

*rec'd w/ letter
8/2/95*

WBS: 9.3.7
QA: N/A

**Civilian Radioactive Waste Management System
Management & Operating Contractor**

Monthly Summary Report

April 1995

Prepared for:

U.S. Department of Energy
Office of Civilian Radioactive Waste Management
1000 Independence Avenue, S.W.
Washington, D.C. 20585

Prepared by:

TRW Environmental Safety Systems Inc.
2650 Park Tower Drive
Suite 800
Vienna, Virginia 22180

Under Contract Number
DE-AC01-91RW00134

102.8

WBS: 9.3.7
QA: N/A

**Civilian Radioactive Waste Management System
Management & Operating Contractor**

Monthly Summary Report

April 1995

Prepared for:

U.S. Department of Energy
Office of Civilian Radioactive Waste Management
1000 Independence Avenue, S.W.
Washington, D.C. 20585

Prepared by:

TRW Environmental Safety Systems Inc.
2650 Park Tower Drive
Suite 800
Vienna, Virginia 22180

Under Contract Number
DE-AC01-91RW00134

EXECUTIVE SUMMARY

General Managers's Summary:

Management & Operating Contractor (M&O) progress this month featured the award of the \$14 million Multi-Purpose Canister (MPC) Phase I contract April 21, 1995. Award of the contract begins the preparation of MPC design information suitable for submission to the Nuclear Regulatory Commission (NRC) for certification review.

Tunneling reached Level III Project milestone, excavation to station 5+60 meters, one day ahead of schedule.

The GA-9 Legal-Weight Truck (LWT) trailer passed the Commercial Vehicle Safety Alliance Standard Inspection and was accepted by the Department of Energy (DOE) April 19, 1995.

M&O contributions to resolving Repository Licensing and safety and risk issues were important in April. Meetings, presentations, and deliverables addressing long-term criticality control, approach to calculation of ground-water travel time and Licensing Support System (LSS) requirements, Waste Acceptance Storage and Transportation (WAST) regulatory compliance, and Environmental Safety and Health (ES&H) management were highlight of this support.

Highlights for this reporting period are as follows:

- **Multi-Purpose Canister (MPC) Contract Award** - The MPC contract was awarded April 21, 1995. The selected supplier of the Phase I SAR Design is the Westinghouse Team. Contract kickoff meeting was held at Westinghouse offices in Pittsburgh April 26, 1995. A protest was received concerning the award, but this event has not stopped work.
- **Tunnel Boring Machine (TBM) Progress** - The TBM reached a major project milestone, excavation to station 5+60 meters, by April 20, 1995, one day ahead of schedule. Category 4 ground conditions throughout the month resulted in slow but steady advancement with tunneling still ahead of schedule at the end of the month. Despite the poor ground conditions, the last week of the month saw the TBM advance rate average 12m per day.
- **Legal-Weight Truck (LWT) Trailer Acceptance** - Completed the GA-9 LWT trailer refurbishment. The trailer passed the Commercial Vehicle Safety Alliance Standard inspection April 19, 1995 and was accepted by Department of Energy (DOE) April 26, 1995. The LWT cask system tractor performance and operability testing is scheduled to begin in early May 1995.
- **Long-term Criticality Control** - Delivered the Advanced Conceptual Design (ACD) Container Risk Analysis Report (TM251) and the ACD Uncanistered Fuel Risk Analysis Report (TM252). These two documents, as revised and expanded, will form the basis for the long-term criticality control licensing argument. The next revision will discuss the probabilistic approach for long-term criticality events external to the waste packages.

- **Calculation of Ground-Water Travel Time** - Presented "The DOE Approach to Calculation of Ground-Water Travel Time" to the Advisory Committee on Nuclear Waste (ACNW) April 12, 1995. The ACNW was receptive to the methodology for projecting both likelihood and significance of travel times less than 1,000 years that will be used as the basis of compliance to 10 CFR 60.
- **Licensing Support System (LSS) Progress** - The LSS Technical Working Group (TWG) met in Denver to review and approve the Level 1 LSS Requirements Documents. Agreement was reached, and the document was revised.
- **Waste Acceptance, Storage and Transportation (WAST) Regulatory Compliance** - Delivered the Preliminary Draft WAST Regulatory Compliance Plan Annotated Outline to RW-40 on schedule on April 28, 1995.
- **Environmental Safety and Health (ES&H) Management** - Delivered the Draft ES&H Management Plan to RW-36 April 17, 1995, on schedule.
- **Project Management Organization (PMO) Transition Plan** - Published and distributed the approved PMO Transition Plan, dated April 14, 1995. Immediately implemented transition of the planning function and personnel. Modifying the WAD for both the performers and PMO to correctly reflect the workscope and funding transitioned from the PMO.
- **Waste Acceptance Criteria (WAC)** - Issued THE Preliminary Draft WAC Management Plan. The plan addresses DOE-owned waste including Spent Nuclear Fuel (SNF).
- **Nuclear Regulatory Commission (NRC) Visit** - Supported the NRC visit April 3-6, 1995, during an In-Field Verification. NRC's primary purpose for the visit was to verify the commitments made by the DOE and the M&O in their letter of November 14, 1995.
- **Repository Layout Options Analyses** - Delivered Level III Milestone TM545 "Repository Layout Options Analyses Report" on-time March 31, 1995.
- **Seismic Hazards Assessment** - Conducted data needs workshops for seismic source and fault displacement and ground motion characterization in support of the United States Geological Survey (USGS) effort to assess seismic hazards at Yucca Mountain. These workshops are the first in a series of structured workshops that will help develop inputs to the probabilistic seismic hazards assessment for Yucca Mountain by panels of seismic source and ground motion experts. Results of the workshops are being used to focus relevant site investigations during the remainder of FY95.
- **International Atomic Energy Agency (IAEA) Safeguards Requirements** - Completed draft report on Analysis of IAEA Safeguards Requirements for use in preparation of QAP Form 312 on IAEA safeguards and security requirements for the MPC subsystem, MPC transportation cask subsystem, and On-Site Transportation (OST) and On-Site Storage (OSS) segments.

- **Safeguards and Security Regulatory Model** - Submitted the final draft of the Safeguards and Security Regulatory Model to RW-44, meeting the Program Plan milestone for this activity.
- **Nuclear Waste Shipping Container Response for Accident Conditions** - Delivered *Nuclear Waste Shipping Container Response to Severe Highway and Railway Accident Conditions: A Brief Review of Modal Study Critiques*. This report presents proposed responses to stakeholder concerns about the NRC-sponsored modal study. The modal study is being used in the MPC Environmental Impact Statement (EIS) to predict cask performance during accidents.
- **Total System Life Cycle Cost (TSLCC)** - Completed the Preliminary Draft report "Analysis of the TSLCC Program Approach for the Civilian Radioactive Waste Management Program" and delivered it to RW-35 April 11, 1995. The deliverable provides an Executive Summary level TSLCC report for the single repository case in accordance with RW-1 direction.

Performance Measurement Cost and Schedule Variance

WASTE MANAGEMENT SYSTEM

FY 1995
M/E Apr8
CRWMS M&O PMS DATA (8000)

WBS	TITLE	CURRENT MONTH					FISCAL YEAR-TO-DATE					AT COMPLETE		
		BUDGET	EARNED VALUE	ACTUALS	VARIANCE		BUDGET	EARNED VALUE	ACTUALS	VARIANCE		BUDGET	POST	VAC
					SCHED	COST				SCHED	COST			
1.2	YMP	27,938	28,256	29,408	320	(1,152)	96,696	95,950	91,127	(746)	4,823	239,772	276,329	(36,557)
3.0	WAST PROJECT	1,976	1,800	1,524	(176)	276	12,981	11,986	10,871	(995)	1,115	45,553	45,129	424
9.1	PROGRAM QUALITY ASSURANCE	327	326	247	(1)	79	2,027	2,027	1,845	0	182	3,817	3,742	75
9.2/9.3.2/9.3.3/9.3.5	PROGRAM MANAGEMENT & INTEGRATION	1,609	2,159	775	550	1,384	8,912	8,657	7,017	(255)	1,640	17,801	17,416	385
9.3.4/9.3.6	EXTERNAL RELATIONS/INFO RESOURCE MGMT	1,095	1,066	1,159	(29)	(93)	6,966	6,967	7,049	1	(82)	13,429	13,429	0
9.3.7	CONTRACT BUSINESS MANAGEMENT	385	385	385	0	0	3,170	3,170	3,170	0	0	15,279	15,279	0
1.0.10.11	REPOSITORY IMPACTS	145	148	104	3	44	710	708	523	(2)	185	1,289	1,287	2
TOTAL PROGRAM		33,472	34,140	33,601	668	539	131,464	129,465	121,603	(1,998)	7,863	336,922	372,594	(35,672)

* The first month of incorporating SAIC and IRG in the baseline has distorted current month earned value (EV). Fiscal year-to-date EV is correct. The current month position will correct itself next month.

CWBS 1.2 Yucca Mountain Site Characterization Project

Variance thresholds are not exceeded.

CWBS 3.0 Waste Acceptance, Storage and Transportation Project

Variance thresholds are not exceeded.

CWBS 9.1.1 Program Quality Assurance

Variance thresholds are not exceeded.

CWBS 9.2.1, 9.2.2, 9.3.2, 9.3.3, 9.3.5 Program Management and Integration

The cumulative cost variance of \$1,640K/19% is due primarily to WBS areas 9.3.3 International Programs and 9.3.5 Program Control and Administration. The variances are caused by addition of the National Laboratories to the budget without offsetting actuals, delay in staffing buildup, and rerating of actuals at a lower Program Management and Integration (PM&I) rate.

CWBS 9.3.4, 9.3.6 External Relations and Information Management

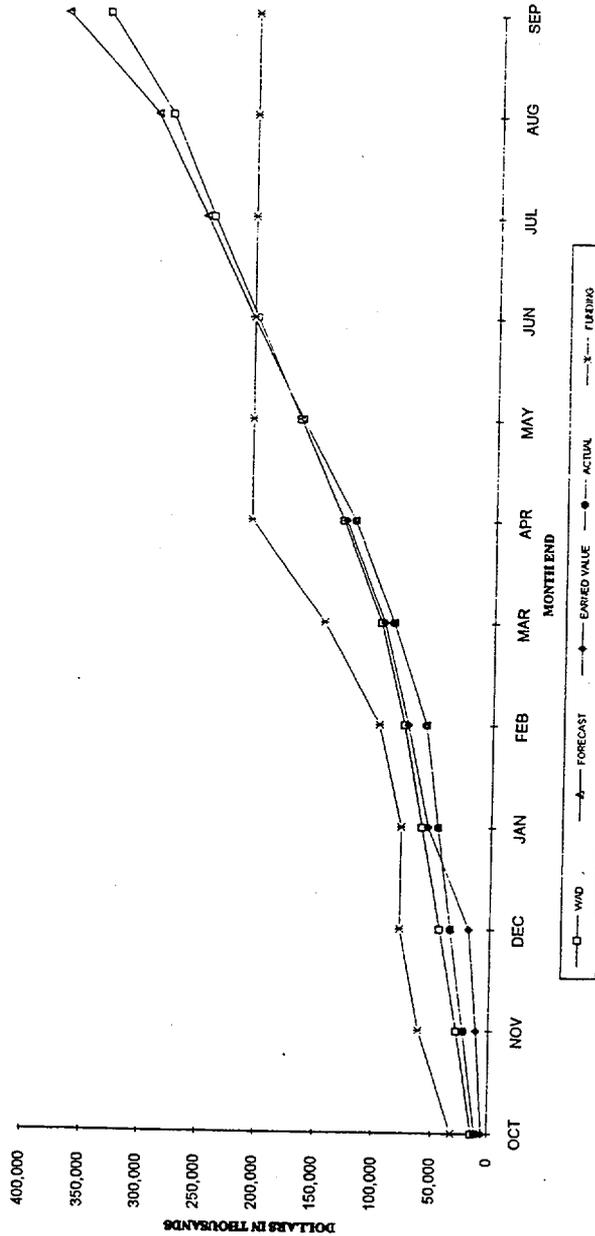
Variance thresholds are not exceeded.

CWBS 1.0.10 Repository Impacts

The cumulative cost variance of \$186K/26% is a carryover from delay of previous months' inputs to the Repository Impacts task. The current month variance is due to the late delivery of

the Ceramic waste form characteristics and contributed further to the cumulative cost variance. The setback is six weeks, and a work-around plan is being developed.

WASTE MANAGEMENT SYSTEMS



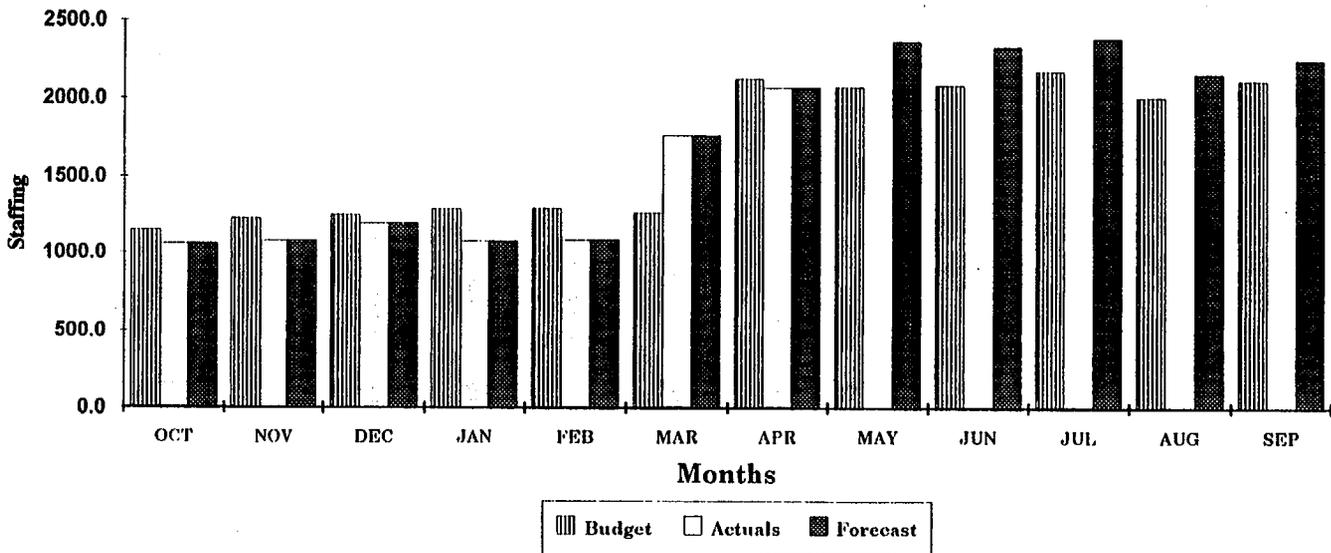
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
WAD	14,279	14,646	15,934	16,723	15,661	20,728	33,472	37,174	38,370	38,308	36,386	55,218
FORECAST	11,433	11,463	12,519	11,764	11,511	29,240	33,560	45,688	43,256	41,078	42,950	76,111
EARNED VALUE	5,475	5,508	8,128	37,128	18,101	20,967	34,140					
MONTH ACTUAL	11,433	11,463	12,519	11,764	11,511	29,240	33,560					
VAR/SCH	(6,604)	(6,140)	(7,806)	20,405	2,420	258	668					
VAR/COST	(5,959)	(5,977)	(4,391)	25,384	6,590	(6,305)	539					
WAD	14,279	28,925	44,859	61,562	77,293	97,692	131,464	168,638	207,008	245,317	281,703	336,922
FORECAST	11,433	22,916	35,435	47,189	59,710	87,850	121,510	167,168	210,454	251,533	294,483	372,594
EARNED VALUE	5,475	10,981	19,109	58,237	74,338	95,325	129,485					
ACTUAL	11,433	22,916	35,435	47,189	59,710	88,002	121,803					
VAR/SCH	(6,604)	(17,844)	(25,750)	(5,345)	(2,687)	(2,687)	(1,998)					
VAR/COST	(5,959)	(11,935)	(19,320)	9,038	15,628	7,323	7,863					
FY85 FUNDING	30,000	59,534	59,534	79,096	127,047	190,048	190,048	190,048	190,048	190,048	190,048	190,048
PREV. FUNDED	2,508	2,508	19,342	19,342	19,342	19,342	19,342	19,342	19,342	19,342	19,342	19,342
TOTAL FUNDING	32,508	62,042	78,878	78,878	88,438	146,389	209,390	209,390	209,390	209,390	209,390	209,390

Current and Cumulative Cost and "At Complete" Variances are a result of actual cost booking for carryover, SAIC, and IRG before their budgets have been baselined.

Total Program Financial Status

Actuals Thru 4/30/1995

WASTE MANAGEMENT SYSTEMS



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Forecast	1058.8	1080.5	1195.0	1075.1	1083.6	1766.1	2071.7	2366.0	2333.3	2386.5	2160.8	2251.7
Budget	1150.4	1224.5	1248.9	1288.7	1292.5	1266.4	2128.2	2078.1	2088.0	2177.4	2011.3	2117.7
Actuals	1058.8	1080.5	1195.0	1075.1	1083.6	1766.1	2071.7	0.0	0.0	0.0	0.0	0.0

Current month staffing variances are a result of actual costs booking for SAIC and IRG before their budgets have been baselined.

Total Program Staffing

INTENTIONALLY LEFT BLANK

TABLE OF CONTENTS

Page

EXECUTIVE SUMMARY	i
1. INTRODUCTION	1
1.1 PURPOSE AND SCOPE	1
1.2 ORGANIZATION OF THE MONTHLY STATUS REPORT	1
1.3 PROGRAM MANAGEMENT ANALYSIS CRITERIA	2
1.4 PROGRAM MANAGEMENT PERFORMANCE CRITERIA	2
2. M&O MANAGEMENT STAFF ACTIVITIES	3
2.1 CONTRACTS AND SUBCONTRACTS	3
2.2 FINANCE AND ADMINISTRATION	4
2.3 HUMAN RESOURCES	4
2.4 MANAGEMENT SYSTEMS	4
2.5 ISSUES AND CONCERNS	4
3. MAJOR SYSTEM ACQUISITION PROJECTS	5
3.1 YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT	5
3.1.1 Mined Geologic Disposal System Operations	5
3.1.2 Support Operations	13
3.1.3 Program Management Organization	16
3.1.4 Business Management	17
3.2 WASTE ACCEPTANCE, STORAGE AND TRANSPORTATION PROJECT ..	27
3.2.1 Multi-Purpose Canister	27
3.2.2 Transportation System	29
3.2.3 Waste Acceptance	32
3.2.4 Project Integration	37
4. PROGRAM SUPPORT	47
4.1 PROGRAM QUALITY ASSURANCE	47
4.2 PROGRAM MANAGEMENT AND INTEGRATION	53
4.2.1 Systems Integration	53
4.2.2 Regulatory and Licensing	55
4.2.3 Strategic Planning	56
4.2.4 International Waste Management Technology	57
4.2.5 Program Control and Administration	58

TABLE OF CONTENTS (Continued)

	Page
4.2.6 Program Management and Integration Variances	60
4.3 EXTERNAL RELATIONS AND INFORMATION RESOURCE MANAGEMENT	71
4.3.1 External Relations	71
4.3.2 Information Management Services	73
4.3.3 External Relations and Information Resource Management Variances ..	75
4.4 REPOSITORY IMPACTS	81
APPENDIX A	A-1
APPENDIX B	B-1

LIST OF FIGURES

	Page
Total Program Financial Status	vi
Total Program Staffing	vii
1. Yucca Mountain Financial Status	19
2. Yucca Mountain Staffing	20
3. Yucca Mountain Key Milestone Schedule	21
4. WAST Project Financial Status	39
5. WAST Project Staffing	40
6. WAST Project Key Milestone Schedule	41
7. Program Quality Assurance Financial Status	50
8. Program Quality Assurance Staffing	51
9. Program Management and Integration Financial Status	61
10. International Waste Management Technology Financial Status	62
11. Program Control and Administration Financial Status	63
12. Program Management and Integration Staffing	64
13. Systems Integration Key Milestone Schedule	65
14. Regulatory and Licensing Key Milestone Schedule	67
15. Strategic Planning Key Milestone Schedule	68
16. International Waste Management Technology Key Milestone Schedule	69
17. Program Control and Administration Key Milestone Schedule	70
18. External Relations/Information Resource Management Financial Status	76
19. External Relations/Information Resource Management Staffing	77
20. External Relations Key Milestone Schedule	78

LIST OF FIGURES (Continued)

	Page
21. Information Management Key Milestone Schedule	79
22. Repository Impacts Financial Status	83
23. Repository Impacts Staffing	84

1. INTRODUCTION

1.1 PURPOSE AND SCOPE

This Management and Operating (M&O) Contractor's Monthly Summary Report (MSR) has been prepared to provide both the M&O and Office of Civilian Waste Management (OCRWM) managers with activity and cost updates. The MSR is a compilation of reports that addresses both the M&O Management and Contract Work Breakdown Structure (CWBS) (direct) elements. Each CWBS area reports Budget and Reporting (B&R) progress by describing activities, publications, and presentations during the reporting period and documents issues and concerns.

1.2 ORGANIZATION OF THE MONTHLY STATUS REPORT

Section 1, Introduction, describes the purpose, scope, and organization of the M&O MSR and the criteria for Program Management Analysis and Performance.

Section 2, M&O Management Staff Activities, provides monthly activity summaries from Contracts and Subcontracts (C&SC), Finance and Administration (F&A), Human Resources (HR), and Management Systems (MS) non-B&R activities when these activities meet the Program Management Performance Criteria stated in paragraph 1.4 below.

Section 3, Major System Acquisition (MSA) Projects, provides detailed summary reports from the Yucca Mountain Site Characterization Project (YMP) and Waste Acceptance, Storage, and Transportation (WAST) Project CWBS areas. Cost and schedule variances are reported following the Business Management section of YMP and Project Management section of WAST with accompanying data charts.

Section 4, Program Support (PS) provides Work Authorization Directive (WAD) level CWBS reports and includes Program Control and Administration (PC&A) Program, Quality Assurance (QA), Systems Integration, Regulatory and Licensing (R&L), Strategic Planning (SP), International Waste Management Technology (IWMT), External Relations (ER), Information Management Services (IMS), and Repository Impacts. Cost and schedule variances are reported at the end of each WAD section.

Appendix A, Fiscal Year (FY)95 M&O Major Deliverable Status, identifies all major M&O deliverables as defined in the WADs. It further shows which items were delivered early, on-time, late, or have a changed date through the Baseline Change Request (BCR) process.

Appendix B, M&O Monthly Progress/Update Summary, provides monthly financial reporting data representing the B&R cumulative values for budgets, forecasts, Financial Information System (FIS) actuals, and variances.

1.3 PROGRAM MANAGEMENT ANALYSIS CRITERIA

Variance analysis thresholds for FY95 are calculated at the WAD level. These variance thresholds are +/- 10% for the cumulative cost and schedule.

The data are provided as a cost graph at the WAD level. Graphs also are provided at CWBS levels 2 and 3 for areas that contribute to a variance breaking a threshold at the WAD levels. The data contained in the graph represents budget, earned value, and forecast for new FY95 work, approved deferred work from FY94, and carryover work for FY94. The actual costs represent all the above plus the FY94-95 carryover. Cost graphs also depict FY95 funding, previously funded values (FY94-95 deferred and carryover work), and a total with the two funding sources combined.

Basic and award fees are shown in Appendix B, B&R #DB093700, Contract Business Management, which includes lease termination funds.

1.4 PROGRAM MANAGEMENT PERFORMANCE CRITERIA

Progress During Report Period lists activities related directly to the B&R. These activities represent significant M&O contributions and involvement and include:

- Progress toward achieving the milestones referred to as "superstones"
- Progress in accomplishing the applicable Performance Evaluation Plan (PEP) criteria
- Actions to correct previous deficiencies
- Significant developments that required expenditure of unplanned resources
- Significant presentations and publications.

Issues and Concerns

- Actions impeding progress toward achieving milestones
- Issues requiring DOE involvement or resolution
- Problems with program or project performance.

2. M&O MANAGEMENT STAFF ACTIVITIES

2.1 CONTRACTS AND SUBCONTRACTS

Contracts

- The DOE Administrative Contracting Officer (ACO) agreed to revise the approval process for Extended Work Week (EWW) and issued correspondence requesting approval.
- Advised by RW-14 that a new Statement of Work (SOW) is required prior to October 1, 1995, using the new Work Breakdown Structure (WBS) and Program Plan. The SOW must be completed by the end of July 1995 to pass through QA review by the end of the fiscal year.
- Received approval from HR-531.2 for TRW Environmental Safety Systems (TESS) to be designated a Research and Development Contractor with Federal Acquisition Regulations (FAR) 31.205-18(a) and Code of Virginia, Title 58.1-3706D(1) as the basis. TESS will continue to hold this status until the Yucca Mountain Site moves into the construction phase.

Subcontracts

- Awarded the Multi-Purpose Canister (MPC) procurement to Westinghouse Electric Corporation for Phase I (Design) in the amount of \$14,049,223.
- Attended the MPC Kick-Off Meeting with Westinghouse Electric Corporation in Pittsburgh with the MPC project team.
- Received a protest from Newport News Shipbuilding over the award of the MPC subcontract to Westinghouse. All items will be coordinated with Legal and M&O Management and DOE as appropriate.

Purchasing

- Awarded 17 Technical Services Agreements to support the Yucca Mountain Site Characterization Office (YMSCO) as experts on the Expert Panel of the Probabilistic Seismic Hazard Assessment.
- Procurement activity supporting YMSCO:
 - \$849,861.76 (127 transactions)
 - \$1,846 - universities
 - \$320,051.22 - small businesses
 - \$361,600.54 - large businesses
 - \$44,724 - women-owned businesses
 - \$55,106 - small disadvantaged businesses
 - \$66,534 - women-owned, small disadvantaged businesses [\$349,313.92 (71 transactions) awarded to Nevada firms].

2.2 FINANCE AND ADMINISTRATION

- Completed Phase 1 work on FOXPRO automation of the DOE monthly close process to provide better reporting and a more efficient process.
- Determined the preliminary costed Program Management and Integration (PM&I) budgets for FY96.
- Provided new PM&I rates for rebaselining as a result of additional National Laboratories work.
- Met with DOE field offices and National Laboratories to implement National Laboratories consolidation with the M&O Contract.
- Continued support of the Inspector General Contract Audit.

2.3 HUMAN RESOURCES

- Completed development of the management training module on the Employee Appraisal Process.
- Completed HR Best Practices presentation on Staffing, Career Development, and Contractor Consolidation.
- Submitted non-exempt merit recommendation to DOE for approval.
- Conducted Managing Personal Growth (MPG) class in Vienna.
- Prepared and submitted the following reports to the DOE Program Office:
 - Report of Compensation Part I and Part II
 - FY95 YTD External Training Log
 - FY95 YTD Educational Reimbursement Log
 - Report of Contractor Hours and Earnings
 - Report of Contractor Employment.

2.4 MANAGEMENT SYSTEMS

- Delivered the electronic copy of the Period 5 Self Assessment to the OCRWM April 7, 1995. Submitted the hard copy April 10, 1995.

2.5 ISSUES AND CONCERNS

- None.

3. MAJOR SYSTEM ACQUISITION PROJECTS

3.1 YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT CWBS 1.2

MANAGER: L. D. Foust

3.1.1 Mined Geologic Disposal System Operations

MANAGER: R. M. Sandifer

OBJECTIVE(S): Provide overall Systems Engineering services in support of the YMP. Provide strategic planning and technical integration for the YMP.

3.1.1.1 Progress During Report Period

Advanced Conceptual Design Project Engineering

- Coordinated and chaired a technical exchange on Burn-up Credit/Criticality Control between affected organizations in Vienna and Las Vegas. The exchange resulted in significant progress toward an analysis approach consensus to be used in evaluations. Discussed different analyses techniques in an open exchange between the responsible organizations resulting in a mutual understanding of each other's approach. Assigned several follow-on actions including a Program Integration action to document and coordinate a recommended M&O burn-up credit/criticality analysis approach for approval by the affected organizations and senior TRW management with ultimate transmittal to DOE.
- Worked with National Environmental Policy Act (NEPA) and Mined Geologic Disposal System (MGDS) Design Organizations to evaluate DOE-generated comments to the published predecisional draft Notice of Intent (NOI) for the MGDS Environmental Impact Statement. Developed initial responses to comments. Developed alternative approaches for the NOI structure to more clearly state the proposed and alternative actions. This activity supports the planned publication of a revised NOI in May 1995.
- Prepared and coordinated an M&O recommendation regarding backfill, packing, invert, and waste package pedestal material evaluation for execution in the second half of this fiscal year. The evaluation is considered crucial in its potential impacts to the Repository and Waste Package design and the planned Total-System Performance Assessment (TSPA)-95 activities. The recommendation will be forwarded to YMSCO.

MGDS Development

- Delivered the Advanced Conceptual Design (ACD) Container Risk Analysis Report (TM251) and the ACD Uncanistered Fuel Risk Analysis Report (TM252). These two documents, as revised and expanded, will form the basis for the long-term criticality control licensing argument. The next revision will discuss the probabilistic approach for criticality events external to the waste packages.

- Participated in the Microbial Activity meeting hosted by Lawrence Livermore National Laboratory (LLNL). The consensus of the microbiologists was that under warm moist conditions, microbes will be active and interact with the metal substrates. However, hot and dry conditions will place these microbes into a dormant state. Other informal presentations were made on the waste package activities. A presentation was made to the full board meeting of the Nuclear Waste Technical Review Board (NWTRB) on the status of corrosion testing and modeling.
- LLNL experts developed a potential testing program for non-metallic materials. Thermally sprayed coatings on steel could be tested to confirm they will resist chemical attack and mechanical impact from a rock drop. Developed and informally briefed a specific test program to the YMSCO. A QA Cost Schedule Change Request is being prepared to support this effort. This program will be presented to YMSCO emphasizing the ability of the coatings on steel to resist mechanical impact from a rock drop. A simple heat transfer calculation showed that an increase of only a few degrees is expected as a result of the presence of the coating.
- Formulating bounding environments that represent the aggressive conditions generated by irradiated moist air. A related presentation on this subject—Substantially Complete Containment—will be given at the International Conference. Preparing an Activity Plan to cover the electrochemical potential effort.
- Issued the initial draft of the Waste Package Conceptual Design Report for internal review. Issued the MPC with Disposal Container Section of the Report to YMSCO and the M&O. The completed Conceptual Design Report is identified as a DOE superstone due in September 1995.
- Made two presentations to the NWTRB at their full board meeting April 20-21, 1995. Both presentations were well received.
- Received workscope description for the waste package closure development from Babcock and Wilcox (B&W) Nuclear Technologies, and work was authorized to start. QA training is in progress in Lynchburg, Virginia.
- Issued Revision 1 to the Waste Package Cost Status Report, which significantly improved the validity of cost. Developing the cost differences between the waste packages designed for aggressive environment with the potential for Microbiology Influenced Corrosion (MIC) and those intended for a more benign environment.
- Supported RW-1 and LLNL concerning the Los Alamos National Laboratory (LANL) autocatalytic criticality issue. Compiled a response to the Bowman theory and performed a scoping evaluation of Bowman's claim.
- Completed the "Disposal Needs for Isotopic Data" outlining the isotopics needed for disposal criticality control as scheduled.

- Evaluating other neutron absorbing isotopes (e.g., hafnium and gadolinium) as substitutes for boron. Initial results indicate that boron is the most cost effective. Even though boron is water soluble, sufficient boron may be combined in the carrier matrix to account for removal processes and still be cheaper than the other neutron absorber isotopes.
- Completed the 21-Pressurized-Water Reactor (PWR) Waste Package slap-down calculation simulating a waste package falling over.
- Completed the 24-Boiling-Water Reactor MPC disposal container thermal calculation and continued to process the 21-PWR MPC Disposal container thermal evaluation. Reviewing results and compiling them into the Conceptual Design Report.
- Completed the general arrangements for the Waste Handling Building (WHB) Cask Staging Shed and Air Lock. Continuing development of associated WHB arrangements.
- Delivered Level III Milestone TM470 "Heating and Cooling Scoping Analysis Report" on-time April 6, 1995. The report is a performance evaluation criteria deliverable.
- Delivered Level III Milestone TM545 "Repository Layout Options Analyses Report" on-time March 31, 1995.
- Delivered Level III Milestone TM566 "Repository Horizon Selection Report" April 12, 1995.
- Delivered Level III Milestone TM424 "Waste Treatment Building Status Report" April 21, 1995.
- Supported the NRC visit April 3-6, 1995, during an In-Field Verification. The primary purpose of the visit was to verify the commitments made by the DOE and the M&O in their letter of November 14, 1995. Commitments were made in the letter regarding Design Package 2C. There were significant concerns about the package and what remedies the M&O would use on the design products prior to issue for construction. The M&O spent considerable effort preparing for this visit, which was not originally a part of our workscope for the year. The NRC visit resulted in a commendation for the Design Guidelines Manual and recommendations that numerical modeling be expanded to include all pertinent types of rockbolts, procedure AP-6.14 be revised, and DOE/M&O consider classifying tunnel invert segments as Quality Affecting. In summary, the NRC visit was considered a success and a notable achievement for the project.
- Baselined Revision 1 of the Subsurface Drilling and Blasting specification (BABEA0000-01717-6300-02313) to Level 3. Obtained interim approval from the Level 3 Baseline Change Control Board (BCCB) Chairman on April 13, 1995.
- Initiated re-examination of the quality classification of the inverts. The interests are based on the meeting minutes from the Interface Control Working Group (ICWG) and a recommendation from the NRC during their April 3-6, 1995, visit the M&O in Las Vegas, Nevada, addressing why the inverts are not presently Q-items. The issue is being studied

by Exploratory Studies Facility (ESF) Designers. An update at the next ICWG meeting is scheduled for May 10, 1995.

- Issued a Baseline Change Proposal to Specification 01501 to require the testing groups' approval of test alcove construction schedules.
- The ESF issued the following design products:
 - Subsurface Drilling and Blasting (required to construct the Bow Ridge Fault Test Alcove)
 - Summary of Work Package 2 C Revision
 - Revisions to Raytheon Specifications YMP-025-1-SP01,SP03, SP06 and SP08.
 - Bow Ridge Fault Alcove Drawings.
- Completed the following Interdiscipline Reviews:
 - Bow Ridge Fault Drawings
 - Technical Specification (TS) Tunnel Electrical Drawings.
- The ESF Design Group reviewed constructor and supplier submittals, including 10 submittals of construction procedures or engineering, to support temporary construction installations, and 91 other documents as part of supplier submittals.
- Completed general arrangements for the WHB Cask Staging Shed and Air Lock. Developing other WHB general arrangements.
- Participated in interviews during the NRCs audit of the ESF/Geologic Repository Operations Area (GROA) interface.
- Continuing design work for emplacement mode selection, repository layout, data needs, shafts and ramps, emplacement equipment development, and waste emplacement management. Started work on remote handling and robotics.
- Developing new Waste Treatment Building Low Level (WTB LL) secondary waste generation rate estimates supporting the design of the WTB continues.

Construction Management

- The Tunnel Boring Machine (TBM) reached a major project milestone, 5+60 meters (m) by April 20, 1995, ahead of schedule, even though a fault zone of loose and blocky ground affected TBM progress. Material was falling out and leaving voids that needed to be filled with sand, select fill, or shotcrete in order for the machine to grip properly. Daily TBM advance rates averaged less than a meter a day for most of the month. In spite of the slow but steady progress, the TBM advanced from construction station 5+49 m to 6+33 m (84m or 275 feet). The ground conditions remained blocky at the end of the month, necessitating the installation of steel sets as the primary ground support method. Despite the poor ground conditions, the last week of the month saw the TBM advance rate average 12m per day.

- Continued surface construction on-schedule, making progress on the switchgear building, Change House building, access road for the surface conveyor, Exile Hill water tanks, the bent foundations for the surface conveyor, and Booster Pump Station.

System Engineering

- Completed a transition plan satisfying the YMSCO condition for transfer of the remaining ESF drawings and specifications from Level 2 to Level 3 Change Control Board (CCB) control in accordance with Quality Administrative Procedure (QAP) 2.6Q. Received YMSCO approval of the plan April 6, 1995.
- Entered 465 Level 2 drawings and specifications into the Level 3 baseline and removed them from the Level 2 baseline. Reviewed the document registers for Level 2 and Level 3 drawings and specifications, and verified they were properly transferred and the Field Change Requests and Field Baseline Change Proposals were carried forward and posted against the documents in the Level 3 register.
- Held a workshop in Las Vegas March 30-31, 1995, to evaluate Calico Hills access options; calculating the results of the data collected.
- Initiated the development of a complete Configuration Item (CI) section of the Exploratory Studies Facility Design Requirements (ESFDR). The Subsurface Excavations CI, chosen as the first candidate for rewrite, encompasses the Underground Openings and Ground Support Systems CIs. The initial effort focused on arranging the existing ESFDR requirements per the CI structure. The natural progression for rewrite will be to delete redundant requirements, group repetitive requirements (those that apply to multiple CIs within the CI hierarchy), and rewrite requirements for specific CIs.
- Provided briefings on the Proposed Thermal Loading Strategy, Calico Hills Study, and MPC Repository Interface Issues to the NWTRB. Systems Analysis personnel participated in the panel discussions and answered a number of questions to clarify the above topics. The topics were of high interest and the presentations well received.
- Conducted discussions with Sandia National Laboratories (SNL) on progress in support of the Thermal Loading System Study. Two tasks remain and are on schedule. The task to investigate the effects of heterogenities in thermal conductivity across the potential repository horizon is nearly complete. The results so far indicate that significant variations of around 20 degrees Celsius may occur in the early times (first few hundred years) due to heterogenities. Need to evaluate the implications of this with respect to testing.
- Supported an MGDS-MPC Interface Meeting to identify and document interfaces between the MGDS and MPC systems; identified interfaces between existing CIs in the repository and engineered barriers systems and MPC system. Will capture the information areas identified in the MGDS-Transportation Interface Control Document. Reached preliminary agreement on information areas to be shared between projects. Will develop and formally agree on specific values to be captured between both projects after final agreement on the information areas.

Site Investigations

- Conducted data needs workshops for seismic source and fault displacement and ground motion characterization in support of the USGS effort to assess seismic hazards at Yucca Mountain. These workshops are the first in a series of structured workshops that will help develop inputs to the probabilistic seismic hazards assessment for Yucca Mountain by panels of seismic source and ground motion experts. Presented data available to support input interpretations to the experts who then identified additional data collection and analysis needs. Using results of the workshops to focus relevant site investigations during the remainder of FY95.
- Organized and participated in a meeting to kick-off the second phase of development of a thermal testing strategy. The working group reviewed the thermal testing information needs and discussed the contribution of several tests in meeting those needs.
- Completed revision of the preliminary draft FY96 Technical Implementation Plan (TIP) for Site Investigations (WBS 1.2.3). This revision addresses comments from YMSCO Assistant Manager for Scientific Programs (AMSP) and provides an update to the original TIP. This document forms the starting basis for development of the Site Investigations portion of the Project Implementation Plan for FY96.

Regulatory and Technical Evaluation

- Provided the final revised draft of responses to the NRC staff comments on the Extreme Erosion Topical Report. These responses represent completion of the first phase of issue resolution activities on the Extreme Erosion potentially adverse condition since submitting the topical report March 9, 1993.
- Completed a YMSCO deliverable document entitled "Level of Design Detail for the Mined Geologic Disposal System License Application." Reviewed and analyzed precedents and lessons-learned from experience in the nuclear industry. The document recommends the appropriate level of design detail for the repository license application.
- Presented "The DOE Approach to Calculation of Ground-Water Travel Time" to the Advisory Committee on Nuclear Waste (ACNW) April 12, 1995. The ACNW was pleased that interactions with the NRC staff were going well and are progressing toward the resolution of a final approach. Both the staff and the DOE agreed that additional interaction would be beneficial. The ACNW was receptive to both the likelihood and significance of travel times less than 1,000 years being used as the basis of compliance to 10 CFR 60.

ESF Site Project Engineering

- Completed work as a member of the North Ramp Extension Alternatives Working Group that helped develop an extension supporting the gathering of required scientific site suitability information. Prepared two sections (Program Plan for ESF and Options Evaluated) of the final recommendation briefing "Summary of North Ramp Extension Alternatives Activity," which was presented to DOE Assistant Managers for Scientific

Programs, Suitability and Licensing (AMSL), and Engineering and Field Operations (AMEFO) April 4, 1995.

- Organized an off-site meeting requested by YMSCO to develop an alternative strategy for the North Ramp Extension and Calico Hills excavations and testing, and briefed YMSCO April 17, 1995. DOE requested the M&O to develop a schedule and additional details based on this briefing.
- Coordinated implementation of the ESF pad communication system. The system is scheduled to be in operation in early May 1995.
- Provided a temporary location in the Switchgear Building for the Integrated Data and Control System (IDCS) and the IDCS instrument shop for LANL. The IDCS instrument shop will move into the Shop Building after it is constructed.

Field Operation Support

- Completed Condition Assessment Surveys of major roads and the General Support Facilities, Deliverable Number FT97/15.

Product Integrity

- Evaluated in report OPI-95-02 design change information transmission to affected design organizations and whether adequate procedural controls are in place to ensure that required impact evaluations result when design input documents are revised. Initiated two Corrective Action Reporting System (CARs) items (95-QN-010 and 95-QN-011), which identify the lack of a formal M&O tracking method to notify appropriate personnel that design input documents were revised, and documented Affected Document Notice M&O facilitator training. The report recommends the M&O define and assign responsibility and implement or revise an existing process to ensure that originators of other documents affected by changes, either directly or indirectly, receive notification. It further recommends all changes processed since the release of the 2C package be reviewed for impact and impact evaluations be conducted.
- Reviewed the Subsurface Drilling and Blasting Specification and prepared report OPI-95-03 to verify:
 - Adequate flowdown of requirements from the Determination of Importance Evaluation (DIE) and supporting analyses
 - Procedural compliance to QAP-3-8
 - Accuracy and content of the specification's Submittal and Notification Matrix
 - Adequate training documentation exists for those involved with the development or review of the specification.

Three recommendations resulted from the review: 1) the DIE should not specifically address Architect/Engineer (A/E) approval of subsequent blast plans but should address subsequent blast pattern changes; 2) place instructions for Submittal and Notification form completion in the MGDS Design Process Guidelines Manual; and 3) review, in an MGDS lessons-learned briefing, instructions for specification cover sheet completion.

- Evaluated the checking and interdiscipline review process results for draft ESF Blast Design Analysis and prepared report OPI-95-04. Resolved six comments submitted during the review with the originator. The report recommends the To Be Verified (TBV) paperwork (per Nevada Line Procedure NLP-3-15) applicable to each analysis be reviewed by the document preparer and checker as a routine practice during document development.
- Reviewed the draft Bow Ridge Fault Test Alcove Rockbolts and Shotcrete "Q" drawing and supporting "non-Q" North Ramp Bow Ridge Fault Test Alcove GA Plan and Sections drawings and prepared report OPI-95-05. One comment was submitted to the verification leader of the "Q" drawing, because Note #7 did not adequately translate Package 2C DIE, Requirement 9. CAR 95-QN-013 was initiated regarding the lack of evidence of training to QAP-3-10 (Revision 5) for one of the Interdiscipline reviewers. Also, two recommendations were made: 1) all training records that could not be located in the Training Department files during the review be retransmitted and a transmittal form be developed to confirm receipt of the records; and 2) Package 2C DIE be revised to clearly document QA classification of the test alcove with regard to QA-2 classification criteria.

3.1.1.2 Issues and Concerns

- None.

3.1.2 Support Operations

MANAGER: D. K. Chandler

OBJECTIVE(S): Provides the products and services to support the Civilian Radioactive Waste Management System (CRWMS) M&O contract for the YMP in Las Vegas, Nevada, in the areas of Information Management; Training; Institutional and External Affairs; and Environment, Safety, and Regional programs. The support operations include developing computer-based information applications; processing YMP records; providing performance-based training classes; implementing environmental, radiological, and safety and health monitoring and compliance programs; conducting regional socioeconomic studies; and providing public outreach programs, media and communications support, information products, and intergovernmental interactions.

3.1.2.1 Progress During Report Period

Information Management

- Developed a prototype Lotus Notes database for the FY96 Planning Proposal in conjunction with the Vegas Information System Integrated Operations Network (VISION).
- Participated in National Records Management Day, April 5, 1995, by providing several tours of the Document Control Center, Imaging Center, and Records Processing Center. Representatives of all three groups provided overviews of their responsibilities in their respective areas, and the Imaging Center staff coordinated multiple activities in support of this activity. Demonstrations of the Records Data Management System (RDMS) were given by the Imaging Center.
- Copied Interim Records Information System into the new release of BASISPLUS to support the Records and Data Management System effort. Worked with Vienna M&O Information Resources Management (IRM) to resolve issues relating to this deliverable by May 15, 1995.
- Las Vegas M&O representatives and all remote site records organizations met in Albuquerque, NM, on April 19 and 20, 1995, to prepare the FY96 consolidated budget submittal and establish priorities, philosophies, and impacts. Nineteen action items were identified for work by this group, which forms the newly expanded West Coast contingent of the M&O Records Management Council.

Environmental Safety and Health

- Hosted the fourth annual YMSCO Safety Awareness Day, April 4, 1995. The event was well received with over 600 YMP employees participating.
- Submitted the 1995 Environmental Compliance Summary Report to the Assistant Manager for Environment, Safety and Health (AMESH) for transmittal to DOE Office of Environment, Safety and Health (ESH) as required by DOE Order 5400.1. The summary report becomes part of the Yucca Mountain Annual Site Environmental Report, a key project deliverable.

- Revised the Repository Environmental Impact Statement draft NOI to address OCRWM review comments and transmitted it to DOE ESH for review.
- Submitted the NRG-7 drill site hydrocarbon release final report to the AMESH. Delivered the report to the Nevada Division of Emergency Management.
- Received Rights-of-Way Reservations from the U.S. Bureau of Land Management (BLM) for Sleeping Butte volcanism studies, Crater Flats volcanism studies, and Bare Mountain quaternary faulting studies required before site characterization activities in these areas are initiated.
- Conducted a comprehensive ESH audit of SNL Yucca Mountain site characterization activities April 17-21, 1995.
- Received issuance approval for the ESH Audit, FY95A, of the Los Alamos National Laboratory at the Yucca Mountain Site Characterization Project report.
- Submitted the First Quarter 1995 Underground Injection Control Permit Reports to the Nevada Division of Environmental Protection.
- Submitted Yucca Mountain Administrative Procedure (YAP) 30.10 revisions to the Plans and Procedures Division for distribution. The procedure implements waste minimization through source reduction, recycling, or product substitution.
- Initiated Bioremediation Test Facility Plan activities by filing temporary permit requests to change the water diversion point under the Well J-13 permit. Water will be used for construction activities and discharged into a spreading basin within Fortymile Wash and used as a credit for aquifer recharge.
- Submitted the draft report "Gaming in the United States: A Backdrop to Gaming-based Tourism in the Clark County, Nevada Economy" to the YMSCO for review. This report is an element of the socioeconomic profiles for southern Nevada.
- Sent an initial \$2 million payment of the \$7.4 million promised to Nye County, Nevada in FY95, to county officials, pursuant to the negotiated Payments-Equal-to-Taxes program agreement with the county.

Institutional and External Affairs

- Provided 11 educational, 6 technical, and 12 general YMP overview presentations with a total attendance of 1,620 people.
- Coordinated and conducted 23 tours to Yucca Mountain for a total of 379 guests. A Public Open House tour was also conducted for 135 guests. Of special interest were tours for guests from the 60 Minutes Research Team, Congressman Don Young of Alaska with the Nuclear Energy Institute, three members of Congressman John Ensign's staff with one

member of Congresswoman Barbara Vucanovich's staff, and two Nuclear Energy Institute Congressional Staffer tours.

- Staffed the YMP exhibits for the Clark County Fair in Logandale, Nevada, and the Original Home Show in Las Vegas, Nevada. Approximately 941 people viewed the displays.
- Completed development and distribution of a new video titled "Progress Report on the Tunnel Boring Machine's Excavation of the Exploratory Studies Facility, April 1995." Sent the 7-minute video to 700 interested stakeholders, Congressional offices, and members of the news media. Additional VHS copies are available through the YMP Public Affairs Office at (702) 794-7900.
- Sent the spring newsletter "Of Mountains and Science" to OCRWM for printing.
- Completed the initial public information product plan for the Environmental Impact Statement (EIS) for a potential repository at Yucca Mountain. Developed a prototype design for the product line. Will send products to OCRWM in mid-May for review and approval process.
- Secured assistance of experienced EIS writers through DOE/Idaho, which will ensure high quality while meeting aggressive deadlines.
- Escorted Nye County officials on a tour of the Waste Isolation Pilot Plant in Carlsbad, New Mexico.
- Completed 172 external information requests by providing written responses to written and verbal queries and/or by supplying existing literature.

3.1.2.2 Issues and Concerns

- None.

3.1.3 Program Management Organization

MANAGER: R. G. Vawter

OBJECTIVE(S): The Project Management Organization (PMO) provides management support services to YMSCO by preparing short- and long-term Technical Implementation Plans, integrated project schedules, and draft budget documents for DOE use in its Office of Management and Budget (OMB) and Internal Review Budget (IRB) budget process. The PMO facilitates YMSCO monthly management meetings and prepares YMSCO managers for the Directors Program Review meeting. PMO staff assist YMSCO in monitoring individual participant progress through operating the Planning and Control System (PACS) and through monthly budget and schedule performance analysis. The PMO facilitates YMSCO baseline management through its support of the Level 2 CCB. The PMO provides individual WBS Level 3 Integrators to ensure coordination of each functional work area.

3.1.3.1 Progress During Report Period

- Published and distributed the approved PMO Transition Plan, dated April 14, 1995. Immediately implemented transition of the planning function and personnel. Modifying the WAD for both the performers and PMO to correctly reflect the workscope and funding transitioned from the PMO.
- The Licensing Support System (LSS) Technical Working Group (TWG) met in Denver to review and approve the Level 1 LSS Requirements Documents. Agreement was reached and the document was revised. The TWG will present their findings to the LSS Advisory Review Panel (ARP) in early May 1995. Agreement on the LSS Level 1 requirements clears the way for development of detailed requirements and the Analysis of Benefits and Cost. The LSS effort is proceeding on schedule.
- Provided analysis and preparation support for the YMSCO mid-year review. YMSCO commended the PMO for their excellent support.
- Continued interactions relating to Surface Processes and TSPA-1995 peer reviews; conducted teleconference with National Academy of Science (NAS) Board of Radioactive Waste Management and the AMSL performance assessment and site suitability staff. Provided support addressing TSPA-1995 and logistics planning for the Surface Processes To Be Resolved (TBR) peer review.

3.1.3.2 Issues and Concerns

- None.

3.1.4 Business Management

MANAGER: D. B. Abel

OBJECTIVE(S): Provide overall Project Management, Project Control, Scheduling, and Administration and Facilities for the M&O.

3.1.4.1 Progress During Report Period

Project Management

- Submitted an FY96 detailed PM&I estimate to Vienna for preliminary overhead rate projections.
- Participated in 1-week DELTEK overview with Vienna Finance staff to evaluate new system capabilities and project requirements.
- Provided a briefing to YMSCO and M&O staff on deliverables processing, resolved concerns addressed during briefings with YMSCO, and began incorporating changes into procedure YAP-5.1Q, Document Development, Change, Review, Approval, and Acceptance Control to improve deliverables acceptance review process.
- PPD processed 29 deliverables during April in accordance with the new process for deliverable acceptance reviews; submitted this statistic and monthly statistics for level-of-effort activities to YMSCO.

Support Services

- Secured short-term space at the Dawson facility and began fit-up for FY96 Annual Project Implementation Plan development activities.
- Distributed Second-Quarter Yucca Mountain Project Directory.

3.1.4.2 Issues and Concerns

- None.

3.1.4.3 Variances

- Variance thresholds are not exceeded.

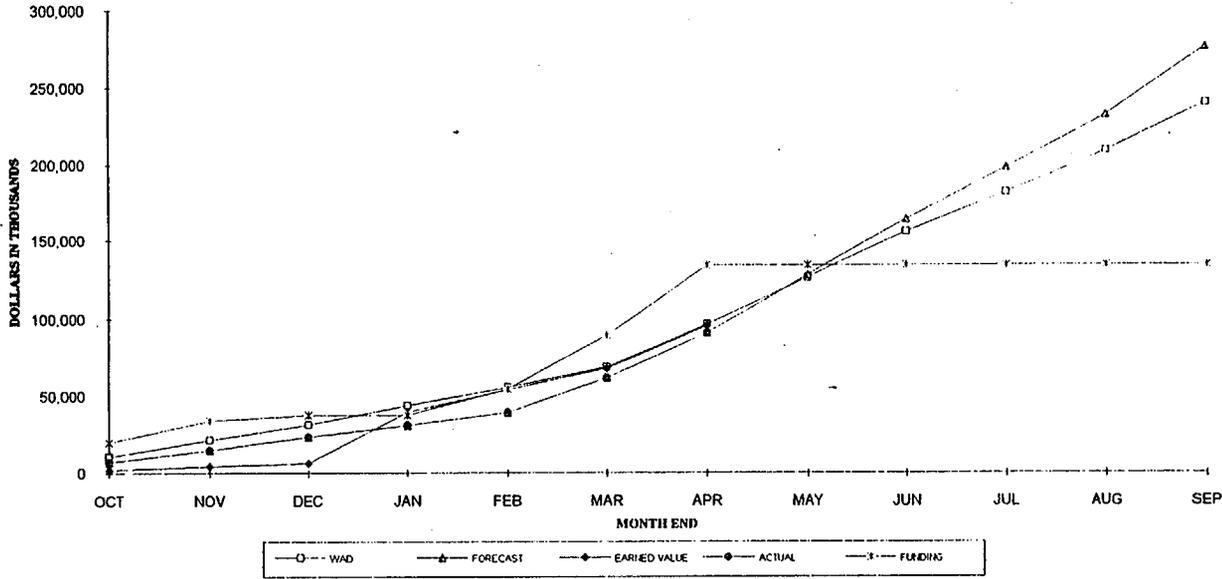
3.1.4.4 Schedule Variances

- TM107A - DOE requested that ESF design activities for Package 8A and Ghost Dance Fault (GDF) be accelerated. Package 8A was accelerated by 4 months. GDF was accelerated by 9 months. This impacted the requirements development for Package 8A. The update now had to include the GDF requirement in order to support the 9-month acceleration. A

Cost/Schedule Change Request (C/SCR) was submitted by the ESF Project Engineering Office (PEO). However, DOE changed the direction and requested that Package 8A and GDF design activities become part of the Package 2C design. The work associated to support this change remains the same but the design review activities changed from 50% to 90% design reviews to External Reviews, which do not require the rigor for formal design reviews.

- TM114 - Issues related to design spec TVB must be resolved. Awaiting design QAP3-9 analyses on resolving MPC-TBVs.
- TR242 - All long range planning is being delayed to accommodate the latest FY96 proposal decisions.
- TM650 - This activity is no longer applicable to the design. A Baseline Change Request (BCR) is pending to delete this activity.
- TM806 - Waiting for a permit from the State of Nevada to finalize a change request. There is no impact to the schedule. A BCR will be submitted.

CWBS 1.2 YUCCA MOUNTAIN SITE-CHARACTERIZATION PROJECT (YMP)



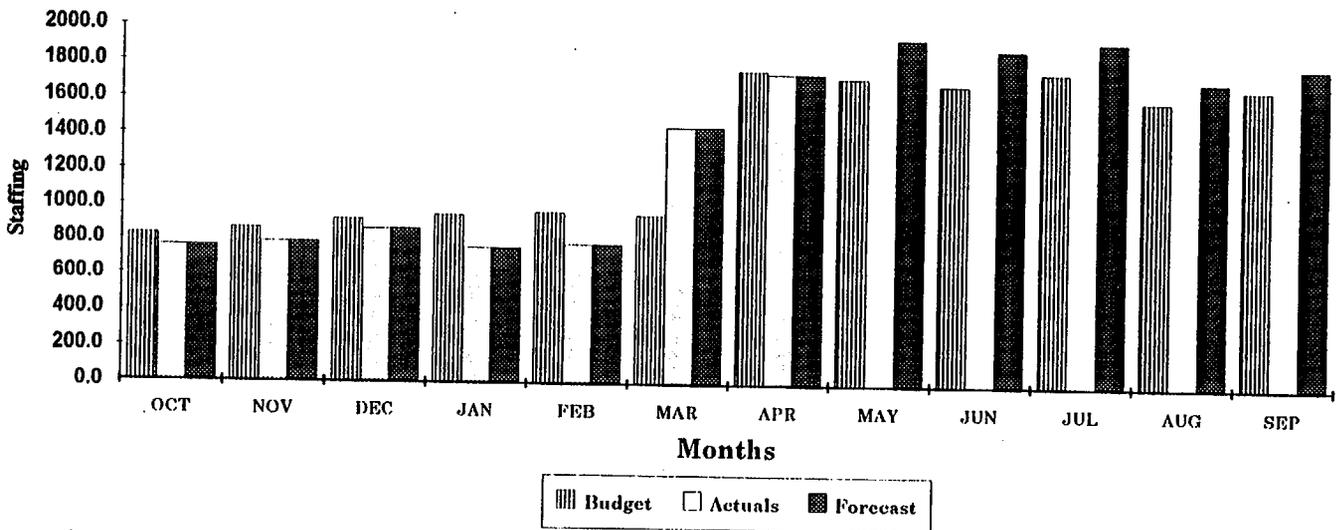
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTH	WAD	10,694	10,732	9,938	12,307	11,650	13,439	27,938	29,284	29,813	25,838	27,228	30,933
	FORECAST	7,213	7,616	8,713	7,514	8,138	22,474	29,367	36,658	35,927	34,199	34,346	44,164
	EARNED VALUE	2,135	2,186	2,153	33,092	14,108	14,020	28,256					
	MONTH ACTUAL	7,213	7,616	8,713	7,514	8,138	22,474	29,408					
	VAR/SCH	(8,559)	(8,546)	(7,785)	20,785	2,458	581	320					
	VAR/COST	(5,078)	(5,430)	(8,580)	25,578	5,970	(8,454)	(1,152)					
CUM	WAD	10,694	21,426	31,364	43,671	55,321	68,760	96,698	125,960	155,773	181,611	208,839	239,772
	FORECAST	7,213	14,829	23,542	31,056	39,194	61,668	91,035	127,693	163,620	197,819	232,165	276,329
	EARNED VALUE	2,135	4,321	6,474	39,566	53,674	67,694	95,950					
	ACTUAL	7,213	14,829	23,542	31,056	39,194	61,668	91,127					
	VAR/SCH	(8,559)	(17,105)	(24,890)	(4,105)	(1,847)	(1,066)	(746)					
	VAR/COST	(5,078)	(10,508)	(17,068)	8,510	14,480	6,028	4,823					
FUNDING	FY95 FUNDING	20,000	34,055	34,055	34,055	50,816	66,165	130,289	130,289	130,289	130,289	130,289	130,289
	PREV. FUNDED	0	0	3,491	3,491	3,491	3,491	3,491	3,491	3,491	3,491	3,491	3,491
	TOTAL FUNDING	20,000	34,055	37,546	37,546	54,307	69,658	133,780	133,780	133,780	133,780	133,780	133,780

Current and Cumulative Cost and "At Complete" Variances are the result of actual cost booking for carryover, SAIC, and IRG before their budgets have been baselined.

Figure 1. Yucca Mountain Financial Status

Actuals Thru 4/30/1995

CWBS 1.2 YUCCA MOUNTAIN SITE-CHARACTERIZATION PROJECT (YMP)



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Forecast	764.3	787.5	863.4	758.4	781.8	1447.8	1747.6	1942.7	1888.2	1936.5	1721.6	1802.6
Budget	829.0	865.6	922.0	946.8	966.9	951.8	1762.3	1725.0	1691.7	1765.0	1612.4	1680.8
Actuals	764.3	787.5	863.4	758.4	781.8	1447.8	1747.6	0.0	0.0	0.0	0.0	0.0

Current month staffing variances are a result of actual costs booking for SAIC and IRG before their budgets have been baselined.

Figure 2. Yucca Mountain Staffing

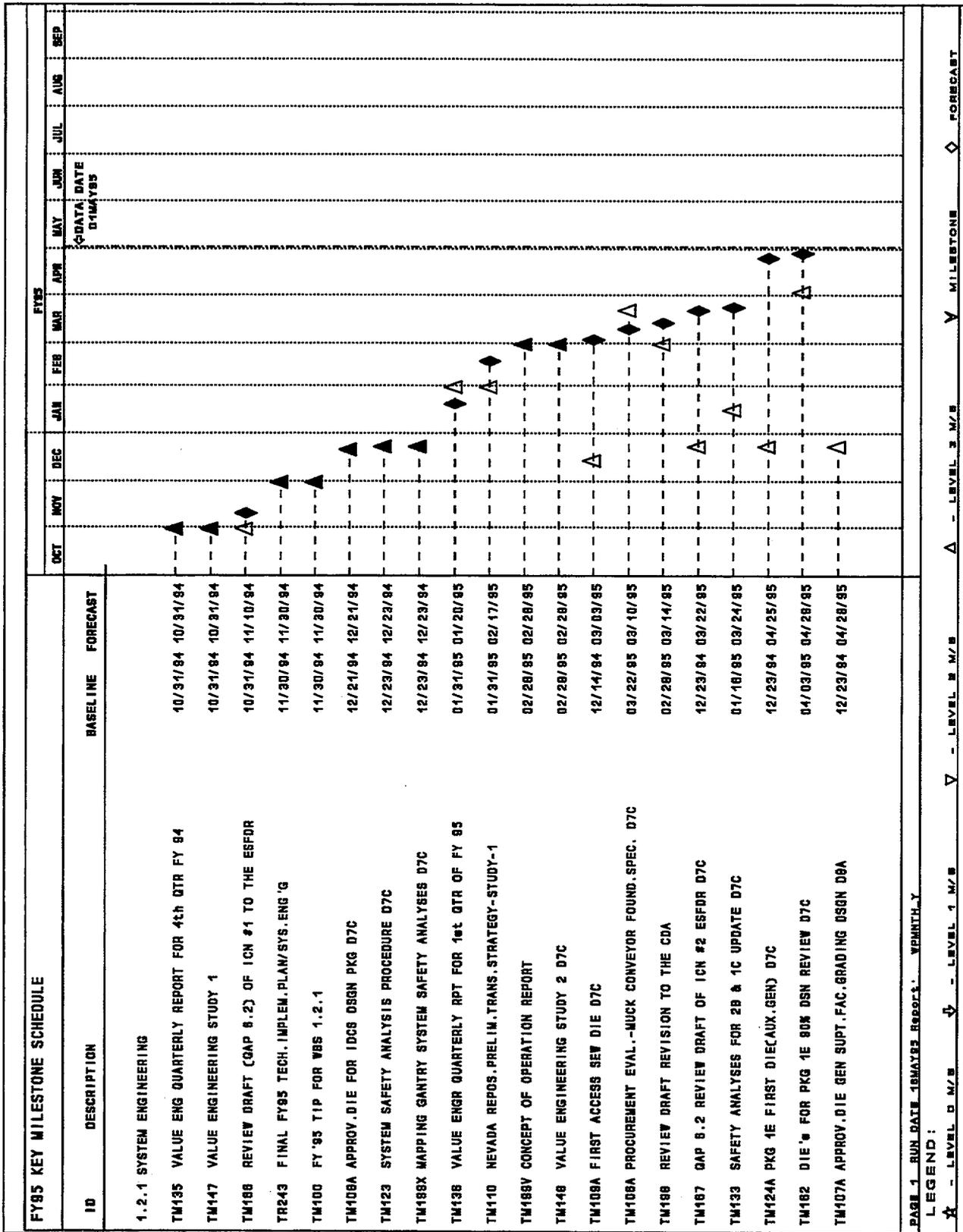


Figure 3. Yucca Mountain Key Milestone Schedule

Figure 3. Yucca Mountain Key Milestone Schedule (Continued)

FY95 KEY MILESTONE SCHEDULE		BASELINE		FORECAST		FY95											
ID	DESCRIPTION					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
TM114	MPC STUDY REPORT	04/31/95	04/29/95														
TR242	SYSTEM ENG'G LONG RANGE PLAN	02/28/95	03/02/95														
TM101	SYSTEM ENGINEERING LONG RANGE PLAN	02/28/95	03/30/95														
TM112	CALICO HILLS DATA NEEDS ACCESS STUDY PER D7F	02/28/95	03/31/95														
TM189D	GAP 8.2 REV DRAFT REV. TO EBRD ACID DBA	03/31/95	06/09/95														
TM189J	GAP 8.2 REV. DRAFT D7C	03/31/95	06/09/95														
TM139	DESIGN PACKAGE 2C UPDATE D7C	02/28/95	08/23/95														
TM102	DRAFT FY'98 TIP FOR 1.2.1.1	03/30/95	08/29/95														
TM140	DIE'S FOR PKG BA 50K DESIGN REVIEW D7C	03/02/95	08/30/95														
TM199W	SAFETY ANALYSES FOR 2C UPDATE D7C	02/28/95	07/20/95														
TM198A	REVIEW DRAFT REVISION TO THE CMA	08/30/95	08/30/95														
TM111	NEVADA REPOS. PRELIM. TRANSP. STRATEGY-STUDY II	08/31/95	08/31/95														
TM113	FY'95 THERMAL LOADING STUDY	09/29/95	09/29/95														
TM189P	GAP 2.8 REV. DRAFT OF REVISION OF SCRB	09/29/95	09/29/95														
TM188B	GAP 8.2 REV. DRAFT REV. TO RDRD	09/29/95	09/29/95														
TM179	ESF CONCEPT OF OPERATION REPORT	09/29/95	09/29/95														
1.2.2 WASTE PACKAGE																	
TM248	DRAFT FY'98 TIP FOR 1.2.2	03/30/95	03/30/95														
TM218	DEVEL. MPC & DISP. CONT. SECT. OF WP CD RPT. PER DBA	04/14/95	04/14/95														
TM218	DEVEL. DNLW CONTAINER OF WP CDR DBA	08/15/95	08/15/95														
TM214	RPT. ON PRELIM SELEC. OF WP MAT'L'S	08/15/95	08/30/95														

PAGE 2 RUN DATE 18MAY95 REPORT 1 W/MTHT.Y
 LEGEND: * - LEVEL 0 M/S ↓ - LEVEL 1 M/S ∇ - LEVEL 2 M/S Δ - LEVEL 3 M/S V MILESTONE ◇ FORECAST

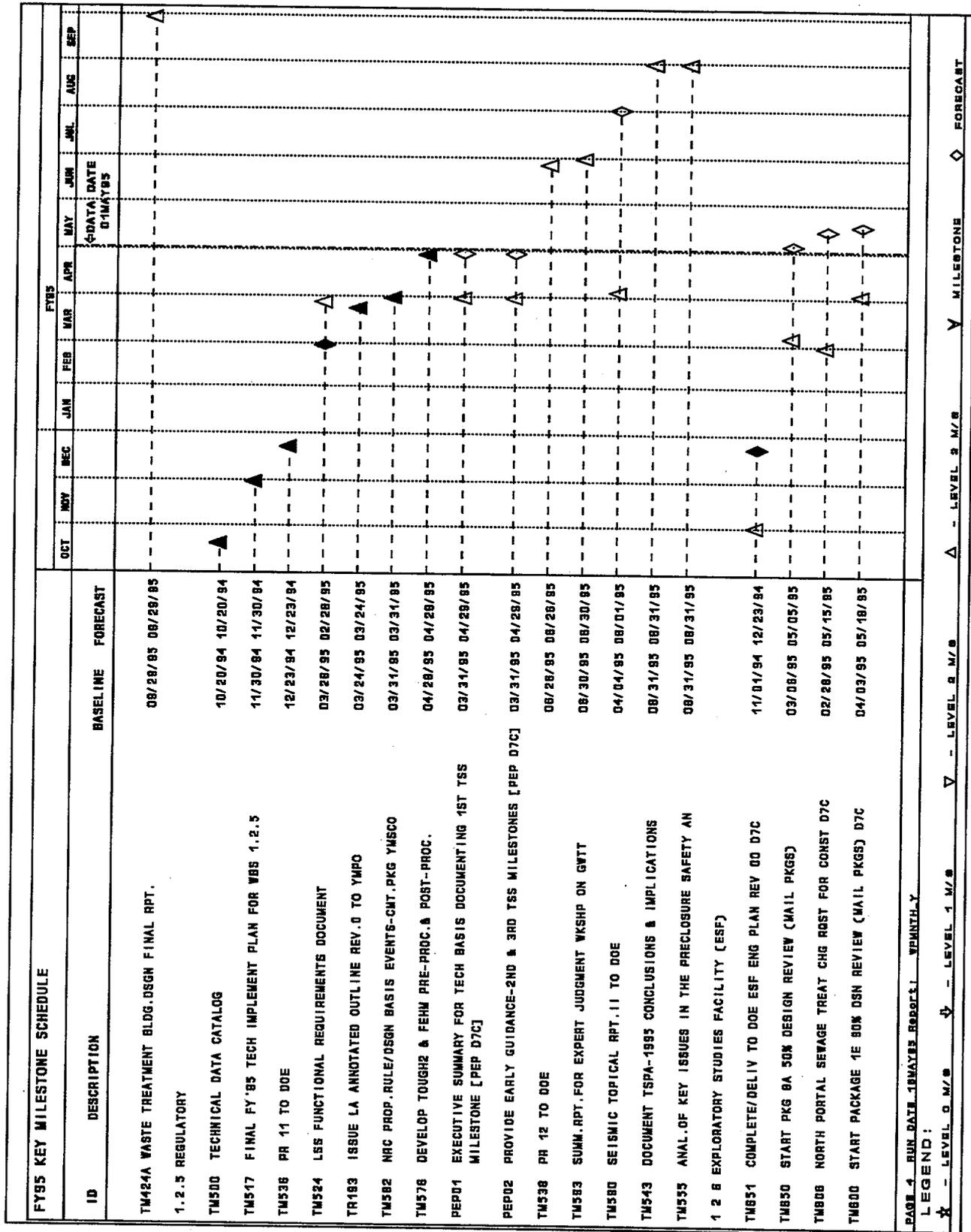


Figure 3. Yucca Mountain Key Milestone Schedule (Continued)

FY85 KEY MILESTONE SCHEDULE		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
ID	DESCRIPTION	← DATA DATE 01/01/85											
	BASELINE	FORECAST											
TW803	RELEASE DESIGN PACKAGE 1E FOR CONSTRUCTION												
	07/07/85 07/07/85												
TW884	C.A.S. CONDENSATE DRAIN REVISIONS RELEASE D7C												
	08/18/85 08/18/85												
1.2.12	DESIGN												
MSR01	IMPLEMENT MHD SAFETY & HEALTH PLAN												
	03/31/85 04/28/85												
1.2.14	UNSATURATED ZONE PERCOLATION												
MSR02	EXECUTE A PLAN OF ACTION TO INTEGRATE INST/IT/OUTREACH ACT INTO YMP TECH MGMT AND PLANNING PROCESS												
	03/31/85 04/28/85												

PAGE 3 RUN DATE 18 MAY 85 09:01:11 WPMNTH.Y
 LEGEND:
 ☆ - LEVEL 0 M/S ↓ - LEVEL 1 M/S ∇ - LEVEL 2 M/S Δ - LEVEL 3 M/S ◇ FORECAST

Figure 3. Yucca Mountain Key Milestone Schedule (Continued)

INTENTIONALLY LEFT BLANK

3.2 WASTE ACCEPTANCE, STORAGE AND TRANSPORTATION PROJECT CWBS 3.0

MANAGER: A. S. Kubo

3.2.1 Multi-Purpose Canister

MANAGER: J. R. Clark/L. Smith

OBJECTIVE(S): Provide technical management and integration of activities related to development of the MPC Subsystems and Dry Transfer System (DTS). Provide technical solicitation evaluation support and management of the MPC Subsystems subcontract. Assist OCRWM in all aspects of the WAST MPC licensing process. Assist OCRWM in the development of the MPC EIS. Assist OCRWM in supporting public information and institutional tasks regarding MPC activities. Conduct systems engineering in support of WAST.

3.2.1.1 Progress During Report Period

Engineering Development

- The MPC contract was awarded April 21, 1995. The selected supplier of the Phase I Safety Analysis Report (SAR) Design is the Westinghouse Team. The team includes PacTec and Chem-Nuclear as key subcontractors. A contract kickoff meeting was held at Westinghouse offices in Pittsburgh April 26, 1995. Near term deliverables and contract clarifications were discussed. The supplier's QA Program has been reviewed and approved by the M&O.
- Completed revisions to the MPC, and Transportation Design Procurement Specifications and Requirements Backup Analysis to clear resolved TBV/To Be Determined (TBDs) to support the MPC contract award.
- An OCRWM QA Surveillance was performed on the MPC Procurement and Systems activities. The audit produced seven recommendations and a rating of "effective."
- Completed review and provided comments on the MGDS Surface Facility dose assessment report.

Regulatory

- Completed burnup credit topical report comment resolution and revised the report based on comments from the March 21, 1995 M&O/DOE review. The report was submitted to an independent review team on April 25, 1995. Once comments from this review are resolved, the report will be submitted to RW-46 by May 15, 1995 for DOE concurrence and transmittal to the NRC by May 31, 1995.
- Continuing development of the Multi-Purpose Canister (MPC) 10 CFR 60 Design Considerations Report with participation from Las Vegas.

- Coordinated and participated in the April 18, 1995 video-teleconference for the technical writing team
- Completed the topical outline for the report based on NRC guidance
- Completed the QAP-2-0 evaluation of the activity
- Completed the Draft Technical Document Preparation Plan (TDPP) and distributed to RW-46 for review and concurrence
- Participated in the M&O regulatory integration meeting April 12, 1995. The meeting included manager participants from WAST, Las Vegas, and Program licensing organizations as well as representation from Winston and Strawn.

Environmental Safety and Health

- Held a meeting with Argonne National Laboratories (ANL), and RW-45 on MPC EIS Implementation Plan (IP) public notification methods April 10, 1995. A mailout to core stakeholders, IP requestors from scoping, and a core tribal list was agreed upon. Mailout and Federal Register Notice of Availability is scheduled for June 15, 1995. Held an MPC EIS IP comment resolution meeting April 24, 1995. DOE ESH Management Electric Heater (EH), General Council (GC), YMP, RW-36, RW-45, M&O, ANL, and Weston personnel concurred on all comment resolutions received by ANL before the meeting. The IP is currently being revised by ANL for concurrence signoff by EH, GC, and RW, scheduled for between May 5, 1995 and May 25, 1995.
- Delivered the Draft Environmental Safety and Health (ES&H) Management Plan to RW-36 April 17, 1995, on schedule.
- Delivered the Preliminary Draft WAST Regulatory Compliance Plan Annotated Outline to RW-40 on schedule April 28, 1995.

3.2.1.2 Issues and Concerns

- None.

3.2.2 Transportation System

MANAGER: R. F. Kelly/L. Smith

OBJECTIVE(S): Provide management and integration of all activities related to transportation cask development, transportation planning and operations, service and maintenance of transportation equipment, application of Systems Engineering to Transportation, collection and maintenance of site-specific engineering and operations data, transportation economic and systems analysis, and integration of transportation with other CRWMS program elements. Manage transportation database formulations, model development, and computer code development activities. Assist OCRWM in supporting public information and institutional tasks, including policy analysis and issue resolution.

3.2.2.1 Progress During Report Period

System Engineering

- Performed detailed analysis of the Interstate Commerce Commission Public Use Waybill Sample. Developed software to examine a 1992 sample for consideration of 6- and 8-axle railcars and heavy-weight cargos. This is part of the assessment of the railroads' capability to handle the large MPCs.
- Delivered the *Transportation Geographic Information System Program Plan*. This plan describes the Transportation Geographic Information System (TGIS) that is currently being developed by the CRWMS' Transportation Department and how the TGIS may be used to support transportation activities.
- Delivered *Nuclear Waste Shipping Container Response to Severe Highway and Railway Accident Conditions: A Brief Review of Modal Study Critiques*. This report presents proposed responses to stakeholder concerns about the NRC-sponsored Modal study. The Modal study is being used to predict cask performance during accidents in the MPC EIS.

Casks

- General Atomics (GA) held a kick-off meeting with Maxwell Laboratories on April 6, 1995, to discuss half-scale model drop testing. GA has given Maxwell draft procedures of the drop testing, and Maxwell will insert their portion of the testing procedures. The drop pad is scheduled to be completed by the end of May 1995. GA will prepare and submit a draft checklist for review (within 4-6 weeks) that will be used as a pretest evaluation to determine that GA and Maxwell are ready to perform the drop tests. GA anticipates the pretest evaluation 2-3 weeks before beginning tests.
- Provided input for full-scale testing presentations to RW-40 and RW-1.
- Supported RW-46 at a fabrication status meeting between GA and Precision Components Corporation (PCC) at PCC's office in York, PA, April 20, 1995. The impact limiter support structure rib welding is complete and being machined to fit the structure shells. The dummy

fuel assemblies are being rough machined. GA is working to qualify the adhesive used to bond the aluminum honeycomb to the stainless steel housing. The projected ship date for the cask model is July 13, 1995.

- Prepared a draft pretest evaluation checklist for GA half-scale model testing. The checklist will be used to ensure that GA meets DOE contractual requirements.
- Completed the GA-9 legal-weight truck trailer refurbishment. The trailer passed the Commercial Vehicle Safety Alliance Standard inspection April 19, 1995. The M&O prepared a trailer acceptance checklist, and a representative from RW-46 signed for the trailer on April 26, 1995. The final *Durability Test Report* from Allied Signal Automotive Proving Grounds (AAPG) has not yet been received. The legal-weight truck cask system tractor performance and operability testing is scheduled to begin in early May 1995.
- Completed Chapter 2 and Appendix A of the *Actinide Burnup Credit Topical Report*.

Transportation Support Systems

- Made a presentation to RW-40 on the status of Support Systems 1995 deliverables related to the ongoing work with the Association of American Railroads (AAR). The presentation included the scope of the deliverables and how they fit into the overall Transportation program.
- Completed the preliminary draft of the *Transportation Contingency Plan for Limited Capacity Shipment, Revision 1*. Forwarded the plan to RW-45 for comment.
- Researched legal implications of Intermodal Transfer Facility, investigated requirements in the proposed Nuclear Waste Policy Act of 1995 and began work on *The Impacts of Legal Considerations on an MPC-Based System*.

Project Management

- Prepared input for FY97-98 planning scenarios developed to support RW-1 during the DOE Budget Summit.

Environmental, Safety and Health

- Completed the consolidation and prioritization of technical review comments on the *RISKIND - Revision 1.0* (beta test) computer code for assessing the individual risk and consequences from the transportation of spent nuclear fuel. Forwarded the comments to the code developer, ANL, for their consideration and response.
- Presented a transportation modeling and risk assessment tools demonstration including the TGIS, HIGHWAY, INTERLINE, RADTRAN, and RISKIND codes, to RW-45 and support staff on April 19, 1995.

Institutional

- Submitted a preliminary draft of the Supplemental Notice of Inquiry on a detailed list of options for NWPA 180(c) for a preconcurrence internal OCRWM review.

3.2.2.2 Issues and Concerns

- None.

3.2.3 Waste Acceptance

MANAGER: B. M. Cole

OBJECTIVE(S): Provide management and integration of all activities related to the Standard Disposal Contract, the Spent Nuclear Fuel (SNF) Verification Plan, Waste Acceptance Criteria for Alternative Waste Forms, Materials Control and Accountability, Safeguards and Security, Waste Acceptance Operations Plan, application of Systems Engineering to Waste Acceptance, interaction with the Energy Information Administration, support of Integrated Database (IDB) preparation, and development of a unified database system.

3.2.3.1 Progress During Report Period

3.2.3.1.1 Waste Acceptance Process and Operations

Standard Contract Modification

- Provided comments on draft DOE memorandum entitled "President's Regulatory Reform Initiative" to be sent from RW-1 to EM-1. The memo incorrectly addressed some background material on Part 961 and also incorrectly stated that the modifications to Part 961 will be done through a "negotiated rulemaking" process.
- Incorporated Standard Contract language modifications in the annotated outline for the NOPR being prepared in support of the Standard contract Rulemaking. These language modifications were prepared for previous rulemaking efforts. Also reviewed language modifications that would require no policy guidance prior to incorporating into the annotated outline.
- Preparing white paper for RW-44 addressing policy options for encouraging the use of MPC for at-reactor storage in the event acceptance is delayed beyond 1998. Met with RW-44 and RW-46 to discuss cost assumptions for the utility/DOE cost tradeoff analysis section of the white paper. Received input from M&O MPC Department on market penetration and time to deploy for each option.

Pre-Acceptance Operations

- Completed development of preliminary draft of the SNF Verification Plan (Sections 1-4) and submitted for internal M&O review. Will complete Section 5 next month.
- Revised "red and green" spreadsheet charts that compare the 1994 Spent Fuel Storage Requirements Report (SFSR) requirements by utility with the 1994 Annual Capacity Report (ACR) allocations by utility for use in upcoming RW-2 congressional briefings. Briefed RW-44 to acquire insight as to RW-2 needs and suggestions for modifications to the charts. Worked with RW-7 to prepare an accompanying briefing paper explaining the differences.

- Completed development of the Delivery Commitment Schedule (DCS) Information Network and delivered the draft User's Manual for the Network to RW-44, meeting the Program Plan milestone for this activity.
- Met with Duke Power Company to resolve probable DOE 10 CFR 72.72 reporting requirements for dry storage facilities.
- Discussed need for isotopic information with other program elements and determined that only uranium and plutonium content information must be collected during SNF verification.

Waste Acceptance Criteria

- Supported RW-44 at an April 12, 1995, meeting in Las Vegas addressing interim processing requirements for the Hanford cesium and strontium capsules; prepared a trip report summarizing meeting results.
- Issued the Preliminary Draft Waste Acceptance Criteria Management Plan. The plan addresses DOE-owned waste, including SNF.

High-Level Waste Generator Agreements

- Attended the Waste Acceptance (WA) and Transportation Task Team Meeting of the Spent Fuel Steering Group. This was the kickoff meeting for the Task Team, that is responsible for addressing waste acceptance and transportation issues related to acceptance of EM spent fuel, including the development of appropriate agreements for disposal services.

Waste Acceptance Operations

- Collected CRWMS conceptual design information for use in the International Atomic Energy Agency (IAEA) SAGOR (Safeguards for Final Disposal of Spent Fuel in Geological Repositories) Work Plan to develop safeguard procedures for geologic repositories.
- Completed draft design input data transmittal for Analysis of International Atomic Energy Agency (IAEA) Safeguards Requirements in response to a QAP-3-12 Design Input Data request from the MPC Design organization regarding IAEA safeguards and security requirements for the MPC subsystem, MPC transportation cask subsystem, and On-Site Transportation (OST) and On-Site Storage (OSS) segments.
- Submitted the final draft of the Safeguards and Security Regulatory Model to RW-44, meeting the Program Plan milestone for this activity.
- Submitted trip report to RW-44 on the Second International Policy Forum on Management and Disposition of Nuclear Weapons Material.
- In response to NRC request, edited draft letter to IAEA, through the United States (U.S.) Mission to IAEA, formally requesting a response to the U.S. proposal for technically valid

safeguards procedures for loading of MPCs at utility sites and the mixing of defense and civilian waste containers in a geologic repository.

- Distributed for internal review: 1) preliminary draft of a white paper on Application of IAEA Safeguards to MPCs; 2) U.S./IAEA discussion paper on Application of IAEA Safeguards to SNF in MPCs in the U.S.; 3) Safeguards for Final Disposal of Spent Fuel in Geological Repositories (SAGOR) paper Potential Paths for Diversion from the Spent Fuel Disposal System; and 4) DOE white paper on Planning Framework for Placing U.S. Excess Fissile Materials under IAEA Safeguards. The reports address future actions needed to finance IAEA safeguards in the U.S. and to effectively allocate IAEA inspection resources among facilities handling excess fissile materials and OCRWM's MPC program at utility sites and Yucca Mountain.
- Attended SNL presentation in Las Vegas on the Fissile Materials Disposition Program as it relates to Safeguards and Security requirements of IAEA. The assumption is that IAEA Safeguards and Security for this material would be the same as those for civilian SNF. The conclusion and consensus of the meeting participants was that there would be no impact on Yucca Mountain.
- Began preparation of preliminary draft design input for MPC and overpack containment.

Logistics/System Planning

- Provided QAP-3-1 review comments on the CRWMS Requirements Document, Revision 2.
- Developed a WA schedule and staffing plan for the WA systems acquisition process required to support MPC deployment.
- Determined System Requirements Document requirements applicable to the Unified Database (UDB) to support development of the UDB Preliminary Functional Requirements document.
- Reviewed and provided comments to M&O Systems Integration addressing proposed revision to the MRS Project Configuration Management Plan.
- Participated in kickoff meeting for M&O Program Integration Group to develop Program Criticality Control Strategy; will complete a draft strategy by mid-May.

Project Management

- Supported preparation of the OCRWM Director's midyear review.
- Supported preparation of WA issues to be addressed at the RW-40 offsite. Attended the off-site meeting and began to work an action item to develop a briefing on allocation of system management functions.
- Supported FY97 Internal Review Budget preparation including effect on various budget cut scenarios on WA activities.

- Prepared BCRs to incorporate RW-44 directed changes to WA WAD activities relating to the development of Safeguards and Security Regulatory Model, SNF Verification Plan, Material Condition and Aging (MC&A) Plan Chapter, NOPR for Standard Contract modifications, and WAC Management Plan.
- Supported preparation of the RW-44 and M&O FY96 Annual Plan, including development of the UDB development schedule.
- Developed a draft list of activities for all areas of RW-44 WA activities from 1996 - 2001 for a WA Comprehensive-Plan to be used as the basis for FY96 through FY01 planning and budgeting efforts.
- Submitted March Monthly Status Report to RW-44.

Quality Assurance

- Completed the QAP-3-9 Design Analysis on Design Basis Fuel Characteristics in support of TBV closure efforts for the MPC Project.
- Initiated effort on a Design Input Data Request regarding possible IAEA requirements on the MPC Subsystem, MPC Transportation Cask subsystem, and OSS and OST subsystems. Attended QA-required preparatory training to initiate this effort.
- Reviewed proposed WA BCRs for impacts on current WA QAP-2-0 Activity Evaluations.
- Issued "QAP-2-0 Work Control Evaluation for 3.3 WA FY95 Activities, Revision 2." The evaluation was issued as a result of changes required by Revision 2 of QAP-2-0 "Control of Activities."

3.2.3.1.2 - Information Collection, Analysis and Dissemination

Spent Nuclear Fuel Data Reports

- Completed review of the Nuclear Fuel Data Survey (RW-859) Form revisions and provided comments to Z-Inc. Attended meeting with RW-44, DOE Energy Information Administration (EIA), Z-Inc., and representatives from five Utilities for final review of the revised RW-859 form prior to sending it to all Utilities.
- Prepared report on findings on the validation and verification of the first draft of the 1994 RW-859 data received from EIA.

Spent Fuel Storage Requirements Report

- Completed revising figures for the draft SFSR and worked with Graphic Arts to prepare figures for publication.

Unified DataBase System

- Participated in weekly teleconference sessions with Pacific Northwest Laboratory (PNL) to coordinate development of UDB Phase 1 software prototype. Received first version of the prototype data structure from PNL. Began transmitting site and reactor diagrams scanned from Site Planning Documents to PNL to include in the prototype.
- Continued development of the Phase 1 Data Evaluation and Collection Plan; distributed first draft of the data dictionary for internal review and installed it in a MicroSoft Access database to permit generation of custom reports by users.
- Completed the development of the preliminary draft of the UDB Functional Requirements Document and distributed the draft for review and comment.

3.2.3.2 Issues and Concerns

- None.

3.2.4 Project Integration

MANAGER: T. R. Stevens

OBJECTIVE(S): Conduct project financial and technical integration activities across the WAST project to maintain the WAST project development.

3.2.4.1 Progress During Report Period

Scheduling and Control

- Submitted the WAST Project Plan to the Program BCCB (PBCCB) and began to resolve Board comments.
- Completed revisions to the draft ESAR #2 package and presented the final package to the Energy System Acquisition Advisory Board (ESAAB) April 27, 1995.
- Prepared milestone status, cost and schedule variances, and FY96/97 scope variances support the Directors Mid-Year Review. The M&O also convened a dry-run with RW-40 and supported the review held April 27, 1995.
- Completed the conversion of all WAST Project Schedules from Open Plan into Primavera, and successfully integrated them into a single scheduling database. This was accomplished significantly ahead of the schedule presented in March and incorporated the new product oriented WBS. Additionally, coordinated new output formats with the program.
- Completed a preliminary redline/strikeout of Volume III of the OCRWM Program incorporating revised metrics; provided it to DOE April 21, 1995.
- Developed a preliminary analysis for reduced funding scenarios for FY97-FY01. This was a high priority activity for which the M&O provided a rapid response.

Systems Engineering

- Approved and released M&O MPC Systems Engineering Implementation Plan within the M&O. This plan provides M&O-specific direction for the implementation of systems engineering for the MPC System, supplementing existing applicable OCRWM and M&O plans and procedures.
- Coordinated WAST inputs to the Total System Life-Cycle (TSLCC) analysis and supported development of draft TSLCC report prepared by Program Systems Analysis.

3.2.4.2 Issues and Concerns

- None.

3.2.4.3 Variances

- Variance thresholds are not exceeded.

3.2.4.4 Schedule Variances

- MZO32 - New projected date of July 11, 1995, PBCCB out for RW-30 review and comments.
- 31555 - (3.1.7 Engineering Development) - Workscope has been redirected by the customer to focus on Dry Transfer System (DTS) development and prototype demo. Based on redirection BTS will be discontinued. Additional resources will be required to support DTS activities requested by the customer. Corrective actions: Develop a BCR planning package to cancel BTS and develop M&O DTS support.

Figure 5. WAST Project Staffing

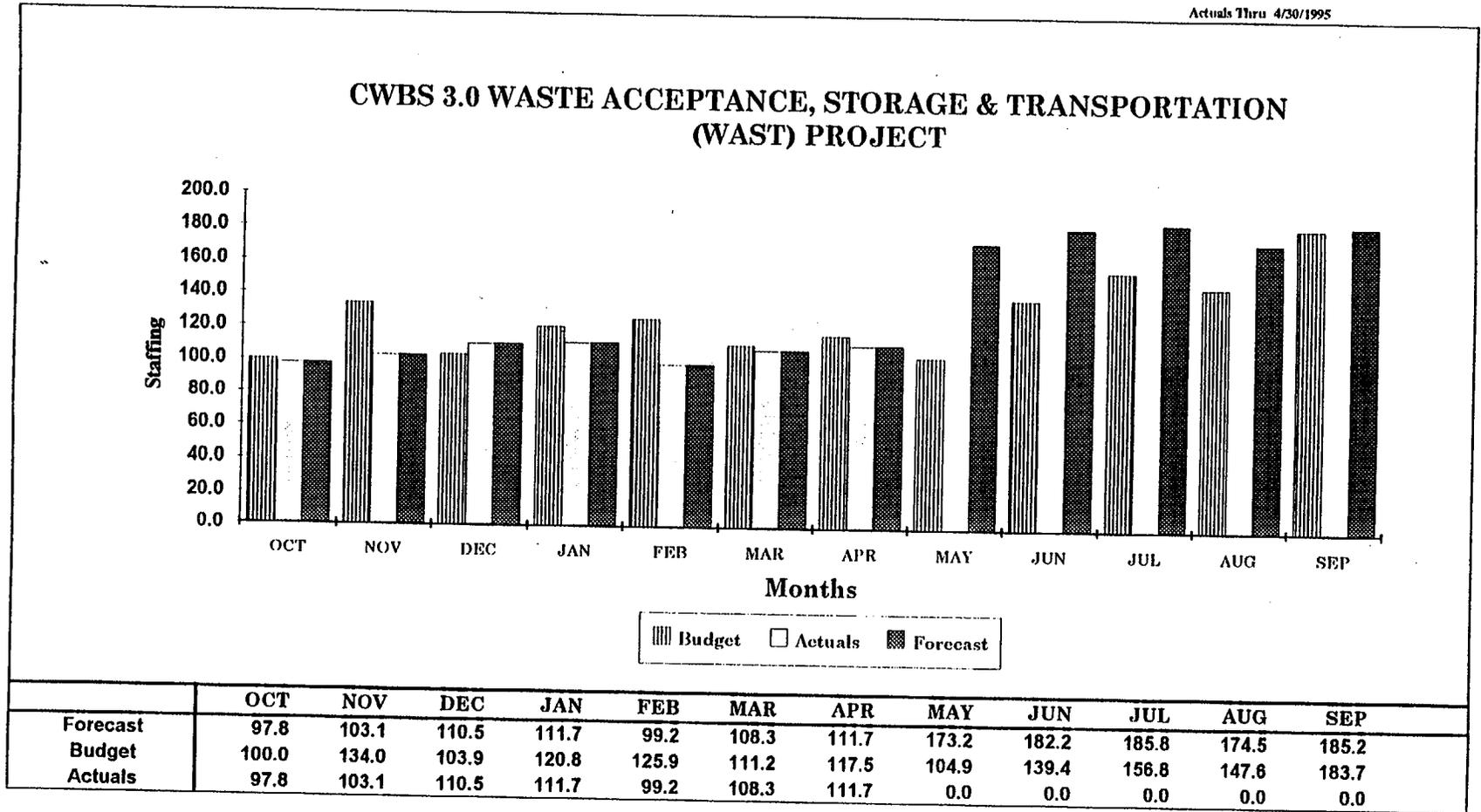


Figure 6. WAST Project Key Milestone Schedule

FY95 KEY MILESTONE SCHEDULE				FY95											
ID	DESCRIPTION	BASELINE	FORECAST	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
											DATA DATE 01MAY95				
3.1 MONITORED RETRIEVABLE STORAGE															
3.1.1 SYSTEMS ENGINEERING															
315014	PRELIMINARY DRAFT OF WAST PROJECT LCC REPORT	09/29/93	09/29/95												▲
3.1.3 SITE INVESTIGATIONS															
315100	WHITE PAPER ON POST-NEGOTIATOR OPTIONS/ISSUES	01/31/85	12/12/94			◆		▲							
3.1.5 REGULATORY															
315103	M&O MPC CERTIFICATION PLAN [PEPC8B]		04/28/95								◆				
PEP311	INTEGRATE MPC CERTIFICATION PLAN INTO WAST STRATEGIC PLAN [PEP C5A]	03/31/95	04/28/95							▲	◆				
315111	FINALIZED BURNUP CREDIT TOPICAL REPORT [PEP C8B]	05/31/95	05/31/95									▲			
3.1.7 ENGINEERING DEVELOPMENT															
315017	MPC SYSTEM TECHNICAL/BUSINESS PROPOSALS DUE	10/24/94	11/10/94	▲	◆										
M714	COMPLETE DRY TRANSFER SYSTEM DEVELOPMENT PLAN	12/18/94	12/18/94			▼									
M508	START MPC SAFETY ANALYSIS REPORT (SAR) DESIGN	04/05/95	04/21/95							▼	◆				
315018	AWARD MPC (PHASE 1) SAR DESIGN SUBCONTRACTS [PEP C6A]	04/05/95	04/28/95							▲	◆				
31535	DEFERRED - BST DESIGN SPECIFICATIONS		04/28/95								◆				
3.1.8 PROJECT MANAGEMENT															
MZ030	WAST PROJECT PLAN SUBMITTED TO PBCCB	12/23/94	12/23/94			▼									
MZ031	PBCCB APPROVES WAST COST AND SCHEDULE BASELINE	01/13/95	02/02/95				▼	◆							
315023	ESAR #2 PRESENTATION PACKAGE [PEP B3E]	02/17/95	03/01/95					▲	◆						

PAGE 1 RUN DATE 19MAY95 REPORT: WPMNTH

LEGEND:

★ - LEVEL 0 M/S ▼ - LEVEL 1 M/S ▽ - LEVEL 2 M/S ▲ - LEVEL 3 M/S ▼ MILESTONE ◆ FORECAST

Figure 6. WAST Project Key Milestone Schedule (Continued)

FY85 KEY MILESTONE SCHEDULE				FY85											
ID	DESCRIPTION	BASELINE	FORECAST	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
				DATA DATE 01MAY85 DATE 01MAY85											
315022	UPDATED COST LOADED NETWORK	02/17/85	03/08/85						△	◆					
MZ002	WAST PROJECT ESAR #2 PRESENTATION	03/15/85	03/15/85						★						
MZ032	PRCCB APPROVES PROGRAM COST AND SCHEDULE BASELINE CHANGES	04/31/85	07/11/85					▽					◆		
3.1.13 ENVIRONMENT, SAFETY, AND HEALTH															
M300	ISSUE NOI ON MPC EIS	10/25/84	10/25/84	↓											
315072	SUBMIT MPC RCP TO PRCCB	03/20/85	04/28/85						△						
315034	FY85 FIVE YEAR ENVIRONMENTAL, SAFETY & HEALTH PLAN	05/19/85	05/19/85								△				
3.1.14 INSTITUTIONAL															
315301	DEFERRED - COORDINATE & STAFF 3 MPC EIS INFORMATION WORKSHOPS IN CONJUNCTION WITH SCOPING MEETINGS		12/23/84			◆									
315302	DEFERRED - PREPARE SCOPING MEETING BRIEFINGS		12/23/84			◆									

PAGE 2 RUN DATE 18MAY85 REPORT: WPMNTH

LEGEND:

★ - LEVEL 0 M/S ↓ - LEVEL 1 M/S ▽ - LEVEL 2 M/S △ - LEVEL 3 M/S ▼ MILESTONE ◆ FORECAST

Figure 6. WAST Project Key Milestone Schedule (Continued)

FY95 KEY MILESTONE SCHEDULE				FY95												
ID	DESCRIPTION	BASELINE	FORECAST	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
				← DATA DATE 01MAY95												
325144	FINAL OPERABILITY REPORT FOR LWT TRACTOR TESTING (80 DAYS AFTER TEST REPORT)	09/29/85	08/29/85													▲
325145	RESULTS OF THE HUMAN FACTORS ENG DATA FROM LWT TRACTOR TEST(120 D AFTER TEST REPORT)	09/29/85	08/29/85													▲
325253	125T MPC EMERG RESPONSE & RECOVERY STUDY	09/29/85	09/29/85													▲
325254	125T MPC RAIL TRANSPORTATION TESTING NEEDS STUDY	09/29/85	09/29/85													▲
325255	125T MPC TRANSPORTATION RAIL CAR OPTIONS REPORT	09/29/85	09/29/85													▲
3.2.5 REGULATORY																
325157	REGULATORY IMPACTS ON THE TRANSPORTATION RISK MGT STRATEGY	08/30/85	08/30/85													▲
3.2.13 ENVIRONMENT, SAFETY, AND HEALTH																
PEP322	DRAFT WHITE PAPER ON IMPACT OF 125T MPC'S ON RAIL NETWORKS [PEP C8E(2)]	02/01/85	01/31/85					▲								
32809	OCRWM TRAN RISK MGT PROG STRATEGIC PLAN PRELIM DRAFT [PEP C8E(1)]	01/13/85	03/16/85				▽		◆							
325185	OCRWM TRANSPORTATION RISK MGT PROGRAM STRATEGIC PLAN FINAL DRAFT [PEP C8E(4)]	09/31/85	03/31/85							▲						
PEP323	COMPLETE INTALLATION OF RADSF MODULES ON TRANSNET [PEP C8E(7)]	08/01/85	08/01/85													▲
325188	RISKIND EVALUATION REPORT [PEP C8E(8)]	08/30/85	08/30/85													▲
PEP324	COMPLETE RISKIND TRAINING MODULE [PEP C8E(8)]	09/01/85	09/01/85													▲
325187	OCRWM RISK MGT STRATEGY IMPLEMENTATION PLAN FINAL	08/28/85	08/28/85													▲
3.2.14 INSTITUTIONAL RELATIONS																
PEP325	RECOMMEND APPROACH FOR DOE POLICY DEALING WITH 180(C) [PEP C8C]	03/31/85	04/28/85							▲	◆					
PAGE 2 RUN DATE 18MAY95 Report: WPMNTH																
LEGEND:																
★ - LEVEL 0 M/S				▽ - LEVEL 2 M/S												
↓ - LEVEL 1 M/S				▲ - LEVEL 3 M/S												
				▽ MILESTONE												
				◆ FORECAST												

Figure 6. WAST Project Key Milestone Schedule (Continued)

FY95 KEY MILESTONE SCHEDULE		FY95													
ID	DESCRIPTION	BASELINE	FORECAST	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
				DATA DATE 01/01/95											
PEP928 CRITERIA STRAWMAN FOR DGD ON THE ROUTING STRATEGY (PREP 08/03/94/95 04/28/95)															

PAGE 3 RUN DATE 18MAY95 REPORT 1 WPKMTH

LEGEND:

* - LEVEL 0 M/S ↓ - LEVEL 1 M/S ▽ - LEVEL 2 M/S Δ - LEVEL 3 M/S V MILESTONE ◇ FORECAST

Figure 6. WAST Project Key Milestone Schedule (Continued)

FY95 KEY MILESTONE SCHEDULE				FY95											
ID	DESCRIPTION	BASELINE	FORECAST	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
3.3 WASTE ACCEPTANCE															
3.3.1 WASTE ACCEPTANCE PROCESS/OPERATIONS															
W040	ISSUE TAMPER-INDICATING DEVICE REPORT	12/30/84	12/30/84			▼									
W042	ISSUE SAFEGUARDS & SECURITY PROGRAM PLAN	03/22/85	02/27/85					◆	▽						
335195	DRAFT SAFEGUARDS AND SECURITY PROGRAM PLAN	02/02/85	02/28/85				△	◆							
335130	FINAL MANAGEMENT PLAN - WASTE ACCEPTANCE CRITERIA		03/14/85					◆							
335115	WASTE ACCEPTANCE OPERATIONAL PLAN (WA-OP) [PEP C3C(1)]	03/31/85	03/31/85						▲						
W044	ISSUE SAFEGUARDS & SECURITY STANDARD	04/28/85	04/28/85							▼					
335110	FINAL VERIFICATION PLAN [PEP C3C(2)]	07/31/85	07/31/85											△	
W048	ISSUE VERIFICATION PLAN	07/31/85	07/31/85											▽	
335108	DRAFT 1995 APR/ACR	08/29/85	08/29/85												△
W048	SUBMIT RW-838 FORM REVISION TO OMB	08/29/85	08/29/85												▽

PAGE 1 RUN DATE 24MAY95 Report: WPMNTH

LEGEND:

★ - LEVEL 0 M/S ↓ - LEVEL 1 M/S ▼ - LEVEL 2 M/S ▲ - LEVEL 3 M/S ▽ MILESTONE ◆ FORECAST

4. PROGRAM SUPPORT CWBS 9.0

4.1 PROGRAM QUALITY ASSURANCE CWBS 9.1

MANAGER: R. P. Ruth

OBJECTIVE(S): Establish a quality assurance program that meets OCRWM Program Quality Assurance Requirements and Description (QARD) requirements and is maintained through surveillances and reviews of all CRWMS M&O quality-affecting activities.

4.1.1 Progress During Report Period

Las Vegas

- The Quality Review Board (QRB) approved and set effective dates for QAP-1-0, Revision 3, "M&O Organization" and QAP-17-3, Revision 1, "Electronic Imaging Operations."
- Procedure reviews outside of the QRB process included:
 - YMP/WP/95-01, Revision 1, Draft A, "UE-25 UZ-4 Borehole Workover and Instrumentation/Stemming Program"
 - YAP 3.4 Q Revision 1/Interim Change Notice (ICN) 3
 - OCRWM AP-7.4Q, Revision 1B
 - Nevada Line Procedure (NLP)-5-1, Revision 0, Drafts A and B
 - NLP-SIII-1, "Field Verification"
 - QARD, Revision 3.

Prepared and approved Technical and Management Support Services (T&MSS) Contractor procedures SP-1.25, Revision 9, and SP-1.27, Revision 2. Developed and submitted for review and comment SP 1.2, Revision 8, Preliminary Draft A "Preparation, Review and Approval of T&MSS QA Policy, Organization Description, and QA Program Overview." Resolved comments for ICN 2 (DOE form YMP-007-R2) to WI-DE-001, Revision 1, "Work Program (Drilling)" and approved Working Instructions (WI).

- Resolved comments on Surface-Based Testing Field Verification Plans, FVP-95-001.0 through FVP-95-004.0.
- Completed T&MSS Procurement Document Reviews (PDRs) and Purchase Requisitions 6209569 and 9496. Revising T&MSS Drilling/Logging Purchase Requisition (PR).

- Reviewed and submitted comments to work programs YMP/WP/95-08, Revision 0, "SD-7 Borehole Program;" C-Hole Complex Work Period 3 Work Program; and six cancellation packages for Sample Management Facility Work Instructions.
- Completed the design verification of alcove drawings for approval; completed the Bow Ridge Fault Test Alcove drawings acceptance document.
- Issued the following surveillance reports:
 - 95-NSS-08 "NRC Documentation Review"
 - 95-NSS-15 "REEC Co - Fabrication of Steel Sets"
 - 95-NSS-16 "Implementation of NLP-3-10"
 - 95-NSS-17 "T&MSS Transition Plan"
 - 95-NSS-20 "T&MSS Records Management"
 - 95-NSS-023 "Rockbolt Specification/Analysis"
 - 95-NSS-026 "Steel Set Design Analysis."

Vienna

- Coordinated the M&O's interface with the DOE Office of Quality Assurance (OQA) seven-member surveillance team conducting OCRWM Surveillance HQ-SRP-95-01 "Re-evaluation of the M&O WAST MPC Procurement Process," April 17 through 20, 1995, in the M&O Vienna Office. The surveillance did not result in any corrective action reports. OQA found the overall MPC Procurement process to be effective.
- Reviewed and approved vendor-documented QA Program MPC, completed the QAP-4-1 review of the MPC procurement package, completed the Offeror Proposal Evaluation Records for the MPC offerors, and reviewed and signed the final MPC Source Evaluation Board Report for Contract Award.
- Resolved comments with OQA representatives on Appendix A and B drafts of the QARD. One major resolution would permit the MPC vendor to use NRC-approved 10CFR71 or 72 program. Received an updated copy of the informal drafts of proposed QARD Supplements I and V. The majority of comments submitted by the M&O have been addressed by OCRWM.
- Developed a paper for the International High Level Radioactive Waste Conference in Las Vegas, Nevada, concerning the use of "Today's Computer Technology to Improve the Procedure Development Process."
- Completed a review of a Software Life-Cycle Plan for the SCALE Version 4.2 Computer Code. This is the first Vienna implementation of QAP-SI-1, *Acquired Scientific and Engineering Software*.

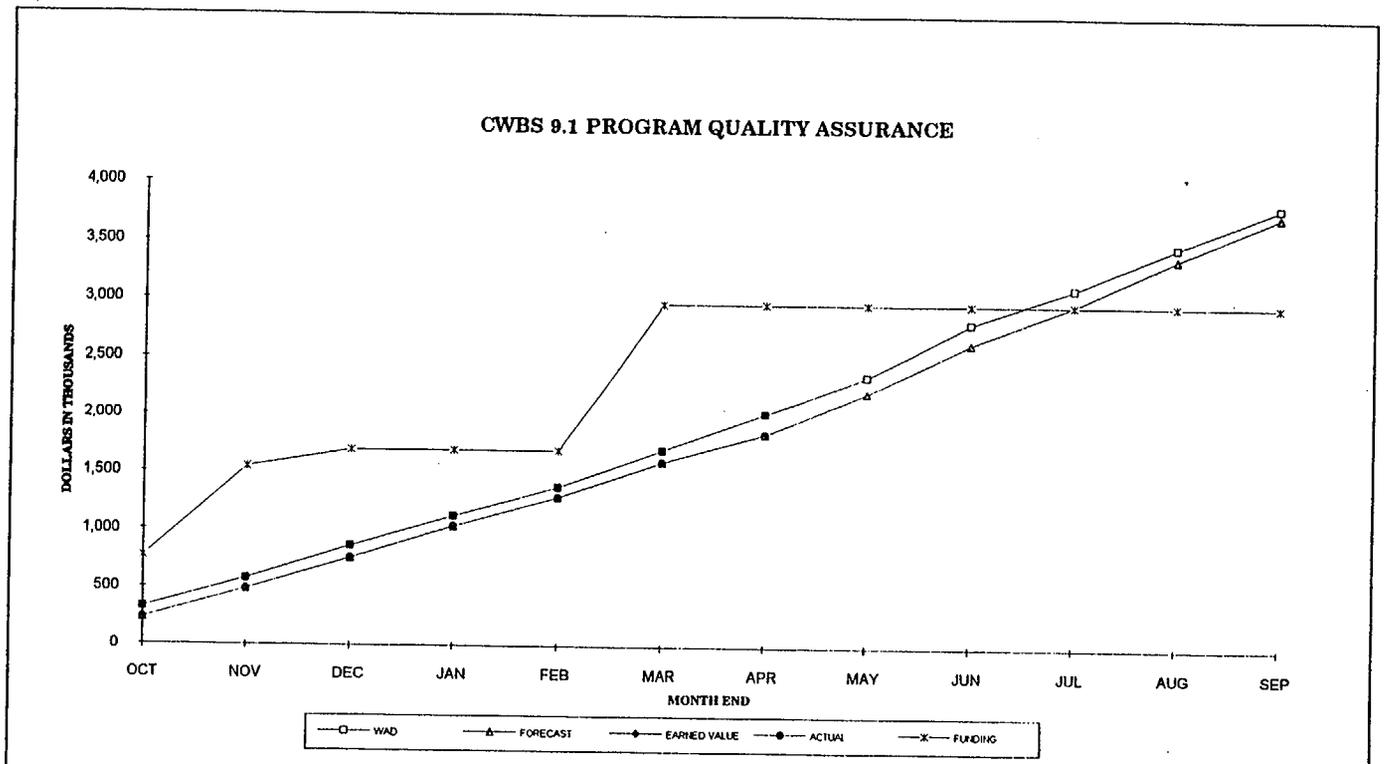
- Reviewed updated versions of six Standard Operating Procedures developed by the Computer Operations Group (COG). These documents are not subject to QARD controls but were reviewed to ensure that there are no concerns or conflicts with QARD controlled documents.
- Verified input of all M&O procedures (developed, revised, or cancelled) that became effective after the accepted M&O Requirements Traceability Network (RTN) Baseline in November on the matrix database. OQA is beginning a review of the M&O's inputs.
- Reviewed comments received from OCRWM concerning the M&O's RTN submittal for QARD traces. The M&O responded to all comments against all procedures reviewed by OCRWM.
- Distributed M&O CAR Information Database via Lotus Notes to selected M&O QA personnel and line organization CAR contacts in Virginia and Nevada.
- Issued Surveillance Reports for:
 - 95-VIS-13 "Software Procedure Development and Review"
 - 95-VIS-17 "Revision and Cancellation of Implementing Line Procedures (ILPs)"
 - 95-VIS-18 "Vienna Implementing Line Procedure (VLP) for TBVs and Traceability Analyses"
 - 95-VIS-20 "Closure Verification for CAR 95-QV-C-008."

4.1.2 Issues and Concerns

- None.

4.1.3 Variances

- Variance thresholds are not exceeded.

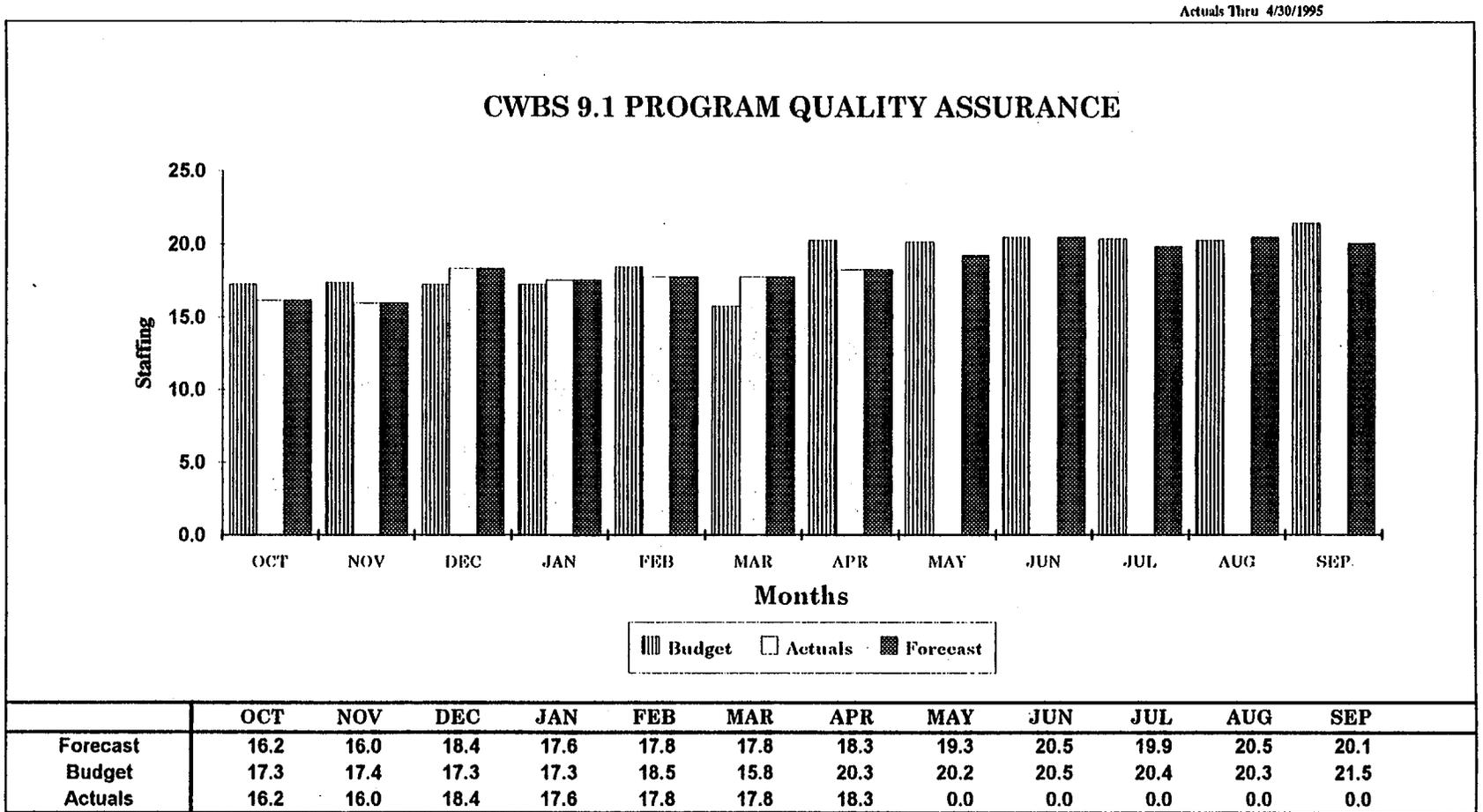


		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTH	WAD	325	255	283	280	254	323	327	325	458	301	380	346
	FORECAST	228	257	273	278	253	311	247	371	421	331	407	387
	EARNED VALUE	325	255	284	259	254	324	326					
	MONTH ACTUAL	228	257	273	278	253	311	247					
	VAR/SCH	0	0	1	(1)	0	1	(1)					
	VAR/COST	97	(2)	11	(17)	1	13	79					
CUM	WAD	325	580	863	1,123	1,377	1,700	2,027	2,352	2,810	3,111	3,471	3,817
	FORECAST	228	485	758	1,034	1,287	1,598	1,845	2,218	2,637	2,988	3,375	3,742
	EARNED VALUE	325	580	864	1,123	1,377	1,701	2,027					
	ACTUAL	228	485	758	1,034	1,287	1,598	1,845					
	VAR/SCH	0	0	1	0	0	1	0					
	VAR/COST	97	95	108	89	90	103	182					
FUNDING	FY85 FUNDING	768	1,540	1,540	1,540	1,540	2,815	2,815	2,815	2,815	2,815	2,815	2,815
	PREV. FUNDED	0	0	152	152	152	152	152	152	152	152	152	152
	TOTAL FUNDING	768	1,540	1,692	1,692	1,692	2,967	2,967	2,967	2,967	2,967	2,967	2,967

Current Month Cost and Schedule Variances are not addressed. See Section 1.3.

Figure 7. Program Quality Assurance Financial Status

Figure 8. Program Quality Assurance Staffing



INTENTIONALLY LEFT BLANK

4.2 PROGRAM MANAGEMENT AND INTEGRATION

CWBS 9.2.1, 9.2.2, 9.3.2, 9.3.3, 9.3.5

4.2.1 Systems Integration

MANAGER: J. J. Miller

OBJECTIVE(S): Develop management system documentation, develop automated system for the management of system requirements, integrate engineering specialties, perform system safety and risk assessments, and establish technical performance measurement system and conducts evaluation. Identify systems analysis requirements; develop, integrate, and allocate system requirements; develop program test and evaluation program; maintain the system technical baseline; and verify the adequacy of designs and construction and compliance with system requirements.

4.2.1.1 Progress During Report Period

Systems Management and Integration

- Completed an initial round of Systems Engineering Management Plan (SEMP) comment resolution meetings with YMP M&O and received and reviewed comments generated by RW-37 review. The BCR to combine WAD requirements for multiple revisions to the SEMP into a single revision was approved by RW-30.
- Received and reviewed Test and Evaluation Master Plan (TEMP) comments generated by the RW-wide review. Commenced revision of document to reflect comment resolutions.
- Resolved all comments on final minutes of March ICWG meeting and delivered to ICWG members. Developed process flow charts to represent the top-level Interface Management process for incorporation into the ICWG Charter. Developed agenda for a May 1995 meeting.
- Facilitated multiple meetings of integration task teams for criticality safety and thermal strategy. Developed status paper for internal review and comment that identifies primary criticality strategy issues. Thermal strategy efforts focused on developing a paper on Waste Isolation strategies to support near-term YMSCO requirements.
- Completed initial identification of MGDS-Transportation interfaces. These interfaces are defined at a level of CI detail necessary to identify specific quantifiable attributes as a basis for interface agreements. Work commenced on listing the attributes associated with each CI interface pair.

Systems Engineering Requirements and Configuration Management

- Completed QAP-3-9 development and review of analyses to support resolution of TBD and TBR items in the System Requirements Documents (SRDs) that are important to the MPC procurement process, and distributed them under QAP-6-1 procedures.

- Submitted Document Review Record (DRR) sign-off copy to the reviewers in the QAP-3-1 technical review of a Document Change Notice (DCN) to Revision 1 of the SRDs. The purpose of the review was both to resolve TBDs/TBRs important to the MPC procurement process and to respond to a CAR on MGDS traceability.
- Completed work on Revision 1 of the Configuration Information System (CIS) Phase 2 (V1.2) User Manual. Forwarded the manual to RW-37. Completed installation of CIS Version 1.2. for Program users and provided training on CIS Version 1.2 to RW-37.
- Completed resolution of RW-37 comments to the Baseline Management Plan. Resubmitted the document to RW-37 for Office Director review.
- Delivered Revision 3 of the Automated Requirements Management System (ARMS) User Manual II to RW-37 and to internal ARMS users.
- For CIS Phase 3, completed Engineering Change Directive (ECD) development, including history rules routines, add, update, and query functionality. Also completed the design for bulk loading of Engineering Change Request (ECR) document identifiers along with the design for cost threshold calculations.
- Completed resolution of Las Vegas comments for the CIS Phase 3 Level 3 Software Requirements Specification. Submitted to RW-37 for final approval.

4.2.1.2 Issues and Concerns

- None.

4.2.2 Regulatory and Licensing

CWBS 9.2.2

MANAGER: D. F. Fenster

OBJECTIVE(S): Coordinate and develop an integrated OCRWM programmatic approach and strategies for regulatory compliance and licensing issues. Coordinate and develop regulatory interpretation and guidance documents. Lead the NEPA policy and compliance approach process. Serve as a point of contact on policy for environmental, safety and health compliance. Coordinate and facilitate NRC interactions.

4.2.2.1 Progress During Report Period

Regulatory Policy And Requirements

- Reviewed Chapters 2, 3, and 4 of the predecisional draft of the Nevada Test Site EIS as a member of the Integration Group and provided comments to RW-36.
- Provided comments to RW-36 concerning the OCRWM-Navy MPC EIS Memorandum of Understanding (Revision 6).

Regulatory Integration

- Coordinated OCRWM-wide review of regulatory guides and standard review plan sections associated with the proposed revisions to the seismic criteria in 10 CFR Part 100 Appendix A. Prepared deliverable to be submitted to RW-30. The approach in this regulation for future commercial nuclear power plants is similar to the approach presented in OCRWM's seismic hazard topical report.
- Completed revisions to a headquarters-level preliminary draft procedure "Reporting of Defects and Noncompliance to Meet the Intent of 10 CFR Part 21" based on DOE review comments received. Although Part 21 does not apply to OCRWM prior to issuance by the NRC to DOE of a Certificate of Compliance or a Construction Authorization, certain activities are underway that could, in the future, come under Part 21 regulation. Accordingly, this procedure is intended to implement all of the Part 21 requirements with the exception of the NRC's enforcement measures.

4.2.2.2 Issues and Concerns

- None.

4.2.3 Strategic Planning
CWBS 9.3.2

MANAGER: F. Ridolphi

OBJECTIVE(S): Provide complete strategic and system analyses to DOE OCRWM and to the general manager of the M&O contract

4.2.3.1 Progress During Report Period

- Supported revision of the OCRWM Strategic Plan based on the results of the two workshops held in January and March. Circulated the revised Strategic Plan within OCRWM for comments.
- Coordinated M&O inputs to several activities to evaluate the impact of a range of budget decrements. Forwarded results to RW-35 for use at the DOE Budget Summit in early May.
- Coordinated a series of briefings and papers describing the cost benefits of using MPCs in a system that includes interim storage.

4.2.3.2 Issues and Concerns

- None.

4.2.4 International Waste Management Technology CWBS 9.3.3

MANAGER: F. Ridolphi

OBJECTIVE(S): Maintain an awareness of international activities related to the disposal of spent fuel and high-level waste in order to integrate information from these foreign programs into the domestic program. Report on special issues regarding international program activities and provide specific recommendations.

4.2.4.1 Progress During the Reporting Period

- Supported development of a summary of the costs and program benefits of activities being performed as part of cooperative agreements with Sweden, Switzerland, and Canada. Discussions are being held with key M&O and DOE parties to identify technical areas where further beneficial activities could be performed to support evaluation of renewal of the cooperative agreements with Canada and Switzerland.
- Planning and Analysis supported preparations for and participated in the annual Bilateral Agreement meeting with SKB (Sweden). This meeting was planned in conjunction with the IHLRWM Conference in Las Vegas. The M&O conducted a visit to Yucca Mountain for the Swedish Visitors.
- Provided the agenda and supporting material for the High Level Waste Management Program Director's meeting in Madrid, Spain.

4.2.4.2 Issues and Concerns

- None.

4.2.5 Program Control and Administration CWBS 9.3.5

MANAGERS: J. L. Stern/M. H. King

OBJECTIVE(S): Provide Program Control and Administrative support to OCRWM by implementing and maintaining a Program Control System (PCS) for the program and program support elements. Prepare Monthly Program Status Reports and Charts and bi-monthly Director's Program Reviews (DPRs). Develop the FY95 TSLCC analysis; maintain the Program Cost and Schedule Baseline (PCSB) and WBS dictionaries; and publish weekly and bi-weekly reports from the Management Tracking System (MTS) and Operations Management Tracking System (OMTS) databases.

4.2.5.1 Progress During Report Period

- Submitted final change pages to RW-35 to address OCRWM comments on Revision 4 to the PCSB Document, which incorporates the Program Approach as approved by BCP-00-94-0005.
- Developed a proposed WAD format based on the workscope description in the PACS for consideration by OCRWM for use in developing the FY96 WADs.
- Participated in a review of the M&O drafted OCRWM Program Management Plan with RW-35. Developed at RW-35 request a briefing proposing an OCRWM-wide management policy suite. Completed incorporation of RW-35 comments into the draft Program Management Plan based on this concept and delivered redlined, strikeout version to RW-35 for review.
- Developed a presentation for RW-35 and RW-14 with a proposed relationship between baseline control, work authorizations, funds management, Contract Line Item Numbers (CLINS), and B&R codes. The presentation includes three alternative levels of control using a Responsibility Assignment Matrix as the presentation vehicle.
- Completed the Preliminary Draft report "Analysis of the TSLCC of the Program Approach for the Civilian Radioactive Waste Management Program" and delivered it to RW-35 April 11, 1995. The deliverable provides an Executive Summary level TSLCC report for the single repository case in accordance with RW-1 direction at the March 14, 1995, TSLCC briefing. Developed briefing materials regarding the allocation of CRWMS costs to civilian and defense programs, began preparations for an Independent Cost Estimate (ICE) review of the TSLCC, and initiated development of a report describing model enhancements supporting the TSLCC estimate.
- Established a standard schedule data structure agreed to by the M&O projects and program scheduling organizations, and prepared project summary schedules and a draft OCRWM Program Integrated Network (OPIN) in a consistent Primavera format to support execution of the implementation plan for converting to Primavera scheduling software.

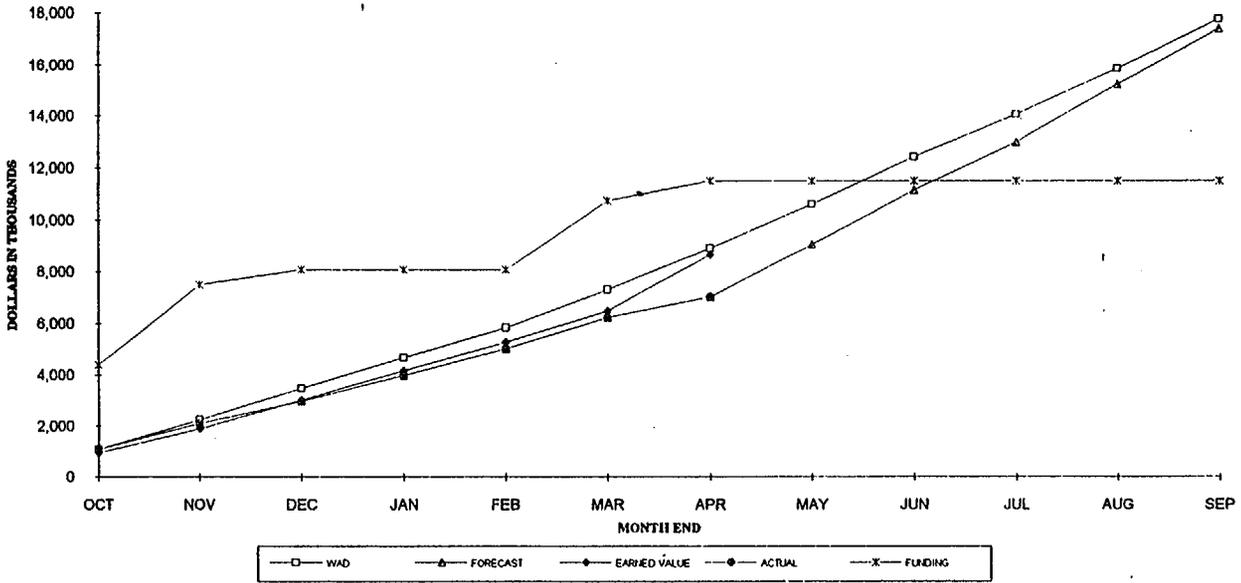
4.2.5.2 Issues and Concerns

- None.

4.2.6 Program Management and Integration Variances

- **9.3.3 International Waste** - The cumulative cost variance of \$1,182K/80% is due primarily to the addition of budget for Sandia, Los Alamos, Lawrence Berkeley, and Lawrence Livermore National Labs (\$1,072K). Cumulative actuals for the National Labs are zero in the performance measurement data until availability to the M&O. There is no significant impact.
- **9.3.5 Program Control and Administration** - The cumulative cost variance of \$236K/21% is due primarily to delayed staffing ramp up and a \$53K credit to correct a March 1995 accounting key-type error. The rerating of actuals at a lower PM&I rate contributed further to the underrun in this area. There is no significant impact.

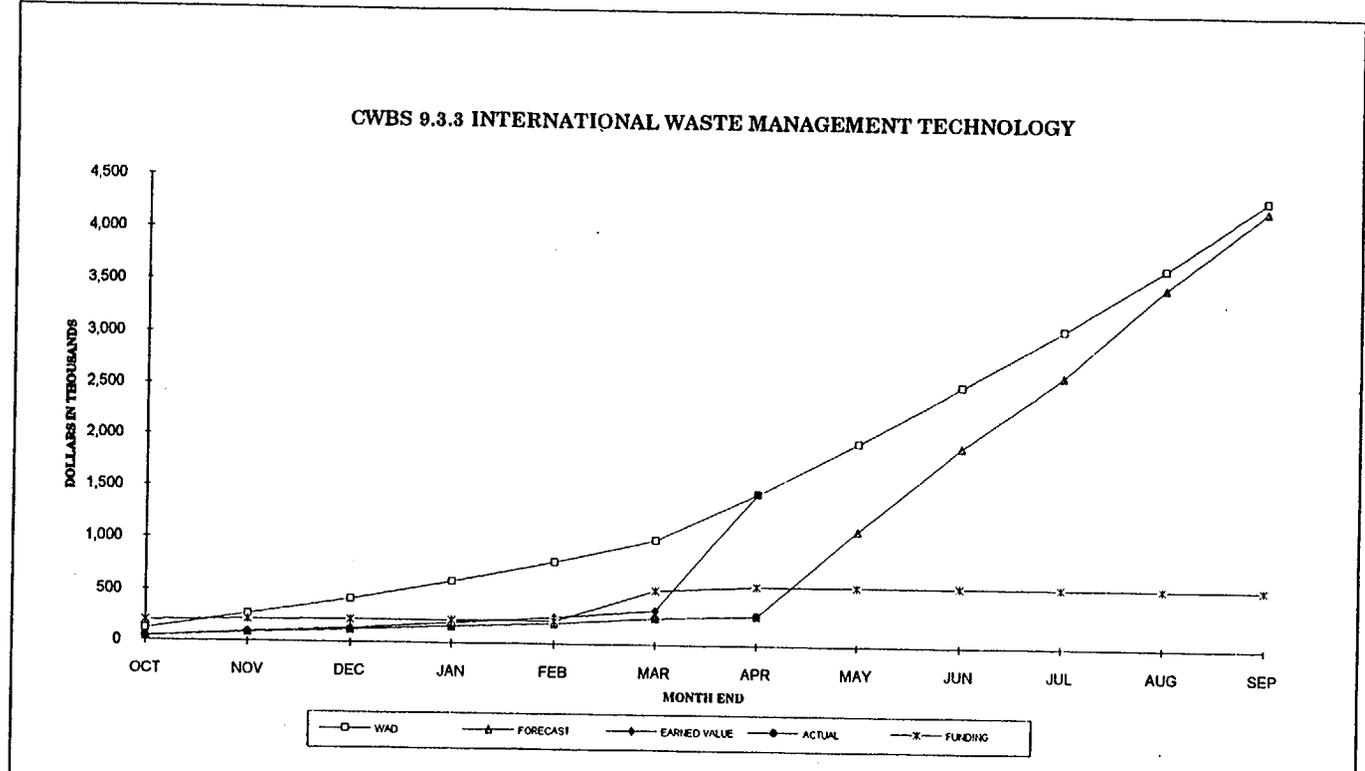
CWBS 9.2/9.3.2/9.3.3/9.3.5 PROGRAM MANAGEMENT & INTEGRATION



		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTH	WAD	1,079	1,137	1,238	1,216	1,174	1,457	1,609	1,713	1,795	1,820	1,809	1,952
	FORECAST	1,091	1,005	861	1,010	1,060	1,215	775	2,044	2,092	1,830	2,246	2,187
	EARNED VALUE	947	919	1,133	1,163	1,118	1,220	2,159					
	MONTH ACTUAL	1,091	1,005	861	1,010	1,060	1,215	775					
	VAR/SCH	(132)	(218)	(105)	(55)	(58)	(237)	550					
	VAR/COST	(144)	(88)	272	153	58	5	1,384					
CUM	WAD	1,079	2,216	3,454	4,672	5,846	7,303	8,912	10,625	12,420	14,040	15,849	17,801
	FORECAST	1,091	2,096	2,957	3,967	5,027	6,242	7,017	9,061	11,153	12,983	15,229	17,416
	EARNED VALUE	947	1,866	2,999	4,162	5,278	6,498	8,657					
	ACTUAL	1,091	2,096	2,957	3,967	5,027	6,242	7,017					
	VAR/SCH	(132)	(350)	(455)	(510)	(588)	(805)	(255)					
	VAR/COST	(144)	(230)	42	195	251	258	1,640					
FUNDING	FY95 FUNDING	3,332	6,429	6,429	6,429	6,429	9,100	9,849	9,849	9,849	9,849	9,849	9,849
	PREV. FUNDED	1,069	1,069	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650	1,650
	TOTAL FUNDING	4,401	7,498	8,079	8,079	8,079	10,750	11,499	11,499	11,499	11,499	11,499	11,499

Current Month Cost and Schedule Variances are not addressed. See Section 1.3.

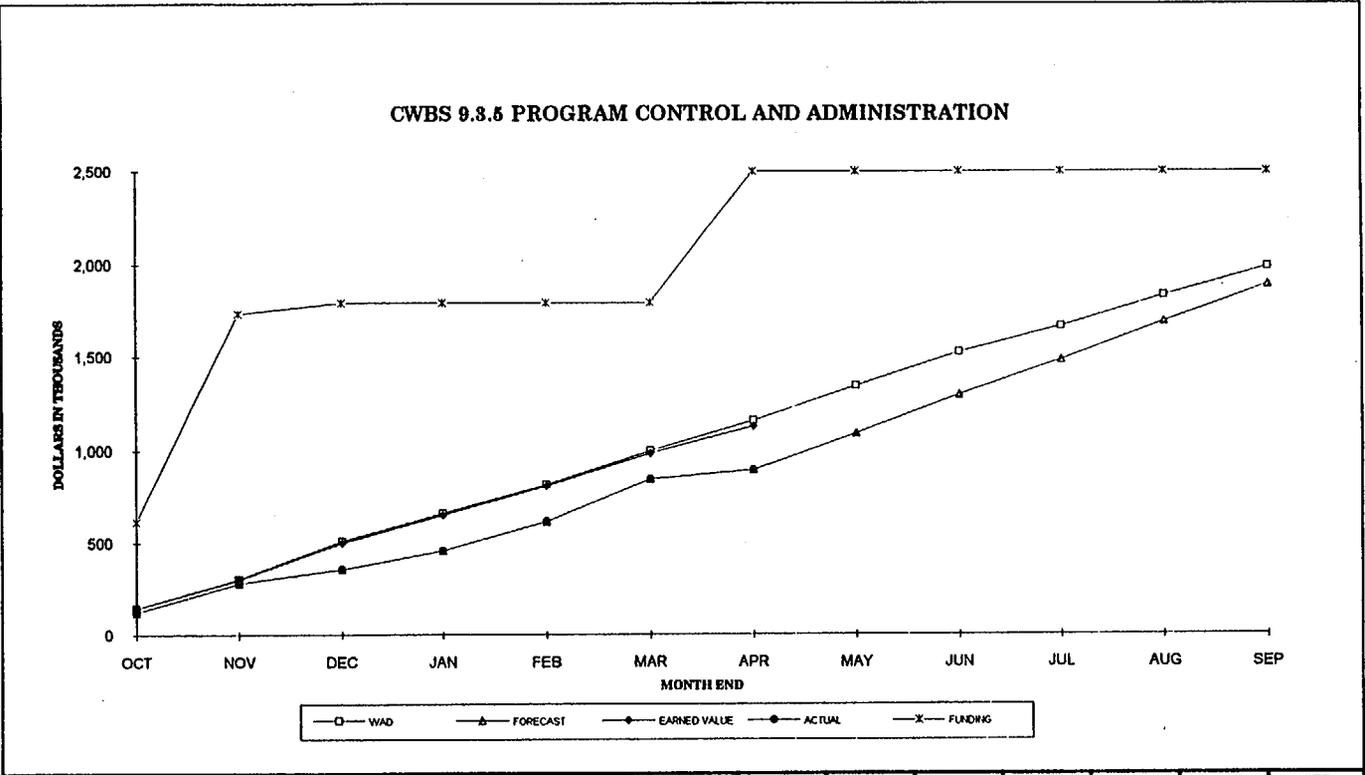
Figure 9. Program Management and Integration Financial Status



		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTH	WAD	117	158	151	175	191	214	454	502	568	547	594	667
	FORECAST	43	46	35	43	33	82	29	817	817	708	657	747
	EARNED VALUE	46	48	45	63	80	72	1,124					
	MONTH ACTUAL	43	46	35	43	33	82	29					
	VAR/SCH	(71)	(108)	(108)	(112)	(131)	(142)	670					
	VAR/COST	3	2	10	20	27	10	1,095					
CUM	WAD	117	273	424	599	790	1,004	1,458	1,960	2,528	3,073	3,667	4,334
	FORECAST	43	89	124	167	200	282	291	1,108	1,925	2,631	3,488	4,235
	EARNED VALUE	46	94	139	202	282	334	1,458					
	ACTUAL	43	89	124	167	200	282	291					
	VAR/SCH	(71)	(178)	(285)	(397)	(528)	(870)	0					
	VAR/COST	3	5	15	35	62	72	1,167					
FUNDING	FY95 FUNDING	200	218	218	218	218	524	573	573	573	573	573	573
	PREV. FUNDED	0	0	3	3	3	3	3	3	3	3	3	3
	TOTAL FUNDING	200	218	221	221	221	527	578	578	578	578	578	578

Current Month Cost and Schedule Variances are not addressed. See Section 1.3.

Figure 10. International Waste Management Technology Financial Status



		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTH	WAD	148	180	205	148	157	178	180	183	183	142	188	154
	FORECAST	123	160	75	101	155	230	49	183	204	187	212	201
	EARNED VALUE	148	155	199	150	158	173	144					
	MONTH ACTUAL	123	180	75	101	155	230	49					
	VAR/SCH	0	(5)	(6)	2	1	(6)	(16)					
	VAR/COST	23	(5)	124	48	3	(57)	95					
CUM	WAD	148	308	511	659	816	995	1,155	1,338	1,521	1,683	1,829	1,983
	FORECAST	123	283	358	459	614	844	893	1,086	1,280	1,477	1,689	1,890
	EARNED VALUE	148	301	500	650	808	981	1,125					
	ACTUAL	123	283	358	459	614	844	893					
	VAR/SCH	0	(5)	(11)	(9)	(8)	(14)	(30)					
	VAR/COST	23	18	142	191	194	137	232					
FUNDING	FY85 FUNDING	475	1,599	1,599	1,599	1,599	1,599	2,299	2,299	2,299	2,299	2,299	2,299
	PREV. FUNDED	137	137	187	197	197	197	197	197	197	197	197	197
	TOTAL FUNDING	612	1,736	1,786	1,796	1,796	1,796	2,496	2,496	2,496	2,496	2,496	2,496

Current Month Cost and Schedule Variances are not addressed. See Section 1.3.

Figure 11. Program Control and Administration Financial Status

Figure 12. Program Management and Integration Staffing

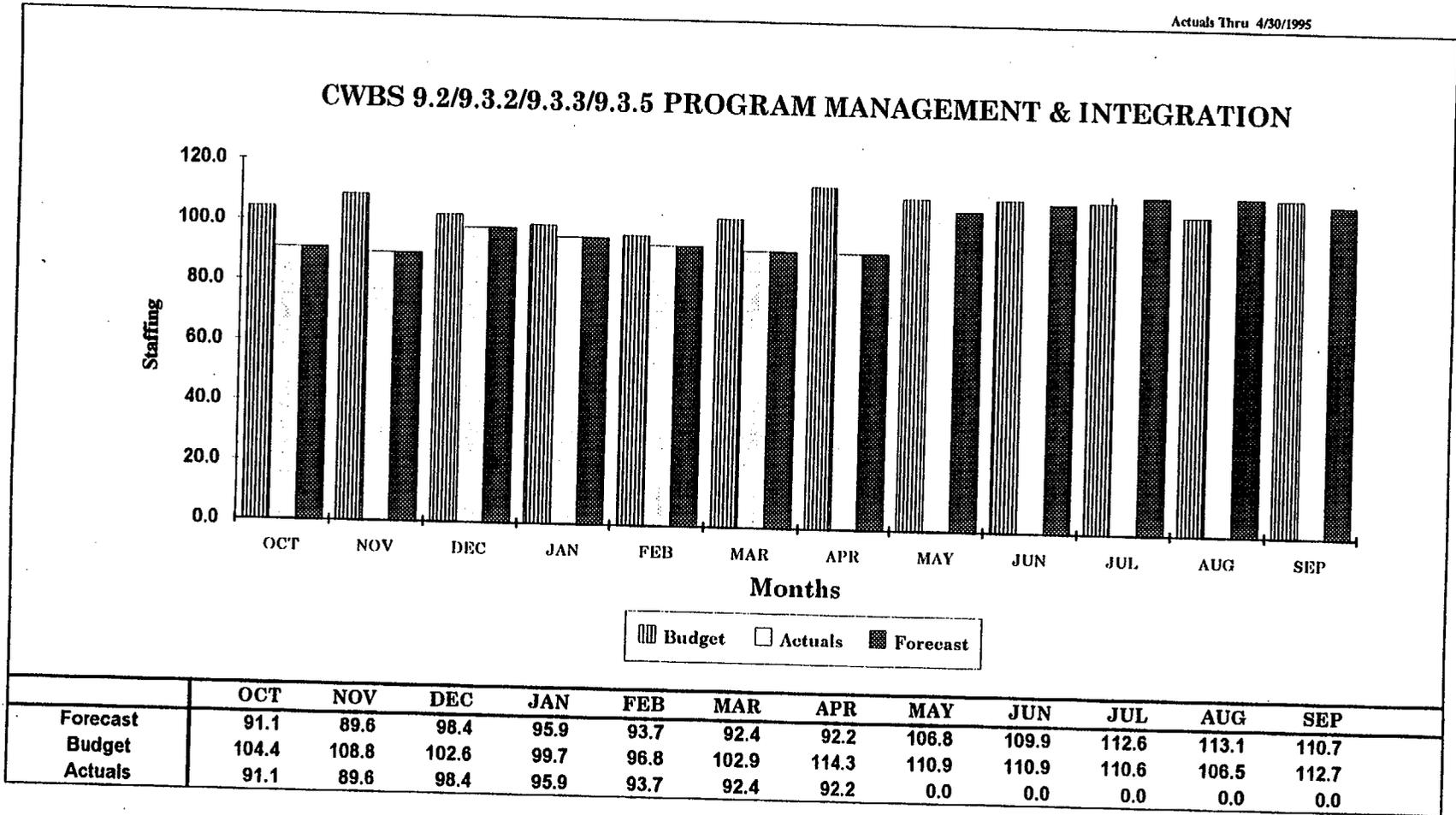


Figure 13. Systems Integration Key Milestone Schedule

FY95 KEY MILESTONE SCHEDULE				FY95											
ID	DESCRIPTION	BASELINE	FORECAST	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
				← DATA DATE 01MAY95											
9 2 1	SYSTEMS INTEGRATION														
92360	CRWMS RQMTS. DOCUMENT , REV. 2, GAP 3-1 REVIEW DRAFT		12/01/94			◆									
925014	RV-37 REVIEW DRAFT OCRWM BMP REV. 1	11/30/84	12/08/84			▽◆									
925063	PBCCB REVIEW DRAFT, FINAL SYSTEM SAFETY PROGRAM PLAN	11/30/84	12/14/84			▽◆									
925051	ICV6 REVIEW DRAFT TRANSPORTATION - MGDS ICD		01/23/95				◆								
925002	REPORT ON VALIDATION OF TSLCC ASSUMPTIONS AGAINST TECH BASELINE & CONCEPT ASSUMPTIONS	01/31/95	02/17/95				▽◆								
92382	WASTE ACCEPTANCE SYSTEMS REQUIREMENTS DOCUMENT (REV 2) RV-37 REVIEW DRAFT		02/23/95					◆							
925089	RV-37 REVIEW DRAFT OF OCRWM TEMP		02/23/95					◆							
92650	TRANS. SYS. RQMTS. DOCUMENT (REV. 2) - RV-37 REVIEW DRAFT		02/23/95					◆							
92375	SYSTEM IMPACTS OF DEFENSE AND COMMERCIAL HLW ACCEPTANCE - RV-37 DRAFT		03/03/85						◆						
925060	OCRWM REVIEW DRAFT OCRWM SEMP REV 4		03/28/85							◆					
925114	ANALYSIS OF MPC SYSTEM DESIGN ALTERNATIVES	03/31/95	03/30/95							▽◆					
92191	STORAGE SYSTEM REQUIREMENTS DOCUMENT (REV 2) - RV-37 REVIEW DRAFT		08/23/95										◆		
925017	PROGRAM LEVEL DECISION MILESTONE NETWORK	08/30/95	08/30/95										▽		
925061	PBCCB REVIEW DRAFT OCRWM SEMP, REV 4		06/30/95										◆		
92913	MGDS RQMTS. DOCUMENT (REV. 2) - RV-37 REVIEW DRAFT		07/07/95										◆		
925005	EVALUATION OF ALTERNATIVE STORAGE STRATEGIES	07/31/95	07/31/95											▽	
925049	SYSTEM CONCEPT OF OPERATIONS	07/31/95	07/31/95											▽	
925042	UPDATES TO THE CONCEPTUAL SYSTEM DESCRIPTION	08/31/95	08/31/95												▽

PAGE 2 RUN DATE 18MAY95 REPORT. WPMNTH 8

LEGEND

★ - LEVEL 0 M/S ◆ - LEVEL 1 M/S ▽ - LEVEL 2 M/S △ - LEVEL 3 M/S ▽ MILESTONE ◇ FORECAST

FY95 KEY MILESTONE SCHEDULE		FY95															
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				
ID	DESCRIPTION	BASELINE	FORECAST	DATA DATE 01MAY95													
925055	RW-37 REVIEW DRAFT STORAGE TRANSPORTATION ICD	08/31/95															
925008	DEVELOPMENT OF INTEGRATED DESIGN BASIS FUEL DESCRIPTION	08/28/95	08/29/95														
925020	PROGRAMMATIC RISK ANALYSIS	09/29/95	09/29/95														
925027	CIS PHASE 3 ACCEPTANCE TEST	02/15/95	10/31/95														
925028	CIS PHASE 3 OPERATIONAL [PEP 386]	09/01/95	02/16/96														

PAGE 3 RUN DATE 18MAY95 REPORT MONTH 5

LEGEND

★ - LEVEL 0 M/S ↓ - LEVEL 1 M/S ▽ - LEVEL 2 M/S △ - LEVEL 3 M/S V MILESTONE ◇ FORECAST

Figure 13. Systems Integration Key Milestone Schedule (Continued)

Figure 14. Regulatory and Licensing Key Milestone Schedule

FY95 KEY MILESTONE SCHEDULE				FY95													
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
ID	DESCRIPTION	BASELINE	FORECAST	← DATA, DATE 01MAY95													
9 2 2	REGULATORY COMPLIANCE																
925031	FINAL NEPA PROCEDURES MANUAL	04/28/95	04/21/95									◆					
925030	PBCCB DRAFT OF RGD REV. 1	08/28/95	08/15/95													◆	△
925033	1995 OCRWM ES&H MANAGEMENT PLAN	09/20/95	09/20/95														△

PAGE 4 RUN DATE 18MAY95 Report: WPMNTH 8

LEGEND:

★ - LEVEL 0 M/S ◆ - LEVEL 1 M/S ▽ - LEVEL 2 M/S △ - LEVEL 3 M/S ▼ MILESTONE ◇ FORECAST

Figure 15. Strategic Planning Key Milestone Schedule

FY95 KEY MILESTONE SCHEDULE				FY95												
ID	DESCRIPTION	BASELINE	FORECAST	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
				DATA DATE 01MAY95												
9 3 2	STRATEGIC PLANNING															
935003	DRAFT PROGRAM PLAN	10/20/94	10/19/94	▽												
935004	FINAL PROGRAM PLAN	12/20/94	12/20/94			▽										
PEP931	ENHANCED INTERACTIONS WITH TRB [PEP A1A(1)]		03/31/95							◇						
PEP932	CONTIGENCY PLANNING PROCESS		03/31/95							◇						
935001	DRAFT PROGRAM PLAN ANNUAL UPDATE	09/20/95	09/20/95													▽

PAGE 2 RUN DATE 15MAY95 REPORT. WPMNTH 9

LEGEND:

★ - LEVEL 0 M/S ▽ - LEVEL 1 M/S ▽ - LEVEL 2 M/S △ - LEVEL 3 M/S ▽ MILESTONE ◇ FORECAST

FY95 KEY MILESTONE SCHEDULE		FY95																
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					
ID	DESCRIPTION	BASELINE	FORECAST															
9 3	INTERNATIONAL WASTE MANAGEMENT TECHNOLOGY																	
933019	NAGRA ANNUAL PROJECT PLAN	02/28/95	04/18/95															
935090	AECL ANNUAL PROJECT PLAN	02/28/95	05/12/95															
935086	SKB ANNUAL PROJECT PLAN	06/14/95	05/31/95															

Figure 16. International Waste Management Technology Key Milestone Schedule

Figure 17. Program Control and Administration Key Milestone Schedule

FY95 KEY MILESTONE SCHEDULE		FY95												
ID	DESCRIPTION	BASELINE FORECAST	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			MILESTONE											
9 3 5 PROGRAM CONTROL AND ADMINISTRATION														
933217	DESCRIPTION OF PROGRAM ASSUMPTIONS TO RW-35	11/08/94 11/08/94		▼										
933213	DELIVER DRAFT COST LOADED OPSN TO RW-35	02/13/95 02/13/95					▼							
933211	DELIVER DRAFT PMSN TO RW-35	02/27/95 02/24/95					▼							
933228	REVISED WBS RECOMMENDATION TO RW-35	03/10/95 02/27/95					▼							
933218	INTERIM LIFE CYCLE COST ESTIMATES TO RW-35	01/27/95 03/27/95					▼							
933218	FINAL PRELIMINARY DRAFT TSLCC REPORT TO RW-35	04/28/95 04/11/95								◊				
933225	RECEIVE PCSB APPROVED WAST PROJECT COST A SCHEDULE BASELINE09/95 05/15/95 CHANGES										◊			
933226	RECEIVE PCSB APPROVED TMP COST A SCHEDULE BASELINE CHANGES 08/13/95 06/13/95											◊		▼
933224	DRAFT FEE ADEQUACY REPORT	08/28/95 08/28/95											▼	
933210	DELIVERY DRAFT PCSD TO RW-35	06/30/95 06/30/95											▼	
933007	REPORT ON LIFE CYCLE COST DRIVER MITIGATION	12/13/94 07/31/95			▼									
933227	SUBMIT DRAFT PROJECT DECISION SCHEDULE (PDS) TO RW-35	09/14/95 08/15/95											◊	▼
933220	DRAFT TSLCC REPORT TO RW-35	08/18/95 08/18/95											▼	
933221	DRAFT TSLCC NOTEBOOK TO RW-35	08/18/95 08/18/95											▼	

PAGE 3 RUN DATE 15MAY95 REPORT. VPRINT. 5
 LEGEND: * - LEVEL 0 M/B ◊ - LEVEL 1 M/B ▼ - LEVEL 2 M/B ▲ - LEVEL 3 M/B V MILESTONE ◊ FORECAST

4.3 EXTERNAL RELATIONS AND INFORMATION RESOURCE MANAGEMENT **CWBS 9.3.4, 9.3.6**

4.3.1 External Relations **CWBS 9.3.4**

MANAGER: K. H. Whitney

OBJECTIVE(S): Manage and operate the OCRWM National Information Center; develop, implement, maintain, integrate, and disseminate program-wide public, educational, and technical information materials, including publications, audiovisual resources, video productions, exhibits, presentations and briefings, INFOLINK, and toll-free telephone response; manage the inventory of materials; and implement the program-wide integration of DOE communications policies and publications procedures.

4.3.1.1 Progress During Report Period

Communications Integration

- Coordinated headquarters review and concurrence on the "Of Mountains and Science" portion of the OCRWM Bulletin for YMSCO.

Public Information

- Delivered camera-ready copy of the *OCRWM Bulletin*, Spring 1995 edition, including YMSCO's "Of Mountains and Science" section.
- Delivered drafts of five (tri-fold) brochures on the following topics: home page, publications, videos, exhibits, and the resource curriculum, with memorandum for general review and concurrence.
- Delivered draft of a revised fact sheet on *The Nuclear Waste Fund*.
- Drafted detailed memo for RW-1's signature regarding OCRWM Home Page procedures. Prepared Home Page management and operations plan—which includes a news release and letter announcing availability of the Home Page on the Internet—and submitted it to RW-15 for review and comment.
- Developed a draft proposal to make the NIC more comprehensive and user friendly, including a visual representation of program progress through the use of models, displays, charts, and publications.
- Staffed and delivered reports on the display of OCRWM exhibits at the International Technology Education Association (ITEA) Annual Conference in Nashville, TN; the National Science Teachers Association's National Convention in Philadelphia, PA; and the Association for Supervision and Curriculum Development (ASCD) 50th Annual Conference and Exhibit Show in San Francisco, CA.

- Coordinated and staffed display of OCRWM exhibit at the American Indian Earth Day Celebration, April 21-23, 1995, on the Mall in Washington, DC, as requested by OWAST.
- Arranged an OCRWM tabletop exhibit—publications and Yucca Mountain rock—to be displayed at the USGS Open House April 28 - April 29.
- Shipped 18,520 OCRWM publications from the warehouse.
- Delivered second quarterly report on Inventory, Distribution, Control, and tracking activities.
- Opened several new INFOLINK accounts and provided support to users on request. Posted several news releases, document abstracts, and the OCRWM Calendar.
- Delivered second quarterly report on INFOLINK activities.
- Prepared for and moved to TES2/760 (600 Maryland Avenue, SW, Washington, DC 20024) from TES1 and L'Enfant Plaza.

Education Programs

- Delivered reports on the presentation of workshops for educators at the National Science Teachers Association's (NSTA) Annual Convention in Philadelphia, PA, and the Clark County, Nevada, Educators Professional Development Program in Las Vegas, NV.
- Prepared and transmitted listing of names and addresses of approximately 10,000 teachers who have ordered *Science, Society, and America's Nuclear Waste* since 1992, as requested by RW-15.
- Delivered second quarterly report on Education Program activities.

Utility Outreach

- Prepared an exhibit for the North Anna Power Station (Virginia Power) to provide exhibit support for their Open House scheduled for May 12-13, 1995, at their request.
- Delivered second quarterly report on Utility Outreach activities.
- Mailed approximately 100 1994 Yucca Mt. Project in Review videos to nuclear utility information centers.

International

- Researched trade publications for information on international program for RW-30.

4.3.1.2 Issues and Concerns

- None.

4.3.2 Information Management Services CWBS 9.3.6

MANAGERS: V. M. Skrinak/C. L. Kerrigan

OBJECTIVE(S): Evaluate, develop, and implement plans, policies, procedures, and systems to facilitate the management of OCRWM program information, data, and records. Design, implement, deploy, and operate the Records Data Management System for the storage and retrieval of electronic images of OCRWM records to replace the current microfilm-based system. Manage and operate the OCRWM Records Management System. Operate OCRWM's Quality Records Center, Correspondence Control Unit, and Mail Room. Provide computer operations and support to the M&O Vienna and Capital Gallery facilities.

4.3.2.1 Progress During Report Period

Records Data Management System (RDMS)

- Received customized RDMS software from Digital Equipment Corporation, established connectivity to the Interim Records Information System, moved the LV jukebox to the computer room, completed and placed the CD-R Remote Site Distribution subsystem software into the CM system, and posted the final draft of the RDMS Standard Operating Procedures to the Lotus Notes Bulletin Board. Completed the development of the RDMS video for windows presentation, an online presentation describing the RDMS system and how it improves the records capture process. The RDMS will replace the current Records micro-film system with an electronic imaging system for the storage and retrieval of program records May 15, 1995. This transition is important for meeting the requirements of the LSS.

InfoSTREAMS

- Completed the final Commercial Off-the-Shelf (COTS) upgrade, WordPerfect. This completes all InfoSTREAMS efforts, except the requirements revalidation task.

LSS Functional Requirements

- Participated in the LSS ARP TWG review of the Level 1 (highest level) LSS requirements document. The group progressed toward closure on the Level 1 requirements and will brief the LSS ARP May 12, 1995. Additionally, began detailed work on the LSS Phase 2 Functional Requirements document. The document will be a system requirements specification (functional, performance, security, etc.) of sufficient detail from which design and implementation could be performed (for OCRWM's make or buy decision). It will be delivered to DOE June 1, 1995, (2 weeks ahead of schedule) so that it may be provided to the LSS ARP TWG for review prior to the July 6, 1995, meeting of the LSS ARP.

Automated Forms System (AFS) V2.0

- The AFS provides desktop capability for retrieving standard forms, filling them in, and e-mailing via Lotus Notes. Installed AFS V2.0 for 1,462 users in Las Vegas; provided a demonstration of the AFS for ORNL.

Records Awareness Training Program

- Conducted the final class of regularly scheduled Records Awareness Training Program, Module 4, RIDS for HQ and M&O East. To date, conducted 38 classes at the M&O and 9 at HQ. 75% of the people required to attend this training have attended at the M&O and 68% at HQ. Make-up classes will be scheduled in May to accommodate those who have not yet participated in Module 4 training.

National Information Center (NIC) Support

- Successfully moved the NIC from the L'Enfant Plaza facility to Capital Gallery over the April 21, 1995, weekend. The move went smoothly, and phones, systems, and LAN were up and running April 24, 1995.

OCRWM Staff Scientist Report

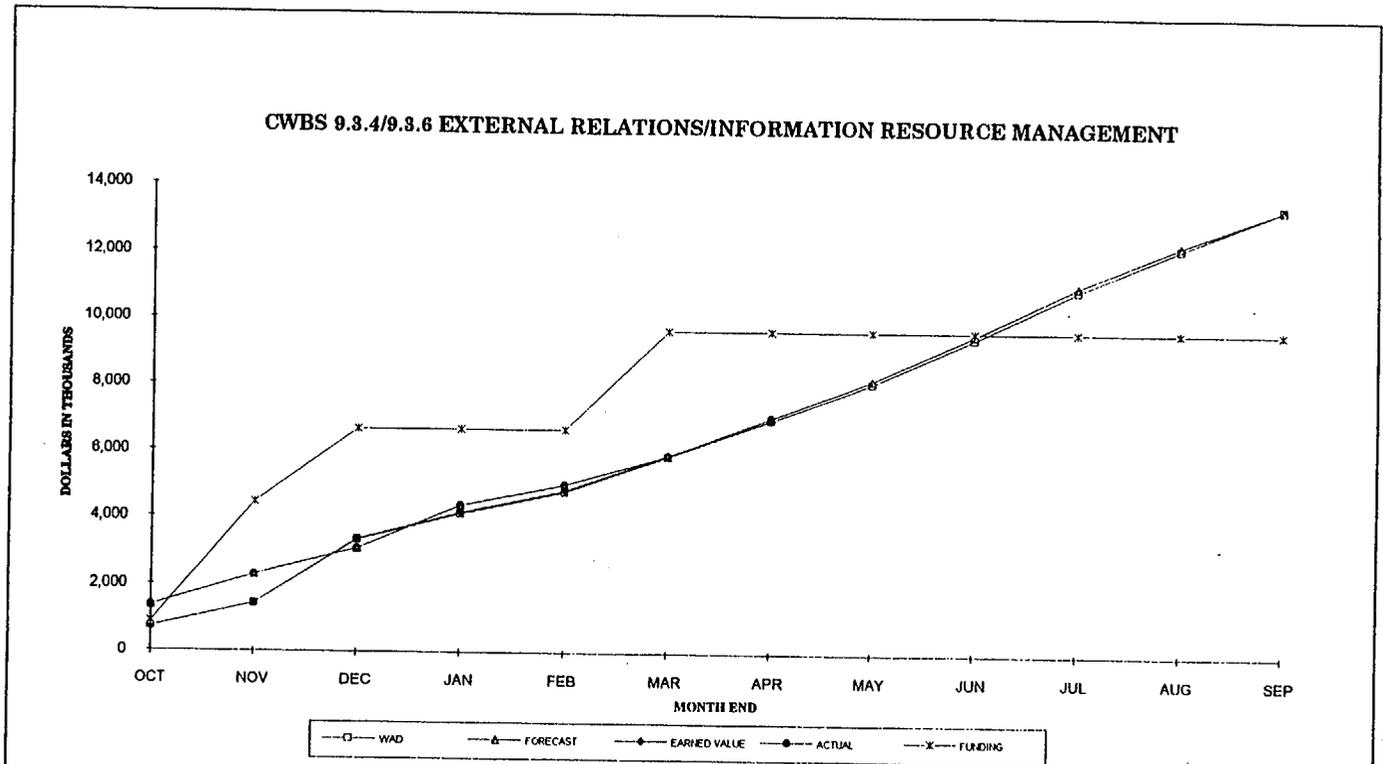
- Completed the Probabilistic Risk Analysis Tool Search. Delivered two Tool Evaluation copies "@Risk" and "What's Best," and two papers to RW-2.

1996 Budget

- Supported the OCRWM Information Management (IM) FY96 budget coordination meeting in Chicago during which an enterprise-wide standardized WBS dictionary was defined for FY96 to improve budget visibility and alignment between sites and contractors. Developed preliminary task definitions for FY96.

4.3.3 External Relations and Information Resource Management Variances

- Variance thresholds are not exceeded.



		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTH	WAD	728	708	1,888	793	871	1,087	1,095	1,132	1,383	1,466	1,273	1,228
	FORECAST	1,368	935	785	1,285	642	897	1,159	1,148	1,361	1,488	1,257	1,130
	EARNED VALUE	730	712	1,895	797	674	1,093	1,068					
	MONTH ACTUAL	1,368	935	785	1,285	642	897	1,159					
	VAR/SCH	4	4	9	4	3	6	(29)					
	VAR/COST	(838)	(223)	1,130	(488)	32	198	(93)					
CUM	WAD	728	1,434	3,320	4,113	4,784	5,871	6,966	8,098	9,461	10,927	12,200	13,428
	FORECAST	1,368	2,301	3,086	4,351	4,993	5,890	7,049	8,195	9,556	11,042	12,289	13,429
	EARNED VALUE	730	1,442	3,337	4,134	4,808	5,901	6,967					
	ACTUAL	1,368	2,301	3,088	4,351	4,993	5,890	7,049					
	VAR/SCH	4	8	17	21	24	30	1					
	VAR/COST	(838)	(859)	271	(217)	(185)	11	(82)					
FUNDING	FY95 FUNDING	900	4,425	4,425	4,425	4,425	7,443	7,443	7,443	7,443	7,443	7,443	7,443
	PREV. FUNDED	0	0	2,217	2,217	2,217	2,217	2,217	2,217	2,217	2,217	2,217	2,217
	TOTAL FUNDING	900	4,425	6,642	6,642	6,642	9,680	9,680	9,680	9,680	9,680	9,680	9,680

Current Month Cost and Schedule Variances are not addressed. See Section 1.3.

Figure 18. External Relations/Information Resource Management Financial Status

Figure 19. External Relations/Information Resource Management Staffing

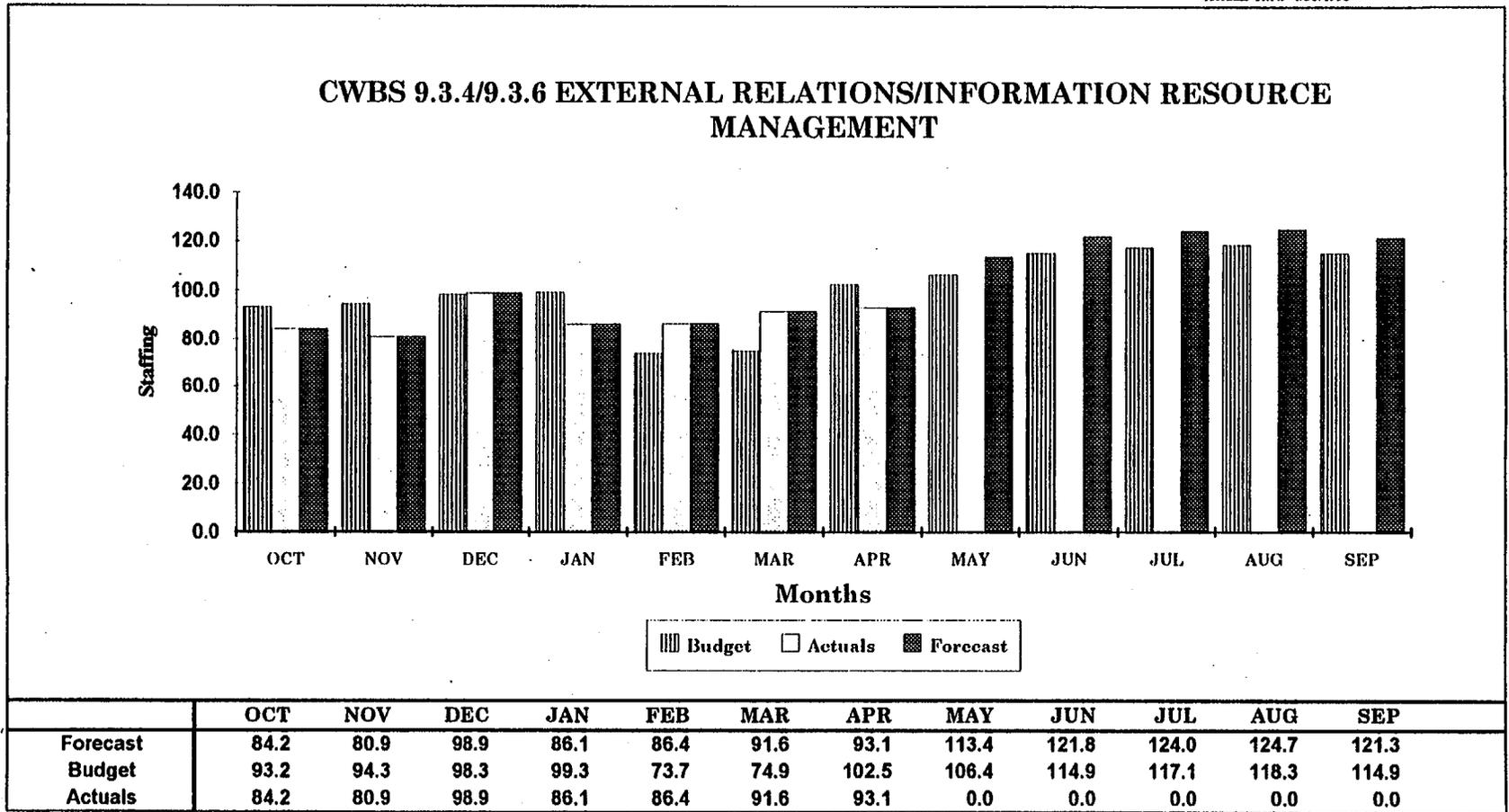


Figure 21. Information Management Key Milestone Schedule

FY95 KEY MILESTONE SCHEDULE				FY95													
				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
ID	DESCRIPTION	BASELINE	FORECAST	DATA DATE 01MAY95													
9 3 8 INFORMATION MANAGEMENT																	
935187	COMPLETE RECORDS TRAINING MODULE 3	02/01/95	02/20/95				▽	◆									
935188	DEPLOY RECORDS AWARENESS CBT APPLICATION	07/14/85	03/13/85					◆					▽				
935149	FY97 LONG RANGE PLAN DELIVERED	04/28/95	03/31/95						◆	▽							
935188	COMPLETE RECORDS TRAINING MODULE 4	04/30/95	04/25/95						◆	▽							
935207	COMPLETE ANNUAL M&O RISK ASSESSMENT	07/20/95	07/20/95										▽				
935148	FY86 SHORT RANGE PLAN DELIVERED	08/18/85	08/18/85												▽		
935144	DRAFT FY98 WORK PLANS COMPLETED	08/21/95	08/21/95												▽		
935147	CONDUCT COMPLIANCE AUDIT	09/29/95	09/29/95														▽
935153	GENERAL USER APPLICATION DEVELOPED	09/29/95	09/29/95														▽
935282	UPDATE OCRWM RIDS	08/28/85	08/28/85														▽

PAGE 8 RUN DATE 18MAY95 REPORTS VPMNTH 8

LEGEND

★ - LEVEL 0 M/S ↓ - LEVEL 1 M/S ▽ - LEVEL 2 M/S △ - LEVEL 3 M/S ▽ MILESTONE ◆ FORECAST

INTENTIONALLY LEFT BLANK

4.4 REPOSITORY IMPACTS

CWBS 1.0.10

MANAGER: S. S. Sareen

OBJECTIVE(S): In support of a Programmatic Environmental Impact Statement (PEIS) and a DOE Record of Decision (ROD), determine the potential impact of disposing spent fuel from plutonium-burning reactors and/or plutonium immobilized with high-level waste (HLW) on the existing HLW Geologic Program. Assess the regulatory and statutory impacts, develop design basis for a repository, and initiate efforts towards a repository design.

4.4.1 Progress During Report Period

Reactor Alternative Team Meeting

- Conducted the Reactor Alternative Team meeting April 26-17, 1995, with the following results:
 - GE-5 (BWR) reactor chosen as initial case
 - Assume availability of 4 reactors
 - First MOX spent fuel will be sent to the repository in 2020
 - Other variables will be defined.

Existing MOX Reactors (GE-5 BWR)

- Completed logistics, shielding, structural, and several as-emplaced criticality calculations.
- Defined degraded form criticality scenarios; analyses in progress. Results available May 26, 1995.
- Completed surface and subsurface facilities calculations. Incremental effluents and emissions, utilities, and labor requirements are minor.
- Completed TSPA calculations and found differences between MOX spent fuel and commercial spent fuel to be imperceptible.

Greenfield Glass Immobilization

- Completed logistics, shielding, structural, and several as-emplaced criticality calculations. LLNL data shows that the start date for acceptance of immobilized fuel to the repository is the beginning of 2014, with the last fuel received at the end of 2023.
- Defined degraded form criticality scenarios; analyses in progress.
- Completed surface and subsurface facilities calculations; in internal review.
- Completed TSPA runs; in internal review.

Partially Completed MOX Reactors

- Completed logistics analysis showing only one BWR reactor available for processing MOX. Many more PWRs could be available.

Evolutionary MOX Reactor (CE 80 +/-PWR)

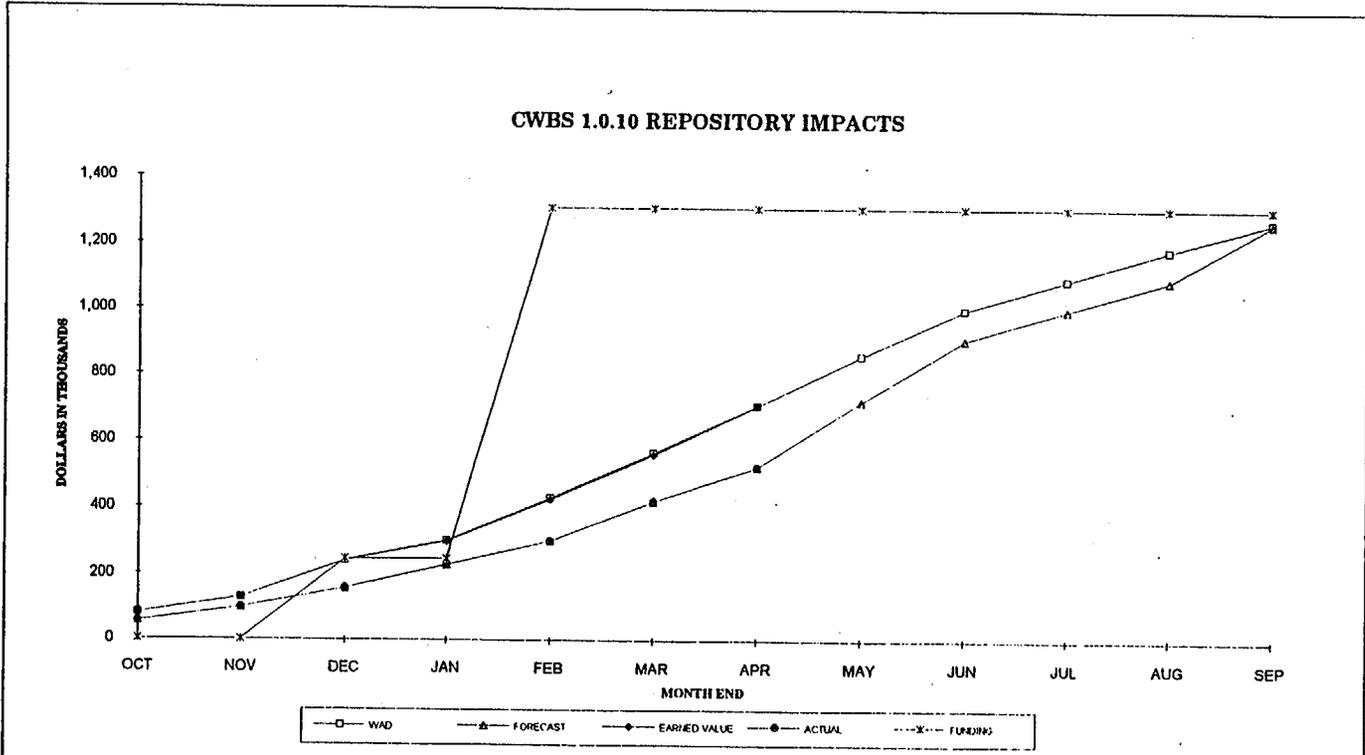
- Evaluated 1, 2, and 3 PWR reactor cases.
- Completed thermal analysis and started as-emplaced criticality and shielding analyses.

4.4.2 Issues and Concerns

- Delays in data availability will result in delayed input to the PEIS and Technical Summary Document.
- The options discussed in the PEIS will be limited given the PEIS schedule and the rate at which data is being made available to the Repository Impacts task.
- The overlap of requirements for the PEIS and Alternative Teams efforts is straining resources.

4.4.3 Variances

- The cumulative cost variance of \$186K/26% is a carryover from delay of previous months' inputs to the Repository Impacts task. The current month variance is due to the late delivery of the Ceramic waste form characteristics and contributed further to the cumulative cost variance. The setback is six weeks, and a work-around plan is being developed. The Ceramics can-in-can concept disposal option analysis will be late for the Programmatic Environmental Impact Statement (PEIS). The M&O and PEIS contractor will establish the analysis submittal date.

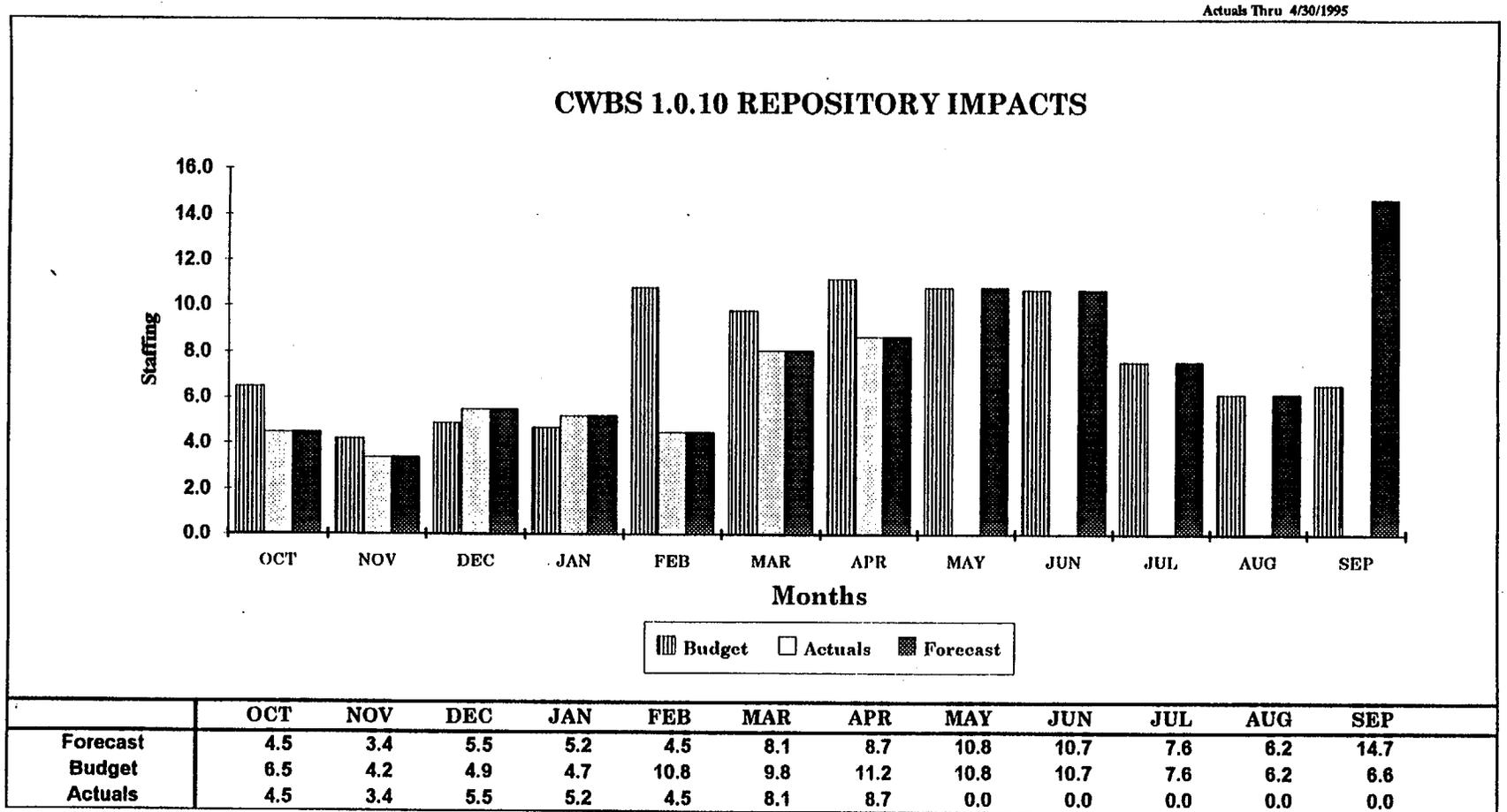


		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTH	WAD	80	50	112	59	128	138	145	151	140	92	91	85
	FORECAST	55	43	60	72	71	118	104	199	188	92	90	175
	EARNED VALUE	80	50	112	59	128	134	148					
	MONTH ACTUAL	55	43	60	72	71	118	104					
	VAR/SCH	0	0	0	(1)	(2)	(2)	3					
	VAR/COST	25	7	52	(14)	55	18	44					
CUM	WAD	80	130	242	301	429	565	710	861	1,001	1,093	1,184	1,269
	FORECAST	55	98	158	230	301	419	523	722	910	1,002	1,092	1,267
	EARNED VALUE	80	130	242	300	428	560	708					
	ACTUAL	55	98	158	230	301	419	523					
	VAR/SCH	0	0	0	(1)	(3)	(5)	(2)					
	VAR/COST	25	32	84	70	125	141	185					
FUNDING	FY95 FUNDING	0	0	0	0	1,080	1,080	1,080	1,080	1,080	1,080	1,080	1,080
	PREV. FUNDED	0	0	248	248	248	248	248	248	248	248	248	248
	TOTAL FUNDING	0	0	248	248	1,308	1,308	1,308	1,308	1,308	1,308	1,308	1,308

Current Month Cost and Schedule Variances are not addressed. See Section 1.3.

Figure 22. Repository Impacts Financial Status

Figure 23. Repository Impacts Staffing



APPENDIX A

FY95 M&O MAJOR DELIVERABLE STATUS

WBS	MAJOR DELIVERABLE TITLE	DUE DATE	COMPLETE	BCR NUMBER ¹	RESULT OF APPROVED BCR
1.2.1	REVIEW DRAFT REVISION TO THE CDA	28-Feb-95	14-Mar-95		
1.2.1	REVIEW DRAFT REVISION TO THE CDA	25-Aug-95	- -		
1.2.1	QAP 6.2 REV DRAFT REV TO THE RDRD	28-Sep-95	- -		
1.2.1	QAP 6.2 REV DRAFT REV TO THE BBDRD	31-Mar-95			
1.2.1	QAP 6.2 REV DRAFT REV TO THE SD&TRD	30-Mar-95	28-Apr -95		
1.2.1	CONCEPT OF OPERATION REPORT	28-Feb-95	08-Mar-95		
1.2.1	NV REPOS PRELIM TRANSPOR STRATEGY I	26-Jan-95	17-Feb -95		
1.2.1	NV REPOS PREL TRANSP STRATEGY II	31-Aug-95	- -		
1.2.1	CALICO HILLS DATA NEEDS AND ACCESS STUDY	31-May-95	- -		
1.2.1	FY95 THERMAL LOADING STUDY	28-Sep-95	- -		
1.2.1	MPC SYSTEMS STUDY	31-Jan-95	- -		
1.2.1	VALUE ENGINEERING STUDY REPORT #3	28-Apr-95	- -		
1.2.1	VALUE ENGINEERING STUDY REPORT #4	30-Jun-95	- -		
1.2.1	VALUE ENGINEERING STUDY AND REPORT #5	31-Jul-95	- -		
1.2.1	VALUE ENGINEERING STUDY & REPORT #6	28-Sep-95	- -		
1.2.2	WASTE PACKAGE CONCEPTUAL DESIGN RPT	29-Sep-95	- -		
1.2.2	RPT ON PREL SEL WASTE PACTK MATERIALS	14-Jun-95	- -		
1.2.2	INPUT TO CDA DOC	12-May-95	- -		
1.2.2	ISSUE ACD MPC CONTAINER RISK ANALYSIS REPORT	14-Apr-95	14-Apr-95		
1.2.2	ACD UCF RISK ANALYSIS REPORT	14-Apr-95	14-Apr-95		
1.2.2	INITIAL DRAFT OF REPOS BURNUP CREDIT	15-Sep-95	- -		

¹Baseline Change Request

FY95 M&O MAJOR DELIVERABLE STATUS

WBS	MAJOR DELIVERABLE TITLE	DUE DATE	COMPLETE	BCR NUMBER ¹	RESULT OF APPROVED BCR
1.2.2	TDPP FOR REPOSITOTY BURNUP CREDIT TOPICAL RPT	21-Dec-94	16-Dec-94		
1.2.2	ISSUE COST ESTIMATE STATUS REPORT	14-Mar-95	15-Mar-95		
1.2.3	DRAFT FINAL FISCAL YEAR 1995 TIP FOR WBS 1.2.3	30-Nov-94	30-Nov-94		
1.2.3	DRAFT FINAL FY 1996 TIP FOR WBS 1.2.3	28-Sep-95	- -		
1.2.3	UPDATED STRATIGRAPHIC COMPENDIUM	29-Sep-95	- -		
1.2.4	REP TECH IMP PLAN	13-Jan-95	09-Jan-95		
1.2.4	REPOSITORY TIP	13-Jan-95	09-Jan-95		
1.2.4	REP ENG PLAN	15-Dec-94	15-Dec-94		
1.2.4	ENGINEERING PLAN	15-Dec-94	15-Dec-94		
1.2.4	WASTE TREATMENT BLDG DESIGN FINAL REPORT	29-Sep-95	28-Apr-95		
1.2.4	WASTE HANDLING BLDG FINAL DESIGN REPORT	30-Aug-95	- -		
1.2.4	EMPLACEMENT EQUIP DEV REPORT	31-Jul-95	- -		
1.2.4	HEATING/COOLING REPORT	07-Apr-95	05-Apr-95		
1.2.4	EMPLACEMENT MODE EVAL	29-Jun-95	- -		
1.2.4	RECOMMENDED LAYOUT CONCEPTS REPORT	30-Jul-95	- -		
1.2.5	QUARTERLY REGULATORY INTERACTION SUMMARY REPORT	13-Jan-95	13-Jan-95		
1.2.5	QUARTERLY REGULATORY INTERACTION SUMMARY REPORT	14-Apr-95	13-Apr-95		
1.2.5	QUARTERLY REGULATORY INTERACTION SUMMARY REPORT	14-Jul-95	- -		

WP.235

A-2

April 1995

FY95 M&O MAJOR DELIVERABLE STATUS

WBS	MAJOR DELIVERABLE TITLE	DUE DATE	COMPLETE	BCR NUMBER ¹	RESULT OF APPROVED BCR
1.2.5	QUARTERLY REGULATORY INTERACTION SUMMARY REPORT	13-Oct-94	14-Oct-94		
1.2.5	COMMENT PKG NRC PROPOSED RULE ON DESIGN BASIS EVEN	31-Mar-95	- -		
1.2.5	MGDS LA AO REV 5 TO YMSCO	28-Sep-95	- -		
1.2.5	SITE CHARACTERIZATION FEEDBACK REPORT LA/AO REV 4	28-Apr-95	28-Apr-95		
1.2.5	PR11 TO DOE	23-Dec-94	23-Dec-94		
1.2.5	PR12 TO DOE	26-Jun-95	- -		
1.2.5	ISSUE LA ANNOTATED OUTLINE REVISION 4 TO YMSCO	24-Mar-95	24-Mar-95		
1.2.5	RESPONSE TO SCA QUESTION # 80	31-Mar-95	20-Sep-94		
1.2.5	SEISMIC TOPICAL REPORT II TO DOE	31-Mar-95	- -		
1.2.5	TECHNICAL DATA CATALOG	19-Oct-94	20-Oct-94		
1.2.5	TECHNICAL DATA CATALOG SUPPLEMENT	19-Jan-95	24-Jan-95		
1.2.5	TECHNICAL DATA CATALOG SUPPLEMENT	20-Apr-95	20-Apr-95		
1.2.5	TECHNICAL DATA CATALOG SUPPLEMENT	20-Jul-95	- -		
1.2.5	DOCUMENT TSPA 1995 CONCLUSIONS & IMPLICATIONS	30-Aug-95	- -		
1.2.5	ANLYS FAR-FIELD THERMOHYDROLOGIC RESPONSE	30-Aug-95	12-Apr-95		
1.2.6	RELEASE DESIGN PACKAGE 1D	27-Jan-95	03-Feb-95		
1.2.6	DESIGN PACKAGE 1E ACCEPTANCE	14-Jul-95	- -		
1.2.6	ISSUE CONVEYOR FOUNDATION FOR BASELINING	21-Mar-95	21-Mar-95		
1.2.6	RELEASE DESIGN PACKAGE 2C	11-Oct-94	03-Feb-95		

WP.235

A-3

April 1995

FY95 M&O MAJOR DELIVERABLE STATUS

WBS	MAJOR DELIVERABLE TITLE	DUE DATE	COMPLETE	BCR NUMBER ¹	RESULT OF APPROVED BCR
1.2.6	START 8A 50% DESIGN REVIEW	03-Mar-95	- -		
1.2.6	ICDS DESIGN PACKAGE ISSUE	21-Dec-94	28-Feb-95		
1.2.13	EIS NOTICE OF INTENT (DRAFT)	15-Dec-94	04-Jan-95		
1.2.13	ANNUAL SITE ENVIRONMENTAL REPORT	02-May-95	- -		
1.2.14	DEVELOP & DISTRIBUTE SPECIALTY ANNOUNCEMENT "B"	04-Apr-95	19-Jan-95		
1.2.14	DEVELOP & DISTRIBUTE SPECIALTY ANNOUNCEMENT "A"	05-Dec-94	18-Jan-95		
1.2.14	SUBMIT BULLETIN ARTICLE "A"	03-Jan-95	27-Jan-95		
1.2.14	SUBMIT BULLETIN ARTICLE "B"	27-Mar-95	14-Mar-95		
1.2.14	SUBMIT BULLETIN ARTICLE "C"	03-Jul-95	- -		
1.2.14	SUBMIT BULLETIN ARTICLE "D"	25-Sep-95	- -		
1.2.14	COUNTY REP REPORTS (MONTHLY)	30-Sep-95	25-Apr-95		
1.2.14	YEAR-END VIDEO	23-Dec-94	11-Jan-95		
1.2.14	PROJECT UPDATE VIDEO	30-Jun-95	- -		
1.2.14	BEW WIRJ UPDATE VIDEOS (SEVEN)	30-Sep-95	- -		
3.1.1	M&O MPC ACCEPTANCE PLAN	31-Mar-95	31-Mar-95		
3.1.1	PRELIMINARY DRAFT OF REV. 2 WAST PROJECT SEMP	31-Aug-95	- -		
3.1.1	FINAL (POBCCB) DRAFT OF WAST LCCP PLAN	29-Sep-95	- -		
3.1.1	WAST PROJECT TRACEABILITY DATABASE TOOL	29-Sep-95	- -		
3.1.1	PRELIMINARY DRAFT OF WAST PROJECT LCC REPORT	29-Sep-95	- -		

WP.235

A-4

April 1995

FY95 M&O MAJOR DELIVERABLE STATUS

WBS	MAJOR DELIVERABLE TITLE	DUE DATE	COMPLETE	BCR NUMBER ¹	RESULT OF APPROVED BCR
3.1.1	PRELIMINARY DRAFT REV OF WAST PROJECT CMP AND ATTACHMENTS	31-May-95	- -		
3.1.7	MPC SYSTEM TECHNICAL/BUSINESS PROPOSALS DUE	24-Oct-94	10-Nov-94		
3.1.7	AWARD MPC (PHASE 1) SAR DESIGN SUBCONTRACTS	05-Apr-95	- -	MPC-95-004	DELETE FROM WAD
3.1.9	ESAR #2 PRESENTATION PACKAGE	17-Feb-95	1-Mar-95		
3.1.9	FY 1997 IRB PACKAGE PROJECT	20-Apr-95	- -	MPC-95-009	NEW DATE (5/95)
3.1.9	ANNUAL WORK PLAN	29-Sep-95	- -		
3.1.7	INTEGRATED MPC MASTER SCHEDULE (DRAFT)	20-Dec-94	20-Dec-94		
3.1.7	V&V REPORT ON ORIGEN-S AND ANSYS COMPUTER CODE	28-Feb-95	21-Feb-95		
3.1.7	MRS/NO-MRS EVALUATION REPORT	1-Jun-95	- -	WST-95-003	NEW DUE DATE - 06/01/95
3.1.7	PD REV.1 MPC DRD	20-Jul-95	- -		
3.1.7	V&V REPORT ON ANSYS COMPUTER CODE	31-May-95	- -	WST-95-003	NEW DATE -5/31/95 (TDL-95-009)
3.1.7	SSA DECISION	06-Feb-95	- -	MPC-95-004	DELETE FROM WAD
3.1.13	SUBMIT MPC RCP TO PBCCB	20-Mar-95	- -	MRS-95-002	DELETE FROM WAD
3.1.5	FINALIZED BURNUP CREDIT TOPICAL REPORT	31-May-95	- -		
3.1.5	MPC CRITICALITY CONTROL DECISION MATRIX	29-Sep-95	- -		
3.1.1	DEFERRED - PRELIMINARY DRAFT OF WAST PROJECT T&EMP	29-Sep-95	- -		
3.2.14	TRANSPORTATION COORDINATION GROUP (TCG) MTG MINUTES	20-Jun-95	- -		
3.2.14	TRANSPORTATION EXTERNAL COORDINATION WORKING GROUP MINUTES	30-Jan-95	16-Feb-95		

WP.235

A-5

April 1995

FY95 M&O MAJOR DELIVERABLE STATUS

WBS	MAJOR DELIVERABLE TITLE	DUE DATE	COMPLETE	BCR NUMBER ¹	RESULT OF APPROVED BCR
3.2.14	TRANSPORTATION EXTERNAL COORDINATION WORKING GROUP (TEC/WG) MTG	20-Jul-95	- -		
3.2.1	FINAL RTDA REPORT	30-Jun-95	- -		
3.2.2	COMPLETE TRACTOR/TRAILER TESTING	20-Jun-95	- -		
3.2.2	TRACTOR/TRAILER TEST REPORT	20-Jun-95	- -		
3.2.2	COMMENTS ON GA ANSWERS TO 1ST ROUND NRC QUEST ON GA-4/9 SARs	31-May-95	- -		
3.2.2	DRAFT REPORT ON SFSX	29-Sep-95	- -		
3.2.4	TOPICAL REPORT, REV 1, ON RWR STORAGE/TRANSPORT BURNUP CREDIT	31-Jan-95	- -		
3.2.4	FINAL OPERABILITY REPORT FOR LWT TRACTOR TESTING (60 DAYS AFTER TEST REPORT)	29-Sep-95	- -		
3.2.13	OCRWM TRANSPORTATION RISK MGT PROGRAM STRATEGIC PLAN FINAL DRAFT	31-Mar-95	31-Mar-95		
3.2.13	OCRWM RISK MGT STRATEGY IMPLEMENTATION PLAN FINAL	29-Sep-95	- -		
3.2.13	FINAL TSRA REPORT	30-Jun-95	- -		
3.2.14	DRAFT MATERIALS FOR 180 (c) ANOPR	20-Dec-94	10-Jan-95		
3.2.14	DRAFT MATERIALS FOR 180 (c) NOPR	30-Jun-95	- -		
3.2.14	ROUTING CRITERIA DEVELOPMENT	29-Sep-95	- -		
3.3.1	PRELIMINARY DRAFT ISSUE POSITIONS	31-Jan-95	- -	WST-95-003	NEW DATE 1/95
3.3.1	REGULATORY SUMMARY PLAN	16-Jan-95	- -	WST-95-003	NEW TITLE AND DATE 1/16/95
3.3.1	DRAFT 1995 APR/ACR	29-Sep-95	- -		
3.3.1	FINAL VERIFICATION PLAN	31-Jul-95	- -	WST-95-003	NEW DATE 7/95

FY95 M&O MAJOR DELIVERABLE STATUS

WBS	MAJOR DELIVERABLE TITLE	DUE DATE	COMPLETE	BCR NUMBER ¹	RESULT OF APPROVED BCR
3.3.1	WASTE ACCEPTANCE OPERATIONAL PLAN (WA-OP)	31-Mar-95	31-Mar-95		
3.3.3	PHASE I DATA ACQUISITION PLAN	15-Aug-95	- -	WST-95-003	NEW TITLE & DATE (8/95)
3.3.1	FINAL MANAGEMENT PLAN - WASTE ACCEPTANCE CRITERIA	06-15-95	14-Mar-95	WST-95-003	2 WEEKS AFTER RECEIPT OF APR/ACR
9.2.1	CIS PHASE 3 OPERATIONAL	01-Mar-95	- -		
9.2.2	FINAL NEPA PROCEDURES MANUAL	30-Apr-95	- -	SIN-95-001	NEW DATE (4/95)
9.2.2	TRAINING MATERIALS FOR OCRWM NEPA WORKSHOPS	30-Jun-95	- -	SIN-95-001	NEW DATE (6/95)
9.3.2	FINAL PROGRAM PLAN	20-Dec-94	20-Dec-94		
9.3.5	FINAL DRAFT COST AND SCHEDULE ESTIMATING GUIDELINE	09-Dec-94	- -	PMA-94-004	TDL 95-5 EXTEND INTO FY95
9.3.4	PUBLISH REVISED, SELECTED PROGRAM-WIDE PUBLIC INFO. MATERIAL	29-Sep-95	- -		
9.3.4	DRAFT ANSWERS TO QUESTIONS	30-Jun-95	- -		
9.3.3	NAGRA ANNUAL PROJECT PLAN	28-Feb-95	- -	SPI-95-001	NEW DUE DATE - 02/95
9.3.4	DEPLOY FOR TESTING AN INTEGRATED DIGITIZED AUDIOVISUAL ELECTRONIC CAPABILITY	30-Jun-95	- -		
9.3.3	SKB ANNUAL PROJECT PLAN	31-May-95	- -	SPI-95-001	NEW DUE DATE - 05/95
9.3.3	AECL ANNUAL PROJECT PLAN	28-Feb-95	- -	SPI-95-001	NEW DUE DATE - 02/95
9.3.6	DRAFT FY96 WORK PLANS COMPLETED	21-Aug-95	- -		
9.3.6	FY96 SHORT RANGE PLAN DELIVERED	18-Aug-95	- -		
9.3.6	GENERAL USER APPLICATION DEVELOPED	29-Sep-95	- -		
9.3.5	DELIVERY DRAFT PCSD TO RW-35	30-Jun-95	- -		
9.3.5	DELIVER DRAFT PMSM TO RW-35	27-Feb-95	24-Feb-95		

WP 235

A-7

April 1995

FY95 M&O MAJOR DELIVERABLE STATUS

WBS	MAJOR DELIVERABLE TITLE	DUE DATE	COMPLETE	BCR NUMBER ¹	RESULT OF APPROVED BCR
9.3.5	DELIVER DRAFT OPSN TO RW-35	15-Feb-95	15-Feb-95		
9.3.5	DESCRIPTION OF PROGRAM ASSUMPTIONS TO RW-35	08-Nov-94	08-Nov-94		
9.3.5	INTERIM LIFE-CYCLE COST ESTIMATES TO RW-35	27-Jan-95	27-Mar-95		
9.3.5	FINAL PRELIMINARY DRAFT TSLCC REPORT TO RW-35	28-Apr-95	11-Apr-95		
9.3.5	FINAL TSLCC REPORT TO RW-35	15-Sep-95	- -		
9.3.5	DRAFT FEE ADEQUACY REPORT	28-Jun-95	- -		
9.3.5	DRAFT PCSB (MRS/MPC)	30-Jun-95	- -		
9.3.5	RECEIVE PBCCB-APPROVED YMP COST AND SCHEDULE BASELINE CHANGES	15-Sep-95	- -		
9.3.5	REVISED WBS RECOMMENDATION TO RW-35	10-Mar-95	27-Feb-95		

WP-235

A-8

April 1995

APPENDIX B

M&O Monthly Progress/Update Summary (\$K) as of APR 30, 1995

B&R	B&R Title	0	1	2	3	2-3	4	1-3	0-3
		Total Budget FY95/Defer/ Comm't	Cum to Date Budget/FY95/ Defer/Comm't	Cum to Date Forecast/FY 95/ Defer/Comm't	(FIS) Cum to Date Actuals	Variance (Fore-Act)	Total Funding- FY 95 & Provi- ously Funded	Variance (Cum Budget - Act)	Variance (Total Budget - Act)
DB0102010	YMP Systems Engineering	8,814	5,421	3,853	3,875	-22	0	1,546	4,939
DB0102020	YMP Waste Package	9,789	5,452	4,044	1,871	2,173	0	3,581	7,918
DB0102030	YMP Site Investigations	44,429	17,792	16,455	7,411	9,044	0	10,381	37,018
DB0102040	YMP Repository	9,028	5,023	3,467	3,580	-113	0	1,443	5,448
DB0102050	YMP Regulatory	22,892	12,076	10,394	6,944	3,450	0	5,132	15,948
DB0102060	YMP Exploratory Studies Fac.	78,068	19,599	21,362	9,648	11,714	0	9,951	68,420
DB0102070	YMP Test Facilities	9,236	3,389	3,382	2,133	1,249	0	1,256	7,103
DB0102090	YMP Project Management	11,578	5,839	6,005	5,072	933	0	767	6,506
DB0102130	YMP Environ., Safety & Health	17,008	8,318	8,883	6,556	2,327	0	1,762	10,452
DB0102140	YMP Institutional	4,762	2,434	2,087	2,170	-83	0	264	2,592
DB0102150	YMP Support Services	10,483	4,666	4,714	4,202	512	0	464	6,281
DB0102160	YMP Quality Assurance	5,880	2,320	2,273	1,598	675	0	722	4,282
DB0102170	YMP Information Management	7,805	4,367	4,208	4,023	185	0	344	3,782
	Total YMP	239,772	96,696	91,127	59,063	32,044	133,780	37,613	180,689
	% of YMP			94.24%	61.10%	33.14%		36.90%	
DB0301010	MRS Systems Engineering	955	483	404	421	-17	0	62	534
DB0301030	MRS Site Investigations	42	34	11	11	0	0	23	31
DB0301040	MRS MRS Facility	0	0	0	0	0	0	0	0
DB0301050	MRS Regulatory	1,968	1,094	948	986	-38	0	108	982
DB0301070	MRS Engineering Development	24,272	2,490	2,286	2,377	-91	0	113	21,895
DB0301090	MRS Project Management	1,810	986	865	899	-34	0	87	911
DB0301110	MRS Quality Assurance	194	97	111	116	-5	0	-19	78
DB0301120	MRS Information Management	0	0	0	0	0	0	0	0
DB0301130	MRS Environ., Safety & Health	1,477	814	705	733	-28	0	81	744
DB0301140	MRS Institutional	870	498	254	264	-10	0	234	606
DB0301150	MRS Support Services	0	0	0	0	0	0	0	0
	Total MRS	31,586	6,497	5,584	5,807	-223	0	690	25,779
	% of MRS			85.95%	89.38%	-3.43%		10.62%	
DB0302010	Trans. Systems Engineering	635	271	276	287	-11	0	-16	348
DB0302020	Trans. Casks	3,507	2,027	1,324	1,377	-53	0	650	2,130
DB0302040	Trans. Support Systems	2,306	910	627	652	-25	0	258	1,654
DB0302050	Trans. Regulatory	169	72	13	13	0	0	59	156
DB0302090	Trans. Project Management	735	401	337	351	-14	0	50	384
DB0302110	Trans. Quality Assurance	235	73	99	103	-4	0	-30	132
DB0302120	Trans. Info Management	48	23	1	1	0	0	22	47
DB0302130	Trans. Environ., Safety & Health	1,208	568	246	256	-10	0	312	952
DB0302140	Trans. Institutional	1,049	516	559	581	-22	0	-65	468
DB0302150	Trans. Support Services	0	0	0	0	0	0	0	0
	Total Transportation	9,893	4,861	3,482	3,621	-139	0	1,340	6,272
	% of TRANS			71.63%	74.49%	-2.86%		25.51%	

NOTE: FIS actuals may not agree with contractual actuals since the FIS cumulative-to-date actuals include depreciation costs. Contractual cumulative-to-date costs reflect total outlays of cash for capital and expenses only. As a result, these two methods of financial reporting may not necessarily agree.

Figure B-1. Monthly Progress/Update Summary

Figure B-1. Monthly Progress/Update Summary (Continued)

M&O Monthly Progress/Update Summary (\$K) as of APR 30, 1995

B&R	B&R Title	0	1	2	3	2-3	4	1-3	0-3
		Total Budget FY95/Defer/ Comm't	Cum to Date Budget/FY95/ Defer/Comm't	Cum to Date Forecast/FY 95/ Defer/Comm't	(FIS) Cum to Date Actuals	Variance (Fore-Act)	Total Funding- FY 95 & Previ- ously Funded	Variance (Cum Budget - Act)	Variance (Total Budget - Act)
DB0303010	Waste Accept Process/Oprtns	2,951	1,399	1,445	1,503	-58	0	-104	1,448
DB0303020	Waste Acceptance Econ. Stud.	129	0	52	54	-2	0	-54	75
DB0303030	Waste Acceptance Data Collect.	995	224	306	319	-13	0	-95	676
	Total Waste Acceptance	4,075	1,623	1,803	1,876	-73	0	-253	4,199
	% of WA			111.06%	115.56%	-4.50%		-15.56%	
	TOTAL 3.0 WAST	45,354	12,981	10,849	11,304	-435	41,066	1,677	34,250
DB0910030	Program Quality Assurance	3,818	2,027	1,845	1,919	-74	2,967	108	1,899
	% of PQA			91.03%	94.68%	-3.65%		5.32%	
DB0920011	Systems Engineering	6,665	3,651	3,302	3,433	-131	0	218	3,232
DB0920012	Systems Planning & Integration	0	0	0	0	0	0	0	0
DB0920013	Configuration Management	1,084	658	711	739	-28	0	-81	345
	Total Systems Engineering	7,749	4,309	4,013	4,172	-159	5,592	137	3,577
DB0920021	Regulatory Policy & Requirements	697	386	369	383	-14	0	3	314
DB0920022	Regulatory Integration	1,666	873	789	821	-32	0	52	845
	Total Regulatory Compliance	2,363	1,259	1,158	1,204	-46	1,894	55	1,159
	% of RC			91.99%	95.64%	-3.65%		4.36%	
DB0932000	Strategic Planning	1,373	730	664	690	-26	981	40	683
DB0933000	Int'l Waste Management Tech.	4,334	1,458	290	302	-12	577	1,156	4,032
	Total Strategic Planning & Int'l Waste	5,707	2,188	954	992	-38	1,557	1,197	4,715
	% of SP & IW			43.59%	45.33%	-1.74%		54.67%	
GA0101011	Repository Impacts	1,269	710	524	545	-21	1,308	169	724
	% of RI			73.80%	76.76%	-2.96%		23.24%	
DB0934000	External Relations	2,346	1,356	1,074	1,116	-42	1,291	240	1,230
	% of ER			79.20%	82.30%	-3.10%		17.70%	
DB0935000	Program Control & Admin.	1,983	1,157	893	928	-35	2,496	229	1,055
	% of PC&A			77.19%	80.21%	-3.03%		19.79%	
DB0936010	Information Resources Mgmt	11,083	5,610	5,975	6,213	-238	8,369	-603	4,870
	% of IRM			106.50%	110.74%	-4.24%		-10.74%	
DB0937000	Contract Business Mgmt	11,838	3,170	3,170	3296	-126	9,090	126	8,842
	% of CBM			100.01%	1.04	-3.97%		-3.98%	
	M&O Totals	333,481	131,463	121,602	90,772	30,830	209,390	40,691	242,709
	M&O Total % of WAD			92.50%	69.05%	23.45%		30.95%	
	M&O Total % of NB&R			36.46%	27.22%	9.24%		12.20%	

NOTE: FIS actuals may not agree with contractual actuals since the FIS cumulative-to-date actuals include depreciation costs. Contractual cumulative-to-date costs reflect total outlays of cash for capital and expenses only. As a result, these two methods of financial reporting may not necessarily agree.