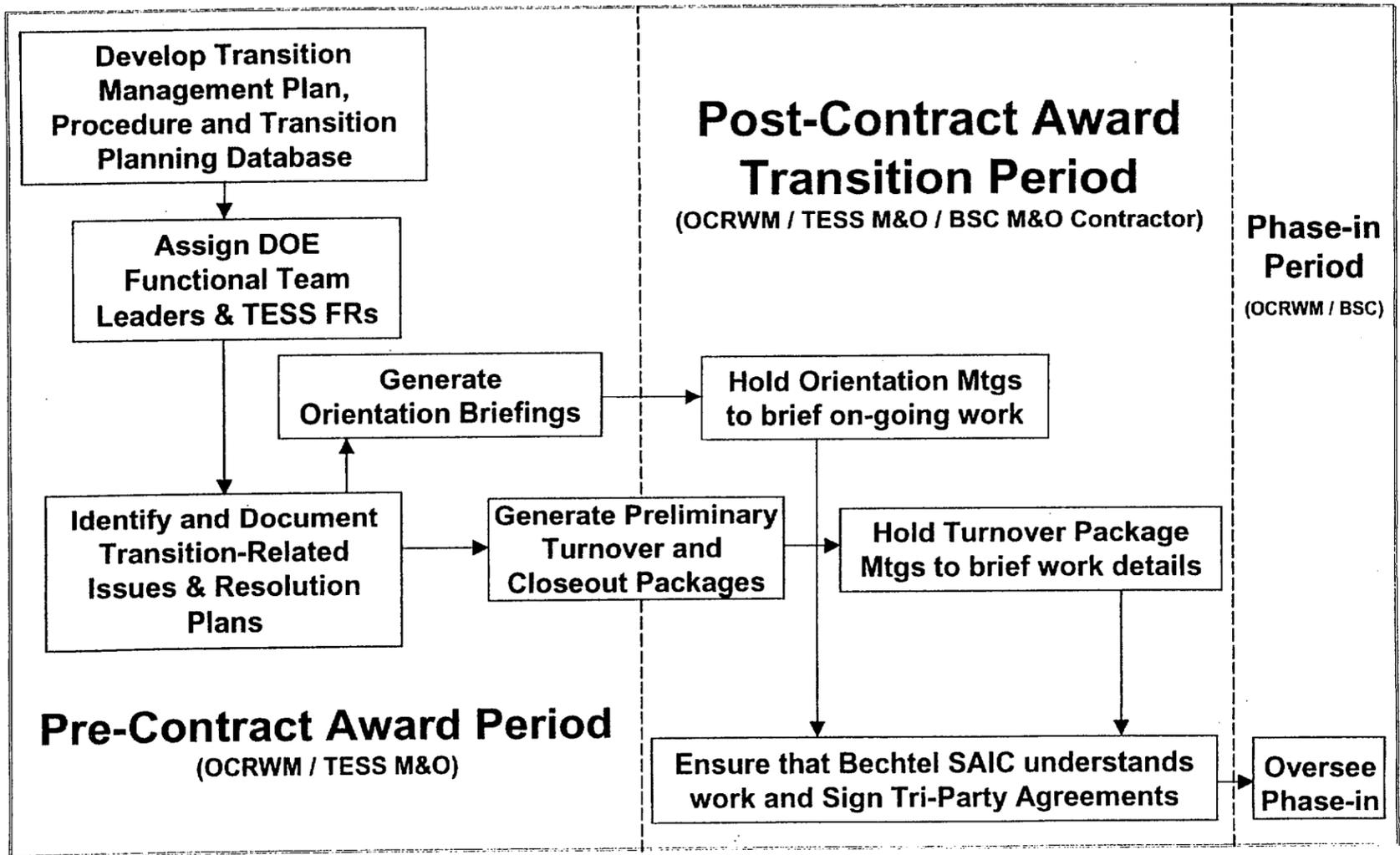
M&O Contract Transition Timeline



Transition Teams and Organization

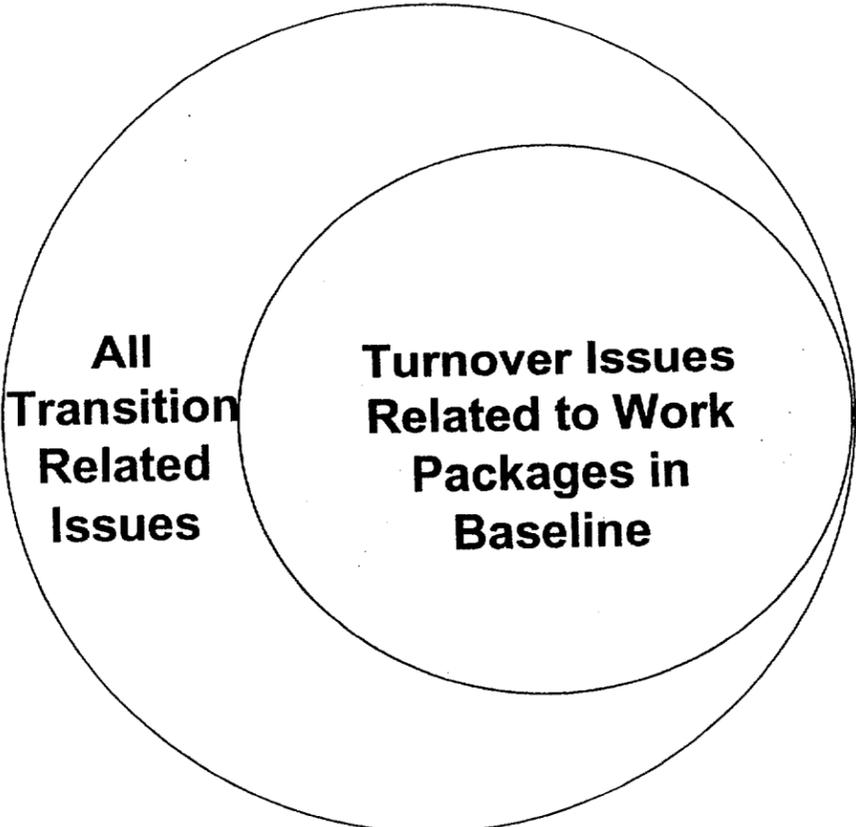


Transition Process

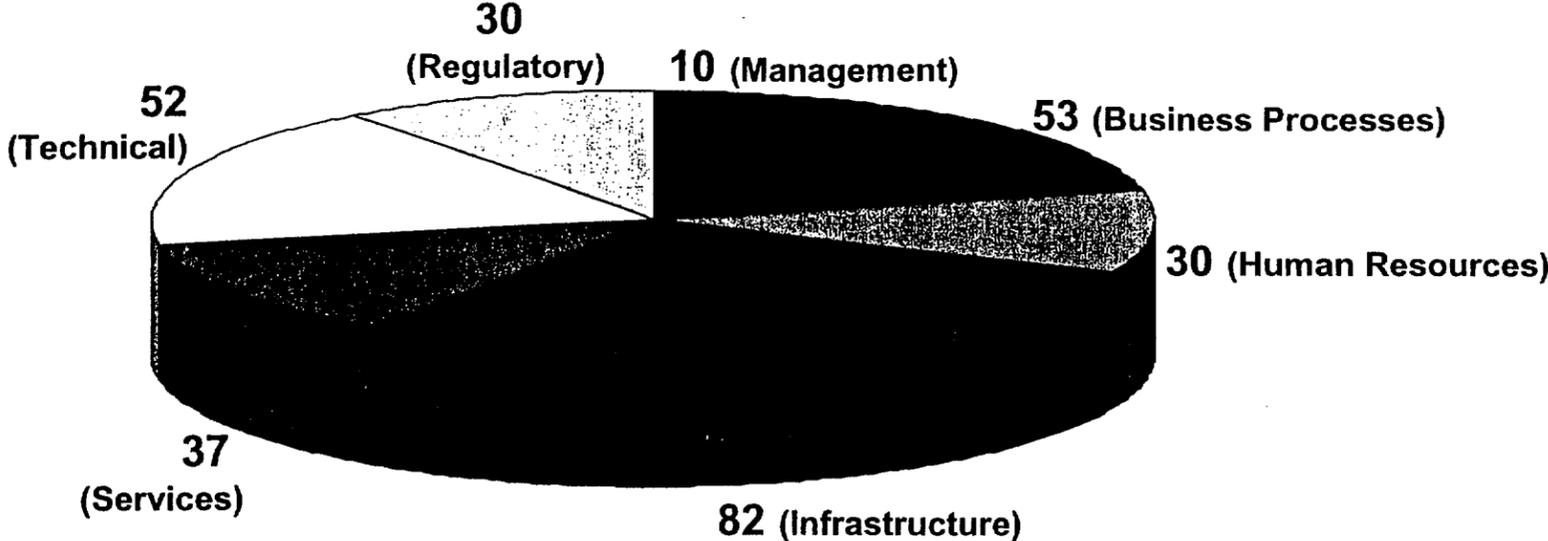


Issues to Capture/Turnover the Work

An issue is any M&O work-related item which if not addressed could negatively impact the continuation of that work by the new contractor



Summary of Transition-Related Issues (TRI)



Total Number of Transition-Related Issues = 293

Transition-Related Issue (TRI) Examples

- **Provide status of License Application**
 - History, background, basis for decisions
- **Provide status of cross-cutting technical issues**
- **Provide regulatory interface protocol on KTIs**
- **Provide status of documents and systems associated with the License Application**
 - Technical Guidance Document
 - License Application Management Plan
 - Key Technical Issue Documents
 - Licensing Support Network

Impact Category Definitions

- **Impact Category A**

- Any issue which, if not addressed and mitigated early in the transition period, will have a measurable, unrecoverable, negative impact to major milestones or deliverables

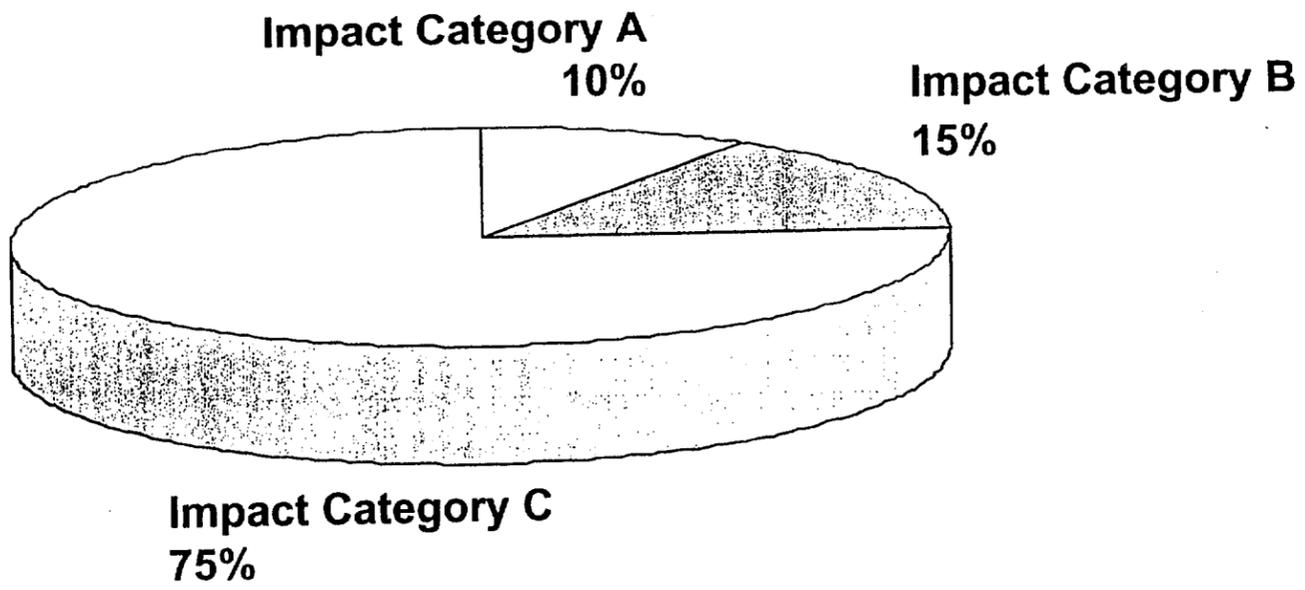
- **Impact Category B**

- Any issue which, if not addressed and mitigated early in the transition period, may have a measurable, unrecoverable, negative impact to major milestones or deliverables

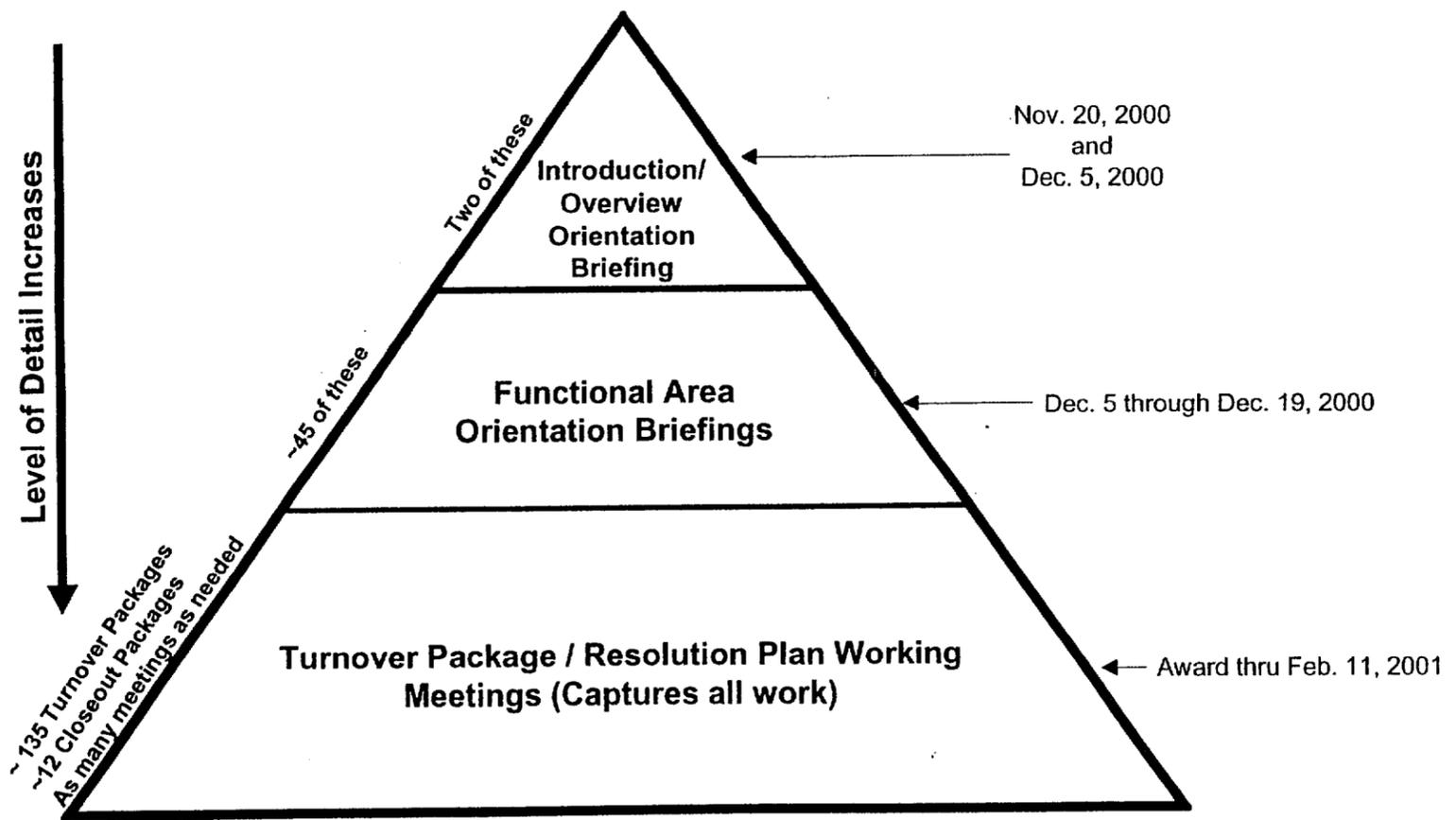
- **Impact Category C**

- Any item necessary to complete the transition but with no potential for negative impacts on major milestones or deliverables

Impact Category Distribution



Hierarchy of Transition Briefings



Summary of BSC Accomplishments

- **Established fully functional Bechtel SAIC transition office**
- **Held four employee “all-hands” meetings in LV**
- **Held two employee “all-hands” meetings in DC**
- **Initiated job interviews with incumbent contractor personnel**
- **Established and maintained 24-hour telephone hotline**
- **Developed a communication website (BSCupdate.com)**
- **Submitted an updated transition plan including revised cost and schedule baselines**
- **Completed functional mapping to realign the current divisional organization into a project organization**
- **Maintaining critical skills through contingent offers to key incumbent personnel**

Phase-in Period Activities

- **Complete any residual Turnover Packages**
- **Perform check of BSC Project Control System to ensure that all work packages have been captured or accounted for**
- **Continue monitoring transition-related activities that are incomplete**
- **Address all remaining issues to ensure a successful M&O contract transition**
- **Transition Team function is officially complete by April 1, 2001. Thereafter, any residual issues will be handled by line management**

Summary

- **Transition process was developed and approved**
- **Transition planning was thorough**
 - **Transition-related issues identified and prioritized**
 - **Orientation Briefings prepared**
 - **Turnover Package preparations ongoing**
- **Transition plan is being implemented**
- **Transition status reported to management on a regular basis**

Issue (impact)	Title	Description
TB01-001 (B)	Business Processes - Procurement & Sub-Contracts	Identify and prepare for assignment all open purchase orders and service contracts that will be the responsibility of the new contractor.
TB01-003 (B)	Business Processes - Procurement & Sub-Contracts	Identify the costs associated with any subcontracts, that will expire on (date) to assure that funds will be made available to the new contractor for payment of these costs.
TB01-007 (B)	Business Processes - Memorandum Purchase Orders (MPO's)	National Laboratory's prime transition issue is continuity in contractual obligation and attendant funding and our ability to bill. The technical work will continue and we trust we will be notified as to organization and reporting relationships.
TB02E-001 (A)	Budget Briefing	Brief incoming personnel on assistance and support in preparation of Budget Presentation Packages, Office of Management and Budget (OMB) Passback, Budget Rollout, and Appropriations Staff briefing.
TB02W-001 (C)	Technical Direction Letters (TDL)	Transition pending TDLs - Office of Civilian Radioactive Waste Management (OCRWM) West
TB03-001 (C)	Business Processes - Auditing	Disposition of Internal Audit Reports findings.
TB04-001 (C)	Business Processes - Procurement & Sub-Contracts	Imprest Funds Turnover
TB04-006 (C)	Taxes	Taxes that M&O Contractors pay & the required registration forms will be completed and submitted to the proper recipients by the required due dates.
TB04-008 (C)	Business Processes	Credit Cards
TB04-010 (C)	Business Processes - Accounting & Financial Services.	Fiscal Accounting Close-out. Book accruals against funding source.
TB04-011 (B)	Business Processes - Accounting & Financial Services	Establishment of a program Payroll System
TB04-012 (B)	Business Processes - Accounting & Financial Services	Continuity of accounts payable, travel procedures, and cost reimbursement to travelers.
TB04-013 (C)	Business Processes - Accounting & Financial Services	Identify all uncosted obligations, including building leases, to assure that all funding has been planned for withholding the cost ceiling limits and that all uncosted obligations are identified as either encumbrances, worksopes, or unencumbered items.
TB04-014 (B)	Letter of Credit	Letter of Credit
TB04-015 (C)	Insurance	All Property & Casualty Insurance for TRW will be closed out
TB05-001 (C)	Business Processes	Identify all current memo of understanding describing the relationship between the M&O, United States Geologic Survey (USGS), and Department Of Energy (DOE).
TB05-002 (C)	Business Processes - Contracts	Final fee determination for TRW
TB05-003 (C)	Business Process - Contracts	Complete routine reports during/after transition.
TB09E-001 (C)	Technical Direction Letters	Transition pending Technical Direction Letters (TDL) – Office of Civilian Radioactive Waste Management (OCRWM) East
TB09E-003 (C)	Cost Schedule Control System	Transfer knowledge and records on the Cost Schedule Control System, including data and sensitivity analysis capability
TB09E-004 (C)	Director's Program Briefing	Brief incoming personnel on the scheduling, developing, and coordinating the Program Status and Issues meetings for the Program, Office of Acceptance, Transportation and Integration (OATI), and Program Management & Administration (PM&A) held approximately every 2-3 months.
TB09E-005 (B)	Monthly Program Financial Summary	Brief incoming personnel on support and drafting of the Monthly Summary of Program Financial and Budget Information. Transfer work, records and internet connections.

Issue (impact) Title	Description
TB09E-006 (C) Preparation of Annual Work Plan	Brief incoming personnel on support to preparation of Annual Work Plan. Transfer work for 9/00 document preparation support. After award, revise RW40/50 FY01 work plans to reflect transition.
TB09E-007 (C) Quarterly Financial Reports	Brief incoming personnel on preparation of quarterly financial reports covering funds and performance status of program for Office of Civilian Radioactive Waste Management (OCRWM) report to Department Of Energy (DOE)
TB09E-008 (C) Monthly Financial Reports	Brief incoming personnel on preparation of monthly financial and performance reports for Office of Acceptance, Transportation and Integration and Office Program Management & Administration (OPM&A).
TB09W-003 (C) Business Processes - Project Planning & Control (PP&C)	Brief incoming personnel on preparation of Annual Work Plan. Transfer information regarding Fiscal Year 2001 planning effort.
TB09W-004 (C) Business Processes - Project Planning & Control (PP&C)	Brief incoming personnel on Baseline Management processes, procedures, and documentation.
TB09W-005 (C) Business Processes - Project Planning & Control (PP&C)	Brief incoming personnel on monthly reporting processes including customer reports and briefings generated by PP&C.
TB09W-006 (C) Business Processes - Project Planning & Control (PP&C)	Transfer knowledge and records on the Cost Schedule Control System.
TB09W-007 (C) Business Process - Project Planning & Control (PP&C)	Inventory and Turnover Historical PP&C Data
TB12E-001 (B) Building Leases - East	Determine M&O East building leases to be transferred to the new M&O
TB12E-002 (B) Offices in the east - new contractor	Conduct space planning for successor contractor team when they initially arrive after contract award.
TB12E-003 (C) Real Property Management - East	Remove TRW Logo from TES1 Building
TB12E-004 (B) Real Property Management - East	Establish New Contracts with Outside Vendors to replace corporate TRW Facilities, Health & Safety, & Security Services Support
TB12E-005 (B) Equipment Removal/Disposal	Removal of Government- Furnished Equipment (GFE), Heating Ventilation Air-conditioning (HVAC) and Electrical Equipment for Sale/Disposal
TB12E-006 (B) Real Property Management - East	Service/Maintenance Contracts for Washington, DC area.
TB12W-001 (C) Business Processes - Contracts	TRW to assign Summerlin leases to new contractor.
TB12W-002 (C) Bonding requirements - utilities	Establish bonding requirement for utilities for all M&O facilities to assure no interruption of service.
TB13-001 (C) Trans & Mgmt Motor Pool	Transfer lease agreements for General Services Administration (GSA) Vehicles to new contract.
TB14-001 (C) Business Processes - Materials Management	Brief successor on Department Of Energy's (DOE) expectations regarding Material Management System.
TB14-002 (C) Services / Inventory Control	Transfer all accountable materials/parts.
TB15-001 (C) Property Inventory	Conduct joint inventory and reconciliation and transfer of accountable government property.
TB15-003 (C) Excess Property	Transition responsibility for disposal of excess property and establish cutoff date for TRW transactions.
TB15-011 (C) Rental Property	Ensure Rental Property from Commercial Sources is returned or purchase order and property are assigned to new contract.
TB15-014 (C) Property Control	Transition responsibilities for identification, records, tracking and reporting of government property associated with the contract and the Department Of Energy/Yucca Mountain Site Characterization Office.

Issue (impact) Title	Description
TB15-016 (C) Property at the National Laboratories	Brief successor with Department Of Energy on Yucca Mountain Project property tracked by the National Laboratories
TB15-020 (C) Radiological History	Ensure continuing availability of radiological history and clearance records to support future disposition of government property.
TB15-021 (C) Tunnel Boring Machines (TBM)	Transfer information regarding General Services Administration (GSA) sale and Equipment Held for Future Projects (EHFFP) status of Tunnel Boring Machines (TBM)
TB15-025 (C) Capital Acquisitions	Coordinate processing of capital acquisitions from point of requisition through financial transfer during the entire transition period.
TB15-026 (C) Property Files	Identify property files that need to be transitioned in hard copy or electronic formats to the new contract.
TB15-028 (C) Vienna Furniture Sublease - East	Evaluate alternatives for disposition of furniture associated with Vienna 8th floor Sublease.
TB15-029 (C) Property Computer Based Training (CBT)	Brief successor on Yucca Mountain Project/M&O Managing Government Property Computer Based Training (CBT).
TB15-030 (C) Nevada Test Site/Bechtel Nevada Rentals	Ensure return or transition of Nevada Test Site/Bechtel Nevada Rental Equipment to new contract.
TH01-001 (C) Worker Compensation	Determine responsibility for handling open Nevada contested worker compensation claims at time of contract expiration.
TH01-003 (C) Equal Employment Opportunity (EEO) Audits	Status of open EEO audits/appraisals at time of contract expiration.
TH01-004 (C) Performance Management Process	Brief incoming Human Resources on the Performance Management Proces/Form. Close out 2000 performance year.
TH01-006 (C) Personnel Files	Prepare for the disposition of personnel files and confidential employee data.
TH01-007 (C) AFS Forms - HR	Transfer ownership or delete HR forms on the Automated Form System.
TH01-010 (C) Human Resources (HR) Web Pages	Transfer ownership or delete pages on M&O HR web site used by M&O employees. Delete TRW-specific links.
TH02-001 (C) Health/Dental Plans	Health/dental Plans: including Internal Revenue Sservice Section 125 Health & Dependent Care Accounts: COBRA, adequacy of reserves; vendor contracts; employee new year enrollments, employee communication. The method for closeout and transition of this item needs to be resolved with the successor contractor.
TH02-002 (C) Retirement/Pension Plan	Retirement/Pension Plan: Adequacy of trust funding, employee communication. The method for closeout and transition of this item needs to be resolved with the successor.
TH02-003 (C) Investment Savings Plan	Investment Savings Plan: employee communication of change. The method for closeout and transition of this item needs to be resolved with the successor.
TH02-004 (C) Long Term Disability Plan	Long Term Disability Plan: liability of existing claims; employee communication. The method for closeout and transition of this item needs to be resolved with the successor contractor.
TH02-005 (C) Sick Leave Plan	Sick Leave/Salary Continuation Plan: existing employees have accrued benefit, communication to employees. Need to address carry over provisions (if any) to new contractor. The method for closeout and transition of this item needs to be resolved with the successor.
TH02-006 (C) Vacation/Annual Leave	Annual Leave - identify amounts for payout or carryover of accrued benefit at the end of this contract or carry-over provisions. The method for closeout and transition of this item needs to be resolved with the successor contractor.

Issue (impact)	Title	Description
TH02-008 (C)	Educational Reimbursement	Educational Reimbursement: determine close out or transfer of costs for employees currently enrolled in an approved class.
TH02-009 (C)	Retiree Supplemental Compensation	Identify participants in health/dental plan continuation for retirees.
TH03-001 (C)	Summer Intern Program	Brief successor contractor on summer intern program.
TH03-002 (C)	Organization Charts	Brief successor contractor on Organization Chart/Organization Profiler process. Provide for continual updates to org. charts and method of viewing the new organization (if needed).
TH03-003 (C)	Status of Workforce	Report Status of workforce assigned to other locations/sites (TDY, permanent, telecommuters)and employees on Leave of Absence
TH03-004 (B)	Outplacement/Career Center	Summarize Reduction in Force (RIF)/de-staffing process for TRW and Teammates during/after Transition. Include plan for Outplacement/Career Center. Coordinate with successor contractor.
TH03-005 (C)	Relocation Costs	Relocation: identify TRW and Teammate employees costs for return relocation agreements.
TH03-006 (C)	Employee Separation Costs	Identify costs of employee separation, if any.
TH03-007 (A)	Interviewing/Hiring/Transfer Process	Coordinate interviewing, hiring and transfer process with the successor contractor.
TH03-008 (C)	Human Resources (HR) Databases	Brief successor contractor on all non-TRW proprietary M&O/HR databases and arrange for transfer of data. i.e., Task Achievement Program (TAP), Automated Offer System, etc.
TH03-009 (A)	Critical Skill Retention During Transition	Identify staff working on critical work.
TH04-001 (C)	Formal Training	Transfer all existing training policies, programs, plans, procedures, manuals, training needs assessments, and course materials including Computer Based Training (CBT's), videotapes, etc. Transition all training responsibility, including responsibility for CBT, web-based training, and classroom training provided both locally and off-site.
TH04-003 (C)	Training Records & Software Systems	Transfer all existing training records, Training Server database (training record data including training completions, training requirements, and course descriptions) Crystal Reports software .
TH04-005 (C)	Training Deliverables	Transition the following deliverables including the format and data processing mechanism required for preparation: (1) Training Cost Information Annual Update, (2) Annual Training Plan, (3) Annual Training Needs Assessment, (3) Annual Training Needs Assessment, (4) Environmental, Safety and Health Training and Qualification Program.
TH04-006 (C)	DOE Cross-Cutting Training Forum	Transfer the responsibility for supporting the DOE Cross-Cutting Training Forum (CCTF).
TH04-007 (C)	Training Section for License Application	Transfer all work completed to date on the Training Section of the License Application
TH05-002 (C)	Workers Compensation Insurance	Ensure uninterrupted workers compensation insurance.
TH06-001 (C)	Human Resources (HR) - Labor Relations	Transfer of union contracts.
TI01-002 (C)	U.S. Department of Transportation (DOT) Hazmat Shipping/Handling	Orient new contractor with DOT standards regarding handling and shipping of hazardous materials.
TI01-004 (C)	Borehole Security	Transfer knowledge and responsibility for borehole security.
TI01-006 (C)	Site Facilities & Systems Status	Transfer knowledge and status of each site facility or system. Include reference to as-builts, Operations and Maintenance (O&M) drawings, etc. Include the Operations Center.

Issue (impact)	Title	Description
TI01-007 (C)	Ranch Control	Transfer knowledge associated with the operation of Ranch Control.
TI01-008 (C)	Ground Support Monitoring	Transfer knowledge associated with the Exploratory Studies Facility (ESF) Ground Support Monitoring program.
TI01-009 (C)	Site Technical Library	Transfer knowledge associated with the Site Technical Library.
TI01-010 (C)	Tour Support	Transfer knowledge of Site tour support provided by Site Construction & Operations
TI01-011 (C)	Nye County Drilling	Describe the interface with the ongoing NYE County drilling and testing programs.
TI01-012 (C)	Nevada Test Site (NTS) Interface	The Project interfaces with the NTS for certain services through an Memorandum Purchase Order (MPO) between TESS & NTS contractor (Bechtel). This information must be transferred to the new contractor. Services include Buses, Electricity, Water from Wells J-12 & J-13, Medics, Security, Fire Protection, & Communications. Also, the offsite Medical head tax paid based on employee distribution between NTS and LV.
TI01-013 (C)	Outstanding Deficiencies	Identify any outstanding deficiencies associated with Site operations. These would include Deficiency Reports/Corrective Action Reports, Non-conformance Reports, Occupational Safety Compliance Reports, ECSRs, IAPs from Independent Assessments, Exploratory Studies Facility Design Requirements, Surface-based Testing Facility Requirements Document, open Technical Direction Letters, and any other open deficiencies.
TI01-014 (C)	Central Support Area	The Project currently utilizes several facilities in the Central Support Area of Nevada Test Site Area 25. The new contractor will need to be briefed on the what facilities are used, what functions occur in these facilities, what permits exist with the NTS, and the issue related to the State waste water permit for this area.
TI01-015 (C)	Site Construction & Ops/Repository Design interface	Transfer knowledge related to the interface between the Site Construction & Operations organization and the Repository Design organizations.
TI01-017 (C)	Qualified Software used by Site Construction & Ops	Identify all Qualified Software and software requiring qualification that is used by Site Construction & Operations.
TI01-018 (C)	SC&O FY01 Plan	Transfer knowledge of the FY01 Site Construction & Operations portion of the Annual Plan. Include overall workscope, budget, schedule and report of status against the plan (variances).
TI01-022 (C)	Site Development Plan	Transfer knowledge associated with the development and revision of the Site Development Plan
TI02-001 (C)	MAXIMO Software	Transfer knowledge and license for the MAXIMO maintenance management software tool. Include information concerning all preventive maintenance activities included in the system.
TI03-001 (C)	Unfinished Construction	Identify and transfer knowledge related to any unfinished Exploratory Studies Facility construction work. This would include Title III Evaluation Report (TERs) recommendations, 3.01X areas (ground support), etc.
TI04W-001 (C)	Standards/Requirements Identification Documents (S/RID) Database	Transfer of the S/RID data for the Environmental Safety & Health requirements derived from DOE directives with implementing mechanisms and documented evidence to the new contractor
TI04W-002 (C)	External Integrated Safety Management System (ISMS) verification Deficiencies	Brief the incoming team on remaining deficiencies and issues from the ISMS external verification that are not completed/closed
TI04W-003 (C)	Requirements Management	Implementation of the Requirement Management Integration Group (RMIG) will be in mid-program including possibly changing the RTN platform to a new system. The new contractor will need to be briefed on the status and selected path forward towards a complete Requirements traceability management system

Issue (impact) Title	Description
TI06E-001 (C) Program briefing	Brief incoming contractor on HQ ES&H - related activities, policies and procedures, including ISM, IH (Industrial Hygiene), and NEPA activities.
TI06W-001 (C) ES&H Environmental Compliance	Brief the new contractor on the status of all environmental permits, agreements, land withdrawals and rights-of-way, and compliance requirements, including actions required by the contractor to comply with permit conditions, collected permit related data, and prepare compliance reports.
TI06W-002 (C) ES&H Environmental Surveillance	Brief incoming contractor on the status of the Environmental Compliance (ECS) Surveillance Program, including records, open ECS Reports (ECSRs) and proposed corrective action status.
TI06W-003 (C) ES&H Data Collection Program	Brief incoming contractor on environmental data requirements, monitoring requirements, data sets, databases, subcontract/consultant agreements, records and controlled documents.
TI06W-004 (C) ES&H Regulated Materials Management	Brief incoming contractor on the status of the regulated materials management program, including current Request For Approvals in process, hazardous waste stored at the Satellite Accumulation Areas, YMP Project Accumulation Area, hazardous waste disposal contractors, waste handling agreements with DOE/NV, and the status of regulated materials and hazardous waste records.
TI06W-005 (C) ES&H Radiological Environmental Monitoring Program	Brief the incoming contractor on radiological studies, data collected and radiological records.
TI06W-006 (C) ES&H Radiation Monitoring Program	Brief incoming contractor on the Airborne Radiation Protection Program from Naturally Occurring Radon.
TI06W-007 (C) ES&H Radiation Source Accountability	Transfer of custodianship and accountability of radioactive sources and radioactive materials/radiologically controlled areas.
TI06W-008 (C) ES&H Radiological Surveys of Equipment	Brief incoming contractor on the radiological survey program for free release of equipment and material.
TI06W-009 (C) ES&H Radiation Protection Program	Transfer the Radiation Protection Program and NV/YMP Radiological Control Manual.
TI06W-010 (C) ES&H Socioeconomics	Brief incoming contractor on socioeconomic data requirements, monitoring requirements, data sets, databases, subcontract/consultant agreements, records and controlled documents.
TI06W-011 (C) ES&H Payments Equal to Taxes	Brief incoming contractor on Payments-Equal-to-Taxes (PETT) program, including data requirements for all new organizations, close-out of departing organizations, attention to overlap during transition, records of government property transfers, etc
TI06W-012 (C) ES&H Safety and Health Program	Brief incoming contractor on Safety and Health program, including plans, procedures, records, deficiencies and status of proposed corrective actions.
TI06W-013 (C) ES&H Silica Program	Brief incoming contractor on the silica and erionite protection programs.
TI06W-014 (C) ES&H Mine Rescue	Brief the incoming contractor on information associated with the Mine Rescue Team.
TI06W-015 (C) ES&H Assessment Program	Brief incoming contractor on the status of the Environmental Safety and Health Assessment program, including identifying deficiencies, any potential environmental, health, or safety violations or open assessment findings, and proposed corrective actions.
TI06W-016 (C) ES&H National Environmental Policy Act	Brief incoming contractor on the status of compliance with the National Environmental Policy Act (NEPA).
TI07W-002 (C) Transition Firewall from M&O to RSIS	Transition management and administration of YMP Firewall from M&O West to RS Information Systems West.
TI07W-003 (A) Install/provide network access for new contractor	Network Operations will provide equipment and support necessary to ensure the new contractor has the ability to access the YMP network. It will include the creation of local and or remote accounts as required. This is an immediate priority issue for which we must have requirements from the new contractor upon contract award.

Issue (impact)	Title	Description
TI08E-001 (B)	Information Technology Systems Transfer	Information systems and databases that are used under the current contract may need to be transitioned to the successor contractor. Identify systems and databases that will transition and those that will no longer be required based on successor contractor requirements to facilitate implementation of successor systems. For systems and databases transitioning to new contract, identify current systems/database administrator.
TI08E-003 (C)	Computer Hardware and Software Identification	The CRWMS M&O Bar Code property numbers on computer systems are used by Information Technology (IT) to track problem calls to the Help Desk, software installations, and hardware/software configuration. Modification of this tag number under the successor contractor could result in the loss of valuable data. Brief successor contractor on CRWMS M&O Bar-Code Property Numbers and their uses by the IT organization.
TI08E-004 (B)	Information Management Staffing retention	Augment personnel with contract services if/when personnel of non-selected contractors leave the program.
TI08E-005 (C)	Cyber Security	Provide for transition of Cyber-Security Program and brief successor contractor personnel in on-going cyber-security efforts and issues.
TI08E-006 (C)	InterNet connection to Current Contractor	The CRWMS M&O maintains internet connections to TRW and these connections will need to be terminated at the end of contract.
TI08E-007 (C)	Information Technology - east Operations Contracts and Licenses Continuity	Identify all hardware/software maintenance contracts and software licensing agreements currently in use in Vienna. Provide for uninterrupted maintenance coverage of hardware and software systems during the transition period. Provide successor contractor with list and points of contact to negotiate new agreements with vendors.
TI08E-008 (C)	Migration of IT -East Computer Infrastructure to new location.	Identify all Information Technology (IT) infrastructure that needs to be migrated to alternative location. Vienna a facility may not be available and space at Capital Gallery (MD. Ave) may not have sufficient space to accommodate the IT Requirements.
TI08E-009 (C)	Information Technology (IT) to "clean" excess computer equipment.	Information Technology to delete OCRWM program records and software from excess computer equipment to facilitate disposal (e.g.; Gift, Sale).
TI08E-011 (C)	Turnover of Automated Forms System Database.	Turnover of Automated Forms System Database.
TI08W-001 (B)	Information Systems Continuity and Transition	Information management systems and databases, including mission-critical and mission-important systems, that are used under the current contract will need to be transitioned to the successor contractor. Those that will no longer be required, based on successor contractor requirements to facilitate implementation of successor systems, will be closed out. Provide a list of information management systems used in support of the OCRWM Program to the successor contractor. Prioritize the list of active systems. Identify current systems administrator and owner of each system, and required support to facilitate transition. Identify and list software that is currently in development or in process.
TI08W-002 (B)	Software Baseline Maintenance	Quality-affecting software will need to be transitioned to the successor contractor. Provide a list of computers by bar-code numbers that are currently used to run "Q"-affecting software, also listing the quality-affecting software that is loaded on the computers in order to ensure that baseline integrity is maintained in compliance with AP-S1.1Q.
TI08W-003 (B)	Computer Hardware and Software Identification	The CRWMS M&O Bar Code property numbers on computer systems are used by Information Technology (IT) to track problem calls to the Help Desk, software installations, and hardware/software configuration. Modification of this tag number under the successor contractor could result in the loss of valuable data. Brief successor contractor on CRWMS M&O Bar-Code Property Numbers and their uses by the IT organization.
TI08W-004 (C)	Non-IT Managed Information Systems Continuity	Information systems are being developed and operated by personnel who work for companies that are not part of any proposal. Identify and prepare a list of the non-Information Technology managed information management systems. Identify who has responsibility for ensuring a successful transition of such systems. Brief successor contractor to ensure continuity.

Issue (impact) Title	Description
TI08W-005 (C) Teammate Software	Teammates have their own software installed on their computers for business-related purposes. Identify and remove teammate software from computer desktops by the end of the transition period. This includes time card collection software for each of the current teammates.
TI08W-006 (C) Information Technology Work Package Transition	This issue serves as a place holder for Information Technology work that requires turnover to the new contractor but that is not covered in another issue.
TI08W-009 (C) Cyber Security	Provide for transition of Cyber-Security Program and brief successor contractor personnel in on-going cyber-security efforts and issues.
TI08W-010 (B) Server Operations Contracts and Licenses Continuity	Identify all hardware/software maintenance contracts and software licensing agreements currently in use on the YMP. Provide for uninterrupted maintenance coverage of hardware and software systems during the transition period. Provide successor contractor with list and points of contact to negotiate new agreements with vendors.
TI08W-011 (C) IT Computer Equipment Property Management	Provide Information Technology support to identify and assist in inventory and transfer of computer equipment and associated property records to the contract successor.
TI08W-012 (C) Non-M&O IT Computer Equipment Processing and Disposal	Provide Information Technology technical support to process, sanitization and dispose of equipment that is non-M&O property such as national labs or other contractors computer equipment that has been replaced or is being excessed and is cost-ineffective to return for processing.
TI08W-013 (C) Configuration Management Information System (CMIS) Enhancements	Provide an orientation briefing and turnover package for CMIS software systems.
TI08W-014 (A) Provide new contractor with computers	Ensure 200 computers are configured and sufficient software licenses exist to support the new contractor.
TI09E-001 (C) Correspondence Tracking	Transfer knowledge and records for operation and maintenance of the Correspondence Tracking System and associated Correspondence Control and Records Unit and interface with YM and the Executive Secretariat of DOE.
TI09E-002 (C) Mail Services	Transition mail room services for OCRWM at Forrestal
TI09W-001 (C) Controlled Document Tracking	Document holders and owners may change as a result of reorganization and employee departures during end of contract transition. Ensure Document Holders and Owners Report is maintained current based on contract transition, reorganization, and employee turnover. Transition Document Holders and Owners Report to successor contractor.
TI09W-002 (C) Controlled Document Inventory and Custodianship	Provide a controlled document turnover to the successor contractor with a complete and accurate inventory of the Document Control Master Hard Copy, Electronic Media, and Document Control Database Management Systems.
TI09W-003 (C) Controlled Document Plan and Procedure Changes	New business practices and methodologies during transition may require a large number of the current OCRWM/YMP/M&O procedures and plans to change. This will impact Document Control's ability to process deliverables and other controlled documents. Develop plan for potential influx of high volume of document changes.
TI09W-004 (B) Document Input Reference System (DIRS) Operational Issues	Currently DIRS tracks unresolved reference numbers (URNs) and to be verified/determined (TBx) information that is assigned to individuals in accordance with AP-3.15Q. Ensure responsibilities to track and close URNs and TBx information is reassigned if individuals leave the project or transfer to different organizations. Provide URN and TBx status report to successor contractor.
TI09W-005 (C) DIRS Database Authorization	Document Input Reference System (DIRS) has several levels of authorization access. The transition to a successor contractor introduces changes to all of these levels. Because DIRS is a "Q" database, these levels are essential and controlled access is Quality Assurance Requirements Document mandated. Ensure authorization is maintained current during transition and provide list of database access authorization levels to successor contractor.

Issue (impact) Title	Description
TI09W-006 (C) Copyright Clearance	Copyright permissions for technical products will need to be evaluated and those that are assigned to TRW will need to be reassigned to the new contractor or directly to the DOE. The DOE will need to provide guidance to the successor contractor on how to proceed with copyright acquisition under the new contract. Provide briefing on copyright clearance status.
TI09W-007 (B) Turnover of M&O and Teammate Records	Provide for the identification, oversight, turnover and submittal of all M&O and Teammate records to ensure that continuity of operation is maintained during the transition. Include records located at the national laboratories, USGS, and any other subcontractor locations. Ensure in-process records and completed records not yet submitted to the Records Processing Center are accounted for prior to personnel departure. Prepare and implement a plan to ensure all federal records are located, identified, boxed and shipped to the RPC in Las Vegas.
TI09W-007 (B) Turnover of M&O and Teammate Records	Provide for the identification, oversight, turnover and submittal of all M&O and Teammate records to ensure that continuity of operation is maintained during the transition. Include records located at the national laboratories, USGS, and any other subcontractor locations. Ensure in-process records and completed records not yet submitted to the Records Processing Center are accounted for prior to personnel departure. Prepare and implement a plan to ensure all federal records are located, identified, boxed and shipped to the RPC in Las Vegas.
TI09W-008 (B) Turnover of Departing Employee Records	Develop plan for the potential influx (high volume) of Federal Records turned over to the Records Processing Center from current employees leaving the YMP and/or closing out records prior to contract closure.
TI09W-009 (C) Maintenance of Records Signature Lists	Update AP-17.1Q required signature lists for successor contractor. Ensure that departing employees are on their latest signature list before departure.
TI09W-010 (C) Technical Information Center Continuity	The Technical Information Center (TIC) will need to transition to the successor contractor. Provide a complete and accurate inventory of the TIC to the successor contractor. Establish controls for the orderly return of library materials as personnel leave the Project. Define a process for the recovery of lost or misplaced materials. Address how lost or missing material will be handled by the departing contractor and how acceptance will be handled by the new contractor. Provide a briefing to the new contractor on current acquisition process and turnover of library materials.
TI09W-011 (C) Technical Information Center Electronic Reference Databases	The Technical Information Center (TIC) maintains access to several electronic reference databases that are used by project engineers and scientists for search and retrieval of information. Identify contracts and/or licenses for these databases. Provide for uninterrupted coverage during transition period. Provide successor contractor with list and points of contact to negotiate agreements with vendors for continuance of services. Provide information including financial obligations, access authorization, and database choices.
TI09W-012 (C) TechLib Cataloging Database	The Technical Information Center maintains the TechLib Cataloging Database. Maintain database current during transition period. Transition database to successor contractor. Provide information regarding database access, licensing, design, and maintenance.
TI09W-013 (C) Turnover of Forms hard copy inventory and distribution process.	Turnover of Forms hard copy inventory and distribution process.
TI09W-014 (C) Turnover of DOE Scanned Mail process.	Turnover of DOE Scanned Mail process.
TI10W-001 (C) Cellular Telephone Service	Brief incoming personnel on the administrative and billing process for cellular telephone service provided by the DOE/NV M&O contractor, Bechtel Nevada
TI10W-002 (C) Transfer Telecommunication Information	Transfer all telecommunication related design prints, specifications, technical information, circuit numbers, truth tables, routing paths, etc. to incoming contractor.

Issue (impact)	Title	Description
TI11-001 (C)	Copier/Printer Equipment Lease Agreements and Contracts	Lease agreements for copier/printer equipment and maintenance contracts are currently TRW agreements that are scheduled to expire before the new contract begins. The successor contractor will need to negotiate new agreements. Current contracts will need to be closed out. Successor contractor will need to provide continuity of operation and availability of equipment and respective maintenance agreements.
TI11-002 (C)	Government Printing Office Agreement	The current arrangement for printing through the Government Printing Office (GPO) will need to be changed from TRW to the successor contractor. The change must be made through the DOE. Coordinate with DOE and the successor contractor to ensure change occurs.
TM01-003 (C)	Management - Legal	The post-transition responsibility for open and/or potential litigation and claims must be resolved. Determination of which ones will be transferred to the responsibility of the successor contractor and which ones will require further action and continued involvement after 2/11/01. Contract close-out must be established.
TM03E-001 (B)	Transition Work Packages	Transition FY01 work plans for work authorized by RW-40/50 and RW-1/2
TM03E-002 (A)	Home Office Transitions	Close out and turn over work, equipment and documents in teammate home offices in the east.
TM03E-003 (C)	Orientation Briefing - Program Support - East (PME)	Orientation Briefing - Program Support. This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TR09E, TS07E, TT03E(001), TR08E. Requirement for this issue was established by the DOE OTMT.
TM03E-004 (C)	Orientation Briefing - General Management - East (GME)	Orientation Briefing - General Management. This briefing will cover Transition Work Breakdown Structure (TWBS) Element TM03E. Requirement for this issue was established by the DOE OTMT.
TM03E-005 (C)	Orientation Briefing - Waste Acceptance (WA)	Orientation Briefing - Waste Acceptance. This briefing will cover Transition Work Breakdown Structure (TWBS) Element TR06. Requirement for this issue was established by the DOE OTMT.
TM03E-006 (C)	Orientation Briefing - Systems Analysis /Integration - East (SAIE)	Orientation Briefing - Systems Analysis /Integration. This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TR08E(002-005), TR09E, TT03E(002), TT04E, TT04E, and TT12E(001). Requirement for this issue was established by the DOE OTMT.
TM03E-007 (C)	Orientation Briefing - Program Management Support - HQ (PMSH)	Orientation Briefing - Program Management Support. This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TB02E and TB09E. Requirement for this issue was established by the DOE OTMT.
TM03E-008 (C)	Orientation Briefing - Information Technology - East (ITE)	Orientation Briefing - Information Technology. This briefing will cover Transition Work Breakdown Structure (TWBS) Element TI08E. Requirement for this issue was established by the DOE OTMT.
TM03E-009 (C)	Orientation Briefing - Records Management - East (RME)	Orientation Briefing - Records Management. This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TI09E. Requirement for this issue was established by the DOE OTMT.
TM03E-010 (C)	Orientation Briefing - Regulatory Support - East (RSE)	Orientation Briefing - Regulatory Support. This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TI06E, TR01E, TR02E, TR03E, TR04E, and TR05E. Requirement for this issue was established by the DOE OTMT.
TM03E-011 (C)	Orientation Briefing - National Transportation (NT)	Orientation Briefing - National Transportation. This briefing will cover Transition Work Breakdown Structure (TWBS) Element TR07. Requirement for this issue was established by the DOE OTMT.
TM03E-012 (C)	Orientation Briefing - Infrastructure Support - East (ISE)	Orientation Briefing - Infrastructure Support. This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TB12E and TS04E. Requirement for this issue was established by the DOE OTMT.
TM03E-013 (C)	External Audits (EA)	Brief the incoming contractor on the status of ongoing external audits (e.g. KPMG Peat Marwick, General Accounting Office and DOE Inspector General) and turn over related tasks and documents.

Issue (impact)	Title	Description
TM03W-001 (A)	Assure Complete Transition of Work	Consistent approach needs to be developed and utilized in transitioning work to the new contractor. Work turn over packages must cover all work currently planned for the balance of FY00 and all of FY01.
TM03W-002 (C)	Transition Team Integration	Brief new contractor transition team on related transition activities. Ensure full integration with the OCRWM Transition Management Team and the TRW Environmental Safety Systems Transition Team.
TM03W-003 (A)	Home Office Work	Work ongoing in home offices will be closed out/turned over.
TM03W-004 (B)	Departing Personnel	Departing personnel critical to the transition efforts may necessitate acceleration of orientation briefings, turnover packages, or closeout packages for work scope pertaining to their affected areas. Flexibility in the transition plans to accommodate these scenarios should be considered during their development.
TM03W-005 (C)	MOA Between DOE NVO and DOE YMSCO	Brief incoming personnel on the interface role with DOE/NV for support services provided under DE-GM08-98NV13553 Memorandum of Agreement between DOE Nevada Operations Office and the DOE Yucca Mountain Site Characterization Office
TM03W-007 (C)	Overview Orientation Briefing - M&O (OVB)	Orientation Briefing - M&O . This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TM01, TM02, TM03W, and TS01. Requirement for this issue was established by the DOE OTMT.
TM03W-007 (C)	Overview Orientation Briefing - M&O (OVB)	Orientation Briefing - M&O . This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TM01, TM02, TM03W, and TS01. Requirement for this issue was established by the DOE OTMT.
TM03W-008 (C)	Orientation Briefing - Finance (FIN)	Orientation Briefing - Finance / Facilities . This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TB03, TB04, TB13, and TBM03E -013. Requirement for this issue was established by the DOE OTMT.
TM03W-009 (C)	Orientation Briefing - Property Management (PROP)	Orientation Briefing - Property Management . This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TB14, and TB15. Requirement for this issue was established by the DOE OTMT.
TM03W-010 (C)	Orientation Briefing - Program Planning & Control (PPC)	Orientation Briefing - Program Planning & Control. This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TB02W, TB09W and TR08W. Requirement for this issue was established by the DOE OTMT.
TM03W-011 (C)	Orientation Briefing - Prime Contract (PCON)	Orientation Briefing - Prime Contract. This briefing will cover Transition Work Breakdown Structure (TWBS) Element TB05. Requirement for this issue was established by the DOE OTMT.
TM03W-012 (C)	Orientation Briefing - Telecommunications/Fleet Services - West (TEL)	Orientation Briefing - Telecommunications West. This briefing will cover Transition Work Breakdown Structure (TWBS) Element TI10W. Requirement for this issue was established by the DOE OTMT.
TM03W-013 (C)	Orientation Briefing - Subcontracts and Purchasing (SUBK)	Orientation Briefing - Subcontracts and Purchasing. This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TB01, TB07, and TB12W. Requirement for this issue was established by the DOE OTMT.
TM03W-014 (C)	Orientation Briefing - Human Resources (HR)	Orientation Briefing - Human Resources. This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TH01, TH02, TH03 , TH05, TH06, and TS08. Requirement for this issue was established by the DOE OTMT.
TM03W-015 (C)	Orientation Briefing - Training (TRNG)	Orientation Briefing - Training. This briefing will cover Transition Work Breakdown Structure (TWBS) Element TH04. Requirement for this issue was established by the DOE OTMT.
TM03W-016 (C)	Orientation Briefing - Communications/Institution/Outreach (IEA)	Orientation Briefing - Communications/Institution/Outreach. This briefing will cover Transition Work Breakdown Structure (TWBS) Element TS07W. Requirement for this issue was established by the DOE OTMT.

Issue (impact)	Title	Description
TM03W-017 (C)	Orientation Briefing - Surface Design (SDD)	Orientation Briefing - Surface Design. This briefing will cover Transition Work Breakdown Structure (TWBS) Element TT09. Requirement for this issue was established by the DOE OTMT.
TM03W-018 (C)	Orientation Briefing - Subsurface Design (SSFD)	Orientation Briefing - Subsurface Design. This briefing will cover Transition Work Breakdown Structure (TWBS) Element TT10. Requirement for this issue was established by the DOE OTMT.
TM03W-019 (C)	Orientation Briefing - Waste Package Design (WPD)	Orientation Briefing - Waste Package Design. This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TT11. Requirement for this issue was established by the DOE OTMT.
TM03W-020 (C)	Orientation Briefing - Waste Management (WMD)	Orientation Briefing - Waste Management. This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TT15. Requirement for this issue was established by the DOE OTMT.
TM03W-021 (C)	Orientation Briefing - Product Assurance (PAD)	Orientation Briefing - Product Assurance. This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TT04W. Requirement for this issue was established by the DOE OTMT.
TM03W-022 (C)	Orientation Briefing - Systems Engineering (SED)	Orientation Briefing - Systems Engineering . This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TT02 (004), TT07 (002), TT08, TT12W. Requirement for this issue was established by the DOE OTMT.
TM03W-023 (C)	Orientation Briefing - Testing (TEST)	Orientation Briefing - Testing . This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TT01, TT02(001- 003). Requirement for this issue was established by the DOE OTMT.
TM03W-024 (C)	Orientation Briefing - Data Verification and Qualification (DSVQ)	Orientation Briefing - Data Verification and Qualification. This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TT02, TT14. Requirement for this issue was established by the DOE OTMT.
TM03W-025 (C)	Orientation Briefing - Modeling (MDL)	Orientation Briefing - Modeling . This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TT05. Requirement for this issue was established by the DOE OTMT.
TM03W-026 (C)	Orientation Briefing - Site Recommendation (SR)	Orientation Briefing - Site Recommendation. This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TR03W. Requirement for this issue was established by the DOE OTMT.
TM03W-027 (C)	Orientation Briefing - License Application (LA)	Orientation Briefing - License Application . This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TR04W. Requirement for this issue was established by the DOE OTMT.
TM03W-028 (C)	Orientation Briefing - Performance Assessment (PA)	Orientation Briefing - Performance Assessment . This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TT06. Requirement for this issue was established by the DOE OTMT.
TM03W-029 (C)	Orientation Briefing - Environment Impact Statement (EIS)	Orientation Briefing - Environment Impact Statement. This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TR02W. Requirement for this issue was established by the DOE OTMT.
TM03W-030 (C)	Orientation Briefing - External Interfaces (EI)	Orientation Briefing - External Interfaces . This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TR01W. Requirement for this issue was established by the DOE OTMT.
TM03W-031 (C)	Orientation Briefing - Regulatory Safety Strategy/Commitments (RSSC)	Orientation Briefing - Regulatory Safety Strategy/Commitments . This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TT07, TT13, TR08W, TR09W. Requirement for this issue was established by the DOE OTMT.
TM03W-032 (C)	Orientation Briefing - Site Construction & Operations (SCO)	Orientation Briefing - Site Construction & Operations. This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TI01, TI02, TI03. Requirement for this issue was established by the DOE OTMT.

Issue (impact)	Title	Description
TM03W-033 (C)	Orientation Briefing - Internal Assessments (IA)	Orientation Briefing - Internal Assessments. This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TR05W. Requirement for this issue was established by the DOE OTMT.
TM03W-034 (C)	Orientation Briefing - Security (SS)	Orientation Briefing - Security . This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TS04W. Requirement for this issue was established by the DOE OTMT.
TM03W-035 (C)	Orientation Briefing - Information Technology - West (ITW)	Orientation Briefing - Information Technology - West . This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TI07W, TI08W. Requirement for this issue was established by the DOE OTMT.
TM03W-036 (C)	Orientation Briefing - Information Systems Integration - West (ISI)	Orientation Briefing - Information Systems Integration - West. This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TI08W. Requirement for this issue was established by the DOE OTMT.
TM03W-037 (C)	Orientation Briefing - Documents/Data/Records (DDR)	Orientation Briefing - Documents/Data/Records . This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TI09W, TI11E, TI11W, TI14. Requirement for this issue was established by the DOE OTMT.
TM03W-038 (C)	Orientation Briefing - Environmental (ENV)	Orientation Briefing - Environmental . This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TO06W. Requirement for this issue was established by the DOE OTMT.
TM03W-039 (C)	Orientation Briefing - Safety & Health (SH)	Orientation Briefing - Safety & Health . This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TI06, TS03, TS05, TS06. Requirement for this issue was established by the DOE OTMT.
TM03W-040 (C)	Orientation Briefing - Integrated Safety Management (ISM)	Orientation Briefing - Integrated Safety Management . This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TI04W. Requirement for this issue was established by the DOE OTMT.
TM03W-041 (C)	Orientation Briefing - Quality Assurance (QA)	Orientation Briefing - Quality Assurance. This briefing will cover Transition Work Breakdown Structure (TWBS) Elements TS02. Requirement for this issue was established by the DOE OTMT.
TM03W-042 (I)	Program History (PH)	Orientation Briefing - Program history outlining the pertinent regulatory milestones in the U.S. Repository Program
TR01E-002 (C)	Regulatory - External Interfaces	Brief incoming personnel on support for maintenance and update of Briefing Materials Notebook for DOE/NRC Management Meetings. Transfer records and materials.
TR01E-003 (C)	Regulatory - External Interfaces	Brief incoming personnel on support and preparation for semi-annual briefing to the Nuclear Regulatory Commissioners.
TR01E-004 (B)	Regulatory - External Interfaces	Transfer knowledge and records for support to monitor interactions between NRC and Advisory Committee on Nuclear Waste.
TR01E-005 (B)	Regulatory - External Interfaces	Transfer knowledge and records for support of reviews of regulatory and licensing documents, e.g. Site Recommendation, regulations, and rule makings.
TR01W-002 (C)	Regulatory Interactions	Describe ongoing regulatory interactions (e.g., Nuclear Waste Technical Review Board, Advisory Committee on Nuclear Waste), including pertinent historical issues; address meeting minutes, open issues, and decision-making processes as necessary. Identify associated databases for turnover.
TR01W-003 (C)	Non-regulatory interfaces	Describe non-regulatory external (e.g., Peer Review, Consulting Board, Quality Assurance Management Assessment, etc.) interfaces. Document history and ongoing issues, reference documents, databases, etc.
TR02E-001 (C)	EIS Briefing	Brief incoming contractor on Environmental Impact Statement schedule, policy, and procedures.

Issue (impact) Title	Description
TR02W-001 (B) EIS Transition	The background and history of the Environmental Impact Statement must be documented, including ongoing open status and issues.
TR03W-001 (A) Site Recommendation	Transition background and history of the Site Recommendation Consideration Report/Site Recommendation.
TR04E-001 (C) Cross cutting issues	Provide a history of key ongoing policy issues (e.g., hot vs. cold repository, stainless steel canister credit for high-level waste, Licensing Support Network, regulation changes). Include detailed delineation of the issue's history, bases for decisions made, interface with DOE and NRC, and impact on existing repository design. Reference other documents as necessary
TR04E-002 (C) Regulatory - External Interfaces	Brief incoming personnel on support for development of the NRC compliant Safeguards and Security policy and licensing strategy for a mined geologic repository and transportation.
TR04W-001 (B) License Application	Transition background and history of the activities associated with the planning for and development of the license applications must be documented, including the bases for the document; status of the document and associated planning activities; history and basis for key technical regulatory decisions associated with the document; positions taken by DOE and NRC; established future plans and their bases; established budget and associated constraints; associated regulatory commitments; etc.
TR04W-002 (B) Cross-cutting regulatory/technical issues	Provide a history of key ongoing technical issues (e.g., hot vs. cold repository, stainless steel canister credit for high-level waste, Licensing Support Network, regulatory protocol and regulatory and licensing process, regulation changes). Include detailed delineation of the issue's history, bases for decisions made, interface with DOE and NRC, and impact on existing repository design. Reference other documents as necessary.
TR04W-003 (A) Key Technical Issue (KTI) Resolution Protocol	Document and transfer detailed protocol related to regulatory interface on KTIs.
TR04W-004 (B) Associated Deliverables/Products	Describe and provide status of license application associated deliverables (e.g., technical guidance documents, Licensing Application Management Plan, commitments, key technical issues, Licensing Support Network, etc.). Identify, provide sufficient history, and reference associated documents/references and applicable databases.
TR05E-001 (C) Commitments tracking	Brief incoming personnel on support for development of a Commitments Tracking Data Base, and any material already developed and in-place.
TR05W-001 (C) CIRS (LOE)	Transfer the activities associated with CIRS (Condition/Issue Identification and Reporting/Resolution System) to the new contractor.
TR06E-001 (A) Regulatory - Waste Acceptance	Support to Waste Acceptance Team, including ongoing and future work; records for completed work; and support to litigation and settlement activities.
TR06E-002 (C) Waste Stream Assumptions and Databases	Brief incoming personnel on Waste Stream Assumptions and Databases. Transfer Databases, background and documentation.
TR06E-003 (A) Utility Litigation Information	Transition litigation sensitive information files and storage equipment and assure new personnel are appropriately covered under secrecy agreements.
TR06E-004 (C) Standard Contract	Briefing on Standard Contract support activities, including modifications under consideration; transition documents and files.
TR06E-005 (B) Requirements and Technical Baseline Documents	Briefing on status of Waste Acceptance System Requirements Document and Interface Control Document Volumes 1&2 status; transition files and documentation.
TR07-001 (B) National Transportation	Transition documentation and knowledge about national transportation including negotiations with the railroads
TR08E-002 (A) TSLCC analyses and documentation.	Support and document preparation for Total System Life Cycle Cost document; transfer supporting databases and TSLCC Model, including code and documentation. Transfer knowledge and records on sensitivity runs of TSLCC cost analysis and Fee Adequacy with legislation and budget options. Brief incoming support personnel. Also assist incoming personnel as they participate as observers in the ICE review.

Issue (impact) Title	Description
TR08E-003 (A) Fee Adequacy	Support and document preparation for Fee Adequacy document, including code and documentation; transfer supporting databases and Fee Adequacy Model. Brief incoming support personnel.
TR08E-004 (C) Cost Estimating Guide	Transfer the Civilian Radioactive Waste Management System Management and Operating Contractor Cost Estimating Guide, dated April 25, 1996, along with all cost estimating guidance from the client, to the incoming contractor for review, update and use as necessary.
TR08E-005 (C) Business Process - Project Control	Transfer knowledge and records for rapid response for budget increment/decrement comparisons, as well as impacts to Total System Life-Cycle Cost and Fee Adequacy
TR08W-001 (C) TSLCC Continuity	Develop approach for dealing with transition of TSLCC estimates. The TSLCC is affected by all change requests with cost impacts. The TSLCC is to be controlled and updated as required. Large volume of TSLCC backup information, both in M&O Las Vegas offices and in teammate home offices, needs to be adequately controlled for transition to the new contractor. Note both MGR as well as ATI and Programmatic TSLCC elements need to be included. Additionally, some of the supporting databases use contractor owned and/or proprietary software for development or as a basis for the estimates.
TR09E-001 (C) International	Brief incoming support personnel on International Data Base which is in process of being built, and transition international documents and knowledge. Train incoming personnel on use and manitenance of database.
TR09E-002 (C) International	Brief incoming personnel and transition preparation for the international meeting, i.e., Nuclear Energy Agency (NEA) Radioactive Waste Management Committee meeting.
TS01-001 (B) Infrastructure / Policies and Procedures	Transfer knowledge and responsibility for all procedures associated with Site Construction and Operations.
TS01-002 (A) Transition Process Control Procedures (PVAR Set)	Transition knowledge and responsibility for the M&O to complete Site Recommendation and License Application. Basically this will include the Process Validation and Re-engineering set of procedures and their supporting lower tier procedures.
TS01-004 (C) ISM Related Procedures	Transfer knowledge and responsibility for M&O procedures related to the Integrated Safety Management Initiative.
TS01-005 (C) Miscellaneous Procedures	Transfer knowledge and responsibility for non-core M&O procedures to the new contractor. These will address procedures not included in Issues TS01 001(Site Construction and Operations Procedures), TS01 002 (Core Procedures), and TS01 004 (ISM Inititative Procedures).
TS02-001 (B) Services - Quality Assurance	Assure that all outstanding issues identified via the Quality Assurance Corrective Action Report (CAR) process, the Deficiency Report (DR) process and recommendations made from the Office of Quality Assurance verification process are assigned to and understood by appropriate management within the new M&O to assure timely resolution of corrective action and that these corrective actions are tracked through closure
TS02-002 (C) Services / Quality assurance	Transfer knowledge of all QATSS quality control site issues including record packages.
TS02-003 (C) Services - Quality Assurance	Transfer of all Quality Assurance Vendor/Procurement related issues and activities.
TS02-004 (B) Services - Quality Assurance	Transfer of all Quality Assurance Engineering issues and activities
TS03-001 (C) Services - Medical	Brief incoming contractor on YMP medical program support provided by DOE/NTS contractor (Bechtel), status of medical records, and any medical program issues.

Issue (impact) Title	Description
TS04E-001 (C) Building Security	Transition building security systems in the east
TS04E-002 (C) TRW Security Systems	Remove Corporate TRW Security Systems and Hardware
TS04E-003 (C) Security	Coordinate with new contractor and DOE HQ all personnel security clearance forms in order to obtain DOE HQ approvals
TS04E-004 (C) DOE Badges for New Contractor in the East	Las Vegas Security, with the assistance of the DC office, will photograph the new M&O employees in Vienna/DC and DOE NVOO will process the badges. Termination statements, DOE F 5631.29 will be prepared for all East employees with security authorizations "L" or "Q".
TS04W-001 (C) Badging	Transition badging of personnel east and west
TS04W-003 (C) Security	Coordinate with the new contractor and DOE NV all Foreign Ownership Control or Influence (FOCI), Facility Data and Approval Record (FDAR), Contract Security Classification Specification (CSCS), and personnel security clearance forms in order to obtain DOE NV and DOE HQ approvals.
TS05-001 (C) Services - Fire Protection	Brief incoming contractor on YMP fire protection program, support provided by DOE/NTS Contractor (Bechtel) status of records and any fire protection issues.
TS06-001 (C) Emergency Management	Brief incoming contractor on YMP emergency management program, support provided by DOE/NTS Contractor (Bechtel), status of records and any emergency management issues.
TS06-002 (C) Occurance Reporting and Processing System	Brief incoming contractor on Occurrence Reporting and Processing System (ORPS), including open ORPS reports.
TS06-003 (C) Emergency Management Drill	Brief contractor on requirements for an emergency management drill.
TS07E-001 (C) OCRWM Home Page	Brief incoming personnel on suport and maintenance of OCRWM Home Page. Transfer all documentation.
TS07E-002 (C) OCRWM external information documentation	Brief incoming personnel on support in preparation of HQ external information documentation. Transfer all documentation.
TS07E-003 (C) OCRWM offsites	Brief incoming personnel on logistical support to OCRWM off sites. Transfer documentation, if any.
TS07W-001 (C) Lessons Learned	Brief successor contractor on status of Lessons Learned activites for Institutional/Communications.
TS07W-002 (C) Staff Responsibilities	Brief successor contractor on responsibilities and locations of Communications Department staff.
TS07W-003 (B) YMP Home Page	Brief incoming personnel on suport and maintenance of YMP Home Page. Transfer all documentation.
TS07W-005 (C) Science Centers	Brief successor contractor on operation and transfer leases for the Science Centers in Las Vegas, Beatty and Pahrump.
TS07W-006 (C) Stakeholders and Affected Units of Govt.	Stakeholders and Affected Units of Government need to be advised of transition; impacts and changes. Coordinate with successor contractor.
TS07W-007 (C) SRCR and NEPA Hearings	Brief successor contractor on Site Recommendation Consideration Report (SRCR) Hearing and National Environmental Protection Agency (NEPA) Hearings including contracts, logistics.
TS07W-008 (C) News Clip Services	Transition news clip services and advise on copyright issues.
TS07W-009 (C) Nuclear Culture Communication Tools	Nuclear Culture communication tools - brief successor contractor on tools used to communicate nuclear culture to the M&O
TS07W-010 (C) OCRWM Toll-Free Information Line	Brief successor contractor on the uses and responsibilities of the OCRWM National Inquiry Response Program and associated toll-free information line.

Issue (impact) Title	Description
TS07W-011 (C) Yucca Mountain Tour Program	Brief successor contractor on the conduct of tour operations and the status of scheduled tours.
TS07W-012 (C) Yucca Mountain Exhibit Program	Brief successor contractor on the responsibilities of the YMP exhibit program, status of scheduled exhibit events, and staffing requirements.
TS07W-013 (C) Yucca Mountain Speakers' Bureau	Brief successor contractor on the responsibilities of the YMP speakers' bureau, status of scheduled speaker presentations, and presentation requirements.
TS07W-014 (C) Yucca Mountain Site Characterization Correspondence	Brief successor contract on the responsibility of responding to public inquiries. Briefing will include correspondence format, resources, retrieval methods, and concurrence process. Also, procedures on handling requests from the Internet, mail, and other methods of communications.
TS08-001 (C) OCRWM Concerns [Replication or Save Conflict]	Coordinate the transfer of any open OCRWM Concerns as applicable.
TS08-002 (C) Exit Identification Process	Coordinate the exit interview process with the OCRWM Concerns office.
TT02-001 (C) Site Investigations	Transition Test Coordination Office (TCO) field support
TT02-002 (C) Internal Applied Research and Testing (ART) Commitments	Transition ART commitments
TT02-004 (C) Transition of Test & Evaluation Plan (T&EP)	Transition T&EP
TT03E-001 (B) Technical - Technical Rqrmts.	Transfer knowledge and records on rapid response support for technical issues and questions. Ensure the network for rapid response stays in place during transition, and ensure RW-1 and RW-2 access to senior management and special expertise from the M&O and Labs during the transition.
TT03E-002 (C) CRD Maintenance	Brief incoming personnel on Program Systems Requirement documentation support and the necessary QA needed. Transfer knowledge on rapid response to CRD changes and revisions. Insure the network for rapid changes and revisions stays in place during transition.
TT03W-001 (A) Maintenance of SDDs	Transfer knowledge on development of System Description Documents (SDDs) and rapid SDD changes and revisions. Ensure the network for SDD development and rapid changes and revisions stays in place during transition.
TT03W-003 (B) Maintenance of PDD	Transfer knowledge on rapid Project Description Document (PDD) changes and revisions. Insure the network for rapid changes and revisions stays in place during transition.
TT03W-004 (C) Integrate Technical Requirements	Transfer knowledge on rapid integration of technical requirements over all three levels of requirements control. Insure the network for rapid requirements integration stays in place during transition.
TT03W-005 (B) Code of Record	A Code of Record is required as part of the License Application. This Code of Record can not be developed without a gradation methodology. A methodology needs to be developed to establish the appropriate gradation of codes and standards included in requirements documents.
TT04E-001 (C) Baseline Management	Brief incoming personnel on Baseline Management processes, procedures and documentation
TT04W-001 (B) Level 3 Change Control and Baseline Process	Provide a turnover package for the Level 3 Change Control and Baseline process.
TT04W-002 (C) Level 3 Technical Baseline Validation and Verification (V&V)	Provide an orientation briefing and turnover package on the level 3 technical baseline V&V.
TT04W-003 (A) Configuration Management Information System Data	New contractor briefing and turnover package for the Configuration Management Information System data and baseline documentation.

Issue (impact) Title	Description
TT04W-004 (C) Product Checking Group PCG) Key Functions	Provide an orientation briefing and turnover package for key PCG functions; including maintenance of product checklists for AP-3.10Q, the Technical Process Guidance Manual (TPGM), and the PCG Log
TT04W-005 (A) Technical Input Management - Document Input Reference System (DIRS)	Provide an orientation briefing and turnover package to DIRS
TT05-001 (A) Analysis and Modeling of Natural Systems	Transition Analysis and Modeling Reports (AMRs) and Process Model Reports (PMRs) for Natural Systems
TT06-001 (A) Total System Performance Assessment (TSPA)	Transition Total System Performance Assessment (TSPA)
TT07-001 (B) Repository Safety Strategy (RSS)	Transition RSS
TT07-002 (C) Preclosure safety assessment activities	Transition of preclosure safety analyses, hazard's analysis, classification analyses and QA grading of systems, structures, and components. Ensure analyses necessary to support license application are adequately communicated.
TT08-001 (C) Transition of Performance Confirmation Program	Develop an approach for the successful transition of the performance confirmation program plan and implementation. Ensure planned level 4 and 3 milestones are met and license application needs are adequately supported.
TT09-001 (A) Surface Facilities design work packages and deliverables	Orderly transfer of responsibility for Surface Facilities design and accumulated knowledge of associated issues from current M&O Team members and personnel to new M&O contractor and personnel.
TT09-002 (C) Water permit	The water permit carries a Professional Engineer (PE) stamp. A PE in the new organization will need to be identified as the cognizant PE for this permit. This will need to be communicated to the State of Nevada.
TT10-001 (A) Transition of Subsurface Design Work Packages	Work packages related to subsurface repository facilities design need to be transitioned to the new contractor. Many tasks cross the contract transition date of 2/11/01. One of these tasks will result in a deliverable due 4/20/01.
TT10-002 (A) Transition of Subsurface Performance Testing Work Packages	Work packages related to subsurface repository performance testing need to be transitioned to the new contractor. The work includes field testing and testing at the Atlas test Facility. Most of the work packages will cross the contract transition date of 2/11/01. One of these work packages will result in a deliverable due 3/31/01.
TT10-003 (A) Transition of Subsurface Performance Modeling Work Packages	Work packages related to subsurface repository performance modeling needs to be transitioned to the new contractor. The result of one work package will be the Engineered Barrier System (EBS) Process and Model Report (PMR) which is due as a deliverable on 12/17/00. Final acceptance by the DOE is expected to cross the contract transition date of 2/11/01. This deliverable is critical to meeting the SR schedule. All of the tasks in the other work package will cross the contract transition date.
TT10-004 (A) Transition of Test Facilities Design Work Packages	Work packages related to the Exploratory Studies Facility design need to be transitioned to the new contractor. The design includes Title III services.
TT11-001 (B) Closure Weld Development	Transition closure weld development program
TT11-002 (C) Long Lead Material Transfer	Transfer long lead procurements for waste package.
TT11-003 (C) Waste Package Fabrication Information	Transfer of Waste Package Fabrication Information
TT11-004 (C) Radiochemical Assays and NRAD Tests	Transition for experimental programs at Argonne National Laboratory supporting burn-up credit (radiochemical assays and Nuclear Radiation Assessment Division tests)
TT11-005 (C) National Energy Research Institute (NERI) sponsored Sandia National Lab (SNL) burn-up	Transition of support/review of the NERI sponsored SNL burn-up credit experiments.

Issue (impact)	Title	Description
TT11-008 (C)	Contract with Argonne National Labs (ANL)	Transition contract with ANL.
TT11-009 (C)	Pacific Northwest National Lab (PNNL) contracts	Transition PNNL contract related to materials testing.
TT11-010 (C)	Commercial contracts	Current commercial contracts with companies, such as GE, for materials testing need to be transitioned
TT11-011 (C)	University of Virginia (UVA) contract	Transition of UVA contract.
TT11-012 (C)	Support Effort with the OECD and IAEA	Transition of support efforts with the Organization of Economic Cooperation and Development and the International Atomic Energy Agency on burn-up credit
TT11-013 (A)	Waste Package design work packages and deliverables	Orderly transfer of responsibility for Waste Package design and accumulated knowledge of associated issues from current M&O Team members and personnel to new M&O contractor and personnel.
TT12E-003 (C)	Transfer technical databases - east	Brief incoming personnel on systems documentation support and databases. Transfer systems databases, e.g. CALVIN. Train incoming personnel on the use of CALVIN. Provide code and code documentation. Transition Characteristics Database.
TT12W-001 (B)	DIEs, TFMs, and SPPAs	Transition of DIEs (Determination of Importance Evaluations), TFMs (Tracers, Fluids, and Materials evaluations), and SPPAs (Site Performance Protection Analyses. Ensure analyses necessary to support license application are adequately communicated.
TT12W-003 (C)	Systems Engineering support and commitments to integrated safety management	Transition of the engineering support and commitments to integrated safety management activities.
TT12W-004 (C)	LA Products List	Transition of the License Application Products List. Ensure planned level 4 and 3 milestones are met and license application needs are adequately supported.
TT12W-005 (C)	Engineering support and commitments to the NWTRB	Transition of the engineering support and commitments to the Nuclear Waste Technical Review Board
TT12W-006 (C)	Systems Engineering support and commitments to integrated technical issue resolution.	Transition of the engineering support and commitments to integrated technical issue resolution.
TT12W-007 (C)	Technical analysis of Repository Design Alternatives	Transition of Systems Engineering support and commitments to the technical analysis of Repository Design Alternatives. Ensure planned level 4 and 3 milestones are met and license application needs are adequately supported.
TT13-001 (C)	Self-Assessments	Transfer the performance of the responsibilities for the Self-Assessment Coordinator (per AP-2.20Q) to the new contractor.
TT13-002 (C)	Lessons Learned	Transfer the performance of the responsibilities of the Lessons Learned Coordinator (per AP-REG-001) to the new contractor.
TT13-003 (C)	Root Cause	Transfer the performance of root cause analysis and assisting line management in the performance of root cause analysis using TapRoot (per AP-16.4Q) to the new contractor.
TT13-004 (C)	Performance Indicators	Transfer the collection, review, and reporting of monthly performance indicators to the new contractor.
TT14-001 (A)	Technical Data Management System Continuity	Transition Technical Data Management System and maintain current and available through transition. Inventory and prepare lists of hardware maintenance and software licenses. Continue to accept new data and prepare/provide deliverables and status reports through transition. Prepare and provide briefing to successor contractor on work scope, procedural responsibilities, QA interface, functional points of contact, and on-going deliverables and status reports.

Issue (impact)	Title	Description
TT14-002 (A)	Data/Software Verification/Qualification	The verification/qualification of data and software will be transitioned.
TT15E-002 (C)	Technical - Waste Stream Assumptions	Brief incoming personnel on Waste Stream assumptions and databases. Transfer databases, background and documentation.
TT15W-001 (C)	DOE Waste Agreements and Responsibilities	Transition DOE Waste Agreements and Responsibilities



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

Key Technical Issues Progress and Status Overview

Presented to:
NRC/DOE Management Meeting

Presented by:
Carol Hanlon
Department of Energy
Yucca Mountain Site Characterization Project

December 20, 2000

YUCCA
MOUNTAIN
PROJECT

Background

- **Nuclear Waste Policy Act** requirements for sufficiency comments §114(a)(1)(E):
“Preliminary comments of the Commission concerning the extent to which at-depth site characterization analysis and waste form proposal for such site seem to be sufficient for inclusion in any application to be submitted by the Secretary for licensing such site as a repository.”
- **Letter of November 24, 1999**: Stephan Brocoum to John Greeves suggested an approach for providing technical basis reports to the NRC including Process Models Reports, Analysis Model Reports, Total System Performance Assessment-SR, etc., and for conducting a series of interactions to provide technical information
- **Technical Exchange of April 25-26**: Discussed approach to developing sufficiency comments; and discussed current status of Key Technical Issues as understood by both the DOE and NRC Staff
 - Defined closed, closed pending, and open in regard to Key Technical Issue status
- **Technical Exchange held June 6 - 7**: Discussed status of TSPA-I Key Technical Issue, exchanged extensive information, closed no issues, defined process for future meetings
- **June NRC/DOE Management Meeting**: Redefined approach for future technical exchange meetings, including specific focus on individual Key Technical Issues rather than the Process Model Reports and associated Analysis Model Reports
- **Since June**: Seven technical exchanges conducted, addressing five Key Technical Issues

Completed NRC/DOE Technical Exchanges on Key Technical Issues

- Key Technical Issues Status (April 25 - 26, Las Vegas)
- TSPA (June 6 - 7, San Antonio)
- UZ Flow Under Isothermal Conditions (8/16 - 17, Berkeley)
- Igneous Activity (8/30 - 31, Las Vegas)
- Container Life and Source Term (9/12 - 13, Las Vegas)
- Structural Deformation and Seismicity (10/11 - 13, Las Vegas)
- In-package Criticality (10/23 - 24, Las Vegas)
- Saturated Zone Flow (10/31, 11/1 - 2, Albuquerque)
- Radionuclide Transport (12/5 - 7, Berkeley)

Upcoming NRC/DOE Technical Exchanges on Key Technical Issues

- **Thermal Effects on Flow and Evolution of the Near-Field Environment (1/8 - 12, Pleasanton)**
- **Repository Design and Thermal-Mechanical Effects (2/6 - 8, Las Vegas)**
- **Total System Performance Assessment and Integration (Mid-March 2001, San Antonio)**
 - **Total System Performance Assessment - Site Recommendation results briefing (1/24, Las Vegas/videoconference, tentative)**

KTI Summary Status from Completed Technical Exchanges

KTI	No. Subissues	Subissues Closed	Subissues Closed-pending	Subissues open
Unsaturated & Saturated Flow	6	2	4	0
Igenous Activity	2	0	1	1
Container Life & Source Term	6	0	6	0
Structural Deformation & Seismicity	4	1	3	0
Radionuclide Transport	4	0	4	0
TOTAL	22	3	18	1

Status By Individual Key Technical Issue

- **Unsaturated and Saturated Flow: Six Subissues**
 - **Subissue 1: Climate Changes (closed)**
 - **Subissue 2: Hydrologic Effects of Climate Change (closed)**
 - **Subissue 3: Present-Day Shallow Infiltration (closed pending) - 4 NRC/DOE agreements**
 - **Subissue 4: Deep Percolation (closed pending) - 5 NRC/DOE agreements**
 - **Subissue 5: Saturated Zone Ambient Flow Conditions and Dilution Processes (closed pending) - 14 NRC/DOE agreements**
 - **Subissue 6: Matrix Diffusion (closed pending) - 4 NRC/DOE agreements**

Status By Individual Key Technical Issue

(Continued)

- **Igneous Activity: Two Subissues**
 - **Subissue 1: Probability of igneous activity at or near the proposed repository site (closed pending) - 2 NRC/DOE agreements**
 - **Subissue 2: Consequences of igneous activity within the repository setting (open) - 10 NRC/DOE agreements**

Status By Individual Key Technical Issue

(Continued)

- **Container Life and Source Term: Six Subissues**
 - **Subissue 1: Effects of corrosion processes on the lifetime (closed pending) - 17 NRC/DOE agreements**
 - **Subissue 2: Effects of phase instability and initial defects (closed pending) - 9 NRC/DOE agreements**
 - **Subissue 3: Rate at which radionuclides in spent nuclear fuel are released (closed pending) - 10 NRC/DOE agreements**
 - **Subissue 4: Rate at which radionuclides in high-level waste glass are released (closed pending) - 1 NRC/DOE agreements**
 - **Subissue 5: Effects of in-package criticality (closed pending) - 7 NRC/DOE agreements**
 - **Subissue 6: Effects of alternated engineered barrier subsystem design features (closed pending) - 4 NRC/DOE agreements**

Status By Individual Key Technical Issue

(Continued)

- **Structural Deformation and Seismicity: Four Subissues**
 - **Subissue 1: Faulting (closed pending) - 2 NRC/DOE agreements**
 - **Subissue 2: Seismicity (closed pending) - 4 NRC/DOE agreements**
 - **Subissue 3: Fracturing (closed pending)- 4 NRC/DOE agreements**
 - **Subissue 4: Tectonic Framework (closed)**

Status By Individual Key Technical Issue

(Continued)

- **Radionuclide Transport: Four Subissues**
 - **Subissue 1: Radionuclide transport through porous rock (closed pending) - 5 NRC/DOE agreements**
 - **Subissue 2 : Radionuclide transport through alluvium (closed pending) - 11 NRC/DOE agreements**
 - **Subissue 3 : Radionuclide transport through fractured rock (closed pending) - 10 NRC/DOE agreements**
 - **Subissue 4 : Nuclear criticality in the far field (closed pending) - 3 NRC/DOE agreements**

Summary Status of Agreements

- **Status of activities that support agreement items for First and Second Quarter FY 2001**
 - **Agreements Met**
 - ♦ **5 activities have been completed satisfying several agreement items for several key technical issues**
 - **Agreements Facing Delay**
 - ♦ **2 activities may be later than agreement date**
 - **Agreements Upcoming**
 - ♦ **27 activities are near completion and will be available in the upcoming months**

Agreement Items Met

- **Unsaturated Zone - Infiltration Plan revised (11/2/00 presented to the NRC)**
- **Unsaturated Zone - Testing Plan for Alcove 8 (11/2/00 closed by the NRC)**
- **Igneous Activity - Examine USGS Open File Report for new aeromagnetic data (12/9/00)**
- **Container Life and Source Term - Vibratory effects on radionuclide release (10/11/00 discussed in Structural Deformation & Seismicity meeting)**
- **Container Life and Source Term - Criticality Probability Calculation (11/01/00 sent to NRC)**

Agreement Items Facing Delay

- **TSPA-SR Revision 0**
 - Activity supports several Key Technical Issues
 - Revision 0 accepted with conditions
 - Revision 0 ICN 1, removing conditions, completed
 - Anticipated to be available in January 01
- **FEP's Database**
 - Activity supports several Key Technical Issues
 - Anticipated to be available in January 01

Tracking of NRC/DOE Agreements from Technical Exchanges

- **NRC/DOE agreements from Technical Exchanges are itemized status lists updated biweekly**
- **List clearly shows:**
 - Link to a particular subissue
 - Activity to be performed
 - Status of the activity
 - Planned/funded status
- **All agreements are entered into Condition/Issue Identification and Reporting/Resolution System (CIRS) for formal tracking to completion, including through transition**

Candidates for Complete Issue Closure

- **Two Key Technical Issues to potentially close**
 - **Structural Deformation and Seismicity**
 - ♦ **Work to satisfy most agreements to be complete in FY 01 except Seismic Topical Report #3**
 - ♦ **NRC agree that completion of Seismic Topical Report #3 is closed pending in Repository Design and Thermal-Mechanical Effects Key Technical Issue only (preclosure)**
 - ♦ **DOE agree to ensure adequate information will be available to close postclosure issues in Structural Deformation and Seismicity Key Technical Issue before Site Recommendation**
 - **Igneous Activity**
 - ♦ **Information to satisfy agreements to be documented in the TSPA-SR Revision 1 (June 2001)**
 - ♦ **Information will be carried into TSPA-LA**

Challenges - KTI Technical Exchanges

- **Evolving Issue Resolution Status Reports**
 - Revisions issued during the KTI resolution process
- **Yucca Mountain Standard Review Plan not Available**

Conclusion

- **Technical Exchanges have been productive**
 - Only 1 subissue remains open
 - If trend continues, about 95% of the KTI subissues will be statused as either closed or closed pending upon completing all the meetings
- **Effective in establishing pathforward agreements for a docketable License Application**
- **DOE and NRC teams working effectively**
- **Management participation has been a definite asset**

Backup

Agreement Items Upcoming

- Saturated Zone - SD-6 and WT data (available in TDMS 02/01)
- Saturated Zone - Saturated Zone FEP's AMR (available 02/01)
- Igneous Activity - Igneous Consequences Modeling for TSPA-SR AMR (available 01/01)
- Igneous Activity - Comparison of ASHPLUME Model Results to Representative Tephra Fall Deposits" (Available 01/01)
- Igneous Activity - Input Values for External & Inhalation Radiation Exposure AMR (available 01/01)
- Igneous Activity - Dike Propagation Near Drifts AMR (available 01/01)
- Igneous Activity - Characterize Framework for Igneous Activity at Yucca Mountain, Nevada AMR (available 01/01)
- Igneous Activity - Number of Waste Packages Hit by Igneous Intrusion AMR (available 01/01)

Agreement Items Upcoming

(Continued)

- **Container Life & Source Term - Waste Package Operations Fabrication Process Report (available 01/01)**
- **Container Life & Source Term - Waste Package Operations Closure Weld Technical Guidelines Document (available 01/01)**
- **Container Life & Source Term - Initial Failures inclusion in TSPA (Discuss in TSPA meeting 03/01)**
- **Container Life & Source Term - Summary of In-package Chemistry for Waste Forms AMR (available 01/01)**
- **Container Life & Source Term - Cladding Degradation Summary Abstraction AMR (available 01/01)**
- **Container Life & Source Term - Clad Degradation - Local Corrosion of Zirconium and its Alloys under Repository Conditions AMR (available 01/01)**
- **Container Life & Source Term - TSPA Model AMR (available 01/01)**

Agreement Items Upcoming

(Continued)

- **Container Life & Source Term - Multiscale Thermohydrologic Model AMR (available 01/01)**
- **Container Life & Source Term - Defense High Level Waste Glass Degradation AMR (available 01/01)**
- **Container Life & Source Term - Disposal Criticality Analysis Methodology Topical Report (available 01/01)**
- **Container Life & Source Term - Review Expected Behavior of Alpha Titanium Alloys Under Yucca Mountain Conditions Report (available 01/01)**
- **Structural Deformation & Seismicity - Disruptive Events FEP's AMR (available 01/01)**
- **Structural Deformation & Seismicity - Documentation on the Expert Elicitation Feedback Process (available 12/00)**

Agreement Items Upcoming

(Continued)

- **Structural Deformation & Seismicity - Pre-test predication for Niche 3 Letter Report (available 01/01)**
- **Radionuclide Transport - Laboratory Testing Plan for RT studies (available 01/01)**
- **Radionuclide Transport - Inventory Abstraction AMR (available 01/01)**
- **Radionuclide Transport - Waste Form Colloid-Associated Concentration Limits: Abstraction and Summary AMR (available 01/01)**
- **Radionuclide Transport - Features, Events, and Processes in UZ Flow and Transport AMR (available 01/01)**
- **Radionuclide Transport - Features, Events, and Processes in UZ Flow and Transport AMR (available 01/01)**

DOE/NRC Management Meeting Action Items

Num	Action Item	Status	Remarks
00/09-01	DOE will provide, in writing to NRC, the status of Data Qualification and Verification and Software Qualification in March of 2001.	In Progress	Status provided to ORs and at Management or QA Meetings. Formal written transmittal was to be provided in March 2001. (Note that this item was originally scheduled contingent upon a December 2000 SRCR submittal.) Based on changes to program schedule, this item may be delayed. However, with the SRCR, DOE will provide NRC with an analysis of any impact and significance of unqualified data and software
00/09-02	DOE will evaluate the 24 SDDs (reference slide 3 in SR Status presentation) completed for SRCR to determine if they should be provided to the NRC for their sufficiency review.	Complete	The 24 SDDs were transmitted in two groups to the NRC by letters dated September 19, 2000 and December 13, 2000.
00/09-03	NRC and DOE will schedule a KTI Status meeting prior to the next Management meeting. The Status meeting will focus on the progress made toward the agreed upon actions in the individual KTI meetings. The meeting will include a discussion on the tracking system used and the process to include the actions into work planning process.	Complete	The KTI status is an agenda item for the December 20, 2000 Management Meeting.
00/09-04	DOE will provide NRC an update on the planned release date for Revision 4 of the Repository Safety Strategy	Complete	Revision 4, ICN 1 to the Repository Safety Strategy was completed. Copies of the document will also be available at the December 20, 2000 Management Meeting.
00/09-05	DOE will provide NRC with a copy of the Preliminary Preclosure Safety Assessment	Complete	The Preclosure Safety Assessment was transmitted by letter from Brocoum to Reamer on September 28, 2000.

DOE/NRC Management Meeting Action Items

Num	Action Item	Status	Remarks
00/06-01	DOE will evaluate the possibility of electronically distributing AMRs/PMRs to NRC and stakeholders	Complete	CD-ROMs containing the PMR and associated AMRs have been produced and distributed for the Unsaturated Zone PMR, Disruptive Events PMR, Engineered Barrier System PMR. A CD-ROM was produced and distributed for the Waste Form Degradation PMR - Many of the AMRs have also been made available on the Internet
00/06-02	DOE and NRC will focus the technical exchange meetings to resolve technical issues.	Complete	
00/06-03	The next NRC/DOE Quality Assurance meeting will be September 26, 2000, and the next NRC/DOE Management meeting will be September 27, 2000. Both meetings will be held in Las Vegas, Nevada	Complete	
00/04-01	DOE will release copies of preliminary AMRs as soon as possible to the NRC, with copies to the State, Counties, and interested parties as requested.	Complete	Final AMR for this action item provided to the NRC on 12/13/2000. Future revisions will also be provided to support revisions to PMRs being used for SRCR support.
00/04-02	DOE will continue to interact with the OR's on Procurement issues	Complete	This item has been discussed in the Bi-weekly OR meetings and a "Procurement Notice Supplier Quality Alert" was provided to all suppliers on the Quality Suppliers list. The OR has closed this issue.
00/04-03	DOE will provide copies of the TRB slides to NRC (Greeves)	Complete	These copies were provided via the OR office on May 22, 2000.
00/04-04	DOE will provide a list of the 27 categories of EIS comments to NRC (Greeves)	Complete	This information was provided via the OR office.

DOE/NRC Management Meeting Action Items

Num	Action Item	Status	Remarks
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 is being discussed at the December 20, 2000 Management Meeting (see action item 00/09-04).
00/04-06	NRC will continue to work with the DOE to make the "Goldsim" code available	In Progress	DOE has signed a licensing agreement with Golder, a licensing agreement has been sent to and commented upon by the NRC. Golder responded to comments and is awaiting NRC signature of the licensing agreement. Upon signature, Golder will provide the NRC with access to download the software. The project is preparing the model and files for the NRC to use with the software
00/04-07	DOE and NRC will continue the dialogue on QA issues with quarterly meetings	Complete	This process has begun, and will continue.