



Department of Energy
 Salt Repository Project Office
 110 North 25 Mile Avenue
 Hereford, Texas 79045

NCR

July 21, 1987

Stephen H. Kale, Associate Director
 Office of Geological Repositories, HO
 RW-20

SUBJECT: PROJECT MANAGER'S PROGRESS REPORT FOR May 1987

Attached for your information is the Salt Repository PROJECT MANAGER'S
 PROGRESS REPORT for the month ending May 31, 1987.

for *Pat Wanda*
 J.O. Neff
 Project Manager
 Salt Repository Project Office

SRPO:PVL:sms

Enclosure:
 As Stated

WM Record File
106

WM Project 16
 Docket No. _____
 PDR
 LPDR (S)

- cc: ✓ H. Rauch, CH, w/encl.
- ✓ J. Nicks, CH, w/encl.
- ✓ D. Bray, CH, w/encl.
- ✓ R. Selby, CH, w/encl.
- ✓ T. Isaacs, RW-22, w/encl.
- ✓ J. Knight, RW-25, w/encl.
- ✓ R. Stein, RW-23, w/encl. (2)
- ✓ R. Milner, RW-12, w/encl.
- ✓ J. Daly, RW-22, w/encl.
- ✓ J. Myers, RW-13, w/encl.
- ✓ A. Leiter, Weston, w/encl.
- ✓ W. Carbiener, ONWI, w/encl.
- ✓ S. Frishman, TX, w/encl.
- ✓ NRC, w/encl.

Distribution:
Gillen Still Linehan
 (Return to WM, 623-SS)

WM DOCKET CONTROL CENTER



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PROJECT MANAGER'S PROGRESS REPORT

PART I

1. IDENTIFIERS:

1a. PROJECT TITLE/NUMBER

Salt Repository Project/OCRWM Program/DB-01-03, Hereford, Texas

1b. REPORTING PERIOD

05/01/87 - 05/31/87

1c. MANAGING DOE FIELD LOCATION

Chicago Operations Office

1d. PROJECT SPONSOR/PROGRAM OFFICE CONTACT

Stephen H. Kale, Associate Director FTS 896-6842
Office of Geologic Repositories - OCRWM

1e. PROJECT MANAGER

J.O. Neff, Manager, Salt Repository Project Office
Department of Energy, 110 North 25 Mile Avenue
Hereford, Texas 79045 (806) 374-2320

1f. PERFORMING ORGANIZATIONS

Battelle Project Management Division
Parsons-Redpath
Fluor Technologies, Inc.
Parsons Brinckerhoff/PB-KBB
Texas Bureau of Economic Geology
Other DOE Prime Contractors
U.S. Geological Survey
Other Interagency Agreements
DOE Integrated Contractors

2. PROJECT MANAGER'S PERSONAL ASSESSMENT

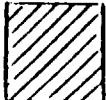
2a. SUMMARY STATUS

LEGEND

Satisfactory



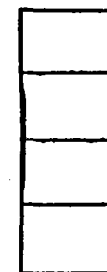
Minor Concern



Major Concern



COST
SCHEDULE
TECHNICAL
OVERALL PROJECT



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o SALT REPOSITORY PROJECT SUMMARY

The opening of the SRP office in Hereford, Texas, occurred the first week in May. The SRP Texas office became the official SRPO location during the third week of May. All correspondence is now being logged and mailed from Hereford. The office in Columbus has become the satellite office.

In mid-May, a meeting between B. Rusche and Hereford leaders focused on the project's procurement activities in the Panhandle area. The results of the meeting underscored the need for the project to be particularly sensitive to the local community in procurement activities.

Amendment No. 2 to the Solicitation for Offers (SFO) for permanent office space for Battelle in Hereford was issued May 27. The Amendment is a complete replacement of the SFO and incorporates DOE-Chicago Legal and Real Estate comments. The deadline for submission of offers was June 5.

A review of the SCP schedule was conducted with headquarters. Agreement was reached on a process to achieve a March 1988 publication date. A specific recommendation on new schedules with different options was provided to HQ the first week of June.

o WBS 1.3.1 SYSTEMS

During May, resolution of Management Review comments for Revision 3 of the RD continued. Delivery of the RD Revision 4 to OGR for review and approval occurred the last week of June.

o WBS 1.3.2 WASTE PACKAGE

SRPO staff prepared materials for the SRP Waste Package Strategy Workshop conducted at HQ from May 27 to June 5, 1987.

o WBS 1.3.3 SITE

GENERIC

Seventy-one (71) production core holes are now complete at the Mississippi Chemical Corporation Mine. Field production of core samples is forecast-to-complete in mid-July.

PERMIAN BASIN

Alexander-HQ was provided a listing of all Site Study Plans that support the SCP.

A presentation on the anticipated technical content of the environmental study plans was given to HQ staff on April 28 and 29, 1987, in Columbus. Work on preparing the plans continues.

o WBS 1.3.4 REPOSITORY

The Fluor work activity for FY87 was restructured during May. The tasks in order of priority are: 1) SCP support; 2) completion of SCP-CDR; 3) publication of 12 Fluor reports; and 4) support in review of RD, etc.

o WBS 1.3.5 REGULATORY & INSTITUTIONAL

LICENSING

Contractor participation in the HQ Waste Package Strategy Workshops will impact the schedule for development of Chapter 7 of the SCP. SRPO and OGR (Alexander) discussed the SRP-SCP schedule on May 19, 1987. SRPO is to plan the SCP development process to reflect a publication date of March 30, 1988.

Examples of SRP-SCP Sections 8.2 and 8.3 were transmitted to OGR (Alexander) on May 15, 1987, along with a Preliminary Performance Allocation Report.

Documentation from the NRC meeting on the status of the ESF design was transmitted to OGR (Knight) on May 13, 1987.

SRP's comments on Weston's analysis of the applicability of 10 CFR 100, Appendix A were transmitted to OGR (Youngberg) on May 14, 1987.

ENVIRONMENTAL COMPLIANCE

During May, SRPO Staff continued work on the Environmental Regulatory Compliance Plan.

COMMUNICATIONS AND LIAISON

During May, a copy of the draft letter of instruction to the COE-Tulsa to initiate work on the Real Estate Planning Report was forwarded to Steve Frishman (TX-NWPO) for his review.

S. Frishman visited the Hereford office to discuss a number of items. He will provide an initial response concerning SRPO's letter of direction to the COE, identifying three areas of concern. The review schedule for his recently submitted grant information was discussed. He clarified issues identified in SRPO's review of the socioeconomic study plan for Hereford Services. SRPO staff provided him copies of the May Texas residence analysis and projections for staff moves through summer. Mr. Frishman indicated the three school districts in Oldham County are expected to sign an intergovernmental agreement in the next month, as are the county commissioners of Parmer, Castro and Swisher Counties.

SRPO has invited the State of Texas to identify state technical experts to participate in on-site reviews of the SRP.

During the last week in May, SRPO instituted weekly status reports to the community. The SRP Deputy Manager makes the report each Wednesday morning. The public is invited. At the first session approximately 12 local officials and interested citizens attended. The focus of the sessions is to report on progress of site transition and local procurements and to answer questions.

T. Baillieul met with P. Niedzielski-Eichner of the Waste Deposit Impact Committee (WDIC) to discuss the Site Characterization Plan.

The WDIC approved the following items during May: establishment of an Assistant Director for geotechnical analysis; initiation of negotiations with DOE to establish Principles and Procedures for Interaction between SRPO and the WDIC; initiation of discussions with the County for distributing monies received from DOE if a prepayment on future PEST liability is authorized; secure services of Texas Tech University to help define significant elements of WDIC geotechnical oversight program and to provide experts to assist the Geotechnical Study Group in consideration of major characterization issues. A proposed action to secure a personnel consultant to help define programs to minimize impacts from recruiting efforts of DOE and its contractors was not approved; the Director of the WDIC was requested to solicit the level of interest locally for providing the services of such a consultant. The WDIC "Task Force" has been changed to "Issues Councils", per a request from Delbert Devin of the Nuclear Waste Task Force. Consideration is being given to the establishment of an Association of Situs Governments, with representation from the three repository and the MRS sites' local governments. The Director reported on a May 19, 1987, trip made to Washington to discuss the potential for incorporating changes in the Bennett Johnston Bill to address situs local government need. The Director was requested to assess the speed with which DOE is moving into the local area and provide recommendations of whether the Committee should take formal action or make a formal request to DOE.

SRPO staff met with representatives of the Texas Department of Highways and Public Transportation to discuss project traffic characteristics and area road design and conditions.

A "Quick Response" procedure was established with Hereford Chamber of Commerce to improve communications with the community.

A summary of contacts made through the SRP nuclear waste information offices during May compared to those made in April is as follows:

	<u>Visitors</u>	<u>Calls</u>	<u>Contacts</u>	<u>Media</u>
April	558	569	272	3
May	549	564	226	7

FINANCIAL AND TECHNICAL ASSISTANCE

During May, additional details were received from S. Frishman, TX-NWPO, concerning his grant proposal, as requested by SRPO on December 8.

o WBS 1.3.6 EXPLORATORY SHAFT FACILITY

FY89 Budget Reconciliation and revised Budget Validation documents were completed and submitted to HQ (J. Daly) on May 28, 1987.

SRPO prepared a change proposal to justify the changes in the subsurface layout from ESF Title I to Title II. This was completed in June.

The comments received by SRPO during 30% ESF Title II Design Review were sent to PB/PB-KBB for resolution. ONWI is coordinating the effort.

SRPO prepared a position paper for HQ addressing the 30% ESF Design hold points. This paper was submitted to HQ early June.

A copy of the SCP-CDR Design Completion Report was sent to all 30% Design Review participants as well as HQ, DOE-CH, Corps of Engineers, and Weston for information.

o WBS 1.3.8 LAND ACQUISITION

A modification was executed to COE-IA and technical direction was issued to provide for preparation of a Real Estate Planning Report.

o WBS 1.3.9 PROJECT MANAGEMENT

SRPO received and reviewed DRAFT GAO Report RCED/87-121, "A Look at Current Use of Funds and Cost Estimates for the Future." Comments were faxed to HQ (Blaney & Meyers) May 4, 1987.

SRPO received and reviewed the latest GAO report "Quarterly Report on DOE's Nuclear Waste Program as of March 31, 1987, (GAO/RCED-87-139FS)." No further action was deemed necessary.

A procurement request has been submitted to DOE-CH for additional computer terminals, PCs and printers. This is about \$50K worth of equipment to support the office operation in Texas.

During May, a QA audit was conducted of ANL, Argonne, Illinois. No major deficiencies were found. The overall Peer Review process is functioning well.

QA surveillance of the sample record at LLNL and USGS were completed. No serious problems were found, but follow-up by SRPO is continuing in two areas of possible deficiencies.

QA audit of LBL resulted in three findings and three observations. The main area of concern involved failure to obtain SRPO review and approval of their technical plans and procedures, indoctrination and training of technical procedures and the failure to meet other contract commitments.

QA Surveillance No. S-SRPO-87-006-I (Technical Review Process) was completed with no deficiencies being observed. The report will recommend some areas that could be improved.

3. SUMMARY FUNDING/COST STATUS (See Item 5 for variance analysis): (status as of 05/31/87)

3.a. EXPLORATORY SHAFT FACILITY IN SALT

3.b. CUMULATIVE TO DATE (in Thousands)

Item	Baseline	Funding	Current Estimate	Item	Amount
TOTAL PROJECT COST (TPC)	394,588	43,820	394,588	REMAINING CONTINGENCY	48,189
DOE	394,588	43,820	394,588	FUNDS APPROPRIATED	46,671
NON-DOE	-	-	-	FUNDS AVAILABLE	46,671
TOTAL ESTIMATED COST (TEC)	-	25,118	203,455	FUNDS AUTHORIZED TO CONTRACTOR	43,820
DOE	-	25,118	203,455	COSTS ACCRUED	36,754
NON-DOE	-	-	-	CONTRACTOR COMMITMENTS (uncosted)	930

3.c. BASELINE DOCUMENTATION

DOCUMENT TITLE Salt Repository Project Plan APPROVING OFFICIAL (Draft) DATE 07/24/86

4. SUMMARY SCHEDULE STATUS (See Item 5 for variance analysis) (Status as of 05/31/87):

PHASE	START DATE		COMPLETION DATE		PERCENT COMPLETE	
	BASELINE	FORECAST/ACTUAL	BASELINE	FORECAST DATE	BASELINE	ACTUAL
DESIGN Exploratory Shaft (Title I)	12/81	12/84 A	7/85	1/86 A	100	100
	(Title I) 2/86	2/86 A	2/88	2/88	38	35
PROCUREMENT Exploratory Shaft	1/88	1/88	8/89	8/89	0	0
CONSTRUCTION Exploratory Shaft	2/89	2/89	5/92	5/92	0	0
OPERATIONS Exploratory Shaft	11/91	11/91	6/93	6/93	0	0

5. SIGNIFICANT PROBLEMS/VARIANCE ANALYSIS
 5.a. PROBLEMS, IMPACT ON PROJECT, CORRECTIVE ACTIONS

OVERALL

Continuing delays encountered in several areas account for the unfavorable -\$14.9 million schedule and -\$5.9 million cost variances to date. Notable among these are the Waste Package, Site, Exploratory Shaft, and Land Acquisition WBS elements. Specific discussion of the milestones involved are shown below.

SYSTEMS

	Milestone	Baseline	Forecast
1.	Draft MGDS Requirements Document to HQ for Review and Approval.	01/87	06/87

Reason: A draft of the SRP Requirements Document (RD), Rev. 3, was delivered to HQ in January, 1987, for management review. Its principal deficiency was the incomplete development of a functional analysis (Section 4). The need for this functional analysis and an HQ directed structure were not identified until September, 1986. HQ management review comments were received at SRPO 3/13/87. Incorporation of comments is expected to be complete by June 30, 1987.

Impact: The RD supports other significant documents such as the Surface Investigation Plan (SIP). Significant changes to the RD will delay the SIP.

Corrective Action: OGR (Frei) and SRPO (Appel) agreed on March 27 that Rev. 4 of the SRP RD would be scheduled for delivery to OGR in June, 1987, to meet the above milestone and that OGR would conduct its review for approval concurrent with SRP's Technical Review of the document, contingent upon OGR participation in the resolution of the technical review comments. This document is also intended to include the Subsystem Design Requirements needed to start ACD for Repository and Waste Package.

	Milestone	Baseline	Forecast
2.	Draft MGDS Description Document to HQ for Review and Approval.	01/87	06/87

Reason: A draft of the SRP System Design Description (SDD) based upon EA information was delivered to HQ in January, 1987, for management review. It was decided that the SDD should be based upon the SCP-CDR. Reissue and review will be concurrent with the RD.

Impact: None.

Corrective Action: OGR (Frei) and SRPO (Appel) agreed on March 27 that an SRP SDD based on SCP-CDR information will be delivered to OGR in June, 1987, to meet the above milestone.

5.1. PROBLEMS, IMPACT ON PROJECT, CORRECTIVE ACTIONS

	Milestone	Baseline	Forecast
3.	Configuration Management Plan received at HQ for review.	05/87	06/87
	<u>Reason:</u> Interval review resulted in more intensive revision than planned.		
	<u>Impact:</u> None.		
	<u>Corrective Action:</u> Additional resources have been applied to expedite completion.		

WASTE PACKAGE

	Milestone	Baseline	Forecast
1.	WP Postclosure Compliance Strategy Report to HQ for Review and Approval.	03/87	08/87
	<u>Reason:</u> The Postclosure Compliance Strategy Report is dependent upon the results of a workshop on the subject to be conducted by HQ. This workshop has been postponed several times.		
	<u>Impact:</u> The delay in scheduling the Waste Package Workshop may impact the acceptance of SCP Chapter 7 and part of Chapter 8. Writing of the SCP will go forward, but will not incorporate any guidance from HQ since the workshop has been delayed.		
	<u>Corrective Action:</u> Resolve comments and issue the updated report following the HQ workshop to be held in June. Three months will be required to revise and resubmit the report.		

	Milestone	Baseline	Forecast
2.	Initiate Testing on New Candidate Alternate Materials.	03/87	07/87
	<u>Reason:</u> Delays in incorporating review comments into PNL's test plan have caused the start of testing to be delayed. The test plan is under review by ONWI.		
	<u>Impact:</u> Stand by costs will accumulate.		
	<u>Corrective Action:</u> ONWI expedite review and recommendation to SRPO.		

5.3. PROBLEMS, IMPACT ON PROJECT, CORRECTIVE ACTIONS

- | | <u>Milestone</u> | <u>Baseline</u> | <u>Forecast</u> |
|----|--|-----------------|-----------------|
| 3. | Waste Package SCP Design Report for SF, DHLW, and WV Waste to HQ. | 03/87 | 07/87 |
| | <u>Reason:</u> Incorporation of review comments were delayed by diversion of key national lab staff to SCP activities. | | |
| | <u>Impact:</u> None, sufficient slack exists to absorb the delay and still use the report as an SCP reference. | | |
| | <u>Corrective Action:</u> None necessary. SRPO to receive the report for review and submittal by June 20. | | |
| 4. | Detail Test Plan for All Spent Fuel Tests Received at HQ. | 03/87 | 07/87 |
| | <u>Reason:</u> Development of the outyears portion of the test plan by PNL has been delayed due to SCP involvement. | | |
| | <u>Impact:</u> Further delays could impact SCP Chapter 8 where all required testing is described. | | |
| | <u>Corrective Action:</u> Plan to be received by SRPO by June 20. SCP Chapter 8 authors will communicate with PNL for initial information. | | |
| 5. | Issue Detail Test Plans for All General Corrosion Tests. | 03/87 | 07/87 |
| | <u>Reason:</u> Test plan development by PNL was delayed due to SCP involvement. | | |
| | <u>Impact:</u> Possible delay to SCP Chapter 8. | | |
| | <u>Corrective Action:</u> Test plan is being expedited. SCP Chapter 8 authors will communicate with PNL for initial information. | | |
| 6. | Final WP Design Requirements for ACD to HQ for Review and Approval. | 04/87 | 06/87 |
| | <u>Reason:</u> The WP Advanced Conceptual Design requirements will be included as part of the MGDS RD now scheduled for delivery in June. | | |
| | <u>Impact:</u> No impact since the ACD has been delayed for two years. Further slippage of the RD could cause the start of Waste Package ACD to be delayed as well as the Surface Investigation Plan (SIP), which constrains many Site activities. | | |
| | <u>Corrective Action:</u> Concurrent review of the RD by HQ and SRPO and a cooperative effort in resolving comments. | | |

5.1. PROBLEMS, IMPACT ON PROJECT, CORRECTIVE ACTIONS

SITE

- | | Milestone | Baseline | Forecast |
|----|--|----------|----------|
| 1. | Draft Surface Investigation Plan (SIP) to HQ. | 03/87 | 08/87 |
| | <u>Reason:</u> Revised logic for the preparation of the SIP, including a constraint of Rev. 4 of the RD being prior to a review of the draft SIP, has caused this delay. | | |
| | <u>Impact:</u> Delayed start of the EDBH and ESF on a day-for-day basis with the added delays of the SIP. | | |
| | <u>Corrective Action:</u> A work around plan will allow a draft of the SIP to be sent to HQ for review earlier than forecast above (07/87). | | |
| 2. | HQ Approves SIP for Transmittal to NRC and States. | 04/87 | 10/87 |
| | <u>Reason:</u> See Draft SIP submittal above. | | |
| | <u>Impact:</u> See Draft SIP submittal above. | | |
| | <u>Corrective Action:</u> See Draft SIP submittal above. | | |
| 3. | Environmental Data Collection for Surface Based Characterization Activities Begins. | 05/87 | 03/88 |
| | <u>Reason:</u> The delay in the SIP caused the projected initiation of the environmental field program to slip. | | |
| | <u>Impact:</u> Delayed start of all field work will occur on a day-for-day basis with the added delay in the SIP. | | |
| | <u>Corrective Action:</u> A work around plan would allow a draft of the SIP to be sent for HQ review earlier than projected above. This work around entails shorter and concurrent reviews by all parties, as well as non-NRC related portions of the Environmental SSP's not being constrained by NRC review. | | |
| 4. | Draft Environmental Site Study Plans Received at HQ for Review. | 06/87 | 10/87 |
| | <u>Reason:</u> See Draft SIP submittal above. | | |
| | <u>Impact:</u> See Draft SIP submittal above. | | |
| | <u>Corrective Action:</u> A proposal is being reviewed that would change the current constraint of the draft SIP on the initial submittal of the environmental SSPs to one of the draft SIP on the final submittal of the SSPs. This would allow submittal of the SSPs to HQ for review by July, 1987. | | |

5.1. PROBLEMS, IMPACT ON PROJECT, CORRECTIVE ACTIONS

	<u>Milestone</u>	<u>Baseline</u>	<u>Forecast</u>
5.	Final Environmental Site Study Plans (SSPs) Received at HQ for Baselineing.	06/87	.03/88
	<u>Reason:</u> See Draft SSPs submittal above.		
	<u>Impact:</u> See Draft SSPs submittal above.		
	<u>Corrective Action:</u> See Draft SSPs submittal above. September/October delivery to HQ possible if the work around plans are approved and successfully implemented.		
6.	Hydrology Program Plan to HQ for Review and Approval	07/87	01/88
	<u>Reason:</u> Diversion of staff to support SCP Activities and the delay in the SIP have caused delivery of the Hydrology Program Plan to be delayed.		
	<u>Impact:</u> None, sufficient slack exists.		
	<u>Corrective Action:</u> None necessary.		
7.	Recommendation to Proceed with 3-D Seismic Survey Received at HQ for Approval	08/87	08/88
	<u>Reason:</u> Delays in the SIP have delayed the 3-D Seismic Survey SSP.		
	<u>Impact:</u> None sufficient slack exists.		
	<u>Corrective Action:</u> None necessary		
8.	Surficial Geologic Mapping of Site Area Completed.	08/87	Fore(t 12/88
	<u>Reason:</u> Delays in the SIP have delayed the geologic mapping SSP.		
	<u>Impact:</u> None, sufficient slack exists.		
	<u>Corrective Action:</u> None necessary.		

5.1. PROBLEMS, IMPACT ON PROJECT, CORRECTIVE ACTIONS

REPOSITORY

- | | <u>Milestone</u> | <u>Baseline</u> | <u>Forecast</u> |
|----|--|-----------------|-----------------|
| 1. | Final Waste Emplacement Mode Study Report to HQ for Review. | 12/86 | 06/87 |
| | <u>Reason:</u> The estimate of time needed for review, comment resolution, and processing revisions was inadequate. SRPO revisions are being made. | | |
| | <u>Impact:</u> Sufficient slack exists to absorb the delay. | | |
| | <u>Corrective Action:</u> SRPO is expediting comment resolution and report preparation. | | |
| 2. | Final Draft Repository SCP Conceptual Design Report to HQ for Review and Approval. | 03/87 | 06/87 |
| | <u>Reason:</u> Review, comment, and comment resolution time is taking longer than planned. | | |
| | <u>Impact:</u> Sufficient slack exists to absorb the present delay. | | |
| | <u>Corrective Action:</u> SRPO is expediting comment resolution. | | |
| 3. | Final Draft Repository Subsystem Design Requirements for ACD to HQ for Review and Approval. | 03/87 | 06/87 |
| | <u>Reason:</u> The Repository ACD requirements will be included as part of the MGDS RD. RD Rev. 4 is now scheduled for submittal in June. | | |
| | <u>Impact:</u> The delay of the start of the Repository ACD is possible if the RD is not approved in a timely manner. The current version of the RD is being used to support project requirements. | | |
| | <u>Corrective Action:</u> Concurrent review of the RD by HQ and SRPO and cooperative resolution of comments. | | |

5.4. PROBLEMS, IMPACT ON PROJECT, CORRECTIVE ACTIONS

REGULATORY AND INSTITUTIONAL

Licensing

	<u>Milestone</u>	<u>Baseline</u>	<u>Forecast</u>
1.	SRP Requests HQ to start On-Site Review (of SCP Chapters).	03/87	06/87

Reason: The first major section which was to be available for on-site review was Section 8.4 (Site Preparation), originally scheduled for April, 1987. This date has been slipped two months (to June, 1987) to accomodate the 30% Design Review at PB/PB-KBB.

Impact: None. The forecast date will support the current SRP SCP schedule.

Corrective Action: None necessary.

	<u>Milestone</u>	<u>Baseline</u>	<u>Forecast</u>
2.	Licensing Support System (LSS) Document Collection Procedure to HQ for Review.	04/87	TBD

Reason: The lack of HQ guidance on the nature of this activity precludes a forecast being made for a completion date at this time.

Impact: None at this time.

Corrective Action: HQ expedite guidance.

Environmental Compliance

	<u>Milestone</u>	<u>Baseline</u>	<u>Forecast</u>
1.	Environmental Monitoring and Mitigation Plan Issued.	04/87	05/88

Reason: Based on direction by the OGR SRPO Environmental desk officer (J. Jones, 3/11/87), the EMMP is to be constrained by the publication of the SRP-SCP, currently scheduled for March, 1988. Allowing time for any modifications resulting from the SCP effort, the date for finalization of the EMMP is now scheduled for May, 1988.

Impact: Environmental data collection will begin without an approved plan.

Corrective Action: Milestone date should be changed based upon HQ direction.

5.1. PROBLEMS, IMPACT ON PROJECT, CORRECTIVE ACTIONS

	<u>Milestone</u>	<u>Baseline</u>	<u>Forecast</u>
2.	Socioeconomic Monitoring and Mitigation Plan Issued.	04/87	05/88
	<p><u>Reason:</u> Based on direction by the OGR SRPO Environmental desk officer (J. Jones, 3/11/87), the SMMP is to be constrained by the publication of the SRP-SCP, currently scheduled for March, 1988. Allowing time for any modifications resulting from the SCP effort, the date for finalization of the SMMP is now scheduled for May, 1988.</p> <p><u>Impact:</u> Socioeconomic activities at the site will begin without an approved plan.</p> <p><u>Corrective Action:</u> Milestone date should be changed based upon HQ direction.</p>		
3.	Environmental/Regulatory Compliance Plan (ERCP) Issued.	05/87	09/87
	<p><u>Reason:</u> On 4/1/87, OGR (D. Valentine) transmitted schedule direction for development of the ERCP to SRPO. The ERCPs for all three projects will be issued together.</p> <p><u>Impact:</u> SRP logic networks indicate the ERCP to be a constraint to the start of agency dialogues. Delays in the start of the dialogues would delay the start of the permitting process for field work.</p> <p><u>Corrective Action:</u> A work around plan is being developed.</p>		
4.	Complete and Sign C & C Agreement with State	06/87	12/87
	<p><u>Reason:</u> Texas has been reluctant to enter into C & C negotiations due in part, to organizational change in State government. Once begun, it is projected that negotiations will take at least six months.</p> <p><u>Impact:</u> C & C provisions of NWPA will not be met and may reflect back on DOE as being uncommunicative with the state.</p> <p><u>Corrective Action:</u> SRPO will again formally request Texas enter into C & C negotiations.</p>		

5.1. PROBLEMS, IMPACT ON PROJECT, CORRECTIVE ACTIONS

TEST FACILITIES

<u>Milestone</u>	<u>Baseline</u>	<u>Forecast</u>
1. Issue Final Test Summary Report for Asse Brine Migration	06/87	09/87
<u>Reason:</u> FRG has indicated that they plan to incorporate post-test data into the final report, which will increase the time needed to produce it.		
<u>Impact:</u> None.		
<u>Corrective Action:</u> None necessary.		

LAND ACQUISITION

1. SRP Submits Land Acquisition Plan to HQ.	<u>Baseline</u> 01/87	<u>Forecast</u> 08/87
<u>Reason:</u> Delays in signing the Interagency Agreement with the Army COE, including the need to incorporate State comments, have delayed the entire Land Acquisition process.		
<u>Impact:</u> Land Acquisition is being delayed, which delays the start of the field program.		
<u>Corrective Action:</u> None possible, slippage has occurred.		
2. SRP Authorizes Land Acquisition.	<u>Baseline</u> 02/87	<u>Forecast</u> 09/87
<u>Reason:</u> See 1. above.		
<u>Impact:</u> The start of the field program is being delayed.		
<u>Corrective Action:</u> See 1. above.		

5.1. PROBLEMS, IMPACT ON PROJECT, CORRECTIVE ACTIONS

	<u>Milestone</u>	<u>Baseline</u>	<u>Forecast</u>
3.	Land Access for EDBH and ESF Foundation Borings.	05/87	12/87
	<u>Reason:</u> See 1. above.		
	<u>Impact:</u> See 1. above.		
	<u>Corrective Action:</u> See 1. above.		

	<u>Milestone</u>	<u>Baseline</u>	<u>Forecast</u>
4.	Land Access for Deep and Shallow Hydronests.	05/87	12/87
	<u>Reason:</u> See 1. above.		
	<u>Impact:</u> See 1. above.		
	<u>Corrective Action:</u> See 1. above.		

PROJECT MANAGEMENT

	<u>Milestone</u>	<u>Baseline</u>	<u>Forecast</u>
1.	FY 1987 Baseline (Cost) Plan Received at HQ.	12/19/86	06/87
	<u>Reason:</u> It was impossible to prepare a reliable baseline plan until the impact of the HQ guidance provided in November/December 1986 was evaluated and the WAS for 1989 completed.		
	<u>Impact:</u> None.		
	<u>Corrective Action:</u> Expedite the completion of planning.		

	<u>Milestone</u>	<u>Baseline</u>	<u>Forecast</u>
2.	SRP Project Plan to HQ for Approval.	01/87	06/87
	<u>Reason:</u> The planned cost section of the Project Plan is constrained by the completion of the rebaselining of the project to reflect November/December HQ guidance. The rebaselining was completed in May as of April 30, 1987.		
	<u>Impact:</u> None.		
	<u>Corrective Action:</u> Expedite completion of the detail plans and complete the revised SRP Master Schedule.		

5.b. ITEMS REQUIRING HEADQUARTERS ACTION

0 None.

PROJECT MANAGER'S PROGRESS REPORT

PART II

PROJECT TITLE Salt Repository Project/OCRWM Program

8. MILESTONE LOG AS OF 05/31/87

SIGNIFICANT MILESTONES ACCOMPLISHED SINCE LAST REPORT	BASELINE DATE	ACTUAL DATE
* Land Agent Agreement Signed	12/86	05/12/87
* Final FY 1989 Project Validation Material Received at HQ.	03/13/87	05/28/87
* Preliminary Performance Report Received at HQ for Review and approval	05/87	05/15/87
Submit Comprehensive Summary of Data Available on Geoengineering Properties in Deaf Smith.	03/87	05/15/87
SIGNIFICANT MILESTONES OPEN	BASELINE DATE	FORECAST DATE
<u>SYSTEMS</u>		
* Draft MGDS Requirements Document Received at HQ for Review and Approval.	01/87	06/87
* Draft MGDS Description Document Received at HQ for Review and Approval.	01/87	06/87
Configuration Management Plan Received at HQ for Review.	05/87	06/87
<u>WASTE PACKAGE</u>		
* Report on Waste Package Postclosure Compliance Strategy Received at HQ for Review and Approval.	03/87	08/87
* Initiate Testing on New Candidate Alternate Materials.	03/87	07/87
* Waste Package SCP Design Report for Spent Fuel, DHLW, and WV Waste Received at DOE-HQ.	03/87	07/87
Detail Test Plan for all Spent Fuel Tests Received at HQ.	03/87	07/87
Issue Detail Test Plans for all General Corrosion Tests.	03/87	06/87
* Final Waste Package Design Requirements for Advanced Conceptual Design (ACD) Received at HQ for Review and Approval.	04/87	06/87
Issue Brine Migration Model Comparison Report	05/87	06/87

SIGNIFICANT MILESTONES OPEN	BASELINE DATE	FORECAST DATE
<u>SITE</u>		
* Draft Site Investigation Plan (SIP) to HQ.	03/87	08/87
* HQ Approves SIP for Transmittal to NRC and States.	04/87	10/87
* Environmental Data Collection for Surface Based Characterization Activities Initiated.	05/87	03/88
<u>REPOSITORY</u>		
Final Waste Emplacement Mode Study Report Received at HQ for Review.	12/86	06/87
* Final Draft Repository SCP Conceptual Design Report Received at HQ for Review and Acceptance.	03/87	06/87
* Final Draft Repository Subsystem Design Requirements for ACD Received at HQ for Review and Approval.	03/87	06/87
<u>REGULATORY & INSTITUTIONAL</u>		
SRP Requests HQ to Start On-Site Review (of SCP Chapters).	03/87	06/87
* EMMP Issued	04/87	05/88
* SMMP Issued	04/87	05/88
Licensing Support System (LSS) Document Collection Procedure Received At HQ for Approval.	04/87	TBD
* Environmental Regulatory Compliance Plan (ERCP) issued.	05/87	09/87
<u>LAND ACQUISITION</u>		
SRP Submits Land Acquisition Plan to HQ.	01/87	08/87
* SRP Authorizes Land Acquisition.	02/87	09/87
Land Access for EDBH and ESF Foundation Borings.	05/87	12/87
Land Access for Deep and Shallow Hydronests.	05/87	12/87

SIGNIFICANT MILESTONES OPEN		BASELINE DATE	FORECAST DATE
<u>PROJECT MANAGEMENT</u>			
* FY 1987 Baseline Plan Received at HQ.		12/19/86	06/87
SRP Project Plan to HQ for Approval.		01/87	06/87
KEY MILESTONES UPCOMING - NEXT THREE MONTHS 06/87 - 08/87		BASELINE DATE	FORECAST DATE
<u>SYSTEMS</u>			
* Reference Data Bases for Waste Package, Repository, and Site Received at HQ for Review.		06/87	06/87
Preliminary Report on Systems Performance Assessment Received at HQ for Review.		08/87	08/87
<u>SITE</u>			
* Draft Environmental Site Study Plans Received at HQ for Review.		06/87	10/87
* Final Environmental Site Study Plans Received at HQ for Baselineing.		06/87	03/88
Hydrology Program Plan to HQ for Review and Approval		07/87	01/88
Recommendation to Proceed with 3-D Seismic Survey Received at HQ for Approval.		08/87	08/88
Surficial geologic Mapping of Site Area Completed		08/87	12/88
<u>REPOSITORY</u>			
Initiate Seal Materials Testing.		06/87	06/87
Initiate Development of Design Requirements for Prototype Equipment Design.		08/87	08/87
<u>REGULATORY & INSTITUTIONAL</u>			
* Complete and Sign C&C Agreement with State.		06/87	12/87
SRP Implements Document Collection for LSS.		07/87	TBD

KEY MILESTONES UPCOMING - NEXT THREE MONTHS 06/87 - 08/87	BASELINE DATE	FORECAST DATE
* Draft SCP to HQ for Chapter Review.	08/87	08/87
<u>EXPLORATORY SHAFT FACILITY</u>		
Site specific In-Situ Test Plan Received at HQ.	08/87	08/87
<u>TEST FACILITIES</u>		
Issue Final Test Summary Report for Asse Brine Migration.	06/87	09/87
* Issue Off-Site Test Plan Details.	08/87	08/87

NOTE: * Headquarters Controlled Milestone

PROJECT TITLE: SALT REPOSITORY
 COST PERFORMANCE REPORT COMPARISON AS OF 05/31/87
 DOLLARS - IN THOUSANDS (ROUNDED)
 ALL AMOUNTS COMPUTED PRIOR TO ROUNDING

ATTACHMENT 1
 PAGE 1 OF 3

WBS ELEMENT	CURRENT PERIOD COST	FISCAL YEAR CUM TO DATE	FISCAL YEAR AT COMPLETION	
			LATEST REVISED ESTIMATE	ORIGINAL ESTIMATE
SYSTEMS				
Management and Integration	91	974	1,335	1,225
Systems Engineering	103	802	1,639	1,833
Technical Data Base Management	53	407	1,057	1,003
Total Systems Performance Assessment	301	2,104	3,266	2,908
Systems Subtotal	548	4,286	7,297	6,969
WASTE PACKAGE				
Management and Integration	71	559	943	1,095
Waste Package Environment	170	1,166	2,228	1,719
Waste Form and Materials Testing	418	2,780	4,335	4,697
Design, Fabrication, and Prototype Testing	197	1,417	2,258	2,172
Waste Package Performance Assessment	48	423	781	778
Waste Package Subtotal	904	6,345	10,545	10,461
SITE				
Generic	1,623	10,964	18,439	---
Permian	545	5,109	7,669	26,493
Paradox	191	1,685	2,160	---
Gulf Coast	36	841	1,175	---
Site Subtotal	2,394	18,599	29,443	26,493
REPOSITORY				
Management and Integration	885	6,270	9,852	10,538
Development and Testing	505	4,585	7,856	6,888
Facilities	152	1,801	2,557	875
Operations and Maintenance	(1)	5	5	---
Decommissioning	0	(1)	3	---
Repository Performance Assessment	93	1,081	1,401	1,267
Repository Subtotal	1,635	13,741	21,674	19,568

PROJECT TITLE: SALT REPOSITORY
 COST PERFORMANCE REPORT COMPARISON AS OF 05/31/87
 DOLLARS - IN THOUSANDS (ROUNDED)
 ALL AMOUNTS COMPUTED PRIOR TO ROUNDING

ATTACHMENT 1
 PAGE 2 OF 3

MBS ELEMENT	CURRENT PERIOD COST	FISCAL YEAR CUM TO DATE	FISCAL YEAR AT COMPLETION	
			LATEST REVISED ESTIMATE	ORIGINAL ESTIMATE
REGULATORY AND INSTITUTIONAL				
Management and Integration	91	428	600	524
Licensing	923	4,753	7,349	6,417
Environmental Compliance	256	2,444	4,601	4,776
Communication and Liason	206	1,778	2,888	2,967
Financial and Technical Assistance	0	1,314	5,026	6,056
Regulatory/Institutional Subtotal	1,476	10,718	20,464	20,740
EXPLORATORY SHAFT				
Management and Integration	563	4,141	7,997	8,545
Site Preparation	66	410	613	661
Surface Facilities	12	135	126	126
First Shaft	106	699	1,128	1,229
Second Shaft	22	99	209	242
Subsurface Excavations	24	104	107	124
Underground Service Systems	22	105	286	326
Operations	0	536	515	---
Testing	117	1,804	4,214	4,272
Decommissioning	---	---	---	---
Exploratory Shaft Subtotal	933	8,034	15,195	15,525
TEST FACILITIES				
Management and Integration	22	169	818	461
Testing	32	98	128	459
New Facility Acquisition	---	---	---	---
Test Facilities Subtotal	54	267	946	920

PROJECT TITLE: SALT REPOSITORY
 COST PERFORMANCE REPORT COMPARISON AS OF 05/31/87
 DOLLARS - IN THOUSANDS (ROUNDED)
 ALL AMOUNTS COMPUTED PRIOR TO ROUNDING

WBS ELEMENT	CURRENT PERIOD COST	FISCAL YEAR CUM TO DATE	FISCAL YEAR AT COMPLETION	
			LATEST REVISED ESTIMATE	ORIGINAL ESTIMATE
LAND ACQUISITION				
Management and Integration	17	107	184	184
Exploratory Shaft Repository	0	0	10,331	10,520
Land Acquisition Subtotal	17	107	10,515	10,704
PROJECT MANAGEMENT				
Management and Integration	1,006	5,979	19,285	18,104
Project Control	183	1,535	2,419	2,574
Quality Assurance	214	1,502	2,102	2,217
Project Management Subtotal	1,403	9,016	23,806	22,895
SUBTOTAL	9,365	71,113	139,885	134,275
EE	540	4,050	6,728	6,728
MANAGEMENT RESERVE	---	---	3,281	3,281
TOTAL	9,905	75,163	149,894*	144,284

* Latest Revised Estimate is under review.
 Fiscal year overrun is not expected.

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