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July 21, 1993

Contract #: DE-AC01-91RW00134
LV.NS.7/93.RGV-029

Carl P. Gertz, Project Manager
U. S. Department of Energy
Yucca Mountain Site Characterization Project Office
P. O. Box 98608
Las Vegas, Nevada 89193-8608

Attention: Vincent F. Iorri

Subject: Civilian Radioactive Waste Management System Management and Operating Contractor
(CRWMS M&O) Monthly Activity Report, Month of June 1993

Enclosed is the subject report for the month of June 1993.

As an attachment to the report, Cost and Schedule data has been provided for June 1993 and Year-to-Date totals. Also, attached is a schedule for the current work and Variance Analysis Reports. The schedule resides in the CRWMS M&O Planning and Control System.

If you have any questions or need any additional information, please contact me at (702) 794-1971 or Laura M. Tate at (702) 794-7144.

Sincerely,

R. Glenn Vawter, Deputy Manager, Nevada Site
Management and Operating Contractor

- DIVISION IORRI
- CC. BARTON
- CC. BLANCHARD
- CC. DIP'S (6)
- CC. HAMILTON-RAY
- CC. NEWBURY
- CC. REHKOP
- CC. SIMMONS
- CC. GAUDI

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Enclosure

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1. CRWMS M&O Monthly Activity Report
2. Cost and Schedule Data (Not Record Material)
3. Variance Analysis Reports (Not Record Material)

RGV:imt

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MONTHLY ACTIVITY REPORT

JUNE 1993

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EXECUTIVE SUMMARY - June 1993

- Completed a white paper on the Exploratory Studies Facility (ESF) design enhancement and ESF/Repository interface conceptual design. This white paper will be used to change the technical baseline for the ESF Title I Design if the concept is approved. Presented a summary of the paper at the Technical Project Officer (TPO) meeting on June 28, 1993.
- The M&O provided ESF integration, construction management and design support to the Yucca Mountain Site Characterization Project Office (YMPO) resulting in the following progress:
 - The North Portal Starter Tunnel progressed 25 meters between May 28 and June 30 on the North and South Slashes and is now at 39.6 meters. The Pilot Drift advanced 9.7 meters between May 28 and June 30 and is now also at 39.6 meters.
- Examined impact of the proposed ESF drift alignment on borehole drilling schedule and costs for FY 1993 and FY 1994, and prepared an assessment for YMPO.
- Transmitted final draft of Configuration Management (CM) Enhancement Final Report to YMPO for review, approval, and forwarding to OCRWM senior management.
- Systems Engineering provided Multi-Purpose Canisters (MPC) design support and support to three system studies: waste package performance allocation study, emplacement mode study, and thermal loading study. M&O/Las Vegas' methodology for burnup and enrichment has been adopted as the appropriate method for waste package and MPC designs taking credit for burnup. Also, completed conceptual design of the MPC disposal overpack and prepared drawings, and preliminary repository emplacement concepts for the thermal loading system engineering study.
- Developed technical evaluation of 3-D modeling software and recommendations for implementation of an integrated model to support the YMPO Regulatory and Site Evaluation Division (R&SED).
- Organized and conducted a consolidated work scope meeting for the remaining South Ramp Geologic (SRG) boreholes. The meeting focused on SRG-4 as the next SRG borehole to be drilled, and the relative placement of boreholes relative to the testing alcoves along the South Ramp. Reconfiguration of the ESF may cause changes in the placement of some SRG holes.
- Delivered Planning and Control System (PACS) Version 4.0 which included the Responsible Assignment Matrix report. In accordance with the user request, the index was modified in conformance with the PACS review. Preparation commenced to demonstrate and promote the use of PACS across the program for VAX users as well as those with Participant PACS Work Station.

- Conducted kick-off meeting for WBS Manager and WBS Counterpart reviews of the comments received on the first Draft of the FY 1994 Site Characterization Annual Plan. Conducted meetings with each WBS Manager/counterpart to review and discuss comments received on their areas of responsibility. Continued updating data sheets with input from participants and WBS Managers and counterparts in preparation of the second draft of the plan.
- Prepared a list of potential new issues relative to the EPA Standard for Yucca Mountain and the National Academy of Sciences (NAS) committee work. Participated in June 23 meeting of DOE's EPA Standard Task Force Working Group in Las Vegas. The working group adopted an overall structure for the issues related to the standard, agreed on a format for position papers on various issues, divided the responsibility for developing issue positions between working group members, put together a generic guideline for DOE presentations to the NAS, and discussed auxiliary tasks.
- Several meetings were held with Lawrence Livermore National Laboratories (LLNL), and Sandia National Laboratories (SNL) to collect and organize data to be used in analyses for the next Total System Performance Analysis (TSPA). Meetings covered topics of the source term, Kds, near-field parameters, hydrologic parameters, thermal scenarios, and radionuclide solubilities.
- Assisted YMPO in definition and establishment of YMP Safety and Health (S&H) organization. Drafted a letter for YMP Manager summarizing the YMP S&H Organization. The letter established W. A. Wilson as the YMP S&H Officer, with the M&O as project integrator supporting him in communicating project direction and policies, evaluating external directions and providing recommendations as appropriate, as well as management support. A formal letter was issued June 24, 1993 to all YMPO Division Directors (DDs) and YMP TPOs.

MGDS - SYSTEMS ENGINEERING
WBS 1.2.1
June 1993

MANAGER:

R. M. Sandifer

OBJECTIVES:

Provide overall Systems Engineering services in support of the Yucca Mountain Site Characterization Project (YMP).

PROGRESS DURING REPORT PERIOD:

- The Determination of Importance Evaluation (DIE), Test Interference, and Waste Isolation representatives discussed the acceptability of the Tunnel Boring Machine (TBM). A letter was drafted and reviewed concerning the expected effects of the TBM operating fluids.
- Coordinated and participated in a Value Engineering (VE) study on the ESF Standby Power System. The study's primary goal is to determine standby power load requirements and the Standby Power System needed to support those loads.
- Prepared draft letter requesting a change to the effective date of Program Configuration Item (CI) and CI Identifier procedure DOE/RW-0415 to allow time to complete the CI trial run currently underway on proposed draft CI procedure and to make project approach consistent with new program approach to CI selection and identification after issuance of revised RW-0415 procedure reflecting trial run results. Provided verbal status report regarding CI trial run to M&O/Vienna CM.
- Per YMPO request, prepared a Document Review Record to remove requirement for ESF perimeter fencing from the proposed ESF Security Plan.
- Prepared draft response to YMP Quality Assurance (QA) Division Surveillance Report YMP-SR-93-013 concerning field document control process. Also, prepared draft response to M&O QA questions about recent handling of formal YMP QAP 6.2 comment resolution process of AP-3.5Q. This addressed how internal closure of M&O comments regarding document reviews could be improved.
- Transmitted final draft of CM Enhancement Final Report cover letter to YMPO for review and signature. Report will be submitted to OCRWM senior management.

- Received partial structure of Package 1B concerning water supply and power systems for surface utilities from design organization in support of CI procedure trial run. After review of this partial information, an example was set to have the balance of the structures for Package 1B and all of Package 2 for sub-surface to be generated in the next two weeks.
- Resolved comments received from Science Applications International Corporation (SAIC), RSN, and the ESF Site Manager on the proposed YMPO Reliability, Availability, and Maintainability (RAM) plan.
- Continue to work M&O Level 3 Change Control Board (CCB):
 - Received notification of approved Procedure Change Notice (PCN) for QAP-3-4. PCN was effective June 21, 1993, and allows the M&O to effectively process changes until the new QAP-3-4 is approved.
 - Answered Corrective Action Report (CAR) 021 regarding dispositioned Baseline Change Proposals (BCPs) for BCP-02-93-0001, 0002, 0003, 0005, and set completion date of July 6, 1993.
 - Forwarded comments on M&O Charter to CM management for review.
 - Met with BCP Originators for BCP #BCP-02-93-0005 to make minor corrections in BCP package.
 - Baseline drawings from BCPs #BCP-02-93-0007, and 0012 on June 17, 1993, and initiated file closeout.
 - Completed Evaluation Summary for BCP-02-93-0004, and prepared directive for CCB Chairman's review.
 - Opened new BCP #BCP-02-93-0013 and prepared CCB Disposition Summary.
- Developed a transmittal to be used to forward pre-approved original drawings to the Document Control Center (DCC) for retention. The originals will remain in the DCC flat files until CCB approval, and will then be retrieved by CM for YMPO acceptance signatures.
- Performed all remedial/corrective actions to prevent recurrence for YM-CAR-93-016. Issuance of Revision 3 to AP 3.5Q will be the final step that will close the CAR.
- A two-day working session was held with M&O/Vienna and M&O/ Las Vegas on the Program Baseline Change Control Procedure (PBCCP) and its change forms. Actions will be taken that will improve the procedure and QAP 3-4, Level 3 Change Control Procedure.
- Hosted a two-day working session with M&O/Vienna on the Configuration Information System (CIS) Applied Users Guide. Took M&O/Vienna team to the Field Operations Office (FOC) to give them a better understanding of the Field CM activities.

- Proceeding with the transition from CIS to CMstat and will make recommendations to finalize the transition. Will continually update parallel databases until further notice from management.
- Transmitted formal response to YMP QA Division CAR YM-93-046 concerning failure to prepare an affected document notice to identify ESF Design Requirements document as an affected document resulting from Site Characterization Program Baseline change. Responded that necessary corrective action is complete.
- Held meeting with YMPO to discuss philosophy differences between RW-331 and YMP on the proposed ESF Security Plan. The non-applicable comments from RW-331 will be answered referencing governing directives and applicable comments will be incorporated as requested.

DELIVERABLES, PUBLICATIONS, AND PRESENTATIONS:

- Provided briefing information to YMPO Engineering and Development Division (EDD) Director for a presentation before the Nuclear Waste Technical Review Board (NWTRB), scheduled for July 13-14, 1993.
- Gave thermal loading presentation at the monthly Technical Project Officers' (TPO) meeting.

PLANNED WORK FOR NEXT MONTH:

- Continue with the following systems studies: waste package performance allocation, waste emplacement mode, and repository thermal loading.
- Provide day-to-day support to YMPO EDD in all areas related to systems engineering.
- Assist YMPO with development of an administrative procedure for the initiation of scientific or systems studies as defined in the new Systems Engineering Management Plan.
- Work on determining what types of documents are to be controlled in both the YMP and M&O baselines.

MAJOR NEAR TERM MILESTONES:

- None.

ISSUES AND CONCERNS:

- Need to improve the mechanism for elevating Level 3 drawings to the Level 2 CCB.

MGDS - WASTE PACKAGE

WBS 1.2.2

June 1993

MANAGER:

R. M. Sandifer

OBJECTIVE:

Develop a licensable Waste Package/Engineered Barrier System that meets regulatory requirements with sufficient margin for uncertainty and any additional requirements of the waste management system.

PROGRESS DURING REPORT PERIOD:

- Provided design support to the MPC and to the three system studies: waste package performance allocation study, emplacement mode study, and thermal loading study. These studies involved weight and size calculations, thermal and criticality analyses, radiation dose rates for various configurations, and material recommendations. Also, completed review of the literature to provide distribution data for dry oxidation and general corrosion of the container material. Generated sets of equations to be used for prediction of penetration of the overpack container material as a function of time and temperature.
- Continued advancement of the MPC Study. Our design point methodology for burnup and enrichment has been adopted as the appropriate method for waste package and MPC designs taking credit for burnup.
- Completed the conceptual design of the MPC disposal overpack and prepared drawings. An estimate of the fabrication costs will be based on these current drawings. The initial cost estimates will be refined over the next few months.
- Prepared a letter in response to a Congressional request from Senator Johnston to address inquiries from Desmond R. Wyatt of Export-Innovation Marketing, in Australia, regarding DOE investigation of SYNROC as a waste form. The letter confirms the position not to use SYNROC.
- Completed the review of the Savannah River Processing Facility Waste Qualification Report, Volume 12. Reviewed the ASTM Standard Test Method for Determining Chemical Durability of Nuclear Waste Glasses: The Product Consistency Test.
- Studied failure of spent fuel cladding by diffusion controlled cavity growth. Analyzed assumptions in the Raj and Ashby models and modified several to more realistically address grain structure. Will continue to examine.

- Initiated preparation of the Waste Package Engineering Development plan. The plan will outline several manufacturing processes that must be developed in support of the selection of design concepts and to ensure that the selected design can be manufactured to appropriate standards at acceptable cost.

DELIVERABLES, PUBLICATIONS, AND PRESENTATIONS:

- Completed the Waste Package Development FY 1994 Annual Plan and briefed YMPO. This plan has been negotiated with and agreed to by Lawrence Livermore National Laboratory (LLNL).

PLANNED WORK FOR NEXT MONTH:

- Continue major effort to prepare two presentations for the NWTRB meeting July 13 and 14, 1993: one on modeling and testing and another on MPC compatibility with thermal loading options. Also, continue preparing for a technical exchange with the Nuclear Regulatory Commission (NRC).
- Continue preparations for Large Block Test.
- Participate in the LLNL audit.

MAJOR NEAR TERM MILESTONES:

- None.

ISSUES AND CONCERNS:

- None.

MGDS - SITE INVESTIGATIONS

WBS 1.2.3

June 1993

MANAGER:

C. T. Statton

OBJECTIVES:

Participate in test prioritization activities. Conduct interference analyses for near term drilling activities. Provide oversight and management for site characterization activities. Review Study Plan (SP) status for in process SPs. Support the Integrated Test Evaluation Task Force. Participate in reviews of work scope, budget schedule with the US Geological Survey (USGS), Los Alamos National Laboratory (Los Alamos), and Sandia National Laboratories (SNL) to support Mission 2001 validation effort.

PROGRESS DURING REPORT PERIOD:

Surface-Based Test (SBT) Coordination:

- Continued working on Geophysics Reference List. Incorporated comments received on Preliminary Draft of the Geophysics Catalog.
- Organized and conducted a consolidated work scope meeting for the remaining South Ramp Geologic (SRG) boreholes. The meeting focused on SRG-4 as the next SRG borehole to be drilled, and the relative placement of boreholes relative to the testing alcoves along the South Ramp. Reconfiguration of the ESF may cause changes in the placement of some SRG holes.
- Organized and conducted a consolidated work scope meeting for boreholes G-5, WT-23, WT-24, SD-10, SD-12, and UZ-7a. These boreholes are being planned or are being held in reserve for FY 1994. The purpose of this meeting was to bring the Principal Investigators (PIs) together to discuss present status of preparedness, possible conflicting requests for data from an individual borehole, criteria for selection of the borehole location and expected depth, and flexibility in siting a borehole. Discussed access problems with the proposed location of SD-12.
- Began consolidated work scope planning for an SD borehole along the newly proposed North-South Drift alignment for the ESF as the potential next drilling site for the LM-300.
- Looked at potential locations for boreholes SD-10, SD-12, and WT-24 in the field with DOE Field Test Coordinators and USGS personnel. Discussed these locations with the R&SED, the PIs or their representatives, and Engineering Design personnel.

- Conducted kick-off meeting for WBS Manager and WBS Counterpart reviews of the comments received on the first Draft of the FY 1994 Site Characterization Annual Plan. Conducted meetings with each WBS Manager/counterpart to review and discuss comments received on their areas of responsibility. Continued updating data sheets with input from participants and WBS Managers and counterparts in preparation of the second draft of the plan.
- Examined the impact of the new ESF drift alignment on the borehole drilling schedule and costs for FY 1993 and FY 1994, and prepared assessment for YMPO.
- Developed technical evaluation of 3-D modeling software and recommendations for implementation of an integrated model to support R&SED. Met with EG&G and USGS to coordinate development strategy for the YMPO integrated 3-D data model.
- Compiled drilling prioritization information for FY 1994 work scope consolidation, coordinated meeting to resolve planning for borehole UZ-14 once perched water is encountered, and drilling below the water-bearing zone(s), and coordinated a drilling planning session.
- Participated in the June 8, 1993, DOE/NRC Technical Exchange on Geophysics Integration, where the past, present and future geophysics activities were presented to the NRC and assisted with the preparation of viewgraphs and attended volcanism technical exchange with the NRC and provided support on petrology and geochronology issues.
- Prepared for meeting with USGS personnel on the Seismic Hazards Assessment Methodology Topical Report outline. The team writing the topical report on seismic hazards met to continue discussing the approach to assessment methodology. It was expanded to include more members from the USGS. Presented draft outline for the topical report on seismic hazard assessment methodology to the Issue Resolution Steering Committee.

Regulatory Support:

- Coordinated and reviewed draft input from team members for the Final Report of the Technical Assessment of the "Exploratory Shaft Seismic Design Basis Working Group Report".
- Initiated process to allow ESF to be rated "non-gassy". Initiated process to alter approved Field Change Request on North Portal pad for electrical grounding calling for the use of salt as grounding medium-changing this to approved (by Site Characterization) GEM material.

Test Interference Evaluations (TIE):

- TIE reviews were conducted on the following: 69 kV Powerline Service to the North Portal; Aggregate Pad Associated with the Concrete Batch Plant; Revision 1 TIE for SRG-5/SD-11 borehole; Revision to C-Well Discharge System Evaluation; and ESF Water Supply Amendment TIE.
- Began amendment to the C-well pre-testing TIE, emphasis was on establishing monitoring requirements, if any, for spreading basins due to their proximity to Well J-13. Began addendum to NRG Borehole TIE to account for the addition of NRG-2B. The following other TIEs are also in progress: Cement Grout Use from 100 to 200 feet in Starter Tunnel TIE; Concrete Batch Plant TIE; ESF Sewer System for the North Portal pad; Large Block Heater Test on Fran Ridge; and Ghost Dance Pavement Study.

Study Plan (SP) Coordination and Review:

- Forwarded comment verification draft to reviewers on SP 8.3.1.8.1.2, "Physical Processes of Magmatism and Effects on the Potential Repository".
- Finalized location map for SP 8.3.1.4.3.1, R1 "Systematic Acquisition of Site Specific Subsurface Information".
- Prepared summary of status of ESF SPs for Bob Luce of the NWTRB.
- Completed Technical Review on SP 8.3.1.2.2.6, R1, "Characterization of the Yucca Mountain Unsaturated-Zone Gaseous-Phase Movement".
- Returned Technical Review Comments to PI on SP 8.3.1.2.2.6, R1, "Characterization of the Yucca Mountain Unsaturated-Zone Gaseous-Phase Movement".
- Submitted records package to YMPO on SP 8.3.1.4.3.1, R1, "Systematic Acquisition of Site Specific Subsurface Information"
- Reviewed proposed responses to State of Nevada Comments on SP 8.3.1.2.1.3, "Characterization of Yucca Mountain Regional Groundwater Flow System".
- Completed technical review on SP 8.3.1.17.4.12, "Tectonic Models and Synthesis".
- Completed review process on SP 8.3.1.2.2.9, R0, "Site Unsaturated-Zone Modeling and Synthesis".
- Submitted records package to YMPO for SP 8.3.1.2.2.9, R0, "Site Unsaturated-Zone Modeling and Synthesis".

- Returned technical review comments to the PI on SP 8.3.1.3.6.1, "Dynamic Transport Column Experiments".

DELIVERABLES, PUBLICATIONS AND PRESENTATIONS:

- Submitted TIE on the Proposed Construction and Operation of the Concrete Batch Plant and Associated Aggregate Pad, the Water Supply and Distribution System for North Portal Pad, addendum to NRG-2 through -5 to account for the addition of NRG-2B, and Revision 1 of the SRG-5/SD-11 TIE.

PLANNED WORK:

- Continue SBT Coordination, ESF Integration, TIE, development of the Borehole, Geophysics, SBT Activities catalogs, and development of the Test Interference Data Base and the Global Test Interference Model.
- Continue the Technical Assessment of "Exploratory Shaft Seismic Design Working Group Report" (SAND88-1203).
- Continue preparation of a Topical Report on Seismic Hazard Assessment Methodology as part of the Issue Resolution initiative.
- Continue development of text for Chapter 3 (Site Description) of the MGDS LA AO and the Long-Range Plan for Site Investigations.

MAJOR NEAR TERM MILESTONES:

- None.

ISSUES AND CONCERNS:

- None.

MGDS - REPOSITORY

WBS 1.2.4

June 1993

MANAGER:

R. M. Sandifer

OBJECTIVE:

Provide services to design and develop a licensable repository facility (surface and subsurface).

PROGRESS DURING THE REPORT PERIOD:

- Completed a white paper on the Exploratory Studies Facility (ESF) design enhancement and ESF/Repository interface conceptual design. This white paper will be used to change the technical baseline for the ESF Title I Design if the concept is approved. Presented a summary of the paper at the TPO meeting on June 28, 1993.
- Presented repository Advanced Conceptual Design (ACD) status and thermal loading implication in a dry run to YMPO and YMP participants in preparation for presentation to NWTRB full board meeting scheduled for July, 1993, in Denver, Colorado.
- Preparing a presentation for the NRC Technical Exchange meeting on the subject of design interfaces between ESF, Repository, and Waste Package. The meeting will be held on July 27 and 28, 1993. Attended a kick-off meeting with YMPO EDD Deputy Director to discuss the general guidance and scope of the presentation to NRC.
- Completed preliminary repository emplacement concepts for the thermal loading system engineering study. These subsurface concepts will be used for conducting thermal analyses to determine if they meet the repository thermal design goals.
- Continuing preparation of text on Basis for Design for the repository FY 1993 tasks. Performing tasks in the areas of shafts and ramps, subsurface ventilation, and operations in support of system studies and ESF interface. The results of these studies will be used to prepare reports that are FY 1993 deliverables.
- Completed development of and debugged SSIMM-2; which has been developed from SIMM-1. The expanded model includes duration stochastics, Spent Nuclear Fuel and High Level Waste (HLW) multi-year input, BWR/PWR distribution in waste package and HLW package handling.

- Completed and obtained approval of M&O MGDS Manager for the Technical Document Preparation Plans (TDPP) for shafts and Ramps Evaluation studies.
- Developed configuration specific operations flowchart and revised Waste Handling Building (WHB) computer simulation model to support Systems Analysis studies. A total of 32 different waste package configurations are being evaluated as part of this effort. This includes development of cost data in support of Systems Analysis for various waste package concepts costs.
- Began preliminary investigation into site generated low level rad-waste handling, treatment and disposal. Completed preliminary investigation into rad-waste treatment methods and completed compilation of list of applicable federal codes and standards.
- Provided technical input and support for the MPC Implementation program. Reviewed and provided comments on Issue Evaluations #18 - Welded versus Bolted Closure, #19 - Length of MPC Capacity, #20 - MPC transportation cask licensing for storage. Provided support for TSLCC development for MPC during meeting with M&O/Vienna. Provided technical input and support to YMPO in development of format and structure of the MPC Workshop/stakeholder meeting, scheduled for July 1 and 2, 1993, in Crystal City, Virginia.

DELIVERABLES, PUBLICATIONS, AND PRESENTATIONS:

- Completed the Repository Engineering Plan for FY 1993 deliverable after receiving DOE/YMPO acknowledgement of verification of all comments and responses.
- Made separate presentations to YMPO EDD Director and M&O TPO regarding the design advances in the ESF and the interface drawings for repository conceptual design.
- Participated in a presentation to the YMP Manager on the subject of ESF design enhancement.
- Presented the WHB Throughput Model (SSIMM-1) preliminary results and status of activities to YMPO and M&O June 4, 1993.

PLANNED WORK FOR NEXT MONTH:

- Complete a preliminary draft of the Basis for Design for ACD and obtain internal review and approval.
- Provide subsurface layouts and cost information to support thermal load and emplacement mode system studies.

- Complete simulation model runs and provide WHB capital cost data for 32 waste package configurations to support System Analysis studies.
- Present Repository ACD status and thermal load system study support effort concepts to NWTRB full board meeting July 13 and 14, 1993.

MAJOR NEAR TERM MILESTONES:

- Submit a draft of the Basis for Design to YMPO for review in third quarter of FY 1993.

ISSUES AND CONCERNS:

- None.

MGDS - REGULATORY
WBS 1.2.5
June 1993

MANAGER:

J. L. Younker

OBJECTIVES:

Provide all coordination and support for meetings with regulatory and oversight groups (e.g., NWTRB, NRC, ACNW). Track regulatory open items and commitments. Review proposed regulatory changes and determine impact on YMP plans and activities. Maintain the Regulatory Document Manual. Review YMP products to determine compliance with regulatory requirements and responsiveness to regulatory concerns. Develop regulatory documentation including the MGDS License Application Annotated Outline. Issue resolution topical reports, semi-annual Site Characterization Progress Reports, and the Regulatory Compliance Plan. Support the development of regulatory databases.

The M&O Performance Assessment (PA) function is responsible for conducting analyses that support programmatic decision-making and that address the determination of compliance with regulatory performance objectives. In addition, the PA function, through its management and integration role, aids the YMPO in the direction and management of scientific work and computer code development.

Systems Management and Integration function provides technical/management support as needed to M&O Systems activities and coordinates with DOE on strategies for increasing YMP viability.

PROGRESS DURING REPORT PERIOD:

Regulatory and Licensing

- Prepared a list of potential new issues relative to the EPA Standard for Yucca Mountain and the National Academy of Sciences (NAS) committee work. Participated in June 23 meeting of DOE's EPA Standard Task Force Working Group in Las Vegas. The working group adopted an overall structure for the issues related to the standard, agreed on a format for position papers on various issues, divided the responsibility for developing issue positions between working group members, put together a generic guideline for DOE presentations to the NAS, and discussed auxiliary tasks.
- Reviewed the Preliminary Draft of the Requirements and Licensing MPC Regulatory Compliance Report Proposed Outline and the Emplacement Mode System Study Technical Document Preparation Plan. No significant comments were generated as a result of these

reviews. Provided comments on the MPC Issue Evaluations related to the following:

- Identification of the reference case for the MPC Implementation study.
 - Material selection for the MPC.
 - Identification of fuel characteristics used as a design basis for the MPC.
 - Should the MPC transportation cask be licensed for transportation and storage (at reactor).
-
- Prepared schedule and guidance package for July 27-28 DOE-NRC ESF Technical Exchange and transmitted to presenters. Developed the DOE-NRC ESF technical exchange draft agenda and transmitted it to DOE Headquarters to set up a teleconference with NRC, DOE, and State of Nevada to agree to final agenda for July 27-28 interaction. Prepared draft presentation on NRC/OCRWM communications for Ted Petrie to present at DOE-NRC Technical Exchange on ESF Design and Design Controls.
 - Prepared draft of lessons learned for issue-resolution product authors. Topics include management aspects, content, and writing style. The guidance will be provided to issue-resolution working groups after review by YMPO and to the Issue Resolution Steering Group.
 - Participated in initial presentation of the DOE Licensing Workshop. After feedback from the participants, the workshop will be offered to additional Las Vegas personnel as well as participant locations.
 - Coordinated NRC Appendix 7 meetings with NRC, USGS, SNL, EG&G, and DOE for July 13 through 15, 1993, to discuss applications of LYNX software package for 3-D modeling and use of Earth Vision dynamic graphics.

Systems Management and Integration

- Obtained data for expert judgment pilot run. Evaluated and compiled best existing published information on relative suitabilities of thermal loading, Waste Package, and emplacement mode alternatives; including induced far-field temperatures over time and space, near-field temperatures (Waste Package centerline to rock 19 meters from borehole), Waste Package failure probabilities for different wall thicknesses and compositions, and operability effects.
- Finalized analytical strategies. A causal hierarchy was constructed relating Waste Package attributes (capacity, spacing in the potential repository, orientation/enclosure, and shielding/design lifetime) to performance objectives of minimizing post-closure dose potential, worker non-radiological fatalities, worker radiological exposure, public radiological exposure, and aesthetic impacts.

- Participated in Pre-Engineering Task Force meeting on Clark County, Nevada's new Academy for Mathematics, Science, Engineering and Applied Technology. The committee discussed a mission statement, objectives, and suggested course sequences. It was decided that at least one more meeting with the teachers themselves would be needed this summer before any formal recommendations could be made to the Clark County School District.

Performance Assessment

- Several meetings were held with LLNL, and SNL to collect and organize data to be used in analyses for the next Total System Performance Analysis (TSPA). Meetings covered topics of the source term, Kds, near-field parameters, hydrologic parameters, thermal scenarios, and radionuclide solubilities. The formulation of solubilities were completed for TSPA-II. The solubilities include thermal and pH effects, where data is available, and the correlation of solubilities of elements that complex in similar manners. The solubility distributions will be sent to LANL for review and comments.
- Started development of a spreadsheet program to calculate the mechanical response of cylinders to static loading conditions. Results will allow estimates to be made of energy absorption capacity and loading conditions for failure of casks. These estimates will be used to quantify MGDS rock fall quantities and accident conditions that could result in the release of radionuclides from casks during transportation and in drift storage.
- Continued work on an evaluation of the waste isolation impact from diesel exhaust. This work will be required for future evaluations of ESF construction and operation.

DELIVERABLES, PUBLICATIONS, AND PRESENTATIONS:

Regulatory and Licensing

- Consolidated comments were provided on the "Format and Content for the License Application for the High-Level Waste Repository" (FCRG) Draft Regulatory Guide DG-3003 working group.
- Coordinated the submittal, review, and comment of geophysics technical exchange presentations by DOE Headquarters for the June 8 interaction. Provided comments to presenters and arranged for reproduction of copies for handouts at the interaction.
- Coordinated the submittal, review, and comment of volcanism technical exchange presentations by DOE Headquarters for the June 9 interaction. Provided comments to presenters and arranged for reproduction of copies for handouts at the interaction.

Performance Assessment

- Completed waste isolation evaluations for deepening holes UE-25 NRG#2, NRG#2A, and NRG#5, ESF package 1A water supply system, the ESF package 1B surface buildings, parking, and compressed air facility construction concrete batch plant, drill hole U-25 NRG#2B, and the ESF Package 1A water distribution system.
- Held PA Thermal Modeling Meeting in Las Vegas June 29, 1993. Presented a range of modeling results from coupled multiphase thermal flow analyses through thermal conductances only evaluations. Discussed results of hydrothermal calculations performed with VTOUGH entitled "Subrepository Scale Hydrothermal Analysis in Support of TSPA." Also, discussed results of near field calculations for in drift emplacement of robust canisters entitled "Bounding Thermal Calculations for Individual Waste Package Placement." Presented a summary of thermomechanical calculations for predicting spall from the drift walls entitled "Very Near Field Thermomechanical Analysis Using Discontinuous Deformation Method."

PLANNED WORK FOR NEXT MONTH:

Regulatory and Licensing

- Participate in full NWTRB meeting in Denver, Colorado, on Thermal Loading and prepare meeting minutes.
- Continue preparation and support of DOE positions on 1992 Energy Policy Act, and participate in meeting of NAS Board on Radioactive Waste Management.
- Manage 10 CFR 60 rulemaking review.
- Issue summaries for June NRC Technical Exchange Meetings.
- Initiate program to coordinate gathering of meteorological data on YMP to meet needs of all users.
- Complete protocol document for YMPO interaction with ACNW.
- Transmit camera ready copy of the Semi Annual Progress Report 8 to RW-5 for printing and distribution.

Performance Assessment

- Continue the work for the DOE review in support of the NAS review of regulations.

MAJOR NEAR TERM MILESTONES:

Performance Assessment

- Performance Assessment Annual Plan is due June 15, 1993 for FY 1994.

ISSUES AND CONCERNS:

- None.

MGDS - EXPLORATORY STUDIES FACILITY

WBS 1.2.6

June 1993

MANAGER:

R. M. Sandifer

OBJECTIVES:

Design and develop ESF to support in-situ site characterization. Facility to be developed considering licensing requirements for repository.

PROGRESS DURING REPORT PERIOD:

- The M&O provided ESF integration, construction management and design support to YMPO resulting in the following activities:
 - The North Portal Starter Tunnel progressed 25 meters between May 28 and June 30 on the North and South Slashes and is now at 39.6 meters. The Pilot Drift advanced 9.7 meters between May 28 and June 30 and is now also at 39.6 meters.
 - Continued with the aggregate placement, grading, compacting, and testing Type II base course on the on the North Portal access road.
 - Work on the rip rap installation of the North Portal pad drainage channel
 - Shotcreting the Pilot Drift and Slashes from 0+14.6 to 0+37.5 meters
 - Installing, grouting, and testing pattern rockbolts in the Starter Tunnel. This work is completed up to station 0+26.8 meters.
 - Started and completed the work of shotcreting the steel lattice girders in the Starter Tunnel.
 - Started and continue with the construction of the shotcreted drainage channel above the Starter Tunnel. Work consists of earthwork and the placing of Jersey barriers on one side of the drainage channel.
 - Started and completed the topsoil stripping from the concrete batch plant site. In addition, started grading the site to finish elevations.
 - The Job Package for the 69 kV power distribution system was cancelled.
- Design activities continued for both design packages 1B and 2. Both packages are being re-cast to support the construction schedule for the balance of FY 1993 and FY 1994.
- The ESF Subsurface Design group, in conjunction with the Repository Subsurface designers and the ESF Project Engineering group, has developed an enhanced ESF layout and reference repository design. The new configuration was briefed to the YMP Manager, and is currently being reviewed in preparation for submittal of a Change Request to revise the ESF Technical Baseline.

DELIVERABLES, PUBLICATIONS, AND PRESENTATIONS:

- Developed YMPO EDD Director's briefing for ESF Status at the TPOs' meeting.
- Developed and delivered a briefing describing the ESF enhancements and supportive rationale during the YMP Manager's meeting.

PLANNED WORK FOR NEXT MONTH:

- Continue design activity on the Changehouse/Portal Control Building, the Main Warehouse, and the Shop/Warehouse. These facilities are to be located on the North Portal Pad.
- Continue focus on the design segment of the North Ramp between the end of the 200 foot Starter Tunnel and the east side of the Bow Ridge Fault.
- Continue to provide support to facilitate construction on Package 1A. ESF project milestones expected to be achieved are as follows:
 - Complete the excavation of the Starter Tunnel heading and start the excavation of the Starter Tunnel bench. This includes installation, grouting and testing of the pattern rockbolts and the shotcreting of the tunnel.
 - Finish the placement, grading, compacting and testing Type II base course on the North Portal Access Road.
 - Complete the construction on the drainage channel including shotcreting.
 - Complete the concrete batch plant site construction including grading, placing base course, and installation of the liner.

MAJOR NEAR TERM MILESTONES:

- Meet the September 13, 1993, milestone date for the Starter Tunnel completion.
- Begin 90% Design Review, Package 2A - July 19, 1993.
- Begin 90% Design Review, Package 1B - August 11, 1993.

ISSUES AND CONCERNS:

- None.

MGDS - TEST FACILITIES

WBS 1.2.7

June 1993

MANAGER:

D. B. Abel

OBJECTIVES:

Provide support services to the YMP Site Manager, provide field interface and coordination with Safety and Health Program, and provide field site management for M&O support staff.

PROGRESS DURING REPORT PERIOD:

- M&O Field Site Support Manager report to work and began familiarization with the YMP.
- Instituted coordination between ESF operations and maintenance personnel and the DOE Site Manager's staff involved in other field operations and maintenance tasks.
- Continued efforts in coordinating Site Development Plan Committee and Nye County concerning location of facilities and available services, vendors, and suppliers located within Nye County. Developing informal protocols to assure proper points of contacts are identified.
- Continued coordination with DOE Headquarters personnel concerning Occurrence Reporting and Processing System program development for OCRWM (RW-20).
- Supported the following tours:
 - Employee Orientation
 - Architect and Engineer evaluating potential sites for facilities.
- Participated in deliberations concerning the allocation of field reproduction of documents by the M&O Document and Records Center (DRC) and not the Nevada Test Site M&O.

DELIVERABLES, PUBLICATIONS, AND PRESENTATIONS:

- None.

PLANNED WORK FOR NEXT MONTH:

- Continue supporting DOE Site Manager.

MAJOR NEAR TERM MILESTONES:

- None.

ISSUES AND CONCERNS:

- None.

MGDS - PROJECT MANAGEMENT - NEVADA SITE

WBS 1.2.9

June 1993

MANAGER:

J. W. Frank

D. B. Abel

OBJECTIVES:

Provide overall Project Management and Project Control support for the M&O activities at the YMP site in Las Vegas, Nevada.

PROGRESS DURING REPORT PERIOD:

Plans and Procedure Department

- Attended Requirements Traceability Network (RTN) training to determine possible interface between RTN database, the Automated Requirements Management System (ARMS) database, and the DART database. Received 158 responses to the DART User Survey as follows: Six from YMPO, Six from REECo, 52 from M&O, 94 from T&MSS. Began analyzing results in order to recommend further DART briefings and possible changes to data base to meet users needs.
- Supported the YMP Procedure Revision Task (QARD transition process), and the M&O comparable activity (Quality Review Board). Completed Draft A of AP-1.17Q, Forms Administration for PCB and submitted for review. Draft B of AP-6.1Q, YMPO Document Development, Revision, Review and Approval Control is in process.
- Continued preparation of Design Requirements Documents as follows:
 - YMP/CM-0019, ESF Design Requirements
Draft C in preparation in PPD
 - YMP/CM-0022, Surface-Based Testing Facilities Requirements
Draft C to Reviewers June 13, 1993; final in preparation in PPD
 - YMP/CM-0023, Repository Design Requirements
Draft B in preparation in PPD
 - YMP/CM-0024, Engineered Barrier Design Requirements
Draft C in comment resolution
- Assisted revision of CM YMP procedures including supporting the comment dispute resolution meetings on AP-3.5Q.

- Received 11 new Document Action Requests and began processing; submitted 18 documents into the document review process.
- Submitted ten record packages to the Las Vegas Local Records Center (LV LRC) for processing (met objective for June of ten records packages).

Business Management

- Updated the Systems Requirement Specification (SRS) for the PACSView Work Station (formally called the Division Directors Work Station).
- Prepared Validation package for PR-25 to review the total costs of the project for FY 1995, the formal validation held June 29, 1993.
- Prepared and submitted the PACS variance analysis reports at the P&S account level and the COBRA variance analysis reports at the B&R level.
- Submitted the Project Data Sheets and Capital Equipment list for FY 1995. This data is in support of the IRB. Also, supported additional requests associated with the IRB which came from OCRWM.
- Worked Cost Reduction with Infrastructure Reduction Assessment Team and discussed the field process for planning, approval, and implementation for field work.
- Worked numerous "What-If" budget drills for OMB based on various funding scenarios which were requested by OCRWM Headquarters. Discussed both the total funding and the License Application date in teleconference with RW-1.
- Prepared Draft 5 of the PACSView System Specification for review.
- Loaded in PACS the MRS Project April data, in preparation for demonstration to DOE HQ July 14, 1993.

DELIVERABLES, PUBLICATIONS, AND PRESENTATIONS:

Plans and Procedures Department

- Provided the weekly written status on all plans and procedures in process (Document Action Tracking report) to the PCB Chief.

PLANNED WORK FOR NEXT MONTH:

Plans and Procedures Department

- Continue development of the design requirements documents to assist Systems Engineering to meet their schedules for final documents for CCB approval.
- Assist YMP document authors with document revisions in the "Procedure Revision" task to meet QARD requirements and the August 30, 1993, completion date.
- Prepare and submit eight to ten records packages to the LV LRC for processing (to maintain current status).
- Prepare DART briefings in response to the User Survey response requests for information.

Business Management

- Support Division Directors (DDs) FY 1994 Planning meeting with YMP Manager to present their programs on July 19, 1993. Thereafter, DDs will provide YMP participants with their proposed FY 1994 budgets.
- Continue PACS support to MRS. Demonstration on July 14th to DOE HQ.

MAJOR NEAR TERM MILESTONES:

- None.

ISSUES AND CONCERNS:

- None.

MGDS - QUALITY ASSURANCE - NEVADA SITE
WBS 1.2.11
June 1993

MANAGER:

J. A. Jackson

OBJECTIVES:

Provide overall QA support for the M&O activities at the YMP site in Las Vegas, Nevada.

PROGRESS DURING REPORT PERIOD:

Field QA/QC Activities:

- Issued five Non-Conformance Reports (NCRs). Thirty NCRs issued to date; seven remain open.
- Documented a NCR in the Shotcrete process being used at the ESF involving resumption of shotcreting prior to closure of an existing NCR. Another NCR has been written concerning the failure of cylinder compressive strength test for rock-bolt grout. Continue to monitor grout problem (Ref. NCR 93-026). Initiated work stoppage on shotcreting activities (that was later lifted).
- Working with Architect/Engineer (A/E) on several specifications revisions and new issues. Reviewed Concrete (subsurface) specification for M&O A/E.
- Met with DOE, REECo, and M&O A/E to discuss commercial grade procurement regarding how information is put in the specifications and how receipt and dedication is performed.

QA Verification Activities:

- Completed Surveillance Report 93-NSS-007 on drawing control. The surveillance report is in the process of being drafted. Two potential CAR conditions are being evaluated as a result of this surveillance.
- Completed and issued Surveillance Report 93-NSS-008 on DIE processing.
- Issued notice and prepared checklist for Surveillance 93-NSS-009 on Baseline Control.
- Prepared a Nevada M&O surveillance schedule for FY 1993.

QA Engineering Activities:

- Issued Corrective Action Report 93-QN-C-020 against MGDS Systems Engineering on plan being issued without QA review and containing QA information. Also, this plan probably should have been an implementing line procedure.
- Met with Systems Engineering and CM on concerns related to the implementation of QAP-3-4. A PCN is in process to clarify some of these issues. CAR 93-QN-C-021 on diskette not being submitted with the BCP as required by procedure was issued as a result of these discussions. Four BCPs have already been processed.
- Initiated M&O CAR 93-QN-C-023 on persons signing drawings without evidence of training.
- Initiated M&O CAR 93-QN-C-024 on interdisciplinary reviewers not signing on the original drawing and M&O CAR 93-QN-C-025 on drawings not identifying a QA classification..
- Initiated M&O CAR 93-QN-C-026 on violation of QAP-5-2, Revision 0. Procedure was sent for comment without coordination with location QA as required by Sections 5.3.1, 5.3.2, and 5.3.3.
- Initiated and sent M&O CAR 93-QN-C-027 on conflict between QAP-3-13 and QAP-19-2 to M&O/Vienna for processing.
- Initiated M&O CAR 93-QN-C-028 on V&V activities being performed without documented evidence of QA reviews and approvals required by procedure.
- Amended response to CARs YM-93-36 and YM-93-37 have been accepted by YMPO. Awaiting DOE verification of completed corrective action.
- CAR YM-93-040 on Design processes had the response rejected in part. The M&O was aware that this rejection was likely and YMPO suggested we submit the response and then they could specifically identify their concerns with our response. Meetings were held with YMPO prior to our initial response without coming to closure on all issues. Amended response and submitted June 14, 1993. Response was coordinated with YMPO and indication is that the response will be accepted.
- Submitted a request for extension of the response date for CAR YM-93-045. Because of the M&O audit of Security Archives, we are re-evaluating our corrective action alternatives. Time is needed to determine the proper alternative and develop a plan for implementation.

DELIVERABLES, PUBLICATIONS, AND PRESENTATIONS:

- None.

PLANNED WORK FOR NEXT MONTH:

- Continue Field QA/QC Title III Inspections.
- Continue QA Surveillances with focus on technical work.
- Continue Quality Engineering support to Design process and overall M&O QA Program.

MAJOR NEAR TERM MILESTONES:

- None.

ISSUES AND CONCERNS:

- None.

MGDS - INFORMATION MANAGEMENT
WBS 1.2.12
June 1993

MANAGER:

J. W. Frank

OBJECTIVES:

Provide overall Information Resource Management, Records Management, Document and Drawing Management Services, and Publications Support for the M&O contract at the YMP site in Las Vegas, Nevada.

PROGRESS DURING REPORT PERIOD:

Information Resource Management

- Data has been entered into the Technical Data Parameter Dictionary. The first draft will go out to the PIs in July.
- SAIC updated the VMS cluster, which necessitated support from INGRES, APECS, and BASIS M&O systems administrators. This new version is necessary to support future hardware upgrades.
- Completed implementing disk controller swap for 145 Dunn PCs. Installed 15 additional PCs.
- Reviewed the Compliance Evaluation Program and submitted comments to YMPO.

Records Management

- Actively involved in the Inspector General (IG) Surveillance that commenced on June 25 and will be ongoing for ninety days. Upon the completion of the surveillance, the scope of an audit will be defined and will continue for an additional one hundred days.
- Continued with discussions on scheduled plans for the procurement of the Document Capture System (DCS) for Las Vegas. The anticipated procurement of the system is September and the delivery date is October 1993.
- Personnel from M&O/Vienna visited the LV LRC and provided guidance and training on the Licensing Inclusion/Exclusion lists. Two staff members reviewed a variety of records with them and as a result, categories were created which licensing and administrative

records would fall under. This exercise was beneficial as categories needed to be identified for site generated records which were initially omitted from the original lists.

- Records Manager attended the Records Management Conference in Seattle, Washington. Departmental priorities with management and client were discussed and Records Management has taken a proactive approach in accomplishing those tasks in an expeditious manner.

Drawing and Document Management Services

- A briefing was conducted by personnel of the DCC to personnel at the Nevada Test Site on managed distribution and managed documents.

Publications Support

- Provided production support to:
 - Semi-Annual Progress Report (450 pages)
 - Design Specifications (577 pages)
 - MGDS Annotated Outline (7 pages)
- Completed the first draft (120 pages) of the User Manual for the Controlled Document Information System (CDIS).
- Provided initial word processing services for 712 pages of text in support of M&O document authors.
- Provided transcribing from tapes, technical editing, proofing, and formatting services for M&O documents on 4,036 pages of text.
- Provided action item reports, distributed eight documents for review and comment, prepared daily mail summaries, wrote ten transmittal and three DOE letters; completed 18 flowcharts, 20 organization charts, one form, and one electronic news summary.
- Processed 17 requests for technical information.
- In support of the TQM program, the natural working group on document processing met to define the organization of documents on the new Publications "W" dedicated drive. Also, Publications staff participated in the New Hire Assimilation Task Team, completing the new forms for Manager's New Hire Checklist and Separation Checklist.
- The M&O/Vienna Action Items, Contract Deliverables, and Document Review Tracking databases were all redesigned and rewritten into INGRES, and debugging is in process.

- Assumed responsibility for the processing of Public Release Documents through the M&O and DOE approval processes. Non-quality records packages for papers given to date are now being compiled and the first two were submitted to the LV LRC.

DELIVERABLES, PUBLICATIONS, AND PRESENTATIONS:

Information Resource Management

- Delivered software and draft user manual for Controlled Document Information System CDIS to M&O/Vienna. Support was provided to transfer Vienna's database to the CDIS format. These intermediate steps are necessary to ultimately have all Controlled Documents information on the same system.
- Delivered a new version of DART System which updated the command requests and supported the user in determining future workload demands.
- Delivered PACS Version 4.0 which included the Responsible Assignment Matrix report. In accordance with the user request, the index was modified in conformance with the PACS review. Preparation commenced to demonstrate and promote the use of PACS across the program for VAX users as well as those with Participant PACS Work Station.
- Delivered M&O Risk Assessment and Disaster Recovery Plan for Local Area Network.

PLANNED WORK FOR NEXT MONTH:

Information Resource Management

- Install, upon delivery, 75 PCs for YMPO.
- Participate in Novell Conversion Planning for Las Vegas.
- Participate in FOC ADP Requirements Analysis.

Records Management

- Coordinate logistics regarding the relocation of the Records Management Department and Drawing and Document Management Services; to include last minute adjustments or make space provisions to a previous RSN activity which is due to transfer to the M&O.

Publications Support

- Complete support to the Semi-Annual Progress Report.
- Complete processing of the Public Release Document record packages.

- Complete analysis of current software/hardware, and complete a FY 1994 ADP purchase plan for Publications Support.

MAJOR NEAR TERM MILESTONES:

Information Resource Management

- Deliver a study on Computer Aided Software Engineers tools.

ISSUES AND CONCERNS:

- None.

MGDS - ENVIRONMENT, SAFETY, AND HEALTH

WBS 1.2.13

June 1993

MANAGER:

F. Afshar

OBJECTIVES:

Provide overall Safety and Health support for the CRWMS M&O contract activities at the YMP site in Las Vegas, Nevada.

PROGRESS DURING REPORT PERIOD:

- Assisted YMPO in defining and establishing of YMP S&H organization. Drafted a letter for YMP Manager summarizing the YMP S&H Organization. The letter established W. A. Wilson as the YMP S&H Officer, with the M&O as project integrator supporting him in communicating project direction and policies, evaluating external directions and providing recommendations as appropriate, as well as management support. A formal letter was issued June 24, 1993 to all YMPO DDs and YMP TPOs.
- Coordinated responses to the draft copy of the report submitted to RW-30 on the results of the YMP Fire Protection and Tunnel Safety Audit conducted May 3 through 7, 1993. The latest inputs were regarding the FOC sprinkler system and stairwell fire barriers.
- Submitted memo to YMP participants regarding visitor access control at the ESF with the recommendation that only a maximum of five visitors be allowed to accompany an escort at any given time with this number being based on safety practices, industry standards, and past experiences of YMPO, REECo, SAIC, and M&O S&H.
- Developed a plan of action for M&O S&H activities reflecting tasks and estimated completion dates.
- Conducted several S&H site surveillances of the site with follow-up meetings and inspections. Researched a concern regarding possible respiratory problems was researched. Conducted a sampling to determine if a problem exists. Discussed work techniques to prevent unnecessary exposure. Initial direct reading instrument did not indicate any problem. Submitted respiratory samples to verify this initial evaluation. Results will take several weeks. Will conduct follow-up.
- Worked on a method to ensure that radiological dosimetry results are properly being recorded.

- Attended the Industrial Hygiene Working Group meeting. Discussions were on different means of improving programs, specifically; Hazards Communication (HAZCOM), employee/management increased involvement in industrial hygiene decisions and the uses of Conduct of Operations for the prevention of problems.
- Developed the draft copy of Revision 1 of M&O S&H Plan, HAZCOM Plan and Procedure, Emergency Evacuation Procedure, and the Surveillance Procedure.

DELIVERABLES, PUBLICATIONS, AND PRESENTATIONS:

- Gave Five-Year S&H Plan presentation to YMPO. Presentation was well received. Will continue follow-up work in the development of a plan of action regarding the proposed Emergency Services Center. Will use the Five-Year Plan to develop the FY 1994 program.

PLANNED WORK FOR NEXT MONTH:

- Participate in the upcoming M&O Functional Appraisal to be conducted by YMPO.
- Develop YMP M&O S&H Budget based on the data included in the Five-Year S&H Plan.
- Issue final draft of M&O S&H Plan Revision 1, HAZCOM Plan and Procedure, Emergency Evacuation Procedure, and the Surveillance Procedure.

MAJOR NEAR TERM MILESTONES:

- None.

ISSUES AND CONCERNS:

- None.

MGDS - INSTITUTIONAL
WBS 1.2.14
June 1993

MANAGER:

C. D. Van Natta

OBJECTIVES:

Within the framework of the Institutional Affairs organization, provide support to educational outreach and program development, including assistance in developing and maintaining university and community college programs and contacts. Provide backup support for enhancing public schools programs and interactions. Provide assistance to institutional/outreach programs, including staffing exhibits, assisting at public update meetings, and escorting tours.

PROGRESS DURING REPORT PERIOD:

- Coordinated arrangements with YMPO for ABC-TV videotaping of M&O facilities to be used in a segment on Peter Jennings's Nightly News Program about the project called "Your Money, Your Choice." The program is scheduled to air July 19, 1993.
- Two summer hire interns from the University of Nevada, Reno, have joined the M&O Outreach staff. One is working on a document that outlines the potential benefits that the project could bring to the State of Nevada, and one is preparing curriculum development materials on Critical Thinking using the project as a case example.
- Obtained TRW Foundation funding to Co-sponsor Nevada 2000 Statewide Education Conference in September, 1993.

DELIVERABLES, PUBLICATIONS, AND PRESENTATIONS:

- None.

PLANNED WORK FOR NEXT MONTH:

- Continue planning the College/University Intern Program, Business and Education Collaborative, Nevada 2000 Education Conference, Student Research Project, and the Adopt a Park programs.

MAJOR NEAR TERM MILESTONES:

- None.

ISSUES AND CONCERNS:

- None.

MGDS - SUPPORT SERVICES

WBS 1.2.15

June 1993

MANAGER:

D. B. Abel

M. F. Penovich

OBJECTIVES:

Provide overall Training and Support Services for the M&O activities at the YMP site in Las Vegas, Nevada.

PROGRESS DURING REPORT PERIOD:

Administrative Support

- Bank of America ninth floor lease package has been approved by the landlord; awaiting funding.
- Started construction of the offices on the 9th floor. An August 1993 completion date is anticipated.

Training

• Training Statistics:

Number of training classes held	17
Number of M&O personnel receiving training	199
Contact training hours	805.5
Audits/Surveillances	1

• Continued the following activities:

- Coordinating CM training for the M&O/Las Vegas, YMPO, and YMP participants.
- Coordinating ESF underground safety and health training for the M&O and YMP participants.
- Providing M&O personnel training at the FOC.
- Providing metric overview training for M&O personnel.

- Participated in QA surveillance 93-NSA-02.

DELIVERABLES, PUBLICATIONS, AND PRESENTATIONS:

- Presented the following training classes:

M&O Project Overview	17 M&O personnel
M&O Program Indoctrination	19 M&O personnel
Computer Security Awareness	20 M&O personnel
HAZCOM	32 M&O personnel
TQM Awareness	21 M&O personnel
Metric Overview	10 M&O personnel
Introduction to QA lesson plan	3 M&O personnel performing design reviews
QAP-5-2	17 M&O personnel
Franklin Planner/Scheduling	60 M&O personnel

PLANNED WORK FOR NEXT MONTH:

Administrative Support

- Continue construction and fit-up of the ninth floor.
- Raytheon will vacate space in the second floor of the annex building. Records Management staff will move into this space.

Training

- Present routine M&O training per the July 1993 M&O training calendar:
 - Training at the FOC for M&O Personnel
 - M&O Program Indoctrination
 - M&O Project Overview
 - Basic and Advanced Stress Management
 - Computer Security Awareness
 - TQM Awareness
 - HAZCOM
 - Fundamentals of Supervision and Management
- Integrate project training efforts in the underground safety and health training program.
- Integrate and support development and scheduling of CM training for M&O, YMPO, and YMP participants.

MAJOR NEAR TERM MILESTONES:

- None.

ISSUES AND CONCERNS:

Administrative Support

- Funding for the ninth floor lease has not yet been identified.