

memorandum

*see pocket 5
for enclosure*

TE: JUN 24 1987

TO:
ATTN OF: RW-241

SUBJECT: Minutes of the May 5-7, 1987, Environmental Coordinating Group Meeting

TO: Distribution

This memorandum transmits the attached minutes of the May 5-6, 1987, plenary session of the Environmental Coordinating Group (ECG). Also attached as Tabs O through V are the minutes (and handouts) for the May 6, 1987, Environmental Planning Working Group meeting and the May 7, 1987, Environmental Regulatory Compliance Working Group meeting. Please submit any corrections or additions to these minutes to the appropriate group chairperson by July 31, 1987.

The next ECG meeting is scheduled for September 15-17, 1987, in Washington, D.C. A reference package transmitting the revised minutes of the May meeting, as well as detailed information on the September meeting agenda and location, will be sent to you in August.

Should you have any questions about the minutes or the next ECG meeting, please contact me at (202) 586-5679 or Susan Peterson at (202) 586-4957.

Jerry
Gerald J. Parker, Chief
Site Evaluation Branch
Office of Civilian Radioactive
Waste Management

87 JUN 30 P2:27
WM POKET CONTROL CENTER

Attachments

WM Record File	WM Project	1
<u>109</u>	Docket No.	
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	LPDR	
Distribution:	<i>(Scan ticket)</i>	
<u>JSL</u>		
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PDR WASTE
WM-1 PDR

ECG Members:

- R. Blaney, RW-222
- B. Gale, RW-223
- D. Alexander, RW-232
- C. Newton, RW-24
- R. Sharma, RW-241
- L. Desell, RW-32
- L. Marks, RW-33
- V. Trebules, RW-42
- M. Wisniewski, CP-23
- C. Borgstrom, EH-25
- R. Mussler, GC-11
- S. Whitfield, BWIP
- B. Jankus, NNWSI
- G. Appel, SRPO
- J. Friedman, Weston

cc:

- S. Kale, RW-20
- T. Isaacs, RW-20
- J. Bresee, RW-22
- D. August, RW-221
- A. McDonough, RW-223
- R. Stein, RW-23
- M. Frei, RW-231
- C. Hanlon, RW-232
- S. Singal, RW-232
- J. Knight, RW-24
- D. Valentine, RW-241
- J. Jones, RW-241
- S. Peterson, RW-241
- R. Philpott, RW-33
- B. Easterling, RW-42
- G. King, RW-43
- M. J. Byrne, RW-10
- S. Frank, EH-25
- C. Bradley, EH-25
- W. Brennan, CP-23
- J. Anttonen, BWIP
- J. Mecca, BWIP
- J. Comins Rick, BWIP
- J. Neff, SRPO
- R. Wunderlich, SRPO
- W. White, SRPO
- A. Handwerker, SRPO
- D. Williamson, SRPO
- T. Ladino, SRPO
- D. Vieth, NNWSI
- M. Blanchard, NNWSI
- D. Gassman, NNWSI
- W. Dixon, NNWSI
- S. Mann, DOE-Chicago
- P. Kearns, DOE-Chicago
- V. Prouty, DOE-Chicago
- R. Rothman, DOE-Chicago

- A. Dvorak, ANL
- G. Marmer, ANL
- E. Pentecost, ANL
- D. Siefken, Weston
- G. Shaw, Weston
- C. McDavid, Weston
- A. Vogel, Weston
- J. Gibson, Weston
- J. Munroe, Weston
- L. Glass, SRA
- C. Jupiter, SRA
- D. Toft, SRA
- G. Dunbar, CDM
- W. Parker, CDM
- L. Brown, CDM
- E. Bentz & Associates, Inc.
- T. Page, Battelle/PNL
- J. States, Battelle/PNL
- M. Dussman, SAIC
- G. Fasano, SAIC
- M. Foley, SAIC
- E. McCann, SAIC
- E. Stenehjem, ONWI
- R. Halfmoon, Nez Perce
- J. H. Reuben, Nez Perce
- F. Kugzruk, Nez Perce
- G. Lane, Nez Perce/Umatilla
- R. Burke, Umatilla
- L. Calkins, Umatilla
- E. Patawa, Umatilla
- D. Hester, Umatilla
- M. Sampson, Yakima
- R. Jim, Yakima
- J. Hovis, Yakima
- S. Hart, Yakima
- J. Wittman, Yakima
- S. Frishman, TX
- J. Reed, TX
- R. Storey, UT
- R. Loux, NV
- C. Johnson, NV
- C. Malone, NV
- D. Christy, MS
- R. Forsythe, MS
- K. Atchison, MS
- D. Provost, WA
- E. Caywood, WA
- T. Husseman, WA
- H. Bohlinger, LA
- R. Paris, OR
- G. Toombs, OR
- R. Scharber, TN
- N. Carnes, SAIC/Oak Ridge

- J. Linehan, NRC
- N. Montgomery, EEI
- S. Kraft, EEI
- J. Gervers, Latir Energy
Consultants
- B. Foster, Nat'l Conference for
State Legislatures
- D. Hoyle, Atomic Industrial
Forum
- J. Siegel, Atomic Industrial
Forum
- R. Palm, Clark County, NV

FR		DATE OF DOCUMENT	DATE RECEIVED	NO
Parker, DOE		6/24/87	7/8	MM-87318
TO		LTR	MEMO	REPORT
JLinehan		ORIG.	XX	OTHER
CLASSIF		ACTION NECESSARY <input checked="" type="checkbox"/>		CONCURRENCE <input type="checkbox"/>
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REG. NO.		DATE ANSWERED		BY 7/22
DESCRIPTION (Must Be Unclassified)		FILE CODE:		
Minutes of May 5-7, 87 Environmental Coordinating Group Meeting		109		
ENCLOSURES		REFERRED TO	DATE	RECEIVED BY
→ J DAN		JJ Linehan	6/8	
REMARKS				
CANCEL TRKT. NO REVIEW OR RESPONSE IS REQUIRED. IT DEALS WITH AN AREA WE'RE NOT FOLLOWING.				
John Linehan				

MINUTES

*See Memo from
Walker 6-24-87*

ENVIRONMENTAL COORDINATING GROUP MEETING

May 5-7, 1987

(109)

SEATTLE, WASHINGTON

MEETING MINUTES
PLENARY SESSION
of the
ENVIRONMENTAL COORDINATING GROUP
MAY 5-6, 1987
SEATTLE, WASHINGTON

INTRODUCTION

The meeting was opened by the Chairman of the Environmental Coordinating Group, Jerry Parker, Department of Energy-Headquarters (DOE-HQ), who welcomed participants. He emphasized that the purposes of the Environmental Coordinating Group (ECG) meetings are to serve as an information exchange, to provide a forum for discussion, and to give all participants the opportunity to be informed about the details of the on-going environmental activities of DOE's nuclear waste repository program.

Larry Calkins, Confederated Tribes of the Umatilla Indian Reservation, raised a question about the minutes of the January ECG meeting. The January minutes state (on page 5, Section V, paragraph 2) that State and Indian Tribe representatives had requested that DOE initiate baseline data collection efforts for the Environmental Impact Statement (EIS) prior to EIS scoping. L. Calkins stated that he would prefer that EIS scoping take place before baseline data collection.

J. Parker discussed the agenda (Minutes Tab A) and requested that all participants sign the attendance sheets (Minutes Tab B). He recommended that participants refer to the draft "Environmental Program Overview" found at Tab K of their pre-meeting reference package, for clarification of environmental program components.

ACTION ITEMS FROM JANUARY ECG MEETING:

J. Parker discussed the list of action items from the January ECG meeting, and addressed the progress that has been made in completing each item. (Action items resulting from the current ECG meeting are included at Minutes Tab C).

- Participation by States and Indian Tribes in working group meetings.

At the previous ECG meeting, the States and Indian Tribes had requested the opportunity to participate in the various working groups (e.g., Environmental Regulatory Compliance Working Group [ERCWG] and Environmental Planning Working Group [EPWG]), and be informed of their activities. J. Parker announced that this request has been positively addressed. He referenced a memo (found at Tab A of the pre-meeting reference package) from Stephen Kale, DOE Associate Director for Geologic Repositories, asking Coordinating Group chairmen to develop mechanisms for working with representatives of the States and Indian Tribes in resolving issues, and using the coordinating groups as an aspect of consultation and cooperation. J. Parker invited representatives of the States and Indian Tribes to participate in the ERCWG and EPWG meetings after the ECG meeting plenary session.

- Environmental baseline information for Environmental Monitoring and Mitigation Plans (EMMPs).

The representatives from the State of Nevada had expressed concern at the January ECG meeting about the level of background environmental information upon which the EMMPs would be based. J. Parker assured participants that DOE will collect an adequate data base prior to beginning any site characterization activities which have a potential for significant environmental impact. He referred participants to a letter from Ben Rusche, Director of the Office of Civilian Radioactive Waste Management, to Governor Richard Bryan of Nevada (reference package Tab G), in which Mr. Rusche agreed that "site-specific environmental data will be collected before and during site characterization activities. These data will be used to monitor those aspects of the site that have the potential for experiencing significant impacts".

J. Parker noted that the issue is sufficiently important that a separate agenda item was allotted to discussing it at the plenary session of the ECG (9:15 a.m., May 6), in addition to its discussion as an action item.

- o Timing of EEMP review coordinated with Environmental Regulatory Compliance Plan (ERCP).

Texas representatives had raised the concern at the January ECG meeting that it would be difficult for them to review the EEMP except in conjunction with the ERCP. In response to this concern, the Salt Repository Project Office (SRPO) agreed to a separate schedule from the Federal sites for EEMP review. Although Texas representatives received the EEMP on December 1, 1986, as did Washington and Nevada, the State of Texas representatives will submit their comments after September 1, 1987, when the ERCP is released.

- o DOE Office of Environmental Audits Survey of the Hanford Reservation.
- o DOE Office of Environmental Audits Survey of the Nevada Test Site.

Steve Frank, DOE Office of Environment, Safety and Health (EH), reported on the on-going activity reviews at Hanford and Nevada. S. Frank stressed, first, that the surveys are not environmental compliance audits and, second, that they are surveys of the entire DOE facility, not just the nuclear waste-related operations. DOE is looking at its existing operations to identify potential impacts to safety, health and the environment, to address critical on-going impacts, and to prioritize other impacts. Impacts are classified into four categories: (1) life threatening (demanding immediate attention); (2) environmental, health or safety risk (response need not wait until end of survey); (3) lower risk (to be considered in multi-year budget reviews); and (4) administrative non-compliance. A more complete description of the survey is included at Tab D of these minutes.

EH will meet with field personnel and representatives of States, affected Indian Tribes and other parties to identify issues, carry out field work, prepare the draft report, review its technical accuracy and risk categorization, revisit the site in 2-3 months for additional in-depth data collection, analyze data, prepare an interim report on each site, and develop a summary report covering both sites.

The currently projected schedule for this work is:

<u>Activity</u>	<u>Dates</u>	
	Hanford	Nevada Test Site
Meeting with States and Indian Tribes	7/14 - 7/18/86	5/7/87
Field work	8/18 - 9/5/86	Mid-June, 1987 (May be delayed due to testing)
Draft report	7/87	7/87
Sampling & analysis	4 - 6/87	11/87
Analytic review	3 months	3/88
Report write-up	3 months	
Interim report	1/88	7/88

Don Provost, Washington State representative, expressed concern that violations of environmental regulations are ongoing at Hanford, even as the EH study is being conducted. He said that he is particularly worried about iodine contamination at the Hanford Reservation.

Carl Johnson, Nevada representative, indicated that he had been told a different date for the EH meeting, (announced by S. Frank for May 7), and had received no paperwork about it. S. Frank checked with his office, and reported back that the State had been sent paperwork on the meeting, although the Nevada State Nuclear Waste Project Office may not have received notification from the other State agency. As a result of the ECG meeting discussion, the confusion regarding dates was corrected. S. Frank agreed to provide a progress report on this activity at the September ECG meeting (Action Item S-1).

- New overall schedule and implications for Environmental Impact Statement (EIS)

At the January ECG meeting, J. Parker had suggested that the schedule for the EIS may change as a result of Congressional budget review, and in response to amendments to the Mission Plan which were to be released after the conclusion of the January meeting. Because neither of these activities had occurred at the time of the January ECG meeting, he could not provide specific information until now. The schedule change

has major programmatic consequences; therefore, J. Parker noted that it would be addressed as a separate agenda item (8:15 a.m., May 6).

- Environmental checklists from Hanford Reservation to Washington State representatives.

Steve Whitfield, DOE/BWIP, reported that 37 environmental checklists, covering activities from 1977 to the present, had been sent to Washington State in response to the request for them made at the January ECG meeting. Washington State representatives expressed dissatisfaction with the materials they had received. They were not, according to the recipients, clear and straightforward, and would need to be analyzed and evaluated. Of particular concern was the lack of information on existing contamination at Hanford and, possibly, on the BWIP site.

Jack Wittman, representative of the Yakima Indian Nation, suggested that DOE sponsor a workshop to explain the use and formulation of the checklists by going over specific examples of activities covered by the checklists. S. Whitfield agreed to hold a workshop after all participants had completed a retrospective review of the checklists (Action Item S-2). BWIP currently has such a review underway.

Once again, Washington representatives expressed concern that DOE would not comply with regulations, would begin site characterization prior to completion of the ERCP, would only comply with those selected regulations that would not slow the process, and would not keep the States and Indian Tribes informed of DOE activities.

J. Parker emphasized that the ERCP is only a planning and management tool for DOE, and that DOE will be in compliance with regulations both before and after the ERCP is released. He reiterated the position of B. Rusche and Secretary Herrington that environmental protection will not be jeopardized by DOE activities.

ENVIRONMENTAL MONITORING AND MITIGATION PLAN (EMMP) OVERVIEW

Jay Jones, DOE/HQ, presented an update and overview of progress on the draft EMMPs (Tab E of this package).

Terry Husseman, Washington State representative, expressed concern that DOE would start large scale hydrological testing before the EMMP and ERCP are released. S. Whitfield, DOE/BWIP, responded that planning documents are separate from compliance and monitoring activities. The planning documents

are a management tool for DOE, and are a useful mechanism for working with the affected parties to ensure that all potential impacts are evaluated and monitored; compliance with regulation will take place regardless of when plans are available.

D. Provost stressed that, because the Hanford site is already contaminated, it is necessary to assess the degree of contamination before activities begin. He emphasized that baseline data on existing contamination have not been made available to the State. A discussion ensued regarding the disposal of iodine on the Hanford Reservation as a result of defense wastes. D. Provost stressed that the presence of iodine, which illustrates the problem of existing contamination, will have a bearing on site selection and should be included in the EMP. S. Whitfield agreed to investigate the study on iodine releases and report back on the matter at the next ECG meeting (Action Item S-3).

Betty Jankus, DOE/NNWSI, reiterated that the EMP is an early draft document, as requested by the States and affected Indian tribes, which will be revised as a result of consultation. It must be viewed as part of a progression of information development, not as an end-all document. She acknowledged that it is difficult to evaluate the EMP except in the context of the Site Characterization Plan (SCP) and other plans. However, because the States and Indian Tribes have requested the opportunity for an early review of the draft EMP, it is not possible to incorporate comparison with other documents in this first round of review.

J. Parker emphasized that the information provided in the Environmental Assessments (EAs), the 23,000 public comments on the EAs, and the Comment Response Document provide a base of information for productive discussion. The EMP itself is not required by statute; it is an effort by DOE to ensure that responsibilities for environmental protection are met during site characterization as required by Section 113 of the Act. The EMP also provides an open forum for discussion with States and affected Indian Tribes.

Nevada representatives expressed concern that the data in the EAs lack the specificity they consider necessary for establishing the baseline environmental conditions. They expressed the need for a complete environmental survey prior to characterization in order to evaluate whether or not there is a significant environmental impact which should be monitored and mitigated during site characterization. J. Parker responded that the EMP continues to be an open, evolving document which will incorporate information derived from the SCP hearings. Such issues as the kind of data-base needed and approaches to mitigation will be resolved through on-going consultation.

C. Johnson, of Nevada, reiterated that the current environmental situation is not known and that pre-activity data collection is needed to assess what the impacts are. He emphasized that it is not possible to discuss impacts without knowing about the current environmental condition. J. Parker stressed that DOE will conduct pre-activity data collection in those areas which the Department identifies as subject to potentially significant adverse impact. He expressed confidence that enough information is known and presented in the EAs to begin a useful dialogue. EMMPs will be completed before potentially endangering activities are undertaken. The environmental baseline information upon which the EIS will be based will be collected as part of the "site investigations" described in the Siting Guidelines (10 GFR 960).

S. Whitfield, DOE/BWIP, discussed the progress on BWIP's EEMP (Tab F). He provided a chronological update, and discussed comments from affected parties regarding key policy and technical issues. He provided preliminary responses to those questions raised by States and Indian Tribes.

B. Jankus, DOE/NNWSI, reported on the progress on the NNWSI EEMP (Tab G). She discussed the purpose and scope of the NNWSI site characterization environmental monitoring and mitigation program. She identified the technical disciplines for environmental monitoring as historic preservation, threatened and endangered species, air quality and radiological safety. She discussed the comments received from the State of Nevada, and DOE's position on each comment, and provided a schedule for EEMP development.

Bill White, DOE/SRPO, discussed the progress on the SRPO EEMP (Tab H). The State of Texas will not formally submit comments on the EEMP until the ERCP is released; therefore, B. White discussed comments submitted by Mississippi and Utah. He stressed that many comments refer to the EAs, rather than to the EEMPs.

J. Parker summarized the discussion on EEMPs. He concluded by saying that the EEMPs suggest what studies need to be conducted to meet the requirements of Section 113(a) of the Act. The Environmental Study Plans will detail how those requirements will be met.

ENVIRONMENTAL IMPACT STATEMENT (EIS) SCHEDULE

J. Parker discussed the current plans and schedule for developing the EIS (Tab I). He said that as a result of amendments to the Mission Plan, we are now operating within a 1993-94 time-frame, with scoping to take place in 1989.

ENVIRONMENTAL BASELINE ISSUES

J. Parker led a discussion on the issue of the environmental baseline (Tab J). He stressed that, for purposes of the EIS, the environmental baseline will be the fully characterized site. In regard to site characterization, the EMMP and reclamation background environmental data stem from the EAs, as well as recent and ongoing field studies.

The chief objection to this concept of baseline data was expressed by the State of Nevada which felt that not enough is known about the environment to be able to proceed with site characterization until a thorough study has been made of the existing environmental conditions. The chief objection of the State of Washington is that the approach outlined by J. Parker is predicated on going into a virgin site. Because the Hanford Reservation has been used by the Department of Energy for many years, it is necessary to know exactly where contamination has taken place in the past in order to assess cumulative effects that will result from site characterization activities. The State would like maps clearly showing all contaminated areas. The main issue at Hanford, for the State of Washington, is chemical and radiological contamination.

J. Parker explained that using the term "baseline" complicates the issue. DOE is using the term "baseline" in regard to the data upon which the EIS is based. For the EIS, "baseline" will be the state of the environment after site characterization impacts have occurred. For the EMMP, background data will be collected to supplement that information available in the EAs.

PROGRAMMATIC AGREEMENTS

J. Jones, DOE/HQ, reviewed the current progress and schedule for Programmatic Agreements (PAs) which currently are being developed for each site (Tab K). The PAs are being written to satisfy DOE's responsibilities under Section 106 of the National Historic Preservation Act of 1966 and outline DOE's procedures for considering historic properties during site characterization activities.

J. Jones reported that the PA for SRPO currently is in concurrence (Action Item S-4). The NNWSI PA will be sent to the Nevada State Historic Preservation Officer for consultation in June (Action Item S-5). The BWIP PA is closely tied to on-going activities on the entire Hanford Reservation and it is not anticipated that it will be completed until June, 1988.

PROJECT OFFICE ENVIRONMENTAL ACTIVITIES OVERVIEWS

S. Whitfield, DOE/BWIP, reported on environmental activities at the EWIP site (Tab L). A discussion ensued regarding environmental checklists, defense wastes and existing contamination on the Hanford Reservation. S. Whitfield suggested that Washington State representatives formally request information from the Hanford Operations Office regarding iodine contamination.

B. Jankus reported on NNWSI environmental activities (Tab M). B. Jankus described the Environmental Program Plan as the document which details what DOE needs to know and how it will be done, the environmental analog to the Site Characterization Plan.

C. Johnson of Nevada said that he understands that Environmental Field Study Plans are being developed for those impacts and activities identified in the EMMP. He asked when it will be possible to compare the EMMPs to the study plans. J. Parker explained that the EMMPs identify information needs, and the study plans detail how data will be collected to fulfill the data needs identified in the EMMPs. There will be several study plans, one for each of a number of relevant environmental disciplines.

B. Jankus commented that NNWSI is completing four study plans, one for each of the four areas identified in the EMMP as potentially subject to impact during site characterization. These areas are: radiation, historic preservation, threatened and endangered species, and air quality. Other environmental study plans will be written later as a result of data needs identified in the Environmental Regulatory Compliance Plan. The NNWSI Project Office will initiate meetings with Nevada State agencies once the preliminary drafts have been reviewed by HQ, and revisions have been made in response to HQ comments.

B. Jankus explained that in order to comply with all regulations, DOE looks at every activity and ensures compliance with all required procedures. Every activity is evaluated, and impacts found to be minor are documented in a memo to the file. Where some questions exist regarding the presence and severity of impacts, DOE did an EA, generally leading to a "Finding of No Significant Impact (FONSI)."

Nevada representatives requested the opportunity to review those memos to the file, EAs, and FONSI's. B. Jankus agreed to inquire about the public availability of such documents and to report back at the next Environmental Coordinating Group Meeting (Action Item S-6).

Eric Stenehjem, Battelle/ONWI, reported on the environmental activities for SRPO. SRPO is concentrating on implementing a Systems Engineering Management Plan (SEMP) as a mechanism for isolating information needs in detail before going into the field. This system, required by DOE Orders, directs managers to evaluate for each activity "why" DOE should pursue the activity or "why not". Tony Ladino, DOE/SRPO volunteered to provide, at the next ECG meeting details on DOE Orders related to SEMP and its component documents (Action Item S-7).

D. Provost, Washington, indicated that he saw little commonality among Project Office presentations. He had hoped to be able to easily follow presentations for the sites other than BWIP, in order to make comparisons among them, but had been unable to because of different charts, approaches and terminology. J. Parker responded that there is a dichotomy in such criticism since the States have also been critical of DOE for requiring a Headquarters (HQ) comparability review of materials before they are given to the States.

D. Provost responded that the HQ consistency check had gutted the BWIP EEMP and caused it to be useless. J. Parker explained that the scope of the EEMP had been more clearly defined by HQ in order to develop comparability. Studies were eliminated from the EEMP because they are not within the scope of Section 113(a) impacts. They will be carried out in response to other requirements (e.g. ERCP or EIS). S. Whitfield added that BWIP's work is based on the same planning model as that presented for SRPO. BWIP stressed field work in its ECG presentation because BWIP is farther along in that area due to their access to the land.

In support of J. Parker's position, J. Wittman (representing the Yakima Indian Nation) indicated that HQ must coordinate all Project Office (PO) activities, but, at the same time, must remember that each of the sites is unique, and that all are in different stages of development. J. Parker reiterated his confidence in the PO's. He stressed that HQ is striving for some level of comparability, but not at the expense of recognizing that each PO staff is most familiar with its particular site.

DISCUSSION AND CONCLUSION

L. Calkins, representative of the Confederated Tribes of the Umatilla Indian Reservation, said that they take a broad view of environmental concerns. He felt that scoping ought to take place prior to site characterization and baseline data collection, and that BWIP, particularly, needs to emphasize the importance of cultural and ethno-historical values.

J. Wittman asked if aerial photography would be used for soils studies. S. Whitfield answered that the aerial photography would be used as a tool for information on vegetation and habitat more than for soils mapping. Although soils mapping is a potential use, nothing is underway currently. Soil profiles could be constructed based on air photos. However, at present they will be based on sampling.

C. Johnson, Nevada, requested that the hand-outs used at this meeting be re-drafted before they are distributed with the minutes package. Minutes of meetings are placed in Nevada reading rooms for public information. Some hand-outs used at this meeting indicated that materials had been completed and distributed and, in fact, they were not yet available; in other cases, they contained inaccurate dates.

Jim Knight, Director of DOE's Siting, Licensing and Quality Assurance Division, said that all corrections would be made before the minutes package was distributed (Action Item S-8).

J. Parker requested that representatives of States and Indian Tribes inform him if they will need a separate meeting room at the next ECG meeting for their Executive Sessions (Action Item S-9).

J. Parker thanked participants for their attendance and adjourned the meeting.

Tab A

Agenda

Environmental Coordinating Group Meeting

May 5 and 6, 1987

Seattle, Washington

ENVIRONMENTAL COORDINATING GROUP MEETING
PLENARY SESSION
AGENDA

May 5, 1987

<u>Time</u>	<u>Topic</u>	<u>Speaker</u>	<u>Reference</u>
1:00	Opening remarks	Parker	
	<ul style="list-style-type: none">• Agenda Overview• New ECG/Working Group meeting format		This Agenda Tab A: Kale Memo (3-18-87)
	<ul style="list-style-type: none">• January ECG meeting minutes		Tab B: ECG Minutes
	<ul style="list-style-type: none">• January ECG action items		Tab C: Major Action Item List
1:30	Environmental Monitoring and Mitigation Plans (EMMPs)	Jones	Tab D: EMMP Minutes
	<ul style="list-style-type: none">• Status and Schedule		Tab E: Kale Draft Memo (4-1-87)
	<ul style="list-style-type: none">• EMMP comments from States and Indian Tribes		Tab F: EMMP Comments
2:00	BWIP EMMP Comment Review	Whitfield	BWIP Handout
2:30	NNWSI EMMP Comment Review	Jankus	NNWSI Handout
3:00	BREAK		
3:15	SRPO EMMP Comment Review	White	SRPO Handout
3:20	Affected parties' EMMP discussion	States and Indian Tribes	
4:00	Summary of EMMP discussion, action items, and schedule	Parker	

ENVIRONMENTAL COORDINATING GROUP
PLENARY SESSION

AGENDA

May 6, 1987

<u>Time</u>	<u>Topic</u>	<u>Speaker</u>	<u>Reference</u>
8:30	Opening Remarks	Parker	
8:45	EIS	Parker	Vugraph Hard-Copy Handout
	<ul style="list-style-type: none">• Schedule• Planning activities		
9:15	Environmental Baseline Issues	Parker	Tab G: Rusche Letter to Gov. Bryan (3-18-87)
	<ul style="list-style-type: none">• Monitoring and Mitigation• Reclamation• EIS		
9:45	National Historic Preservation Act Programmatic Agreements	Jones	Vugraph Hard-Copy Handout
	<ul style="list-style-type: none">• Status• Schedule		
10:00	B R E A K		
10:15	BWIP Environmental Activities Overview	Whitfield	BWIP Handout
10:30	NNWSI Environmental Activities Overview	Jankus	NNWSI Handout
10:45	SRPO Environmental Activities Overview	White	SRPO Handout
11:00	Affected parties' questions and discussion	States and Indian Tribes	
11:45	Summary and Conclusion of ECG Meeting	Parker	

Tab B

Attendance List

Environmental Coordinating Group Meeting

May 5 and 6, 1987

Seattle, Washington

PLENARY SESSION
 ENVIRONMENTAL COORDINATING GROUP MEETING
 May 5, 1987

NAME	ORGANIZATION	ADDRESS	PHONE
Terry Husseman	State of Washington	Olympia WA 98502	(206) 459-6670
Floyd K. Kugzruk	NEZ PERCE	PO Box 305 Lapwai, ID	(208) 843-2253
GLEN LANE	CERT/NEZ PERCE/ UMATILLA	1580 LOGAN ST., STE. 400 DENVER, CO 80203	(303) 872-6600
Jim States	PNL/BWIP	Battelle Blvd Richland, WA 99352	(509) 375-2554
Robert Palm	CLARK COUNTY DEPT. OF COMPREHENSIVE PLANNING	275 BRIDGER AVE. LAS VEGAS, NV. 89135	(407) 455-3135
Don PROUST	STATE OF WASHINGTON	Hail Stop P411 Olympia 98500	206- 459-6718
Ann M. Dwyer	DOE/NO/OK/CIAB	Forestral Building	586-5975
Duane H. Fickeisen	PNL/BWIP	P.O. Box 999 Richland, WA 99352	509 375-2960

MAY 5 Plenary Session

NAME	ORGANIZATION	ADDRESS	PHONE
Kathy Atchison	U.S. Dept. of Energy & Transportation	510 George Str Jackson, MS	601- 961-4733
Ellen Caywood	Wash. St. Institute for Public Policy	Seminar Bldg TE-SC Olympia WA 98505	206- 866-6000 ext 0454
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Debbie Valentine	DOE - HQ		
Bill White	DOE/SRPO		
Anthony Drouot	Argonne Nat'l Lab		
Gary Marmor	Argonne Nat'l Lab		
LINDA DESELL	DOE/OSTS/MRS	DOE HQ	

May Plenary Session

NAME	ORGANIZATION	ADDRESS	PHONE
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Susan King	PNL/BWIP	Box 999 Richland WA 99352	(509) 376-8481
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Ed Pentecost			
George Toombs	Oregon State Health Div.	1400 S.W. Fifth Ave Portland, Oregon 97201	503 229-5541
Robert Rothman	DOE - CH	Argonne Nat. Lab.	
Ed McCann	SATIC	Las Vegas NV	575- 0856

May 5 ECG Plenary Session

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STEVE FRANK	DOE/ESH		FTS 896- 1979
Martin Sablonki	SAIC/NNWSE	Las Vegas	702 295-5813
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CARL JOHNSON	NEVADA	CARSON CITY NV 89710	702 885-3744

May 5 ECG Plenary Session

NAME	ORGANIZATION	ADDRESS	PHONE
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Jim Reed	State of Texas	Texas ACIR PO Box 13206 Austin TX 78748	(512) 463-1812
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Stephen S. Hart	Council of Energy Resource Tribes	1580 Logan St. Denver, CO	(303) 832- 6600

PLENARY SESSION
 ENVIRONMENTAL COORDINATING GROUP MEETING
 MAY 6, 1987

NAME	ORGANIZATION	ADDRESS	PHONE
Tom PAGE	PNL-BLUIP	PO Box 999 Richland WA 99352	509 375-2436
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Greg Fasano	NNWSI/SAIC LV	101 Convention Ctr Dr. Suite 407 Las Vegas, NV 89109	FIS 575-0074
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DOE Plenary Session May 6

NAME	ORGANIZATION	ADDRESS	PHONE
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Duane H. Fickens	PNL/BWIP	Richland, WA	509 375-2960
Floyd K. Kuybink	NEZ PERCE	PO BOX 305 Lapwai, ID	208 843-2253
Monica M. Dussman	SAIC LAS VEGAS	101 CONVENTION CTR DR LAS VEGAS, NV 89105	(702) 295-0073
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Plenary Session Wed.

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DAnne G. Combs	DOE-RL BWIP-OCC	Richland	FTS 404-3279
LINDA DESELL	DOE/EN-MRS	HQ	(202) 586-4773

EC-6 Plenary Session
May 6, 1987

NAME	ORGANIZATION	ADDRESS	PHONE
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Bill McIntosh	SRP/ONWI	Columbus, OH	614-424- 5797
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Tab C

Action Items

Action Items

Environmental Coordinating Group
May 5-7, 1987
Seattle, Washington

<u>Item</u>	<u>Assigned to</u>	<u>Due</u>
S-1 Report on on-going status of EH environmental review at Hanford & NTS	Steve Frank	Next ECG meeting
S-2 Hold a workshop to explain Hanford environmental check-lists	Steve Whitfield	After completion of retrospective review by all parties
S-3 Identify Iodine 129 studies and report back	Steve Whitfield	Next ECG Meeting
S-4 Send SRPO Programmatic Agreement to Texas SHPO for signature	Jay Jones	June 1987
S-5 Send NNWSI Programmatic Agreement to Nevada SHPO	Betty Jankus	June 1987
S-6 Investigate public availability of NNWSI "memos to the file" and report back	Betty Jankus	Next ECG Meeting
S-7 Provide detail on DOE orders related to SEMP and its component documents	Tony Ladino	Next ECG Meeting
S-8 Redraft May ECG meeting hand-outs	HQ and POs	Prior to distribution of minutes
S-9 Inform DOE if a room is needed for Executive Sessions for affected parties	States and affected Indian Tribes	August 15, 1987

Tab D

Department of Energy

Environmental Survey

THE DEPARTMENT OF ENERGY ENVIRONMENTAL SURVEY

I. Background

The Department of Energy (DOE) Environmental Survey is one of a number of environmental and safety initiatives announced by Secretary John S. Herrington in September 1985 in order to strengthen the Department's environment, safety and health (ES&H) function. The other initiatives include (1) reorganization of the ES&H function and its consolidation under a single Assistant Secretary having responsibility solely for ES&H, (2) Technical Safety Appraisals of all DOE major nuclear facilities, and (3) a Computer Assisted Tracking System (CATS) to enable the new ES&H organization and DOE upper management to monitor the status of DOE operations to assure compliance with environmental and safety requirements, and manage and reduce areas of risk.

II. Purpose of the Survey

The purpose of the Survey is to identify environmental problems and areas of environmental risk at DOE operating facilities for the purpose of prioritizing them for remedial action. In this regard, the Survey is fundamentally an internal Departmental management tool for long-range planning and to assist in better allocating resources. It is not intended to displace ongoing efforts of DOE Operations Offices at characterizing and correcting environmental problems or pursuing environmental compliance; rather, it is designed to complement those efforts.

The Survey is not based on the assumption that there is a large body of previously unidentified environmental problems that the Survey will uncover for the first time. On the contrary, although the Survey does identify new problems, the findings of the Survey often involve problems of which the site management is already aware. This does not diminish the value of the Survey, in light of its more fundamental goal: to view all of DOE's environmental problems through the "same set of eyes" for the purpose of prioritization.

The Survey will also serve to develop a baseline of environmental information for each facility for use in the future environmental audit program that will follow the Survey in FY 1989. The need for a baseline is seen in the variations between different facilities in environmental status and information, and the need to measure and validate future environmental performance.

III. Scope of the Survey

The Survey involves a review of approximately 40 major DOE operating facilities. The Survey includes all environmental media: air, water (surface and ground), and soil, and all areas of environmental regulation, e.g., Clean Air Act, Clean Water Act, RCRA, CERCLA, SDWA, and TSCA.

IV. Timing and Cost

The Survey is expected to take 2-1/2 - 3 years and began in June 1986 with Survey team on-site activities at the Feed Materials Production Center, located at Fernald, Ohio. Thus, the Survey is expected to be completed in FY 1989. The cost of the Survey is estimated at \$60,000,000, with the major portion of the cost being the sampling and analysis.

V. Definition of an Environmental Problem/Environmental Risk

For purposes of the Survey, environmental problems are defined as situations resulting from DOE operations where pollutants or contaminants exist in the air, water (surface and ground), or soil in concentrations that pose or may pose a hazard to human health or the environment. The levels that constitute an environmental problem are generally those that exceed some Federal, state, or local statute or regulation for release of, contamination by, or exposure to such materials. In some cases, the Survey may determine the presence of some nonregulated material in a concentration or situation that presents a potential hazard to the local population or the environment sufficient to warrant being termed an environmental problem. The presence of regulated materials at concentrations below those established by regulatory authorities might also be classified as an environmental problem based upon consideration of the actual or potential hazard.

Environmental risk is identified based on conditions judged to have a relatively high probability for the release of pollutants or contaminants to the environment. Environmental risk situations are those in which although pollutants or contaminants are not found in the environment, the likelihood of the occurrence of releases is high, due to the condition or design of pollution controls, or to operational and management practices, or given credible accident scenarios.

A good deal of professional judgment is applied to the identification both of environmental problems and areas of environmental risk.

VI. The Survey and an Environmental Audit Compared

An audit is generally characterized as a regulatory compliance check that may also involve a review or critique of management systems. In contrast, the Survey is a compilation or inventory of environmental problems for purposes of prioritization. Since the Survey is not an audit, although noncompliances that come to the attention of the Survey are examined by the Survey team, the examination is for the purpose of identifying environmental problems, not for establishing instances of noncompliance, per se. Similarly, the Survey does not examine the site's management system to ascertain the causes of environmental problems.

The Survey is sometimes referred to as "no-fault." This further reflects the distinction between the Survey and an audit. The Survey is conducted with the presupposition that there are environmental problems at DOE facilities, largely "legacies of the past," resulting from activities conducted in a different atmosphere and under different standards than today's. Thus, the Survey's findings are not necessarily a reflection on current site management. As a corollary to the Survey being no-fault, current management has the obligation to be forthcoming and to assist in identifying environmental problems. No-fault does not mean, however, that site management has no responsibility for correcting or mitigating the problems once they are identified by the Survey.

VII. Survey Approach

The Survey will be accomplished using five (5) DOE led and managed teams (approximately 7-10 members each), including outside experts specialized by media and area of regulation. It will be executed in accordance with the DOE Environmental Survey Manual, which sets forth the protocols and procedures for the conduct of the Surveys. The manual includes technical checklists, criteria for data acceptance, sampling and analysis protocols, content and formats for reports, and guidance and instructions on environmental problem identification.

The Survey sampling and analysis is of a "reconnaissance" nature designed to assist the Survey teams in identifying environmental problems and areas of environmental risk.

The Survey sampling is often referred to as "gap filling" in nature and purpose. By this it is meant that the Survey makes maximum use of existing site environmental data, and initiates

sampling to generate additional data only to the extent necessary for the identification of environmental problems and areas of environmental risk. The sampling and analysis portion of the Survey is being conducted under EH-management primarily by DOE national laboratories.

The sequence of actions in an individual site Survey is as follows:

- (1) A review of existing environmental data,
- (2) A pre-Survey information request (to the site),
- (3) The pre-Survey site visit (1-3 day visit for orientation, planning Survey team on-site activities and meeting with regulatory agencies),
- (4) The Survey team on-site activities (1-4 weeks where the team observes facilities and operations, examines on-site data, and conducts interviews of site personnel),
- (5) The preparation of the team's preliminary report (reflecting tentative findings based on the on-site activities),
- (6) The sampling and analysis (based on a plan developed by the Survey team at the close of on-site activities, designed to assist the team in better evaluating environmental problems), and
- (7) The preparation of the interim report (contains final findings and includes the results of the sampling and analysis and the Operations Office review of the preliminary report for technical accuracy).

VIII. Categories of Environmental Survey Findings

Survey findings are placed in one of four categories based generally on the hazards they pose, the amount of information available on the problem, and the budgetary implications of remedial action.

- A. Category I findings identify situations that pose an immediate threat to human life and require an immediate response.
- B. Category II findings involve regulatory deficiencies and environmental problems that relate to environmental or

human health effects, and because of the risk presented, require response before the Environmental Survey is concluded.

- C. Category III problems, by virtue of the lesser risk they pose and the budgetary commitments necessary to correct them, are to be listed and prioritized with Category III problems from other site Surveys DOE-wide at the end of the Survey process. Of the four categories, this category is most likely to be the subject of sampling and analysis. Information on Category III problems is generally less than on Category I or II problems.
- D. Category IV findings include noncompliances (primarily administrative, technical, or procedural in nature) with applicable regulations and DOE orders. Category IV findings also include unacceptable operational practices. Category IV findings are indirectly related to environmental risk and they are susceptible to quick resolution. Information on Category IV findings is essentially complete, i.e., they do not anticipate sampling and analysis or further study before final corrective action may be taken.

IX. Follow-up on Survey Findings

- A. Survey preliminary findings (those presented in the preliminary report) - the Office of Environmental Guidance and Compliance has responsibility for monitoring the status of preliminary findings. Consistent with the preliminary nature of the findings, corrective actions, unless otherwise planned, may not necessarily be undertaken by the site management, unless it is determined, after a review of the matter and in consultation with the Office of the Assistant Secretary for ES&H, that such action is warranted.
- B. Survey final findings (those presented in the interim report) - will be carried on the Computer Assisted Tracking System (CATS) and will be the subject of future environmental audits.

X. Environmental Survey Summary Report and Other Prioritizations

This report will bring together the results of all the individual interim reports, and present in order of priority the inventory of environmental problems and areas of environmental risk identified by the Environmental Survey. The prioritization will for the most part involve Category III problems, the other

categories of problems having been already addressed. Prioritization will be a two phase process. The first phase will involve the Multi-Media Environmental Pollutant Assessment System (MEPAS), developed specifically for use in the Survey. MEPAS is a computer code that uses site environmental information to calculate the risk potential of one environmental problem relative to another. A second phase of the prioritization will involve modifying the risk-based ranking according to regulatory, state and local concerns.

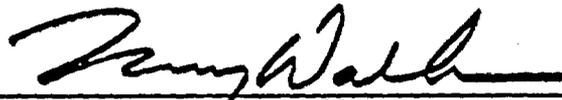
There may be other prioritizations, using the two-step process identified above, of Survey findings, prior to the prioritization associated with the Environmental Survey Summary Report. Such prioritizations may include site-by-site prioritizations for use in Survey reports, prioritization of Survey findings in conjunction with annual Departmental budget exercises, and prioritization of environmental problems on a program-wide basis, e.g., Defense Programs facilities. This is to enable the Survey to provide input to the Department's decision makers at appropriate times during the Survey process before the final prioritization is available.

XI. The DOE Environmental Audit Program

A program of environmental audits will be implemented toward the end of the Environmental Survey. The audit program will involve systematic, documented, periodic and objective reviews of DOE facility operations and practices related to meeting environmental requirements and reducing areas of identified risk. The goal is environmental excellence at DOE facilities. The audit program will be designed to verify compliance with environmental requirements; to evaluate the effectiveness of environmental management systems already in place; and to assess the risks from regulated and unregulated materials and practices. The audits will also assist the Office of the Assistant Secretary for ES&H in monitoring the status of environmental problems and areas of environmental risk identified in the Environmental Survey.

Prepared by: John R. Barker
EH-24
April 7, 1987

Approved by ASEH:



Mary L. Walker

4-9-87

Tab E

Environmental Monitoring and Mitigation Plans

(EMMP)

Overview and Update

**ENVIRONMENTAL MONITORING AND
MITIGATION PLANS (EMMPs)
FOR SITE CHARACTERIZATION**

ENVIRONMENTAL COORDINATING GROUP

**MAY 5, 1987
SEATTLE, WASHINGTON**

TOPICS TO BE COVERED

- PURPOSE OF
- CONTENTS OF
- PROCESS FOR REVIEWING AND UPDATING EMMPs
- COMMENTS SUBMITTED FROM STATES, AFFECTED INDIAN TRIBES, AND OTHER PARTIES
- EMMP SCHEDULE

PURPOSE OF EMMPs

- TO DOCUMENT COMPLIANCE WITH SECTION 113(a) OF THE NWPA
“THE SECRETARY ... SHALL, TO THE MAXIMUM EXTENT PRACTICABLE AND IN CONSULTATION WITH THE GOVERNOR OF THE STATE INVOLVED OR THE GOVERNING BODY OF THE AFFECTED INDIAN TRIBE INVOLVED, CONDUCT SITE CHARACTERIZATION ACTIVITIES IN A MANNER THAT MINIMIZES ANY SIGNIFICANT ADVERSE ENVIRONMENTAL IMPACTS ...”
- TO IDENTIFY, IN CONSULTATION WITH THE STATES AND AFFECTED INDIAN TRIBES, THE SPECIFIC MONITORING PROGRAMS TO BE USED FOR DETECTING POTENTIALLY SIGNIFICANT ADVERSE ENVIRONMENTAL IMPACTS THAT COULD RESULT FROM SITE CHARACTERIZATION ACTIVITIES

PURPOSE OF EMMPs (Continued)

- **TO PROVIDE A MECHANISM FOR IMPLEMENTING MITIGATIVE ACTIONS TO MINIMIZE SIGNIFICANT ADVERSE ENVIRONMENTAL IMPACTS**
- **TO IDENTIFY A PROCESS FOR MODIFYING THE MONITORING AND MITIGATION PROGRAM AND A PROCEDURE FOR REPORTING RESULTS**
- **TO SATISFY PART OF A TOTAL, COMPREHENSIVE ENVIRONMENTAL FIELD PROGRAM WHICH INCLUDES ENVIRONMENTAL REGULATORY COMPLIANCE PLANS AND PLANS FOR THE PREPARATION OF THE ENVIRONMENTAL IMPACT STATEMENT, REQUIRED UNDER SECTION 114**

CONTENTS OF THE EMMPs

- EXECUTIVE SUMMARY (CHAPTER 1)
- INTRODUCTION (CHAPTER 2)
 - HISTORY AND SCOPE, PURPOSE, APPROACH
- SITE CHARACTERIZATION PROGRAM SUMMARY (CHAPTER 3)
 - GEOTECHNICAL FIELD STUDIES, EXPLORATORY SHAFT FACILITY, MAJOR MILESTONES AND SCHEDULES
- POTENTIALLY SIGNIFICANT ADVERSE ENVIRONMENTAL CONSEQUENCES IDENTIFIED FOR SITE CHARACTERIZATION ACTIVITIES (CHAPTER 4)
 - (BY ENVIRONMENTAL DISCIPLINE)
- ENVIRONMENTAL MONITORING AND MITIGATION (CHAPTER 5)
 - (BY ENVIRONMENTAL DISCIPLINE)
- METHODOLOGY FOR MODIFYING THE ENVIRONMENTAL MONITORING AND MITIGATION PLAN (CHAPTER 6)
 - INTRODUCTION, MODIFICATION OF THE EMMP

PROCESS FOR REVIEWING AND UPDATING WASHINGTON AND NEVADA DRAFT EMMPs

- **ON DECEMBER 1, 1986, DRAFT EMMPs WERE SENT TO STATES AND AFFECTED INDIAN TRIBES FOR REVIEW AND COMMENT**
- **COMMENTS WERE RECEIVED BY DOE PROJECT OFFICES AND HQ BETWEEN FEBRUARY 23 AND MARCH 16, 1987**
- **DURING MARCH, 1987, POs AND HQ MET TO DISCUSS COMMENTS AND PROPOSED REVISIONS TO EMMPs**
- **REVISED EMMPs SUBMITTED TO HQ ON APRIL 7, 1987**
- **NNWSI WILL SEND A LETTER TO STATE, ACKNOWLEDGING EMMP COMMENTS**
- **BWIP WILL SEND A LETTER TO STATE, ACKNOWLEDGING EMMP COMMENTS; MEETING BETWEEN PO AND STATE ON APRIL 16, 1987 INCLUDED AN EMMP BRIEFING**
- **HQ REVIEWED THE REVISED DOCUMENTS AND TRANSMITTED COMMENTS ON MAY 1, 1987**

COMMENTS SUBMITTED FROM STATES AND AFFECTED INDIAN TRIBES

- **STATE OF WASHINGTON**
 - STATE LEGISLATURE
 - DEPARTMENT OF ECOLOGY
- **CONFEDERATED TRIBES OF THE UMATILLA INDIAN RESERVATION**
- **CONFEDERATED TRIBES AND BANDS, YAKIMA INDIAN NATION**
- **NEZ PERCE INDIAN TRIBE**
- **STATE OF OREGON**
 - DEPARTMENT OF HUMAN RESOURCES - HEALTH DIVISION

COMMENTS SUBMITTED FROM STATES AND AFFECTED INDIAN TRIBES (CONT.)

- **STATE OF NEVADA**
 - AGENCY FOR NUCLEAR PROJECTS - NUCLEAR WASTE PROJECT
OFFICE**
- **CLARK COUNTY, NEVADA**

COMMENTS (CONT.)

- **STATE OF UTAH**
—HIGH LEVEL NUCLEAR WASTE OFFICE
- **STATE OF MISSISSIPPI**
—DEPARTMENT OF ENERGY AND TRANSPORTATION
- **UTILITY NUCLEAR WASTE MANAGEMENT GROUP (EDISON ELECTRIC INSTITUTE)**

EMMP SCHEDULE (BWIP AND NNWSI)

- **PO TRANSMITTED DRAFT EMMPs TO STATES AND AFFECTED INDIAN TRIBES** **DECEMBER 1986**
- **POs SUBMIT DRAFT REVISION 1 TO HQ** **JUNE 1987**
- **HQ CONCURRENCE REVIEW** **JULY 1987**
- **DOE SENDS REVISION 1 TO STATES AND AFFECTED INDIAN TRIBES** **SEPTEMBER 1987**
- **DOE SENDS INITIAL EMMP TO STATES AND AFFECTED INDIAN TRIBES** **AFTER COMPLETION OF SCP PUBLIC HEARING PROCESS**
- **DOE ISSUES EMMP PROGRESS REPORTS** **CONCURRENT WITH SCP PROGRESS REPORTS**

TENTATIVE EMMP SCHEDULE (SRPO)

- PO TRANSMITTED DRAFT EMMP TO STATE DECEMBER 1986'
- PO AND STATE INTERACTION (MEETINGS, REVIEW, TRANSMITTAL OF COMMENTS) SEPTEMBER 1987 TO JANUARY 1988
- PO SUBMITS DRAFT REVISION 1 TO HQ FEBRUARY 1988
- HQ CONCURRENCE REVIEW MARCH 1988
- DOE SENDS REVISION 1 TO STATE MAY 1988
- DOE SENDS INITIAL EMMP TO STATE AFTER COMPLETION OF SCP PUBLIC HEARING PROCESS
- DOE ISSUES EMMP PROGRESS REPORTS CONCURRENT WITH SCP PROGRESS REPORTS

3

Tab F

Basalt Waste Isolation Project

(BWIP)

Environmental Monitoring and Mitigation Plan

(EMMP)

Update

4

BASALT WASTE ISOLATION PROJECT

EMMP UPDATE

MAY 5, 1987

EMMP CHRONOLOGY UPDATE

- **WORKING DRAFT EMMP ISSUED FOR AFFECTED PARTY REVIEW
DECEMBER 1986**
- **JANUARY 13, 1987 - MEETING WITH AFFECTED PARTIES TO RECEIVE
PRELIMINARY FEEDBACK ON EMMP/SMMP**
- **FEBRUARY-APRIL 1987 - WRITTEN COMMENTS ON EMMP RECEIVED
FROM AFFECTED PARTIES ·**
 - **FEBRUARY 27, 1987 - WASHINGTON STATE LEGISLATURE**
 - **MARCH 2, 1987 - CONFEDERATED TRIBES OF THE UMATILLA INDIAN RESERVATION**
 - **MARCH 4, 1987 - STATE OF UTAH**
 - **MARCH 9, 1987 - NEZ PERCE TRIBE**
 - **MARCH 24, 1987 - STATE OF OREGON DEPARTMENT OF HUMAN RESOURCES**
 - **MARCH 30, 1987 - STATE OF WASHINGTON NUCLEAR WASTE BOARD**
 - **APRIL 21, 1987 - YAKIMA INDIAN NATION**
- **MARCH 30, 1987 - PROPOSED REVISIONS TO BWIP DRAFT EMMP
FORWARDED TO DOE-HQ**

KEY POLICY LEVEL EMMP ISSUES/COMMENTS

- **COMMENT**
THE LEVEL OF DETAIL PROVIDED FOR SITE CHARACTERIZATION IN CHAPTER 3 WAS INSUFFICIENT TO REVIEW THE POTENTIAL FOR IMPACTS AND ASSOCIATED MONITORING AND MITIGATION MEASURES
- **PROPOSED RESPONSE**
THE SCP SHOULD BE REFERENCED AS THE DEFINITIVE SOURCE OF INFORMATION - CHAPTER 3 SHOULD DESCRIBE ONLY THOSE ACTIVITIES WHICH TRIGGER MONITORING AND MITIGATION STRATEGIES
- **COMMENT**
THE EMMP FAILS TO MEET ITS STATED PURPOSE OF IDENTIFYING SPECIFIC MONITORING PROGRAMS BY BEING TOO GENERAL AND NON-SITE SPECIFIC; AND BY FAILING TO GIVE PURPOSE AND IMPORTANT DETAILS OF STUDIES AND TESTS DESCRIBED.
- **PROPOSED RESPONSE**
PROVIDE ADDITIONAL RATIONALE FOR THE PROPOSED TESTS AND STUDIES - SPECIFIC DETAILS WILL NOT BE DESCRIBED IN THE EMMP, BUT REFERENCE WILL BE MADE TO STUDY PLANS AND TECHNICAL PROCEDURES

KEY POLICY LEVEL EMMP ISSUES/COMMENTS (CONTINUED)

- **COMMENT**
THE PROGRAM IS BEING CONDUCTED IN A PIECEMEAL FASHION, PERHAPS LEADING TO THE OVERLOOKING OF A FATAL FLAW
- **PROPOSED RESPONSE**
THE EMMP IS BUT ONE PART OF A LARGER ENVIRONMENTAL PROGRAM - THE PROGRAM DOES FOLLOW A LOGICAL SEQUENCE AND IS DRIVEN BY A HIERARCHY OF PLANNING DOCUMENTS. INDIVIDUAL PARTS OF THE PROGRAM ARE BEING PROVIDED AS THEY ARE PREPARED. NECESSARY FRONT-END INTEGRATION ISSUES WILL BE RESOLVED AS THE PROGRAM CONTINUES TO DEVELOP
- **COMMENT**
IT IS NOTED THAT THE CRITERIA FOR DETERMINING THE POTENTIAL FOR SIGNIFICANT ADVERSE IMPACTS ARE NOT CLEARLY DEFINED IN THE EMMP - FAILURE TO IMPLEMENT A CONSISTENT, IDENTIFIABLE AND DEFENSIBLE SET OF CRITERIA IS LIKELY TO RESULT IN AN INADEQUATE MONITORING AND MITIGATION PROGRAM
- **PROPOSED RESPONSE**
THE EMMP WILL BE REVISED TO DESCRIBE THE PROCESS FOR DETERMINING THE SIGNIFICANCE OF POTENTIAL ADVERSE IMPACTS. IT MAY NOT BE POSSIBLE TO IDENTIFY A COMMON SPECIFIC SET OF CRITERIA BECAUSE THESE ARE APT TO VARY WIDELY DEPENDING ON ACTIVITY/LOCATION. THE PROCESS WILL RELY HEAVILY ON PROFESSIONAL JUDGMENT AND WILL FOCUS ON SENSITIVE AREAS AND SPECIES OF CONCERN

KEY TECHNICAL LEVEL ISSUES

- **COMMENT**
BASELINE CONDITIONS SHOULD BE ESTABLISHED BEFORE SITE CHARACTERIZATION BEGINS; IN PARTICULAR, THERE IS A "LACK OF OBVIOUS INTENT TO QUANTIFY THE EXISTING CONTAMINATION THAT EXISTS AT HANFORD"
- **PROPOSED RESPONSE**
THE BWIP ENVIRONMENTAL REVIEW PROCESS NOW IN PLACE ASSURES ENVIRONMENTAL CHARACTERIZATION FROM A REGULATORY STANDPOINT PRIOR TO INITIATING ANY SITE CHARACTERIZATION ACTIVITIES. IN ADDITION, A RADIOLOGICAL CONDITIONS STUDY PLAN IS UNDER DEVELOPMENT THAT WILL ASSURE BASELINE QUANTIFICATION OF CURRENT RADIOLOGIC CONDITIONS AS WELL AS MONITORING OF ANY SITE CHARACTERIZATION-RELATED CHANGES
- **COMMENT**
THE EMMP DOES NOT IDENTIFY ALREADY EXISTING STUDIES TAKING PLACE ON THE RRL
- **PROPOSED RESPONSE**
BWIP HAS UNDERTAKEN A NUMBER OF "RANGING" STUDIES SINCE EARLY 1986. THESE ARE PRECURSORS TO THE EMMP STUDY PLAN-DRIVEN WORK, AND ARE DESIGNED PRIMARILY TO IDENTIFY ANY EARLY ENVIRONMENTAL REGULATORY COMPLIANCE CONCERNS, AND TO AID IN SCOPING AND DEFINING THE EMMP-DRIVEN STUDIES. COPIES OF PERTINENT TECHNICAL PROCEDURES FOR FUTURE STUDIES HAVE BEEN FORWARDED TO THE AFFECTED PARTIES

KEY TECHNICAL LEVEL ISSUES (CONTINUED)

- **CONCERNS ABOUT RADIOLOGICAL CROSS-CONTAMINATION FROM DRILLING ACTIVITIES**
- **CONCERNS ABOUT RECLAMATION OF DISTURBED AREAS**
- **CONCERNS ABOUT AIR QUALITY**
- **CONCERNS ABOUT LOCATIONS OF ENVIRONMENTAL MONITORING SITES**
- **CONCERNS ABOUT ARCHAEOLOGICAL MONITORING**
- **CONCERNS ABOUT ECOLOGICAL MONITORING**
- **CONCERNS ABOUT THE APPROPRIATENESS OF SITE CHARACTERIZATION ACTIVITIES**

3

Tab G

Nevada Nuclear Waste Storage Investigations Project
(NNWSI)

Environmental Monitoring and Mitigation Plan
(EMMP)

Update

4

U.S. DEPARTMENT OF ENERGY

**O
C
R
W
M**

OGR

Nevada
Nuclear
Waste
Storage
Investigations
PROJECT

**NEVADA
MOUNTAIN**

**Nevada
Nuclear Waste
Storage Investigations Project**

**NNWSI PROJECT
STATUS REPORT ON EMMP
Environmental Monitoring and Mitigation Plan**

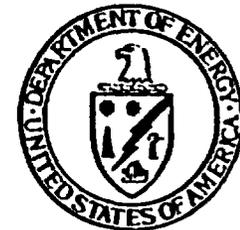
by

E. V. Jankus

ENVIRONMENTAL COORDINATION GROUP MEETING

MAY 5, 1987

**United States Department of Energy
Nevada Operations Office/Waste Management Project Office**



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Storage Investigations Project**

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**NNWSI PROJECT
STATUS REPORT ON EMMP
Environmental Monitoring and Mitigation Plan**

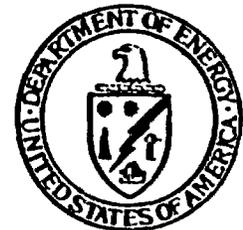
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PURPOSE AND SCOPE OF NNWSI PROJECT SITE CHARACTERIZATION ENVIRONMENTAL MONITORING AND MITIGATION PROGRAM

- PRIMARY PURPOSE OF MONITORING AND MITIGATION PROGRAM IS TO DOCUMENT COMPLIANCE WITH SECTION 113(a) OF THE NUCLEAR WASTE POLICY ACT, WHICH REQUIRES SITE CHARACTERIZATION ACTIVITIES TO BE CONDUCTED IN A MANNER THAT MINIMIZES ANY SIGNIFICANT ADVERSE ENVIRONMENTAL IMPACTS
- MONITORING AND MITIGATION PROGRAM IS NOT INTENDED TO BE A COMPREHENSIVE IMPACT ANALYSIS OR A COMPREHENSIVE MONITORING PROGRAM
- SCOPE OF MONITORING IS LIMITED TO SITE CHARACTERIZATION ACTIVITIES THAT HAVE A POTENTIAL TO GENERATE SIGNIFICANT ADVERSE IMPACTS
- THE PRIMARY MITIGATION STRATEGY FOR ANY ACTUAL SIGNIFICANT ADVERSE ENVIRONMENTAL IMPACTS WILL BE, TO THE EXTENT PRACTICABLE, CHANGES IN THE WAY SITE CHARACTERIZATION ACTIVITIES ARE CONDUCTED

NNWSI PROJECT TECHNICAL DISCIPLINES IDENTIFIED FOR ENVIRONMENTAL MONITORING

- **AIR QUALITY**

- TOTAL SUSPENDED PARTICULATES (TSP)

- **RADIOLOGICAL LEVELS**

- RADON AND RESUSPENSION OF CONTAMINATED MATERIALS

- **ARCHAEOLOGICAL/HISTORICAL RESOURCES**

- PRECONSTRUCTION SURVEYS FOR LOCATIONS OF SITES

- **TERRESTRIAL ECOSYSTEMS**

- PRE- AND POST-CONSTRUCTION SURVEYS FOR AFFECTED BIOTA INCLUDING SENSITIVE SPECIES AND THEIR HABITATS



EMMP COMMENTS RECEIVED FROM THE STATE OF NEVADA NUCLEAR WASTE PROJECT OFFICE

GENERAL COMMENT CATEGORIES

● 2.1 "ABSENCE OF A SITE SPECIFIC ENVIRONMENTAL DATA BASE"

DOE POSITION: A COMPREHENSIVE ENVIRONMENTAL DATA BASE IS NOT A SUBJECT OF THE EMMP BUT WILL BE A SUBJECT OF THE EIS PROCESS. REFER TO LETTER REGARDING THIS ISSUE (BEN C. RUSCHE, DIRECTOR TO GOVERNOR RICHARD H. BRYAN DATED MARCH 18, 1987)

● 2.2 "INCOMPLETE SITE CHARACTERIZATION PLAN (SCP)"

DOE POSITION: THE SCP AND ASSOCIATED STUDY PLANS ARE IN DRAFT FORM. THE BASIC SITE CHARACTERIZATION ACTIVITIES HAVE BEEN IDENTIFIED. THE EXTENT AND LOCATION OF THOSE ACTIVITIES WILL BE UPDATED IN REVISION 1 OF THE EMMP TO BE MADE AVAILABLE ON SEPT. 1, 1987



EMMP COMMENTS RECEIVED FROM THE STATE OF NEVADA NUCLEAR WASTE PROJECT OFFICE

GENERAL COMMENT CATEGORIES (CONTINUED)

● 2.3 "LACK OF A COMPREHENSIVE AND INTEGRATED ENVIRONMENTAL PROGRAM"

DOE POSITION: THE EMMP AND ASSOCIATED ENVIRONMENTAL FIELD STUDY PLANS ARE COMPONENTS OF A LARGER ENVIRONMENTAL PROGRAM THAT IS BOTH COMPREHENSIVE AND INTEGRATED

SPECIFIC COMMENTS

● 3.0 "SPECIFIC COMMENTS BY EMMP SECTION"

DOE POSITION: COMMENTS VARIED, SOME ARE REITERATIONS OF THE GENERAL COMMENTS, OTHERS WILL BE ADDRESSED IN FUTURE VERSIONS OF THE EMMP

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ENVIRONMENTAL MONITORING AND MITIGATION PLAN DEVELOPMENT

- WORKING DRAFT EMMP TO THE STATE DEC. 1, 1986
- NEVADA STATE AGENCIES BRIEFING JAN. 23, 1987
- EMMP COMMENTS RECEIVED FROM NWPO MAR. 3, 1987
- POTENTIAL NNWSI/NWPO TECHNICAL WORKSHOP ?
- DOE/HQ AND NNWSI COMMENT AND REVISION CYCLES APR.-JUN. 1987
- REVISION 1 EMMP TO STATES AND TRIBES SEPT. 1, 1987
- FULL VERSION EMMP TRANSMITTED TO STATES AND TRIBES AFTER COMPLETION OF SCP PUBLIC HEARINGS
- ENVIRONMENTAL MONITORING AND MITIGATION PROGRESS REPORT ISSUED (BIANNUALLY) SIMILAR TIME PERIOD AS SCP PROGRESS REPORT

3

Tab H

Salt Repository Project Office

(SRPO)

Environmental Monitoring and Mitigation Plan

(EMMP)

Update

4



SALT REPOSITORY PROJECT

**SALT REPOSITORY PROJECT
EMMP DRAFT COMMENT REVIEW**

COMMENT SUMMARY

- **INFORMATION PRESENTED IN CHAPTER 4 OF THE ENVIRONMENTAL ASSESSMENT IS:**
 - **"INADEQUATE FOR IMPACT PREDICTION"**
 - **DOESN'T ACCOUNT FOR FUTURE CHANGES IN ACTIVITIES**
- **SITE CHARACTERIZATION ACTIVITIES DESCRIBED IN EMMP ARE VAGUE.**
- **NO DISCUSSION IS PROVIDED OF THE QA PROCESS TO BE FOLLOWED IN MONITORING.**

SOURCE OF COMMENT

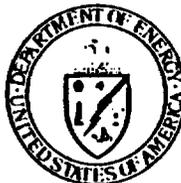
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DRAFT COMMENT RESPONSE

- **CHAPTER 4 OF THE EA ADEQUATELY RESPONDS TO ENVIRONMENTAL ISSUES AND ANY FUTURE CHANGE IN ACTIVITIES WILL BE COMPARED WITH THE ASSESSMENT PREPARED FOR THE EA. ALL SITE CHARACTERIZATION PLAN UPDATES (ISSUED SEMIANNUALLY) SHOWING CHANGES IN ACTIVITIES WILL BE EVALUATED.**
- **SITE CHARACTERIZATION ACTIVITIES ARE DESCRIBED IN SECTION 4.1 (PAGES 4-1 TO 4-81) OF THE EA AND THE EMMP IS BASED UPON THOSE DETAILED DESCRIPTIONS.**
- **SRPO HAS AN APPROVED QA PROCESS IN PLACE AND IS FOLLOWING PROCEDURES AS SET OUT IN THE QUALITY ASSURANCE ADMINISTRATIVE PROCEDURES DOCUMENT.**



Salt Repository Project

SALT REPOSITORY PROJECT
EMMP DRAFT COMMENT REVIEW
CONTINUED

COMMENT SUMMARY

- THE EMMP ADDRESSES A "CONSERVATIVE" SET OF IMPACTS (I.E., SALT) TO BE MONITORED.
- EMMP LACKS SPECIFIC MITIGATION MEASURES.
- WHEREVER POSSIBLE, THE CRITERIA USED TO DETERMINE IMPACT SIGNIFICANCE SHOULD BE DESCRIBED.

SOURCE OF COMMENT

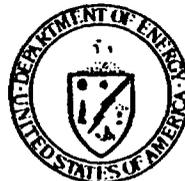
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DRAFT COMMENT RESPONSE

- YES, THAT IS CORRECT SINCE NO SIGNIFICANT ADVERSE ENVIRONMENTAL IMPACTS WERE IDENTIFIED IN THE EA. WE HAVE INCLUDED A SET OF POTENTIAL IMPACTS TO BE MONITORED AND THESE WERE FACTORS CONSIDERED TO BE OF SUFFICIENT CONCERN THAT THEY SHOULD BE MONITORED DURING SITE CHARACTERIZATION.
- NO SIGNIFICANT ADVERSE IMPACTS WERE IDENTIFIED IN THE EA. IF MITIGATIVE MEASURES ARE SHOWN TO BE REQUIRED, DOE WILL PROPOSE MEASURES TO BE REVIEWED BY THE STATE IN ANY CASE WHERE IMPACT THRESHOLD IS APPROACHED.
- THE REGULATORY CRITERIA AND ACCEPTED ENVIRONMENTAL STANDARDS ARE DESCRIBED IN THE EA (SEE TABLE 6.2) AND THE EMMP.



Salt Repository Project

**SALT REPOSITORY PROJECT
EMMP DRAFT COMMENT REVIEW
CONTINUED**

COMMENT SUMMARY

**SOURCE OF
COMMENT**

DRAFT COMMENT RESPONSE

• THE EMMP DOES NOT DESCRIBE MONITORING PLANS.

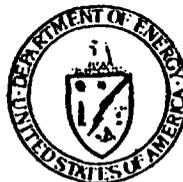
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• THESE MONITORING PLANS ARE DESCRIBED IN DETAIL IN THE ENVIRONMENTAL SITE STUDY PLANS WHICH ARE CURRENTLY IN REVIEW. THE EMMP MAKES REFERENCE TO THESE PLANS.

• A GENERAL DESCRIPTION OF MITIGATION MEASURES THAT MIGHT BE EMPLOYED SHOULD BE PROVIDED AND, AS IMPACT THRESHOLDS ARE IDENTIFIED, THE APPROPRIATE MITIGATIVE MEASURES SHOULD BE REFERENCED IN FUTURE DRAFTS OF THE EMMP.

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• THE EA DESCRIBES ENGINEERING PRACTICES OR MEASURES THAT ARE PART OF THE PROPOSED ACTION AND SOME ELABORATION OF MITIGATIVE ACTIONS CAN BE PROVIDED. SRPO WILL FOLLOW THE RECOMMENDED MITIGATIVE MEASURES IF AND WHEN IMPACT THRESHOLDS ARE APPROACHED.



Salt Repository Project

**SALT REPOSITORY PROJECT
EMMP DRAFT COMMENT REVIEW
CONTINUED**

COMMENT SUMMARY

- THE DRAFT EMMP PROVIDES LITTLE DISCUSSION OF PLANS FOR MONITORING OFF-SITE ENVIRONMENTAL IMPACTS.
- IT IS DIFFICULT TO DETERMINE WHETHER AN IMPACT WAS DETERMINED TO BE SIGNIFICANTLY ADVERSE AS A RESULT OF EA EVALUATION OR BASED UPON THE DEGREE OF UNCERTAINTY.

SOURCE OF COMMENT

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DRAFT COMMENT RESPONSE

- IT WAS DETERMINED THAT MEETING ANY OF THE SITE CHARACTERIZATION ACTIVITIES OR THE ANALYSES USED TO FORECAST IMPACTS ASSOCIATED WITH THESE ACTIVITIES HAD SUFFICIENT UNCERTAINTY ASSOCIATED WITH THEM TO WARRANT OFF-SITE ENVIRONMENTAL MONITORING.
- BASED UPON ECOLOGICAL ANALYSIS OF ACTIVITIES DESCRIBED IN CHAPTER 4 OF THE DEAF SMITH COUNTY EA NO SIGNIFICANT ADVERSE ENVIRONMENTAL IMPACTS WERE IDENTIFIED. COMMENTS BY THE STATE OF TEXAS OBTAINED DURING PUBLIC HEARINGS AND IN RESPONSE TO THE DRAFT EA PROVIDED THE FOUNDATION FOR THE DETERMINATION OF THE ACTIVITIES TO BE MONITORED FOR POTENTIALLY SIGNIFICANT ENVIRONMENTAL IMPACTS.



Salt Repository Project

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Tab I

EIS Schedule

3

**ENVIRONMENTAL IMPACT STATEMENT (EIS)
PLANNING**

ENVIRONMENTAL COORDINATING GROUP

**MAY 6, 1987
SEATTLE, WASHINGTON**

TOPICS TO BE COVERED

- **DRAFT MISSION PLAN AMENDMENTS**
- **REPOSITORY EIS PLANNING SCHEDULE**
- **TECHNICAL BASIS FOR EIS SCOPING SCHEDULE**

DRAFT MISSION PLAN AMENDMENTS

- **PLAN REFLECTS PROPOSAL FOR MONITORED RETRIEVABLE STORAGE (MRS) FACILITY. IF AUTHORIZED BY CONGRESS, MRS FUNCTION AND SPECIFICATIONS TO BE INCORPORATED IN ASSESSMENT OF ENVIRONMENTAL IMPACTS FOR REPOSITORY EIS. MRS CONSIDERATIONS INCLUDE:**
 - EFFECT ON REPOSITORY DESIGN AND OPERATION
 - EFFECT ON REPOSITORY IMPACTS
 - EFFECT ON TRANSPORTATION

- **REVISED SCHEDULES FOR THE GEOLOGIC REPOSITORY PROGRAM:**
 - DRAFT EIS - FOURTH QUARTER 1993
 - FINAL EIS - FOURTH QUARTER 1994
 - REVISED SCHEDULES REFLECT CHANGES IN THE TECHNICAL PROGRAM TO COLLECT MORE INFORMATION, AND FOR GREATER INVOLVEMENT BY AFFECTED STATES AND INDIAN TRIBES

REPOSITORY EIS PLANNING SCHEDULE

ACTIVITY

DEVELOPMENT OF COOPERATING
AGENCY MEMORANDA OF AGREEMENT

FEDERAL REGISTER NOTICE OF INTENT
TO PREPARE AN EIS

EIS SCOPING MEETINGS

FINAL EIS IMPLEMENTATION PLAN

PROPOSED DATES

JULY TO DECEMBER 1988

JANUARY 1989

MARCH TO JUNE 1989

DECEMBER 1989

TECHNICAL BASIS FOR EIS SCOPING SCHEDULE

- **REQUIRES PUBLIC UNDERSTANDING OF PROPOSED ACTION AND ENVIRONMENTAL BASELINE**
- **PROPOSED ACTION DEFINED BY SCP CONCEPTUAL DESIGN**
- **ENVIRONMENTAL BASELINE ESTABLISHED BY ACTIVITIES DESCRIBED IN SCPs**
- **THEREFORE, EIS SCOPING SHOULD FOLLOW SCP ISSUANCE AND PUBLIC HEARINGS**

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Tab J

Environmental Baseline Issues

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ENVIRONMENTAL BASELINE ISSUES
ENVIRONMENTAL COORDINATING GROUP

MAY 6, 1987
SEATTLE, WASHINGTON

NWPA ENVIRONMENTAL BASELINE REQUIREMENTS

- **NOMINATION/RECOMMENDATION OF SITES FOR SITE CHARACTERIZATION: SECTION 112 ENVIRONMENTAL ASSESSMENTS (EAs)**
- **CONDUCT OF SITE CHARACTERIZATION ACTIVITIES: SECTION 113(a) MINIMIZATION OF SIGNIFICANT ADVERSE ENVIRONMENTAL IMPACTS**
- **SITE CHARACTERIZATION RECLAMATION: SECTION 113 (c)(4) RECLAMATION OF UNSUITABLE CANDIDATE SITES AND MITIGATION OF ANY SIGNIFICANT ADVERSE ENVIRONMENTAL IMPACTS**
- **RECOMMENDATION OF SITE FOR REPOSITORY DEVELOPMENT: SECTION 114 ENVIRONMENTAL IMPACT STATEMENT (EIS)**

ENVIRONMENTAL BASELINE INFORMATION

- **SITE CHARACTERIZATION PHASE:**

- EAs (CHAPTERS 3 AND 4)

- PRE-ACTIVITY MONITORING DESCRIBED IN EMMPs

- ENVIRONMENTAL REGULATORY DATA COLLECTION

- ON-GOING BASELINE STUDIES

- **REPOSITORY PHASE:**

- ENVIRONMENTAL BASELINE IS THE CHARACTERIZED SITE FOR EIS PURPOSES

- SITE INVESTIGATIONS PROVIDE SUCH BASELINE DATA

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Tab K

Programmatic Agreements

2

**NATIONAL HISTORIC PRESERVATION ACT
PROGRAMMATIC AGREEMENTS**

ENVIRONMENTAL COORDINATING GROUP

**MAY 6, 1987
SEATTLE, WASHINGTON**

MAJOR STIPULATIONS OF THE PROGRAMMATIC AGREEMENTS

- **MONITORING THE PROGRAMMATIC AGREEMENTS (PA)**

- DOE ENSURES PA IS FOLLOWED IN ALL CHARACTERIZATION ACTIVITIES**

- INCLUDES ANNUAL REPORTS TO ACHP AND SHPO**

- **COORDINATION**

- ESTABLISHES CONSULTATION AND NOTIFICATION WITH OTHER FEDERAL AND STATE AGENCIES**
- DIRECTS CONSULTATION WITH AMERICAN INDIAN AND OTHER AFFECTED ETHNIC GROUPS (FOR EXAMPLE, HISPANICS IN TEXAS)**
- REQUIRES IDENTIFICATION OF HISTORIC PROPERTIES OF RELIGIOUS OR CULTURAL IMPORTANCE IN COORDINATION WITH AFFECTED GROUPS**
- ENCOURAGES CONSULTATION ON MEASURES TO MITIGATE IMPACTS TO RELIGIOUS SITES**

- **WORKER EDUCATION**

- ESTABLISHES A PROGRAM TO PROTECT SITES FROM VANDALISM BY WORKERS**

- INFORMS WORKERS ABOUT LAWS AGAINST VANDALISM**

- INFORMS WORKERS ABOUT LOCAL PREHISTORY AND CULTURAL VALUES**

- PROVIDES, WHERE APPROPRIATE, FOR AMATEUR ARCHEOLOGY PROGRAMS AND MUSEUM DISPLAYS**

- **RESEARCH DESIGN**

- ESTABLISHES GUIDELINES FOR DEVELOPING RESEARCH DESIGN

- IDENTIFIES QUESTIONS TO BE ADDRESSED

- **SURVEY AND TREATMENT**

- SETS FORTH CRITERIA FOR SURVEY TO IDENTIFY HISTORIC PROPERTIES

- DIRECTS DOE TO AVOID SITES WHEREVER POSSIBLE

- PROVIDES GUIDELINES FOR DATA RECOVERY IF AVOIDANCE IS NOT POSSIBLE

- **PROFESSIONAL QUALIFICATIONS**
- **DOE CONTRACTORS**

**—ESTABLISHES PROFESSIONAL REQUIREMENTS FOR
ARCHEOLOGICAL WORK**

—BINDS DOE CONTRACTORS TO THE TERMS OF THE AGREEMENT

-
- **DISPUTE RESOLUTION**
 - **ADVISORY COUNCIL ON HISTORIC PRESERVATION
(ACHP) COMMENTS**
 - **MODIFICATION**
 - **ON-GOING WORK**

- **RECOMMENDATION OF ONE SITE FOR DEVELOPMENT AS THE FIRST REPOSITORY**
 - CONSULTATION WILL RE-OPEN AFTER RECOMMENDATION OF ONE SITE
 - A NEW PA MAY BE WRITTEN FOR SITE DEVELOPMENT

SALT REPOSITORY PROJECT OFFICE (SRPO) STATUS OF PROGRAMMATIC AGREEMENT

**MARCH 1987 PA REVIEWED BY TEXAS STATE HISTORIC
PRESERVATION OFFICER (SHPO)**

APRIL 1987 RESOLUTION OF OUTSTANDING ISSUES

**MAY 1987 PA TO BE SIGNED BY DOE/SRPO, DOE/HQ, ADVISORY
COUNCIL ON HISTORIC PRESERVATION (ACHP),
AND TEXAS SHPO**

NEVADA NUCLEAR WASTE STORAGE INVESTIGATIONS (NNWSI) STATUS OF PROGRAMMATIC AGREEMENT

MAY 1987 REVISED PA TO BE SENT TO NEVADA SHPO

MAY 1987 RESOLUTION OF OUTSTANDING ISSUES

**JUNE 1987 PA TO BE SIGNED BY DOE/NNWSI, DOE/HQ, ACHP, NEVADA
SHPO**

BASALT WASTE ISOLATION PROJECT (BWIP) STATUS OF PROGRAMMATIC AGREEMENT

- MARCH 1987** REVIEW COMMENTS FROM DOE/HQ AND ACHP SUBMITTED TO BWIP ON WORKING DRAFT OF CULTURAL RESOURCE RESEARCH DESIGN
- AUG 1987** REVIEW COMMENTS EXPECTED FROM AFFECTED INDIAN TRIBES AND STATE
- OCT 1987** RESOLVE REVIEW COMMENTS
- JAN 1988** BEGIN PREPARATION OF PA FOR BWIP WITH ACHP AND WASHINGTON SHPO IN CONSULTATION WITH AFFECTED INDIAN TRIBES
- MAY 1988** FINALIZE PA
- JUNE 1988** PA TO BE SIGNED BY DOE/BWIP, DOE/HQ, ACHP, WASHINGTON SHPO, AND AFFECTED INDIAN TRIBES

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Tab L

Basalt Waste Isolation Project

Environmental Field Activities

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BWIP ENVIRONMENTAL FIELD ACTIVITIES

MAY 6, 1987

- **ACTIVITY-SPECIFIC ENVIRONMENTAL REVIEWS**
- **ENVIRONMENTAL CHARACTERIZATION**
 - **PRE-CHARACTERIZATION "RANGING" STUDIES**
 - **EMMP-DRIVEN STUDIES**
 - **EIS STUDIES**

BWIP ENVIRONMENTAL REVIEW PROCEDURE (BER)

- **REPLACES HANFORD ENVIRONMENTAL CHECKLISTS FOR POST-MAY 1986 BWIP ACTIVITIES**
- **KEY ELEMENT IN THE OVERALL ENVIRONMENTAL COMPLIANCE PROCESS - DETAILED IN ERCP**

BWIP ENVIRONMENTAL REVIEW (BER) STATUS

- **BER TECHNICAL PROCEDURES PREPARED**
- **BER FIELD PROCEDURES PREPARED**
- **BER SCIENTISTS SELECTED AND INSTRUCTED**
- **COORDINATION MADE WITH REGULATIONS GROUP**
- **SITE INFORMATION NEEDS SUBMITTED TO RHO**
- **SIX BERs IN PROGRESS**
- **ONE DRAFT REPORT SUBMITTED**

REVIEW OF EXISTING BWIP ENVIRONMENTAL CHECKLISTS

- **COMPILED ENVIRONMENTAL EVALUATIONS (EEs)**
- **COMPILED ENVIRONMENTAL ASSESSMENTS (EAs)**
- **COMPILED MAP OF COMPLETED SITES**
- **PREPARED PROCEDURES FOR REVIEW OF SITES**
- **PREPARED FIELD PROCEDURES FOR SITE REVIEW**
- **ASSIGNED SCIENTISTS FOR SITE REVIEWS**
- **SITE REVIEW TO BEGIN MAY 1987**

TERRESTRIAL AND AQUATIC ECOSYSTEMS

- **VEGETATION STUDIES**
- **ANIMAL STUDIES**

VEGETATION STUDIES

- **CURRENT STUDIES**

- **DETERMINE SPECIES COMPOSITION AND CANOPY COVER BY COMMUNITY TYPE**
- **SURVEY FOR SENSITIVE, THREATENED, AND ENDANGERED SPECIES**

- **PLANNED STUDIES**

- **COMPARATIVE VEGETATIONAL ANALYSIS FOR BURNED AND UNBURNED SITES**
- **GROUND TRUTH FOR AERIAL PHOTOGRAPHY**

ANIMAL CHARACTERIZATION STUDIES

- **CURRENT STUDIES**
 - **PROVIDE INFORMATION ON PRESENCE, ACTIVITY, AND ABUNDANCE OF IMPORTANT SPECIES**
 - **OBTAIN QUANTITATIVE DESCRIPTIONS OF EXISTING COMMUNITIES (BIRDS, REPTILES, MAMMALS)**
- **PLANNED STUDIES**
 - **DOCUMENT PRESENCE/ABSENCE OF SENSITIVE, THREATENED, AND ENDANGERED SPECIES BY HABITAT...**
 - **DETERMINE THE SEASONALITY AND EXTENT OF USE OF THE SITE BY DEER AND ELK**
 - **OBTAIN BASELINE DATA ON POPULATION PARAMETERS FOR SENSITIVE SPECIES**

AIR QUALITY

- **PLANNED STUDIES**
 - **OBTAIN SITE SPECIFIC BASELINE DATA ON TSP**
 - **MONITOR EFFECTS OF SITE CHARACTERIZATION ACTIVITIES ON TSP**

LAND USE/SOILS

- **PLANNED STUDIES**
 - **MONITOR AND EVALUATE LAND SURFACE CHANGES USING TIME-SEQUENCED AERIAL PHOTOGRAPHY**
 - **INTEGRATE WITH VÉGETATION STUDIES**

NOISE

- **PLANNED STUDIES**
 - **MEASURE BASELINE NOISE CONDITIONS**
 - **IDENTIFY NOISE SOURCES AND DEVELOP A BASIS TO ASSESS IMPACTS OF NOISE ON WILDLIFE**

ARCHAEOLOGICAL AND CULTURAL RESOURCES

- **PLANNED STUDIES**
 - **INVENTORY ARCHAEOLOGICAL AND HISTORICAL PROPERTIES FROM EXISTING RECORDS**
 - **DEVELOP SURVEY TECHNIQUES AND CONSULTATION PROCEDURES**
 - **CONTINUE ARCHAEOLOGICAL REVIEWS UNDER BER PROCEDURE**
 - **FINALIZE HANFORD CULTURAL RESOURCES RESEARCH DESIGN**

RADIOLOGICAL CONDITIONS

- **PRESENT STUDIES**
 - **BASELINE DATA ON POTENTIAL FOR SPREAD OF RADIONUCLIDES**
- **PLANNED STUDIES**
 - **REVIEW AND CONSOLIDATE HISTORICAL DATABASE**
 - **ESTABLISH SITE CHARACTERIZATION SAMPLING MEDIA, LOCATIONS, AND ANALYTICAL TECHNIQUES**
 - **IDENTIFY ENVIRONMENTAL PATHWAYS INCLUDING POTENTIAL BIOLOGICAL AGENTS FOR EXPOSURE**

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**NNWSI PROJECT
ENVIRONMENTAL ACTIVITIES
OVERVIEW**

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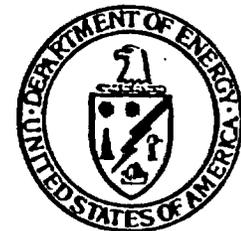
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ENVIRONMENTAL COORDINATION GROUP MEETING

MAY 6, 1987

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**NNWSI PROJECT
ENVIRONMENTAL ACTIVITIES
OVERVIEW**

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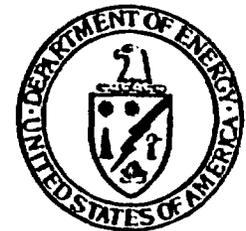
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ENVIRONMENTAL COORDINATION GROUP MEETING

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ENVIRONMENTAL PROGRAM ACTIVITIES SINCE JANUARY 1987 ECG MEETING

HQ/PO

- ENVIRONMENTAL MONITORING AND MITIGATION PLAN (EMMP)
- ENVIRONMENTAL REGULATORY COMPLIANCE PLAN (ERCP)
- ENVIRONMENTAL FIELD STUDY PLANS
- HISTORICAL/ARCHAEOLOGICAL PROGRAMMATIC AGREEMENT

PO

- ENVIRONMENTAL PROGRAM PLAN (EPP)
- ENVIRONMENTAL SUPPORT TO SITE CHARACTERIZATION PLAN (SCP)

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ENVIRONMENTAL MONITORING AND MITIGATION PLAN

- WORKING DRAFT EMMP TO STATE FOR REVIEW 12/1/86
- EMMP BRIEFING TO STATE 1/23/87
- COMMENTS ON THE WORKING DRAFT EMMP FROM THE STATE 3/3/87
- ENVIRONMENTAL FIELD STUDY PLAN UNDER DEVELOPMENT AS REQUIRED BY EMMP 7/7/87
- EMMP REVISION I TO STATES AND TRIBES 9/1/87

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ENVIRONMENTAL REGULATORY COMPLIANCE PLAN

- SECOND WORKING DRAFT ERCP TO HQ 3/9/87
- HQ COMMENTS RECEIVED 4/13/87
- THIRD WORKING DRAFT ERCP TO HQ 5/22/87
- INITIATE MEETINGS WITH REGULATORY AGENCIES 5/1/87

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ARCHAEOLOGICAL/HISTORICAL PROGRAMMATIC AGREEMENT

- **DRAFT AGREEMENT TO STATE** **6/2/86**

- **REVIEW MEETING WITH STATE HISTORICAL
PRESERVATION OFFICER (SHPO)** **9/23/86**

- **REVISED AGREEMENT TO SHPO** **5/15/87**

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ENVIRONMENTAL FIELD STUDY PLANS

- ENVIRONMENTAL PLANNING WORKING GROUP MEETING 2/3/87
- HQ PROVIDED GENERIC OUTLINE FOR ENVIRONMENTAL STUDY PLANS 4/8/87
- STUDY PLANS ARE BEING DEVELOPED FOR THE FOLLOWING EMMP CATEGORIES
 - AIR QUALITY (TSP)
 - RADIOLOGICAL LEVELS
 - ARCHAEOLOGICAL/HISTORICAL RESOURCES
 - TERRESTRIAL RESOURCES
- DRAFT STUDY PLANS TO HQ 7/7/87

U.S. DEPARTMENT OF ENERGY

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Nevada
Nuclear
Waste
Storage
Investigations
PROJECT

YUCCA
MOUNTAIN

ENVIRONMENTAL PROGRAM PLAN ENVIRONMENTAL SUPPORT TO SCP

EPP

- PREPARING NNWSI PROJECT ENVIRONMENTAL PROGRAM PLAN

SCP SUPPORT

- WRITING CHAPTER 5.0 METEOROLOGICAL CONDITIONS
- WRITING SECTION 8.3 LAND OWNERSHIP
 OFFSITE INSTALLATIONS AND OPERATION
 METEOROLOGICAL CONDITIONS
 RADIOLOGICAL CONDITIONS
- REVIEWING SECTION 8.4 PLANS FOR SURFACE PREPARATION
- REVIEWING SECTION 8.7 DECONTAMINATION AND DECOMMISSIONING

U.S. DEPARTMENT OF ENERGY

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PROJECT

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ONGOING FIELD INVESTIGATIONS

- **METEOROLOGICAL...**
TEMPERATURE, WIND, RELATIVE HUMIDITY (SAIC)
- **PRECIPITATION...**
STORM CONDITIONS, CLIMATIC MODELING (USGS-SAIC)
- **SURFACE WATER RUNOFF...**
STREAM FLOW (USGS)
- **GROUNDWATER...**
WATER TABLE, UNSATURATED ZONE CONDITIONS (USGS)
- **GEOPHYSICAL...**
TECTONICS, SEISMOLOGY (USGS)

3

Tab N

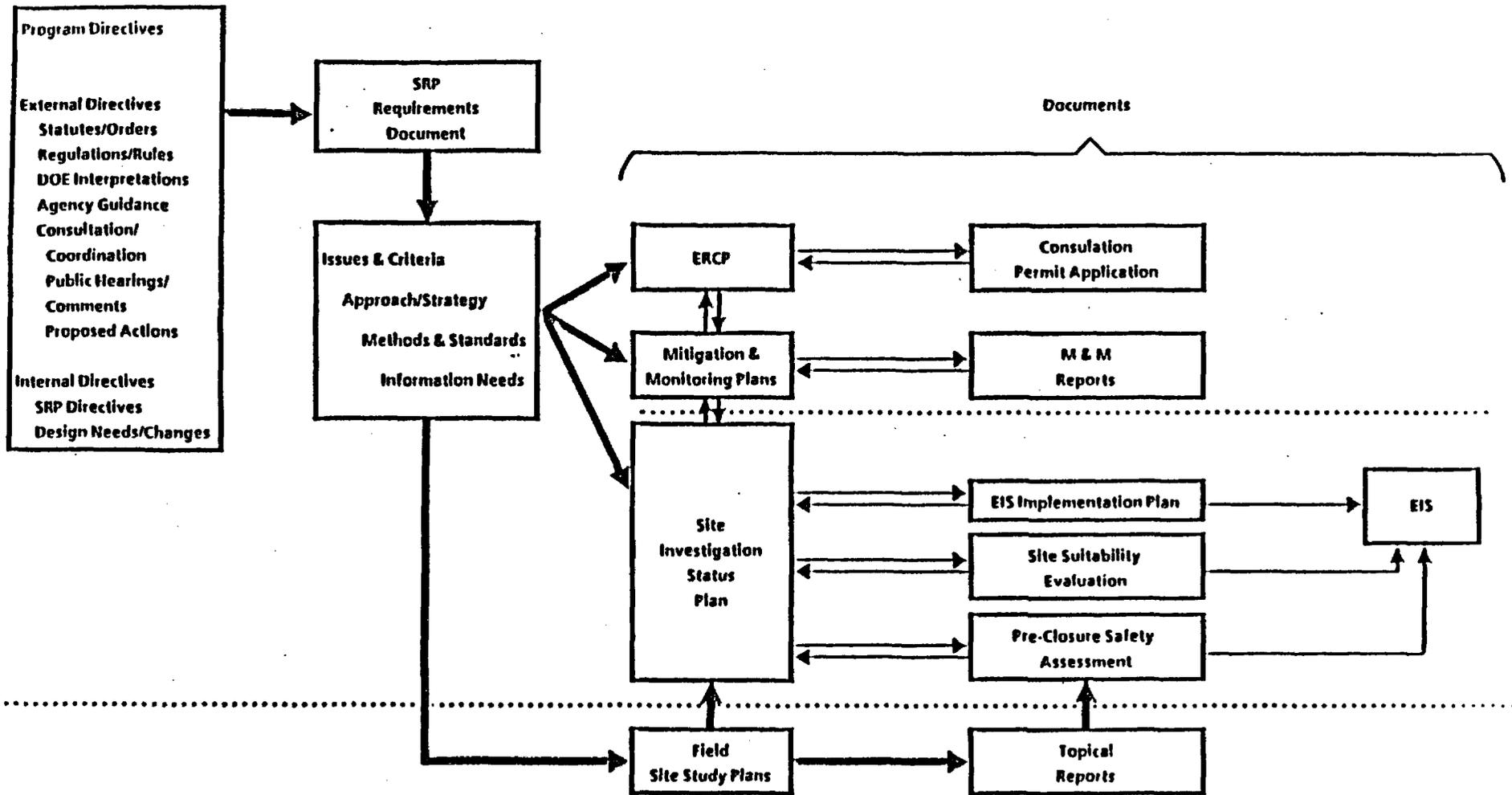
Salt Repository Project

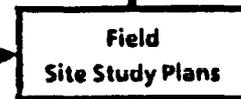
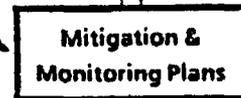
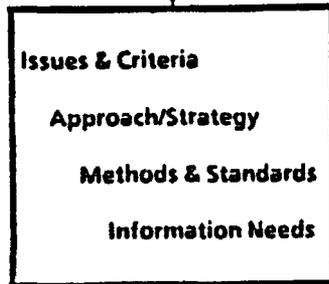
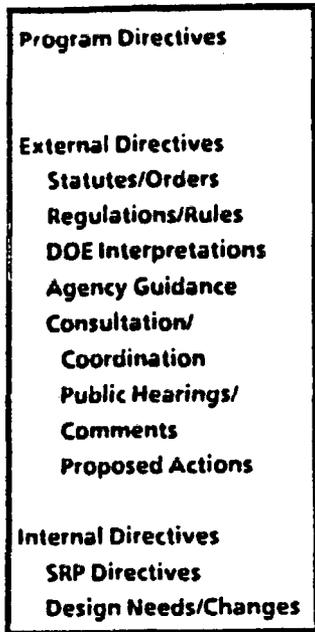
Environmental Field Activities

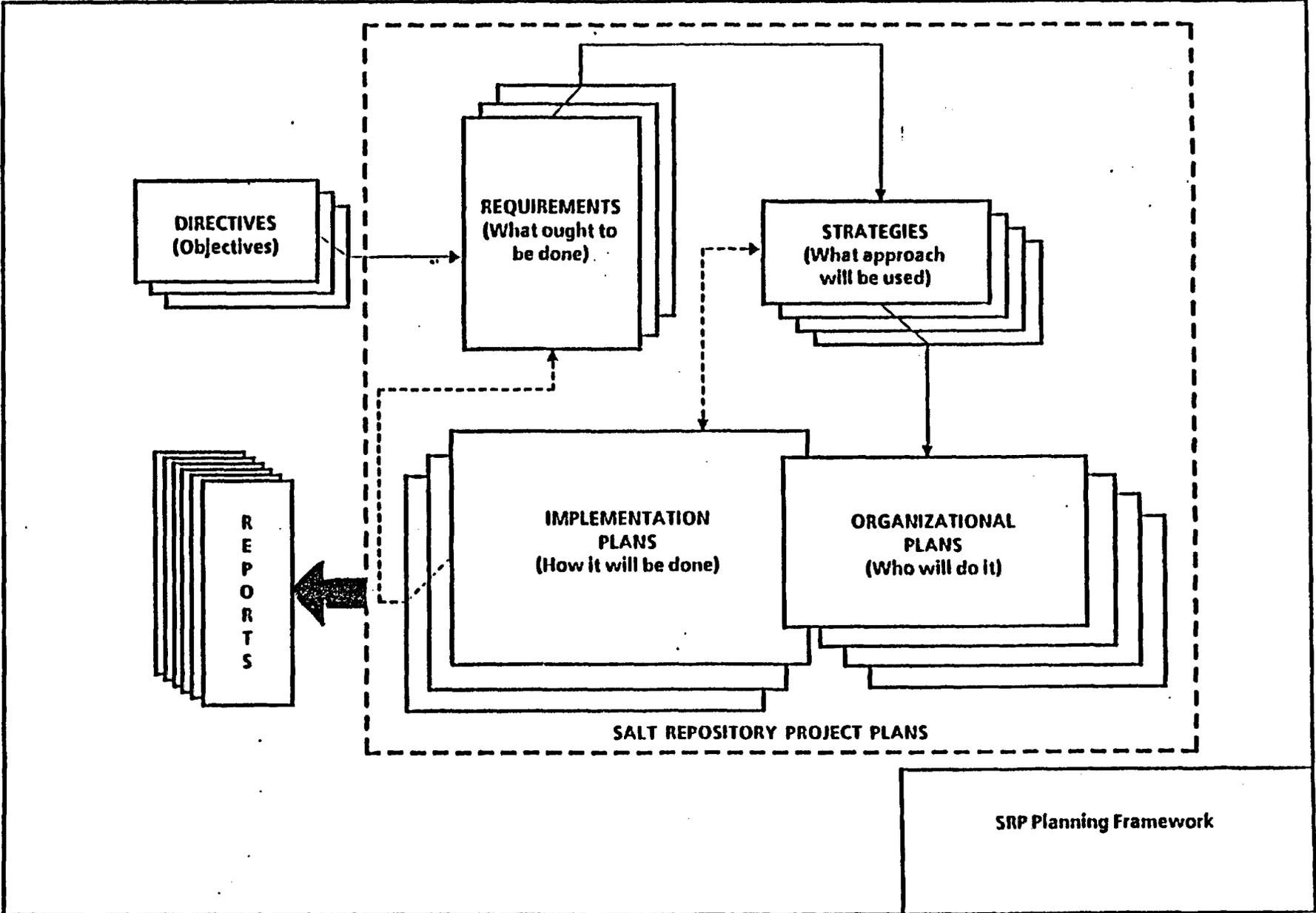
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SALT REPOSITORY PROJECT



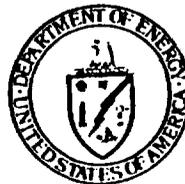




REQUIREMENTS AND INFORMATION DOCUMENTATION PROCESS

- IDENTIFY PROJECT REQUIREMENTS.
- IDENTIFY ALL LOWER-LEVEL REQUIREMENTS.
- DEVELOP AN APPROACH FOR RESPONDING TO EACH REQUIREMENT.
- IDENTIFY, DEVELOP, AND DEFEND THE METHODS.
- IDENTIFY INFORMATION NEEDS.

4/30/87

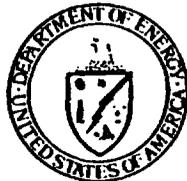


Salt Repository Project

SCOPE OF RID PROCESS

- REQUIREMENT IDENTIFICATION AND RESOLUTION STRATEGY
- ASSESSMENT METHODS AND STANDARDS SELECTION
- INFORMATION REQUIREMENTS RESOLUTION

4/30/87



Salt Repository Project

DRAFT OUTLINE FOR REQUIREMENTS IDENTIFICATION DOCUMENT

1.0 INTRODUCTION

1.1 PURPOSE AND SCOPE

1.2 FUNCTIONAL REQUIREMENTS

1.3 RESOLUTION APPROACH

2.0 REQUIREMENTS IDENTIFICATION

2.1 SRP-RD TITLE (E.G., LAND) AND SECTION (E.G., 1.1.1.1)

2.1.1 FUNCTIONAL REQUIREMENT NUMBER 1

2.1.1.1 LOWER-LEVEL REQUIREMENTS FOR FUNCTIONAL
REQUIREMENT NUMBER 1

4/30/87



Salt Repository Project

DRAFT OUTLINE FOR ASSESSMENT METHODS AND STANDARDS REPORT

1.0 INTRODUCTION

1.1 PURPOSE AND SCOPE

1.2 CONTENT, ORGANIZATION AND USE

2.0 IMPACT ASSESSMENT METHODS

2.1 REQUIREMENT NUMBER 1

2.1.1 REQUIREMENTS OF ASSESSMENT METHOD/STANDARD

2.1.2 ALTERNATIVE ASSESSMENT METHOD/STANDARD

2.1.3 PREFERRED ASSESSMENT METHOD/STANDARD

2.1.4 REFERENCES

4/30/87



Salt Repository Project

DRAFT OUTLINE FOR INFORMATION NEEDS DOCUMENT

1.0 INTRODUCTION

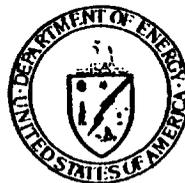
1.1 PURPOSE AND SCOPE

1.2 CONTENT, ORGANIZATION AND USE

2.0 INFORMATION REQUIREMENTS

3.0 INFORMATION NEEDS SORTED BY DISCIPLINE

4/30/87



Salt Repository Project

3

TAB 0

Minutes, Agenda, and Attendance Sheets

Environmental Planning Working Group

2

ENVIRONMENTAL PLANNING WORKING GROUP (EPWG)

AGENDA

May 6, 1987

<u>Time</u>	<u>Topic</u>	<u>Speaker</u>	<u>Reference</u>
1:00	Status of Integrated Environmental Field Program Planning	Sharma	Tab H: Minutes of EPWG Meeting Tab I: Draft Revised EPWG Charter Tab J: Kale Memo on ESP Generic Outline Tab K: Environmental Program Overview Draft
1:30	SRPO Progress Report	Ladino	SRPO Handout
2:00	NNWSI Progress Report	Jankus	NNWSI Handout
2:30	B R E A K		
2:45	BWIP Progress Report	Whitfield	BWIP Handout
3:15	Group Discussion		
4:30	Conclusion	Sharma	
	<ul style="list-style-type: none">• Schedule• Action Items• Summary		

Meeting Minutes of the Environmental Planning
Working Group

May 6, 1987
Seattle, Washington

The second meeting of the Environmental Planning Working Group (EPWG) commenced at 1:30pm on May 6, 1987, at the Stouffer-Madison Hotel, Seattle, Washington. Present at this meeting were the members of the EPWG and, for the first time, participants from the affected States and Indian Tribes (attendance list-Attachment 1).

Raj Sharma (EPWG Chairman) welcomed the affected parties to their first EPWG meeting and provided an overview of the overall repository environmental program. Raj requested that all the EPWG participants read the Environmental Program Overview, which was prepared for DOE by Argonne National Laboratory. Raj encouraged participants to provide HQ with any comments they may have on this document.

Organizational Structure and Function of the EPWG

Raj Sharma provided the group with an overview on the organization and function of the EPWG. This presentation focused on the EPWG charter (advance copies were sent to the meeting attendees in the reference package-Tab 1). Also provided were specific details on the outline and schedule for preparing Environmental Site Study Plans (ESSPs). Betty Jankus (NNWSI), Steve Whitfield (BWIP) and Tony Ladino (SRPO) voiced concern over the schedule for producing the ESPs -- they felt it may be necessary for the Project Offices (POs) to share draft plans with the states at intervals other than those proposed in the HQ schedule. Raj indicated that to do so in advance of HQ review and approval of the ESPs could affect the POs ability to be responsive to affected parties concerns. Raj emphasized that only DOE-HQ approved study plans should be sent to the affected parties for review and comment.

Carl Johnson (Nevada) asked Raj for clarification on how the EPWG operated. Raj reported that the EPWG worked as a group - that decisions were made by the group as a whole and that those decisions were then implemented by Steve Kale memos to the Project Managers (for schedule and policy decisions) or by J. Parker/R. Sharma memos to the EPWG members for other matters, as appropriate.

Project Office Status Reports

Tony Ladino (SRPO), Betty Jankus (NNWSI) and Duane Fickeisen, for Steve Whitfield (BWIP), provided status reports on the PO preparation of the ESSPs. The state of Texas representative requested clarification on Tony Ladino's vu-graph depicting ESP information needs. Tony indicated that the information needs drivers described in the chart were the primary drivers and that others would be added as a result of progress made on developing the Environmental Regulatory Compliance Plan (ERCP) and as EIS planning proceeded. Tony emphasized that the ESSPs were "living documents" that would be revised, as necessary, to address developing program needs.

Carl Johnson asked for clarification on the extent of "completeness" of the DEIS. Raj indicated that the DEIS would be written based on information contained in the Advanced Conceptual Design (ACD) and that the impacts would be "bounded" such that changes in environmental impacts resulting from changes in the final repository design, should not require changes in the DEIS.

Duane Fickeisen (BWIP) indicated that the ESSPs would be reviewed by the NRC. Donald Provost (Washington) asked why the ESSPs content would differ just because the NRC might review them.

He asked if the content differed from original plans since the affected parties were going to review them. HQ clarified that the ESSPs content would not differ for expanded audiences. HQ also took the action to clarify NRC's role in the ESSPs development.

Discussion

Raj asked for general comments/impressions from the affected parties. The representative from the Yakima Indian Nation asked where the information from the EMMP, the ESSPs, and the SMMP would be rolled-up in a combined decision making process. Raj indicated that how the information is rolled-up is a function of the end-requirements. S. Whitfield was asked to meet with the Yakimas to clarify the process.

The Yakima Indian Nation requested that future EPWG meetings be held in a "workshop" fashion and Raj agreed that they would be held in such a manner.

The Nez Pierce representative indicated they were potentially affected by both the repository activities as well as the transportation aspects of the program. He cited the need for a consistent set of program definitions to be applied program-wide.

ACTION ITEMS

OGR ENVIRONMENTAL PLANNING WORKING
GROUP MEETING
May 6, 1987
Seattle, Washington

<u>ITEM</u>	<u>ASSIGNED TO</u>	<u>DUE</u>
1. The Site Evaluation Branch (SEB) will revise the Environmental Planning Working Group (EPWG) charter to acknowledge that an additional reason for establishing the EPWG was to provide a forum for DOE/affected parties' interactions and coordination.	R. Toft (SRA-EPWG Exec. Secy.)	In August reference package for the next EPWG meeting.
2. The SEB will contact the Nuclear Regulatory Commission (NRC) to determine what role NRC desires in the development of DOE's Environmental Study Plans (ESPs). Steve Kale will send a memo to the Project Managers stating which ESPs, if any, the NRC wants to review.	R. Sharma	June 26
3. DOE HQ will brief the states/affected parties on the Licensing Support System (LSS). The time and location for this briefing needs to be established.	R. Sharma/ C. Head	In August reference package for the next EPWG meeting.
4. The SEB agreed to solicit agenda items from the states and affected Indian Tribes in advance of the next EPWG meeting.	R. Toft (SRA)	1 month in advance of next meeting.
5. Future meetings of the EPWG will be conducted in a "workshop" mode (to the extent it is appropriate), rather than focusing on status presentations by HQ and the Project Offices.	R. Sharma	In August reference package for the next EPWG meeting.

ENVIRONMENTAL PLANNING WORKING GROUP
MAY 6, 1987

NAME	ORGANIZATION	ADDRESS	PHONE
Gary Beall	SRA	4700 King St, Alexandria, Va	703 671-7171
Dick Toft	SRA Technologies	"	"
Nancy Carnes	SASC	P.O. Box 2501 Oak Ridge, Tenn	615- 482-9031
Ann McDonough	DOE / ERA ^{BGR} / EIAS	Forrestal Bldg	202- 586- 5975
Dave Hassner	DOE / NV - OCC	USDOE - NV LAS VEGAS, NV 89114	FIS 575- 3581
Debbie Valentine	DOE / HQ	Wash DC	FIS 896-4910
Quinn Peterson	DOE / HQ	WASH DC	202 586-4957
Ed McCann	SASC	Las Vegas NV	FIS 295-4856

Environmental Planning Working Group
 May 6, 1987

NAME	ORGANIZATION	ADDRESS	PHONE
Steve Frank	DOE/ESH.	Forrestor.	202/ 586-1979
Gary Marmor	Argonne National Lab		415 972-3367
Linda DeSelle	DOE/OSTS/MES	HQ	202 586-9738
Barry W. Smith	Western/ECR	955 L'Enfant Plaza Wash. D.C.	202 645-6665

EPW6 5/6/87

NAME	ORGANIZATION	ADDRESS	PHONE
Clare H. Fickens	PNL/BWIIP	Richland	509 375-2960
Ron Daniels	Ut HLNW Office	SLC	801 538- 5340
Tom PAGE	PNL/BWIIP	Richland	509 375-2936
Ed Pentecost	ANL	9700 S. Cass Ave Argonne, IL 60439	F75 972-8849

3

Tab P

Handouts

Environmental Planning Working Group

3

**ENVIRONMENTAL PLANNING WORKING
GROUP MEETING**

SEATTLE, WASHINGTON

MAY 6, 1987

ENVIRONMENTAL PLANNING WORKING GROUP

PURPOSE

The purposes of the Environmental Planning Working Group (EPWG) are to:

- o Ensure coordination and communication among all HQ and PO personnel involved in environmental planning for field studies.**
- o Provide an appropriate level of programmatic comparability among the site-specific environmental field programs.**
- o Ensure the responsiveness of environmental data-gathering efforts to information needs.**

EPWG MEMBERSHIP

R. Sharma, RW-241, Chairperson

S. Frank, EH-25

R. Mussler, GC-11

A. Ladino, SRPO

E. Jankus, NNWSI

S. Whitfield, BWIP

R. Toft, SRA - Executive Secretary

EPWG OPERATING PROCEDURES

- o EPWG will meet approximately every four months, in conjunction with the Environmental Coordinating Group meetings.**
- o Prior to each meeting, the chairperson will request suggested agenda items from each member. Upon approval by the chairperson, the agenda will be forwarded to members no later than two weeks prior to the meeting.**
- o The agenda will clearly state the purpose(s) of the meeting and the topics to be covered.**
- o The chairperson will distribute the minutes of each meeting to the EPWG members for their review. Once approved, the minutes will become the official record. The minutes will contain agreements reached, and issues resolved, as applicable, and will include action items along with assignments for each such action item.**
- o Procedures for decisions in regard to action items, schedules, and issues resolution will be in accordance with Procedure OGR 1.0, "Coordinating Group Charter and Meetings."**

EPWG TASKS

- o Identify environmental field programs necessary to support programmatic requirements.**
- o Review existing PO environmental planning approaches.**
- o Provide a comparable framework for PO environmental field study planning.**
- o Review environmental field study plans prepared by POs for consistency with overall OCRWM policy.**
- o Review implementation status of PO environmental field programs.**
- o Develop common formats for environmental topical reports.**

GENERIC OUTLINE FOR ENVIRONMENTAL STUDY PLANS (ESPs)

PROCESS

- o February 3-4, 1987 Meeting in Las Vegas, Nevada**
- o SRPO Study Plan Outline Reviewed by POs to determine feasibility of using SRPO outline for all POs' ESPs.**
- o HQ/POs Staff Reached Agreement on use of Modified SRPO Outline for all POs' ESPs during March 17-18, 1987 Meeting in Washington, D.C.**
- o S. Kale memo to Project Managers (April 8, 1987) specifying use of Modified SRPO Outline as generic outline for all POs' ESPs.**

GENERIC ENVIRONMENTAL STUDY PLAN OUTLINE

FOREWORD

1.0 Introduction

1.1 Purpose and Scope

1.2 Description of the Site

1.3 Previous Studies

1.4 Organization of the Site Study Plan Document

2.0 Study Rationale and Information Requirements

2.1 Federal, State, and Local Requirements

2.2 Repository Program Requirements

3.0 Technical Design of the Study

3.1 Description of the Study Design

3.2 Rationale for Study Design

3.3 Rationale for the Selection of the Study Methods

3.4 Description of Applicable Technical Procedures

3.5 Equipment and Materials

3.6 Data Analyses

3.7 Application of the Results

GENERIC ENVIRONMENTAL STUDY PLAN OUTLINE (Cont'd)

4.0 Data Management

- 4.1 Data Reduction**
- 4.2 Data Management**
- 4.3 Data Reporting**

5.0 Schedule and Milestones

- 5.1 Study Schedule**
- 5.2 Milestones**
- 5.3 Concurrent Studies**

6.0 Organization/Management

- 6.1 Manpower Requirements and Organization**
- 6.2 Sample Management**
- 6.3 Health and Safety**

7.0 Quality Assurance

8.0 References

SCHEDULE FOR PREPARATION OF ESPs

<u>ACTIVITY</u>	<u>SCHEDULE</u>	
	<u>EMMP-DRIVEN ESP_s</u>	<u>NON-EMMP-DRIVEN ESP_s¹</u>
o HQ/PO Agreement on Common Outline	03/17-18/87	03/17-18/87
o HQ Onsite Technical Reviews		
- SRPO	04/28-29/87	-
- NNWSI	05/12-13/87	08/24-25/87
- BWIP	06/09-10/87	09/16-17/87
o POs Transmit Draft ESPs to HQ	07/07/87	12/15/87
o HQ Transmits Review Comments to POs	08/04/87	01/05/88
o HQ/PO Workshop on ESP Resolution	09/01-03/87	02/16-18/88
o POs Transmit Revised Draft ESPs to HQ	10/06/87	03/26/88

¹ SRPO is producing all ESPs on EMMP-Driven ESPs Schedule.

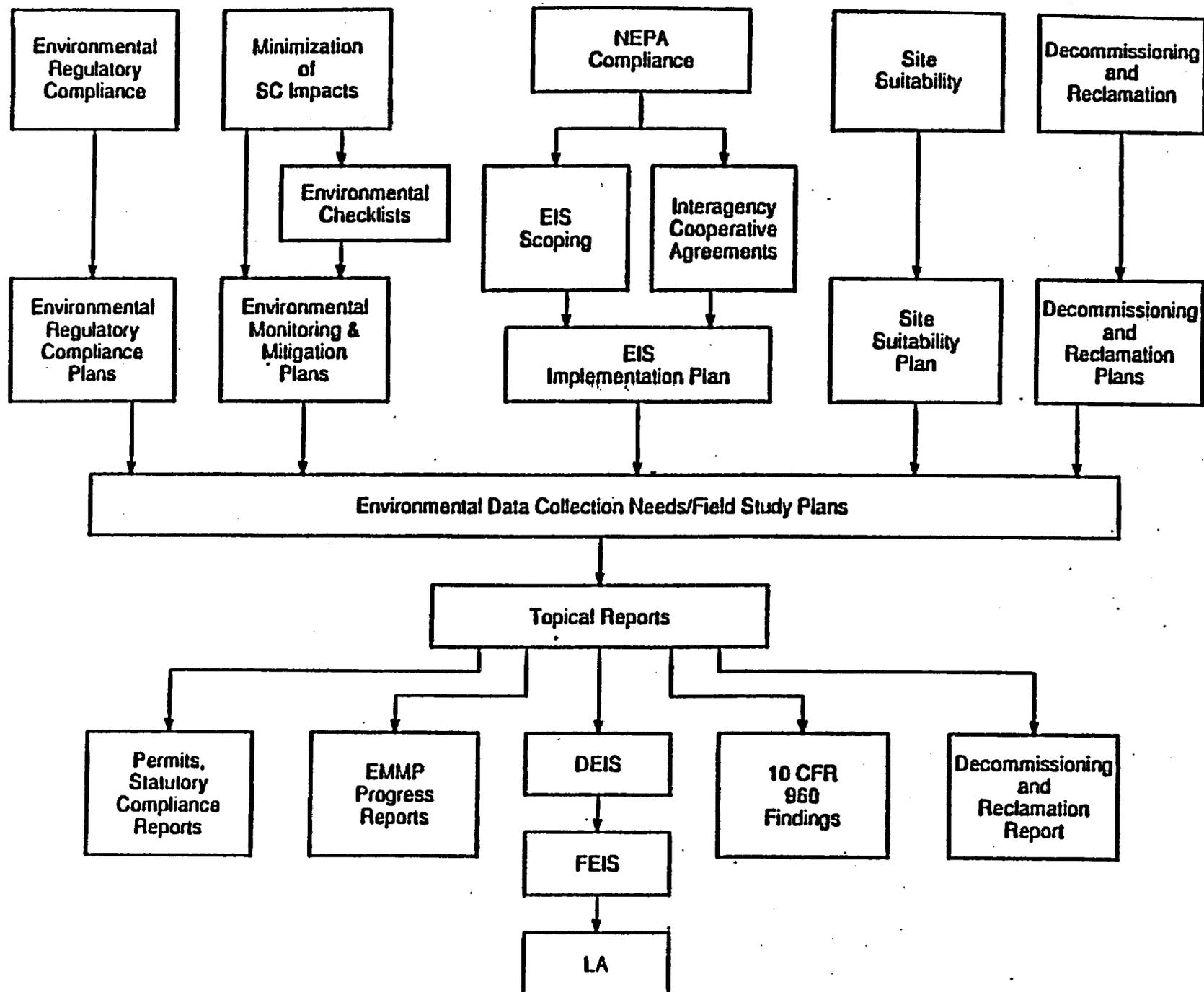
SCHEDULE FOR PREPARATION OF ESPs (Cont'd)

<u>ACTIVITY</u>	<u>SCHEDULE</u>	
	<u>EMMP-DRIVEN ESP_s</u>	<u>NON-EMMP- DRIVEN ESP_s</u>
o POs Transmit Revised Draft ESPs to Affected Parties	10/13/87	04/01/88
o Affected Parties' Comments on Draft ESPs Due at POs	01/15/88	07/01/88
o HQ/PO Workshop on ESP Comment Resolution	02/16-18/88	07/19-21/88
o Meetings with Affected Parties		
- BWIP	03/29-31/88	08/16-18/88
- NNWSI	04/05-07/88	08/23-25/88
- SRPO	04/12-14/88	-
o POs Transmit Final Draft ESPs to HQ	05/16/88	09/23/88
o POs Transmit Final Draft ESPs to Affected Parties	05/27/88	09/30/88

ENVIRONMENTAL PROGRAM OVERVIEW

- o INTRODUCTION**
- o ENVIRONMENTAL ASSESSMENTS**
- o ENVIRONMENTAL PROGRAM**
 - ENVIRONMENTAL CHECK LISTS**
 - ENVIRONMENTAL MONITORING AND MITIGATION PLANS**
 - ENVIRONMENTAL REGULATORY COMPLIANCE PLANS**
 - ENVIRONMENTAL SITE SUITABILITY PLANS**
 - ENVIRONMENTAL DECOMMISSIONING AND RECLAMATION PLANS**
 - ENVIRONMENTAL IMPACT STATEMENT**
 - EIS SCOPING**
 - EIS IMPLEMENTATION PLAN**
 - INTERAGENCY COOPERATIVE AGREEMENTS**
 - EIS MANAGEMENT PLAN**
- o SITE INVESTIGATIONS**
- o REPOSITORY ENVIRONMENTAL MONITORING PROGRAM**
- o REPOSITORY POSTCLOSURE ENVIRONMENTAL MONITORING PROGRAM**

DOE-OFFICE OF GEOLOGIC REPOSITORIES ENVIRONMENTAL PROGRAM FLOW DIAGRAM



SAMPLE FIELD STUDY PLAN DEVELOPMENT MATRIX

Topics	Applicable Regulations, Requirements ^a	Information Requirements	Field Study Plans	Topical Reports
Ecosystems				
Land Use				
Air and Meteorology				
Water Resources				
Soils				
Noise				
Aesthetics				
Archaeology, Historic and Cultural Resources				
Radiological Levels				
Transuranics and Utilities				
Site Specific Issues				

^a These include EMMP, Permitting and Statutory Requirements, 10 CFR 960, NEPA/EIS, Site Reclamation, Decommissioning, and Restoration.

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Tab Q

Salt Repository Project Office

Progress Report

on

Environmental Program Planning

2



SALT REPOSITORY PROJECT

SRPO Presentation

on

Salt Project Study Plan Preparation

May 1987

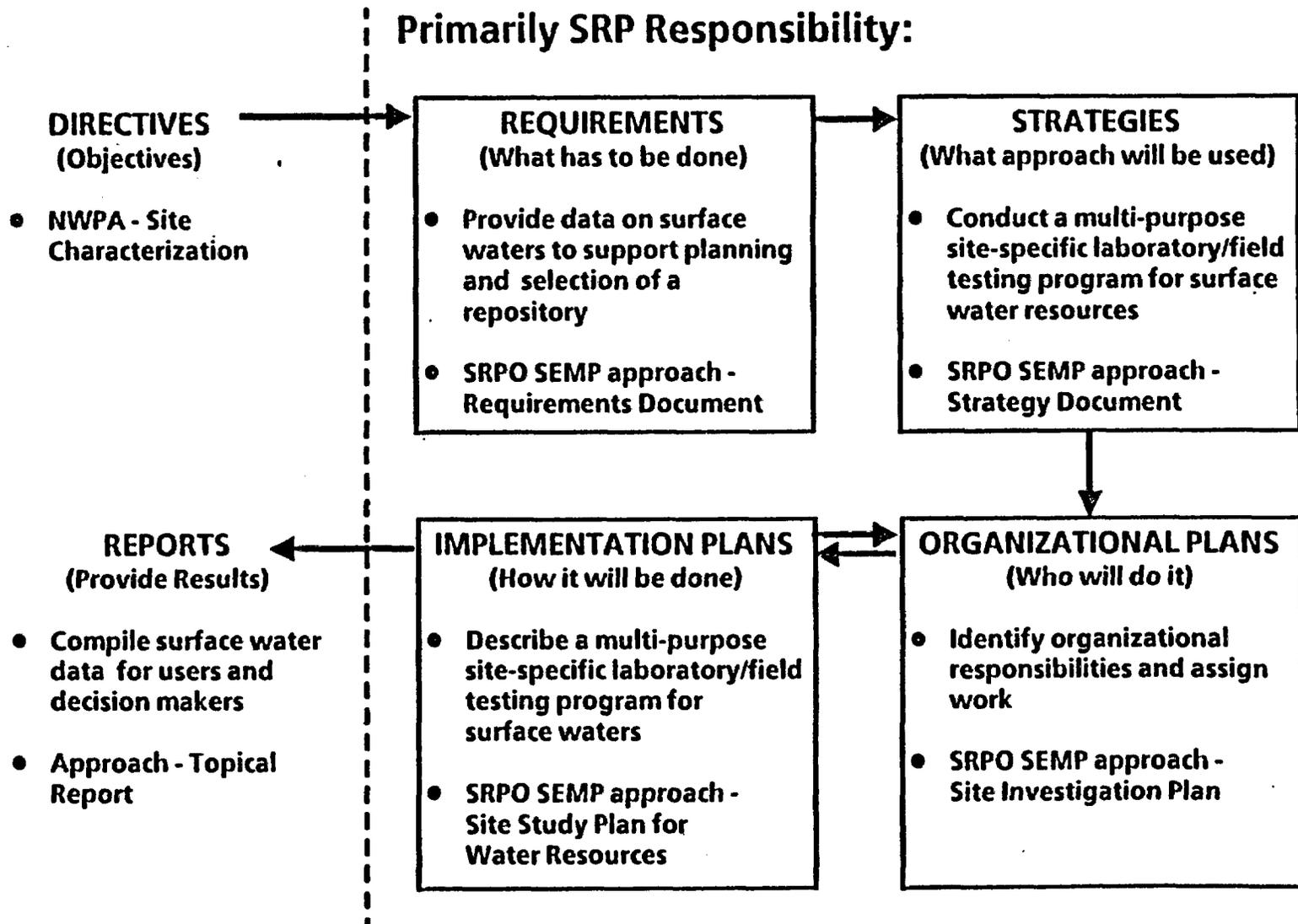
A. Ladino (SRPO)

W. McIntosh (ONWI)

SRPO Systems Engineering Management Plan (SEMP):

The SRPO SEMP is a DOE HQ required plan that uses a systems engineering approach to conducting and managing technical work at the Project Office level. This plan also describes the strategy for conducting and managing technical work and who in the project organization is responsible for carrying out the work.

An Example of the SEMP Planning Framework



Environmental Site Study Plans

Cultural Surveys

Ecological Surveys

Air Quality/Meteorology

Water Resources

Background Radiation

Land Use

Soils

Sound

Transportation

Utilities and Solid Waste

Aesthetics

Salt Impacts

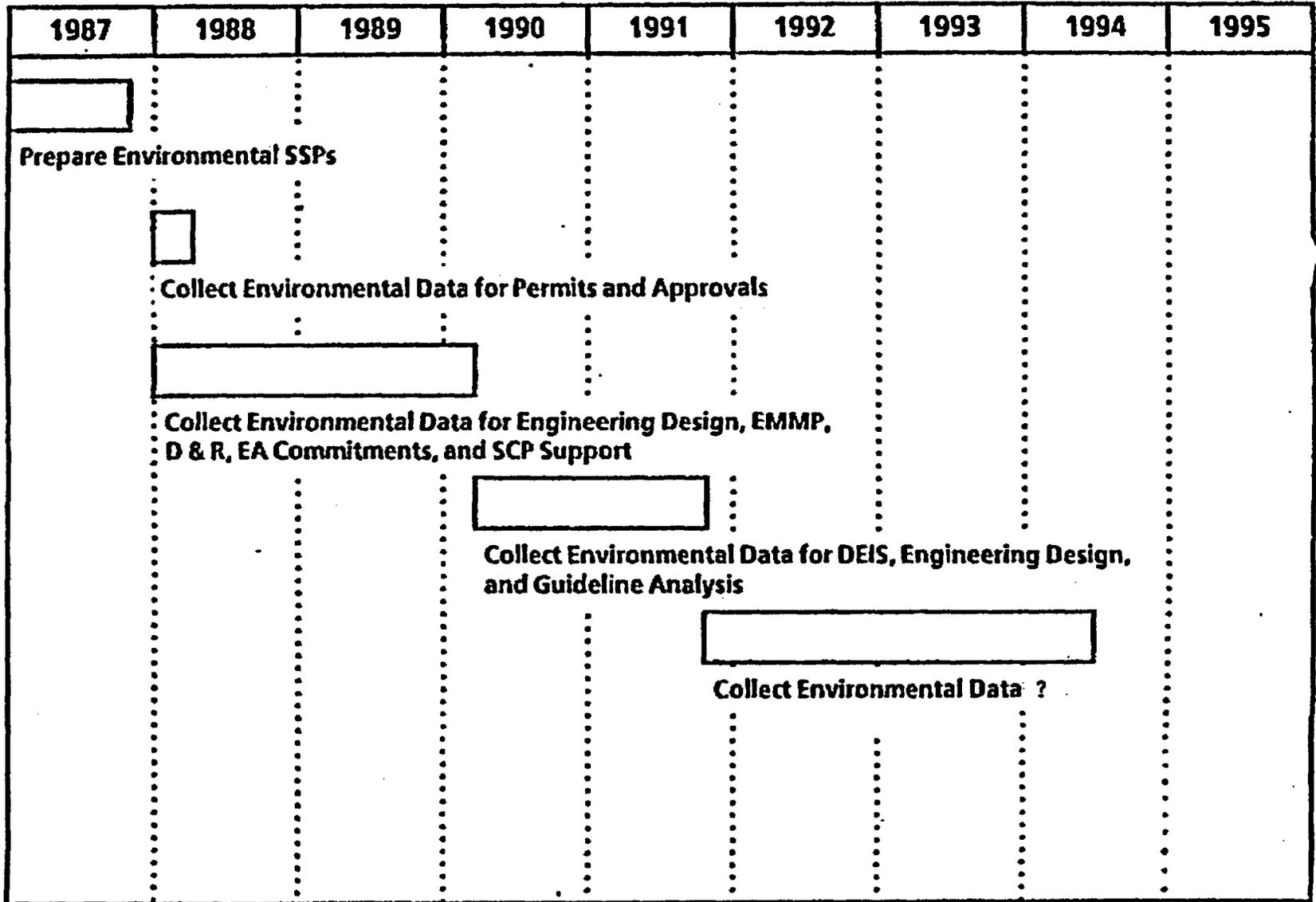
Committed Resources

May 1987

Environmental Information Needs Derived From SRP Draft Requirements Document

Requirement Discipline	Compliance With Environmental Permits and Approvals	Preparation of Decommissioning and Reclamation Needs	Monitoring and Mitigation EMMP	Environmental Response to Consultation and Coordination	Environmental Input to Engineering Design	Environmental Input to Licensing and SCP	Evaluation of Site Suitability Guidelines	Environmental Data Collection for EIS	EA Commitments
Land Use			●	TBD		●	●	TBD	●
Ecosystems	●	●		TBD	●	●	●	TBD	●
Hydrology	●	●	●	TBD	●	●	●	TBD	●
Met/Air				TBD	●	●	●	TBD	●
Noise			●	TBD	●		●	TBD	●
Cultural	●			TBD	●		●	TBD	●
Soil		●	●	TBD	●	●	●	TBD	●
Aesthetics		●		TBD	●		●	TBD	
Radiation				TBD		●	●	TBD	
Transportation				TBD	●	●	●	TBD	●
SRP-Salt Pile		●	●	TBD	●			TBD	●
SRP-Utilities/SW				TBD	●			TBD	
SRP-Committed Resources				TBD		●	●	TBD	

Tentative Schedule for Environmental Data Collection



SSP Format Development

- **DOE HQ (OGR) May 7-8, 1986 Agreement between DOE, NRC, the affected States and Indian Tribes on the level of detail for Site Characterization Plans and Study Plans**
 - **Highlights of agreement**
 1. **Study Plans will be separate from the SCP, issued periodically, and will reference to test procedures.**
 2. **At a minimum Study Plans will include:**
 - **Purpose and Objectives of Studies**
 - **Rationale for Selected Study**
 - **Description of Tests and Analysis**
 - **Application of Results**
 - **Schedule and Milestones**
 3. **NRC and affected States and Indian Tribes will review Study Plans that support the SCP**

Generic Site Study Plan Format

Foreword

1.0 Introduction

- 1.1 Purpose and Scope
- 1.2 Description of the Site
- 1.3 Previous Studies
- 1.4 Organization of the Site Study Plan Document

2.0 Study Rationale and Information Requirements

- 2.1 Federal, State, and Local Requirements
- 2.2 Repository Program Requirements

3.0 Technical Design of the Study

- 3.1 Description of the Study Design
- 3.2 Rationale for Study Design
- 3.3 Rationale for the Selection of the Study Methods
- 3.4 Description of Applicable Technical Procedures
- 3.5 Equipment and Materials
- 3.6 Data Analysis
- 3.7 Application of the Results

4.0 Data Management

- 4.1 Data Reduction
- 4.2 Data Analysis
- 4.3 Data Reporting

5.0 Schedule and Milestones

- 5.1 Study Schedule
- 5.2 Milestones
- 5.3 Concurrent Studies

6.0 Organization/Management

- 6.1 Manpower Requirements and Organization
- 6.2 Sample Management
- 6.3 Health and Safety

7.0 Quality Assurance

8.0 References

May 1987

Key SRPO Environmental SSP Assumptions:

- 1. All PO SSPs will follow a common format.**
- 2. The PO will produce one set of multi-purpose environmental SSPs.**
- 3. All PO SSPs will undergo formal DOE HQ, NRC, and Texas reviews.**

Water Resources - Information Needs

Surface-Water Characterization

- **Playa lake water balance to determine significance of surface-water infiltration to ground water**
- **Site-specific evaporation rates for design of project evaporation ponds**
- **Playa lake pollutant mass balance to determine and assess changes in playa lake water quality**
- **Stream pollutant mass balance to determine and assess changes in stream water quality**
- **Delineation of flood boundaries for design of repository.**

Ground-Water Characterization

- **Water table drawdown estimate to assess project's effect on local well-water availability**
- **Ground-water pollutant migration to assess project's effect on local ground-water quality.**

Water-Use Characterization

- **Projection of future water availability to assess project's effect on water supply and water supply's limitations on project.**

Water Resources Studies

Surface-Water Characterization

- **Drainage Basin Characteristics**
- **Hydrometeorology**
- **Runoff (stream and lake stage)**
- **Water Quality and Suspended Sediment**

Ground-Water Characterization

- **Hydrogeologic Framework (Geotech)**
- **Potentiometric Levels (Geotech)**
- **Unsaturated and Saturated Zone Properties (Geotech)**
- **Water Quality**

Water-Use Characterization

- **Current and Future Water Use**

Water Resources Technical Procedures

<u>Program Component</u>	<u>Technical Procedures</u>
<u>Surface-Water Characterization</u>	
Drainage Basin Characteristics	<ul style="list-style-type: none">• Determination of basin topographic characteristics• Determination of channel and playa lake characteristics
Hydrometeorology	<ul style="list-style-type: none">• Operation of a rain gage network• Processing of data from the rain gage network• Operation of an evaporation station• Processing of data from the evaporation station
Runoff	<ul style="list-style-type: none">• Operation of a stream stage gaging station• Operation of a playa lake stage gaging station• Processing of data from a stream or playa lake stage gaging station
Surface-water Quality	<ul style="list-style-type: none">• Collection, preservation, and shipment of water samples from ephemeral streams• Collection, preservation, and shipment of water samples from playa lakes• Field measurement of water temperature, pH, specific conductance, and dissolved oxygen• Collection of water samples using a U.S. U-59 sampler
<u>Ground-Water Characterization</u>	(Provided with Geohydrology Site Study Plan)
<u>Water-Use Characterization</u>	<ul style="list-style-type: none">• Inventorying of current water use and estimating projected water use

May 1987

Achievement of Quality for 12 Environmental SSPs

- **Preparation**
- **Review**
- **Issuance and Change Control**
- **Audits and Records**

May 1987

3

Tab R

Nevada Nuclear Waste Storage Investigation Project

Progress Report

on

Environmental Program Planning

2

U.S. DEPARTMENT OF ENERGY

**OC
RW
M**

NNWSI
Nevada
Nuclear
Waste
Storage
Investigations
PROJECT

**YUCCA
MOUNTAIN**

**Nevada
Nuclear Waste
Storage Investigations Project**

OGR

**NNWSI PROJECT
ENVIRONMENTAL PROGRAM PLANNING
Progress Report**

by

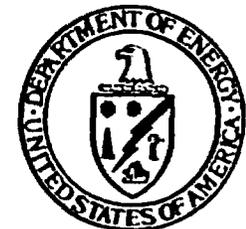
E. V. Jankus

ENVIRONMENTAL COORDINATION GROUP MEETING

MAY 6, 1987

United States Department of Energy

Nevada Operations Office/Waste Management Project Office





ENVIRONMENTAL FIELD STUDY PLANS

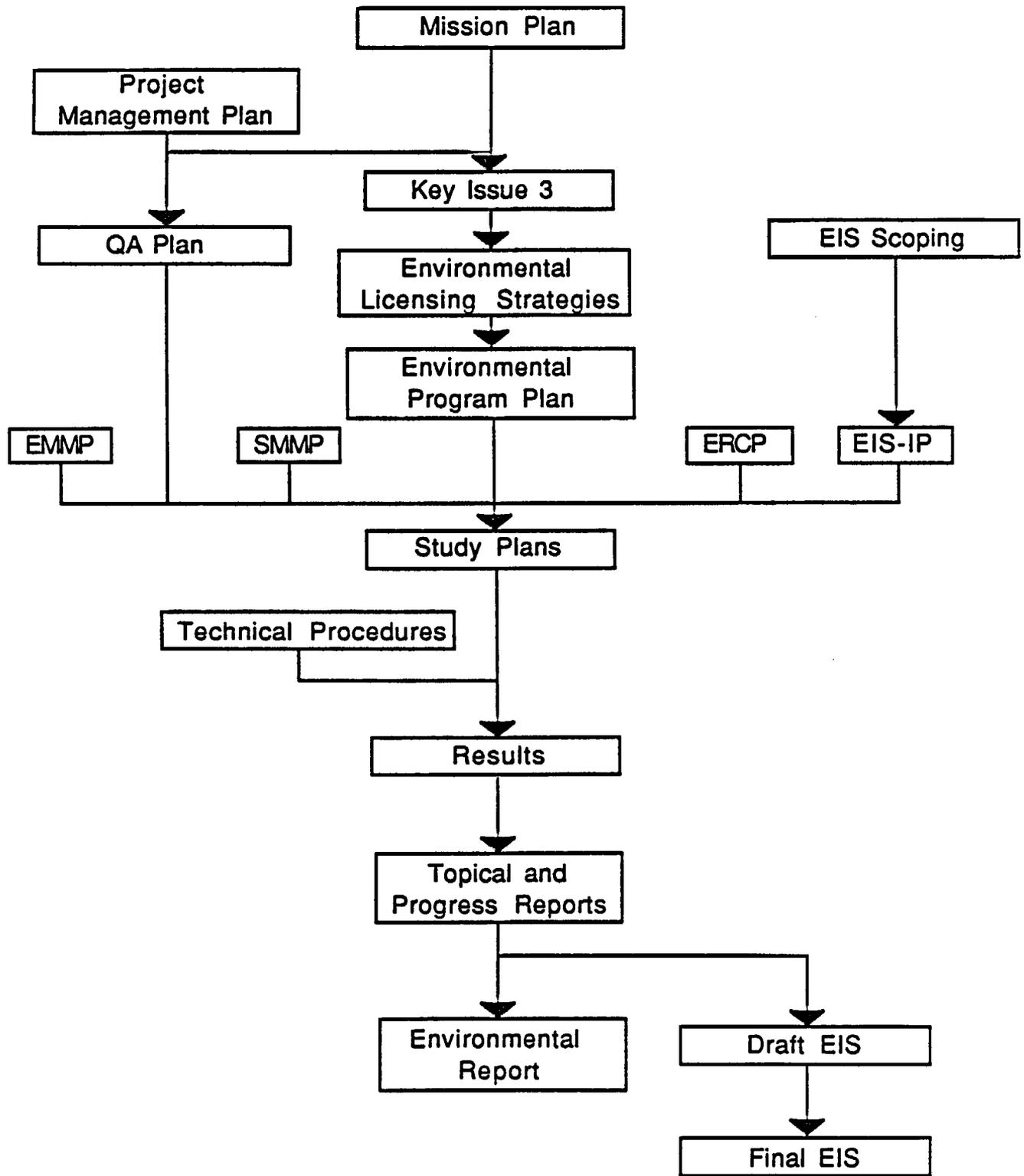
- ENVIRONMENTAL PLANNING WORKING GROUP MEETING 2/3/87
- HQ PROVIDED GENERIC OUTLINE FOR ENVIRONMENTAL STUDY PLANS 4/8/87
- STUDY PLANS ARE BEING DEVELOPED FOR THE FOLLOWING EMMP CATEGORIES
 - AIR QUALITY (TSP)
 - RADIOLOGICAL LEVELS
 - ARCHAEOLOGICAL/HISTORICAL RESOURCES
 - TERRESTRIAL RESOURCES
- DRAFT STUDY PLANS TO HQ 7/7/87

BWIP Environmental Field Program Planning

Duane H. Fickeisen
BWIP Environmental Studies and Compliance Project
Pacific Northwest Laboratory
Richland, Washington

Environmental Field Program Planning

- Planning Document Hierarchy
- Status Report on Document Preparation



Study Plan Purpose and Philosophy

- Document planned studies
- Study implementation guidance
- Link to hierarchical planning system
- Potential NRC technical review

BWIP Study Plan Preparation Procedure

- Uses SRPO Table of Contents as guidance
 - Focus on sections required by the DOE/NRC agreement
 - Will reference other documents as appropriate

Study Plan Guidance

- Include required content
- Be organized to facilitate NRC review
- Not include materials in other controlled documents
- Not include materials not subject to NRC review
- Not be written to stand alone

Study Plans are being prepared for:

- Radiological Studies
- Terrestrial/Aquatic Ecology Studies
- Archeological Studies
- BWIP Environmental Reviews
- Water Quality Studies
- Air Quality Studies
- Noise Surveys

Present status:

- Actively drafting all of the Study Plans
- Preliminary drafts have been completed for most
- Editing is in progress

Planned activities:

- Study Plan working drafts will be ready by July 7
 - Internal and BWIP Project Office reviews complete
- Revision and preparation of drafts
 - Revision and release to State and Affected Tribes

Tab T

**Agenda, Minutes (January & May 1987),
and Attendance Sheets**

Environmental Regulatory Compliance Working Group

ENVIRONMENTAL REGULATORY COMPLIANCE WORKING GROUP (ERCWG)

AGENDA

May 7, 1987

<u>Time</u>	<u>Topic</u>	<u>Speaker</u>	<u>Reference</u>
8:30	Introductory Remarks	Valentine	
	<ul style="list-style-type: none">• Discussion on content, composition and structure of the group• Schedule		Tab L: Schedule
9:00	SRPO report on meeting with EPA Region VI	White	Tab M: Trip Report
	<ul style="list-style-type: none">• Implications for others		
9:30	Environmental Regulatory Compliance Plans	Valentine	Vugraph Hard-Copy Handout
	<ul style="list-style-type: none">• Content• Status and Schedule		
10:15	BREAK		
10:30	Regulatory Issues Discussion	Working Group	Issues Handout
	<ul style="list-style-type: none">• Federal flow-down regulations• State and local regulations• RCRA• DOE/State and Indian Tribe perspectives		
12:00	Conclusion	Valentine	
	<ul style="list-style-type: none">• Action Items• Summary		

Meeting Minutes of Environmental
Regulatory Compliance Working Group

May 7, 1987, Seattle, Washington

The fourth meeting of the Environmental Regulatory Compliance Working Group (ERCWG) commenced at 8:30 a.m. on May 7, 1987, at the Stouffer-Madison Hotel, Seattle, Washington. Present at this meeting were the members of the ERCWG and, for the first time, participants from the affected States and Indian Tribes (Attendance List - Attachment 1).

Debbie Valentine, Chairperson of the ERCWG, welcomed the participants and informed them that the minutes of the third ERCWG meeting were inadvertently excluded from the reference package and that copies would be sent to the participants (Attachment 2). After a brief introduction, D. Valentine presented her first set of vugraphs.

Organizational Structure and Function of the ERCWG

The first agenda item was a discussion of the organizational structure and function of the ERCWG Minutes (Tab U included in the minutes for this meeting). D. Valentine explained that the ERCWG has several purposes including identifying and developing issue resolution strategies and discussing compliance approaches. She also discussed the responsibilities of the ERCWG which include reviewing the Project Office Environmental Regulatory Compliance Plans (ERCs) and monitoring Project Office compliance

activities. The membership of the ERCWG was also presented to the group. No discussion followed this presentation.

Interaction with Federal EPA Region VI-Representatives - Presentation by
W. White [Salt Repository Project Office (SRPO)]

W. White presented a summary of the SRPO meeting with representatives of EPA Region VI (See Tab V of these minutes and the complete report at Reference Package Tab M). The purpose of this meeting was to obtain information from EPA Region VI concerning the implementation of the Clean Air Act, Clean Water Act and other regulatory programs administered by EPA and/or the State of Texas.

W. White expressed the opinion that discussions with Federal agencies provided an excellent foundation for future discussions with the State of Texas regulatory agencies.

Discussion

W. White's presentation stimulated discussion in several areas. D. Stevens, a consultant to the State of Washington Office of High-Level Nuclear Waste, noted that DOE should allow sufficient time for the State permitting process, particularly since the State of Washington processes applications on a first-come-first-serve basis. Therefore, DOE should not expect priority treatment. However, a schedule could be negotiated with the State of Washington as was done in earlier phases of the repository program.

J. Reed, the representative from the State of Texas, requested from SRPO a schedule showing planned meetings with the Texas regulatory agencies. W. White responded that no dates had been set as yet. SRPO envisions that the first meeting with State agencies would introduce the SRPO program to the Texas regulatory agencies and discussions regarding permits to be obtained would be initiated in subsequent meetings.

J. Reed asked whether the draft ERCP would be revised after meetings with State agencies. W. White responded affirmatively. D. Valentine reiterated that the Draft ERCP will be used to initiate discussions with the States and will be modified, where necessary, after meetings with State officials.

B. Jankus of the NNWSI Project Office indicated meetings with Nevada State agencies are being planned for the near future, and a NNWSI staff member will soon be contacting the subject agencies. C. Johnson, the representative from the Nevada Nuclear Waste Project Office offered his opinion that the purpose of the meeting held in January 1987 between NNWSI and State regulatory officials was to discuss the Environmental Monitoring and Mitigation Plans (EMMPs), and not environmental regulatory compliance. He indicated that Nevada processes applications on a first-come-first-serve basis. He agreed that Nevada would meet in the future with NNWSI to discuss environmental regulatory compliance.

S. Whitfield indicated that BWIP's schedule of field activities precluded the same approach to meeting with Federal and State agencies as the other projects; BWIP will meet with State agencies on a case-by-case basis.

D. Provost stressed the need for BWIP to inform the State of Washington Office of High-Level Nuclear Waste prior to meeting with any Washington State regulatory Agency. This would allow the Office of High-Level Nuclear Waste to direct BWIP to the appropriate State agency. D. Provost also indicated that State permitting agencies would require BWIP to identify those portions of the site which are contaminated with radioactive or chemical hazardous waste.

D. Valentine presented a number of issues which had been discussed by the ERCWG at previous meetings (Tab U).

Issue No. 1: Contents of ERCP

The discussion dealt with the contents of the ERCP (Tab U).

D. Valentine acknowledged that some of the information had been presented at the January 1987 ECG meeting. The purpose of repeating it at this ERCWG meeting is to allow further discussion with the States and Indian Tribes.

D. Valentine discussed the revisions that were made to the preliminary working draft ERCP. An example is the integration of the description of field activities in Chapter 2 with the compliance requirements in Chapter 3.

Discussion

The representatives of the affected parties requested clarification as to whether the State or the DOE will make the ultimate determination about the applicability of a particular statute or regulation. The DOE representatives reiterated the DOE position that it will comply with all applicable Federal statutes and all State statutes which are Federal flow-down statutes. For other State laws, J. Parker reiterated the DOE position that it will comply with substantive requirements relating to the protection of the environment. However, there may be situations where DOE and an affected party will disagree on the need for compliance. It is DOE's intent to avoid this situation by consultation and negotiation with the affected parties.

A representative from Argonne National Laboratory asked whether the activities described in the ERCP were comparable to those activities described in the Environmental Monitoring and Mitigation Plan (EMMP). D. Valentine responded affirmatively and with the caveat that the ERCP description may be broader because more field activities are covered in the ERCP.

A question was raised as to how the ERCP relates to the DOE Project Decision Schedule (PDS). The DOE representatives acknowledged that State permitting schedules may need to be acknowledged in the Project Decision Schedule. It was noted by DOE that the purpose of the PDS is to provide coordination among the Federal agencies, and does not address coordination with State agencies. J. Parker noted that the PDS is also a mechanism to

allow OCRWM to have priority status with the other Federal agencies and he hoped that the same priority could be given by States to the DOE repository program.

There was a general discussion of schedule and content of the ERCP. W. White noted that SRPO will be submitting its next draft of the SRPO ERCP to Headquarters within the next two weeks. This version will include a description of State laws. SRPO will be consulting with the State of Texas regulatory agencies after the draft is transmitted to the State on September 1.

C. Johnson asked how the issuance of the ERCP relates to the issuance of the SCP, and whether there will be time for compliance with permitting requirements. DOE representatives assured the States that all required permits will be acquired.

C. Johnson requested that the State be given the opportunity to review the ERCP before meeting with the Project Office to discuss permits. J. Parker commented that DOE would expect the State to meet with the Project Offices on specific permitting issues, irrespective of the ERCP reviews.

Representatives from each State expressed the need to have a description of all the proposed activities prior to making a determination on the need for specific permits. S. Whitfield indicated that BWIP's detailed description of the proposed activities will be in the Site Characterization Plan (SCP). W. White indicated that the SRPO ERCP will contain detailed information, but will not go beyond what is in the Environmental Assessment (EA). J. Parker explained that the "big picture" can be derived from the EA, ERCP and the

SCP. In addition, the Project Offices have sufficient information at this time to provide an overview of the project site characterization activities.

Mr. Glenn Lane, the representative from the Council of Energy Resource Tribes (CERT), Nez Perce and Umatilla Indian Tribes, observed that SRPO seemed to be ahead of the other projects in providing detailed information. It also appears as if construction of the exploratory shaft is the schedule driver, and thus sufficient time for planning and permitting was not being allotted. J. Parker commented that DOE will continue on its current SCP schedule.

B. Jankus asked whether any State had a "one-stop" permitting process. D. Provost responded that the State of Washington has this option available to an applicant if it is requested. In order to exercise this option, the applicant must provide a description of the total program. Representatives from Nevada and Texas pointed out that their States do not have the "one-stop" permitting process.

During the discussion of the scope of the ERCP, C. Johnson asked where the requirements not addressed in the ERCP would be discussed. He inquired whether a list of those requirements or where they are identified in other OCRWM documents could be provided to the States. J. Parker indicated that if such a list were requested by a State, the Project Offices could provide such information. N. White stated that SRPO has developed a list which identifies all requirements and the organizations/persons who are responsible for implementing the requirements.

There was a general discussion on the subject of compliance with State requirements for acquisition of water, and the issue of DOE compliance with State laws. D. Gassman, Field Counsel for Nevada Operations, indicated that where appropriate, NNWSI will apply for permits and comply with terms and conditions. C. Johnson indicated his agreement with this approach.

D. Provost requested BWIP's position on compliance with Washington's water acquisition permit requirements. J. Comins Rick, Field Counsel for Richland Operations, reiterated Secretary Herrington's commitment to apply for a permit as a matter of comity. She expressed that it is unclear what this will entail. D. Provost inquired as to DOE's plans if BWIP requires the water before the permitting process is complete. J. Comins Rick responded that BWIP is in contact with State of Washington officials and will provide the appropriate information to the State. She also stressed BWIP's position that the Hanford Reservation has a "reserved water right", and does not need a permit from the State. D. Provost expressed his opposition to this position because BWIP's activities do not come under the War Powers Act.

Issue No. 2: Under What Circumstances Should Project Offices Use Similar Models?

D. Valentine stressed that the Project Office must work with DOE Headquarters to assure comparable approaches to modeling and level of detail, taking into account different site conditions. The Project Offices and Headquarters will examine the benefits of using models suggested by EPA or the State when they differ from models used at other sites.

Discussion

D. Provost indicated that unless the DOE uses the model required by the State, it may antagonize the State permitting agency. He also expressed the opinion that such issues should not arise because the ultimate decision as to which model should be used lies with the State. J. Parker indicated that the reason this issue was discussed internally is to ensure, where necessary and appropriate, that the Project Offices are consistent.

Discussion continued on the subject of timing of permitting activities. A representative from the State of Washington questioned whether the BWIP Project Office has allowed for sufficient time to obtain the appropriate permits. S. Whitfield responded that where an activity is on the critical path, contacts have been initiated with the appropriate State or Federal agency (e.g. Washington Department of Ecology and U.S. Fish and Wildlife Service).

C. Johnson asked whether the DOE would take its conclusion on the applicability of a particular statute to the State permitting agency. There was an affirmative response from each of the Project Offices.

J. Parker indicated that, consistent with DOE policy, if a permit is required before an activity may commence, the DOE will obtain the permit. S. Whitfield affirmed that this philosophy will apply to the upcoming BWIP large scale hydrologic test. He also indicated that the ERCP provides the "big picture", but the BWIP checklist will be used to assure that where any

activity requires a permit or consultation, it will be accomplished prior to the commencement of the activity.

In response to a concern raised by D. Provost that the ERCP may only be a public relations document, J. Parker emphasized that the ERCP is not a PR document; it is an internal management tool which will demonstrate DOE's plan to comply with applicable laws and regulations.

Issue No. 3: Who Should Sign Environmental Permit Applications?

D. Valentine presented the position that the Project Offices should use the procedures that are currently used by the specific DOE Operations Office.

Discussion

D. Gassman indicated that for the NNWSI program, the authorized signature will be the Operations Office rather than the NNWSI Project Manager (PM). C. Johnson offered the view that the Project Manager should sign in order that there would be direct accountability, and Nevada officials would have a contact with line management authority. D. Gassman responded that the Project Manager may not have the authority to bind DOE; however, it may be possible for the PM to be a co-signer.

S. Whitfield indicated that the BWIP Project Manager may sign the permit; however this is still under consideration.

B. White indicated that the permit will be signed by a DOE official and not a contractor.

J. Parker offered the observation that the DOE Operations Office has responsibility for compliance, and Headquarters (both Environment Health and Safety and RW) have a role because the repository is a national program and there is a need for consistency among the Project Office.

G. Lane requested that DOE officials at the highest level sign the permits. This does not necessarily mean signatures are required at the Director level, which was the approach used by DOE in earlier C&C negotiations. It was also noted that, in light of a new integrating contractor, the PMs may not be able to anticipate future events relating to the permit process.

C. Johnson offered the opinion that DOE should not do business as usual with this program. He suggested that if the DOE and affected parties agree upon an approach, then it should be implemented even if it differs from past DOE practices.

D. Valentine agreed to examine the extent of authority DOE officials have to sign permit applications and permits issued by Federal or State permitting agencies and the flexibility DOE officials have to delegate this authority.

Issue No. 4: Should all Project Offices Use On-Site Data For Demonstrating Compliance with Air Quality or other Permitting Requirements?

D. Valentine indicated that the current DOE position is that the Project Office should use permitting data which is acceptable to the permitting agency. If one agency requires on-site and another regional data, it would not be necessary for all projects to acquire on-site data.

Discussion

D. Provost inquired why on-site data would not be used. W. White responded that SRPO will use regional data where it is acceptable to the State. B. Jankus indicated that for a flat site, such as Deaf Smith, regional air quality data should be acceptable. J. Parker pointed out that one reason for not using on-site data may be the inability to obtain access to the site.

Both C. Johnson and D. Provost stressed the need to satisfy the permitting agency.

Issue No. 5: Should Classification of Hazardous Waste Be Consistent for All Projects?

D. Valentine indicated that the current DOE position is that there will be a consistent classification, subject to any specific State requirements such as those of the State of Washington.

Discussion

D. Stevens raised the question as to why this and other issues were considered "issues". The answers should have been obvious to the DOE and not raised to the level of issues. D. Provost agreed with Mr. Stevens.

A. Wagenbach, attorney with Battelle Project Management, responded that in the early stages of the development of the ERCP, Project Offices were not examining activities in the same way with respect to RCRA and other environmental regulatory issues.

This concluded D. Valentine's presentation. She requested the affected parties to provide to her suggested agenda items for the September Meeting of ERCWG.

C. Johnson asked who is responsible for completion of the Action Items, if a separate list of Action Items could be made available, and if at the next meeting the disposition of the Action Items could be an agenda item. He reminded the group of J. Knight's commitment to have vugraphs corrected and the corrected vugraphs distributed to the affected parties. J. Parker, in response to C. Johnson's concerns on the disposition of Action Items, set forth the process for implementing the Action Items. The process is that minutes are prepared and appropriate OGR supervisors review the minutes and the Action Items. Action Items are implemented by guidance memos from the appropriate level within OGR (e.g., Mr. Kale or Mr. Knight).

D. Valentine read the Action Items from the January ERCWG meeting and gave the status of each. The Action Items related to the timing of submissions of draft ERCPs to Headquarters and steps taken to change internal DOE milestones relating to the issuance of the draft ERCP. All the required actions were met, except for the submission of the SRPO draft ERCP to Headquarters.

A discussion was held on the purposes of the ERCWG meetings. It was agreed that the purpose is information exchange and deliberation, but not joint decision-making by the DOE and the affected parties, nor is final policy to be set at these meetings.

The meeting was adjourned at approximately 11:30 a.m.

ACTION ITEMS

**OGR Environmental Regulatory
Compliance Working Group
May 7, 1987
Seattle, Washington**

<u>ITEM</u>	<u>ASSIGNED TO</u>	<u>DUE</u>
1. Send Affected Parties copy of January ERCWG Meeting Minutes.	D. Valentine	June 22, 1987
2. Determine the extent of authority various DOE officials have to sign permit applications and permits issued by Federal or State permitting agencies.	J. Parker/ D. Valentine	Next ERCWG Meeting
3. Provide separate list of Action Items and determine if disposition of Action Items will be discussed at next meeting of ERCWG.	D. Valentine	June 22, 1987
4. Provide corrected vu-graphs to affected parties.	Site Evaluation Branch	June 22, 1987
5. Provide information, if requested by affected parties, describing where non-environmental permitting requirements are addressed.	Project Offices	TBD
6. Provide to D. Valentine suggested agenda items for September Meeting of ERCWG.	Affected Parties	July 31, 1987

ENVIRONMENTAL REGULATORY COMPLIANCE WORKING GROUP
MAY 7, 1987



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ATTACHMENT 1

Environmental Regulatory Compliance Working Group
 May 7, 1987

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Gary Beall

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Environmental Regulatory Compliance Working Group
 May 7, 1987

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Don Provost	STATE OF WASHINGTON	PV-11 Olympia WA 98504	206 459 470 6770
Rob Rothman	DOE - Chicago	Argonne Nat. Lab.	312 972 2694
Bill White	DOE / SRPO	Columbus	614 - 926 424 5916
DAVID STEVENS	State of Texas (consultant)	P.O. Box 214 Olympia WA 98507	206 786-1632
Catherine McJannet	Weston	255 L'Enfant Plaza Wash, D.C. SW 20024	202 646-6729

Susan King

PNL/BWIP

FTS-444-8481

Environmental Regulatory Compliance Working Group
 May 7, 1987

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Steve Singal

DOE/OSR/RW-232

Forestal

586-2878

NAME	ORGANIZATION	ADDRESS	PHONE
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Jim Knight	DOE/HQ	1000 Independence Ave, SW Washington, DC 20585	202-586-9300
Deborah Valentine	DOE/HQ	1000 Independence Ave, SW Washington, DC 20585	202-586-4910
Tom Isaacs	DOE/HQ	1000 Independence Ave., SW Washington, DC 20585	202-586-9692

United States Government

Department of Energy

memorandum

DATE:

FEB 27 1987

REPLY TO
ATTN OF:

RW-241

SUBJECT:

Minutes of the January 22, 1987, Environmental Regulatory
Compliance Working Group Meeting

TO:

Betty Jankus, NNWSI
David Gassman, NNWSI
Steve Whitfield, BWIP
Joann Comins Rick, BWIP
Bob Carosino, BWIP
Bill White, SRPO

Alan Handwerker, SRPO
Steve Frank, EH-25
Ched Bradley, EH-25
Robert Mussler, GC-11
Steve Singal, RW-232
Linda Desell, RW-32

Attached for your information are the minutes of the
Environmental Regulatory Compliance Working Group meeting
held on January 22, 1987, in Las Vegas, Nevada. If you
have any questions, contact Jerry Parker at FTS-896-5679 or
Debbie Valentine at FTS-896-4910.


James P. Knight, Director
Siting, Licensing and Quality
Assurance Division

Attachment

cc:

S. Kale, RW-20
T. Isaacs, RW-20
J. Bresee, RW-22
D. August, RW-221
R. Blaney, RW-222
J. Morris, RW-222
J. Daly, RW-222
V. Cassella, RW-222
B. Gale, RW-223
A. McDonough, RW-223
W. Probst, RW-223
G. Parker, RW-241
R. Sharma, RW-241
D. Valentine, RW-241
S. Gomberg, RW-241
J. Jones, RW-241
S. Peterson, RW-241

C. Newton, RW-24
B. Easterling, RW-242
J. Barker, EH-24
S. Woodbury, EH-24
C. Borgstrom, EH-25
J. Neff, SRPO
T. Taylor, SRPO
V. Prouty, DOE-CH
D. Vieth, NNWSI
M. Blanchard, NNWSI
J. Antonnen, BWIP
J. Mecca, BWIP
E. McCann, SAIC
R. McCutchin, ONWI
J. States, PNL
T. Page, PNL
G. Shaw, Weston

Third Meeting of
Environmental Regulatory Compliance Working Group

Las Vegas, Nevada January 22, 1987

Deborah Valentine, DOE-HQ, called the third meeting of the Environmental Regulatory Compliance Working Group (ERCWG) to order on January 22, 1987. Members of the ERCWG attending the meeting and the meeting agenda are listed in Attachment 1.

The purpose of the January 22, 1987, meeting of the Environmental Regulatory Compliance Working Group (ERCWG) was to discuss the comments generated by Headquarters on the SRPO and NNWSI Preliminary Working Drafts of the Environmental Regulatory Compliance Plans (ERCP).

Preparation of ERCP: Two approaches to the preparation of the first public draft of the ERCP were discussed by the members of the ERCWG. The first approach is preparing a draft ERCP containing a listing of the basic regulatory requirements. The majority of the ERCP would be completed after discussions with the States. The second approach is preparing a document which represents the best thinking of the Project Office (PO) regarding regulatory requirements, e.g., identification of all environmental requirements necessary to conduct site characterization activities. Under this approach, the ERCP would be modified to reflect the outcome of discussions with State/Federal regulatory agencies. It was decided that the latter approach will best serve the interests of the POs and that of Affected Parties.

The schedule for project submittal of the next draft of the ERCP is contained in the Proposed Action Items/Agreements (Attachment 2).

Consistency of ERCPs: The ERCP discussed the differences in approach to environmental regulatory compliance for candidate sites located on Federal reservations and candidate sites located on non-DOE land. The ERCWG agreed that programmatic needs of Federal reservations may require alternative approaches to regulatory compliance.

Discussion of Comments: The Project Offices requested clarification on certain Headquarter comments. Clarifications were provided. SRPO and NNWSI agreed to provide Headquarters with the rationale for their disposition of the Headquarter comments.

Issue Resolution: Several issues pertaining to the approach to regulatory compliance were discussed. The results of these discussions will be sent to the Project Offices.

Request for Information: A request was made that S. Frank determine if DOE Order 5400.1 has been renewed. That order expired on January 8, 1987. S. Frank agreed to fulfill this request.

It was also requested that Headquarters continue to examine whether additional contacts with Federal regulatory agencies located in Washington D.C., e.g., EPA are required. The purpose of these contacts would be to assure that regional offices of Federal regulatory agencies and the Washington D.C. office are consistent in their treatment of regulatory compliance issues associated with site characterization.

The meeting was adjourned after the representatives from the POs and the Chairperson signed the Proposed Action Items/Agreements.

ATTACHMENT 1

ATTENDANCE LIST - ERCWG January 22, 1987

Debbie Valentine *	DOE-HQ	FTS 896-4910 202-586-4910
Jerry Parker	DOE-HQ	FTS 896-5679 202-586-5679
JoAnne G. Comins Rick *	DOE-RL/OCC-BWIP	FTS 444-3279
Jim States	PNL-BWIP	509-375-2534
Susan King	PNL-BWIP	FTS 444-2534
Betty Jankus *	DOE-NNWSI	FTS 575-1124
Ed McCann	SAIC	FTS 575-1124
Ed Oakes	SAIC	FTS 575-1124
Bill White *	DOE-SRPO	FTS 976-5916
Vicki Prouty	DOE-CH-OC (SRPO)	FTS 972-2244
Alan Handwerker *	DOE-CH (SRPO)	FTS 976-5916
Steve Frank *	DOE/ES&H	FTS 896-1979 202-586-1979
Adam Wagenbach	BPMO/ONWI	FTS 976-7927
David Gassman *	DOE/NNWSI	FTS 575-3581
Erik Stenehjem	Battle-ONWI	FTS 976-7659
Robert Mussler *	GC/HQ	FTS 896-6947 202-586-6947
P.A. Comella	WESTON	202-646-6659
Linda Desell *	DOE OSTIS/HQ	FTS 896-9738 202-586-9738
Karen St. John	WESTON	202-646-6659
Steve Gomberg	DOE-HQ	FTS 896-5560 202-586-5560
Dick Toft	SRA Technologies	703-671-7171

* Asterisk denotes a member of the ERCWG

ATTACHMENT 1

ATTENDANCE LIST - ERCWG January 22, 1987 (Continued)

Jeff Gibson	WESTON	202-646-6646
Steve Singal *	DOE-HQ	FTS 896-2878 202-586-2878
Catherine McDavid	WESTON	202-646-6729
Barry H. Smith	WESTON	202-646-6669
Steve Whitfield *	DOE/RL-BWIP	FTS 444-2048

* Asterisk denotes a member of the ERCWG

ATTACHMENT 2

Typed Version

PROPOSED ACTION ITEMS/AGREEMENTS

January 22, 1987 - ERCP Action Items

- SRPO and NNWSI will send a revised draft of ERCP which has legal and technical review by COB February 13, 1987.
- BWIP will send a first draft of ERCP by COB February 13, 1987.
- Projects will provide written advance notice if above schedule can not be achieved.
- D. Valentine will take appropriate steps to request that the milestones for January 30, 1987 be changed.
- D. Valentine will provide in writing to PO the request for submittal of ERCPS to HQ on February 13, 1987.

The undersigned understand that these are the action items agreed to at the January 22, 1987, ERCWG meeting and will comply to the best of their ability.

W.S. White

SRPO

E.V. Jankus

NNWSI

S.C. Whitfield

BWIP

Deborah M. Valentine

DOE-HQ

Chairperson of ERCWG

Tab U

Handouts

Environmental Regulatory Compliance Working Group

**ENVIRONMENTAL REGULATORY
COMPLIANCE WORKING GROUP**

**MAY 7, 1987
SEATTLE, WASHINGTON**

ENVIRONMENTAL REGULATORY COMPLIANCE WORKING GROUP (ERCWG) STRUCTURE AND FUNCTION

**SCOPE - PROVIDES COORDINATION AND COMMUNICATION AMONG THE
THREE PROJECT OFFICES (POs) AND HEADQUARTERS (HQ) ON
ENVIRONMENTAL REGULATORY COMPLIANCE MATTERS**

**FOCUS - ENVIRONMENTAL PERMITS AND APPROVALS REQUIRED FOR
SITE CHARACTERIZATION**

ENVIRONMENTAL REGULATORY COMPLIANCE WORKING GROUP (ERCWG) STRUCTURE AND FUNCTION (CONT.)

PURPOSE - IDENTIFIES ISSUES, DEVELOPS ISSUE RESOLUTION STRATEGIES.

DISCUSSES COMPLIANCE APPROACHES.

INTEGRATES WITH ENVIRONMENTAL PROGRAM ACTIVITIES.

PROVIDES INFORMATION EXCHANGE FORUM.

**INTEGRATES PO ENVIRONMENTAL REGULATORY COMPLIANCE
PLANS (ERCPs) WITH PROJECT DECISION SCHEDULE.**

ENVIRONMENTAL REGULATORY COMPLIANCE WORKING GROUP (ERCWG) STRUCTURE AND FUNCTION (CONT.)

RESPONSIBILITIES - REVIEWS ERCPs AND DISCUSSES COMMENTS.

MONITORS COMPLIANCE ACTIVITIES.

DEVELOPS ANNUAL STATUS REPORT FORMAT.

**RESOLVES AND/OR RECOMMENDS
SOLUTIONS TO PROGRAM-WIDE ENVIRONMENTAL
REGULATORY COMPLIANCE CONCERNS.**

ENVIRONMENTAL REGULATORY COMPLIANCE WORKING GROUP (ERCWG) STRUCTURE AND FUNCTION (CONT.)

ORGANIZATION AND MEMBERSHIP

**CHAIRPERSON - DEBORAH VALENTINE
EXECUTIVE SECRETARY - BARRY SMITH**

MEMBERS

NNWSI - BETTY JANKUS	HQ/OGC - BOB MUSSLER
 DAVE GASSMAN	HQ/EH - STEVE FRANK
SRPO - BILL WHITE	HQ/OSTS - LINDA DESELL
 ALAN HANDWERKER	HQ/OGR - STEVE SINGAL
BWIP - STEVE WHITFIELD	
 JOANNE COMINS RICK	
 BOB CAROSINO	

ERCPC CONTENTS

- CHAPTER 1: INTRODUCTION**
- CHAPTER 2: DESCRIPTION OF PLANNED SITE CHARACTERIZATION ACTIVITIES**
- CHAPTER 3: ENVIRONMENTAL REQUIREMENTS**
- **FEDERAL AND FEDERAL FLOW-DOWN STATUTES, EXECUTIVE ORDERS AND REGULATIONS**
 - **STATE AND LOCAL REQUIREMENTS**
- CHAPTER 4: STATUTORY COMPLIANCE PLANNING**
- CHAPTER 5: SCHEDULE**
- CHAPTER 6: REFERENCES**

REVISED (APRIL 1987) ENVIRONMENTAL REGULATORY
COMPLIANCE PLAN (ERCPC) SCHEDULE

<u>ACTIVITY</u>	<u>DATE</u>
NNWSI revised draft ERCPC to HQ	March 9
BWIP first draft ERCPC to HQ	March 16
SRPO revised draft ERCPC to HQ	End of April
HQ review of NNWSI draft ERCPC	March 10-20
HQ review of BWIP draft ERCPC	March 16-April 3
HQ comments on NNWSI & BWIP ERCPCs to POS	April 10
HQ review of SRPO ERCPC	May 1-22
ERCWG meeting (Status of ERCPCs to be discussed with States and Indian Tribes)	May 6
NNWSI & BWIP revised draft ERCPCs to HQ	May 22
HQ concurrence review of NNWSI and BWIP ERCPCs	May 25-June 25
HQ comments on SRPO ERCPC to PO	May 29
SRPO revised draft ERCPC to HQ	June 29
HQ concurrence review of SRPO draft ERCPC	July 1-July 25
Transmittal of Draft ERCPCs to States and Indian Tribes	September 1

ENVIRONMENTAL REGULATORY COMPLIANCE PLANS (ERCPC)

ISSUES

WHAT SHOULD THE ERCPS COVER?

- **SHOULD THE ERCPS INCLUDE ONLY ENVIRONMENTAL REGULATIONS?**
- **SHOULD THE ERCPS INCLUDE ALL PERMITTING REQUIREMENTS (OTHER THAN NRC REGULATIONS)?**
 - **ACQUISITION OF WATER RIGHTS?**
 - **HEALTH AND SAFETY REQUIREMENTS (e.g. OSHA)?**
- **WHERE WILL COMPLIANCE WITH OTHER REQUIREMENTS BE DOCUMENTED, IF NOT IN THE ERCP?**

UNDER WHAT CIRCUMSTANCES SHOULD PROJECTS USE SIMILAR MODELS?

WHO SHOULD SIGN ENVIRONMENTAL PERMIT APPLICATIONS?

- **PROJECT MANAGERS?**
- **HEADQUARTERS?**
- **MANAGER OF OPERATIONS OFFICE?**

**SHOULD ALL PROJECTS USE ONSITE DATA FOR DEMONSTRATING
COMPLIANCE WITH AIR QUALITY OR OTHER PERMITTING
REQUIREMENTS?**

**SHOULD CLASSIFICATION OF HAZARDOUS WASTE BE CONSISTENT
FOR ALL PROJECTS?**

Tab V

Salt Repository Project Office

Trip Report

on

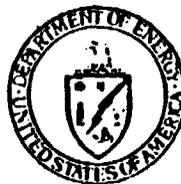
Meeting with Environmental Protection Agency



SALT REPOSITORY PROJECT

SUMMARY

- LITTLE INFORMATION PROVIDED ON TEXAS REGULATORY PROGRAMS.
- INFORMED THAT PERMIT PROCESS HAS A POTENTIAL TO BE LENGTHY.
- REVIEW PROJECT PROGRAM ACTIVITIES TO MODIFY (REDUCE IMPACTS) IF TECHNICALLY CONSISTENT WITH PROGRAMMATIC REQUIREMENTS THUS NOT TRIGGERING PERMIT REQUIREMENTS.
- ESTABLISH A GENEROUS SCHEDULE FOR OBTAINING APPLICABLE PERMITS.
- TEXAS IS THE REGULATORY AGENCY IN ALL CASES, EXCEPT THE U.S. EPA WILL REGULATE SPILL PREVENTION CONTROL, UNDERGROUND STORAGE TANK REQUIREMENTS, AND NPDES (IF REQUIRED).



Salt Repository Project

POINTS OF CONTACT

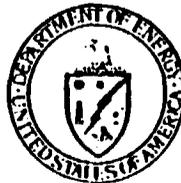
- TEXAS WATER COMMISSION FOR SAFE DRINKING WATER ACT/RESOURCE CONSERVATION RECOVERY ACT (SDWA/RCRA), NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES), PUBLIC WATER SUPPLY (PWS), AND UNDERGROUND INJECTION CONTROL (UIC).
- TEXAS AIR CONTROL BOARD FOR CLEAN AIR ACT (CAA).
- TEXAS WATER COMMISSION HAS JURISDICTION REGARDING "EXPLORATION PERMITS AND REQUIREMENTS" BECAUSE OIL AND GAS EXPLORATION NOT INVOLVED, OTHERWISE TEXAS RAILROAD COMMISSION WOULD HAVE JURISDICTION.
- VARIOUS STATE AGENCIES MAY HAVE PARTIAL DELEGATION UNDER CLEAN WATER ACT (CWA) AMENDMENTS.



Salt Repository Project

NPDES

- ZERO DISCHARGE OF RETENTION PONDS WOULD NOT REQUIRE AN NPDES PERMIT.
- NEED TO EXAMINE ADVANTAGE OF OBTAINING AN NPDES FOR ACCIDENTAL DISCHARGE STANDARD PROVISION.
- NEED TO MONITOR FOR STANDARD CRITERIA POLLUTANTS, SUSPENDED SOLIDS, PH, AND EITHER CHLORIDE OR SODIUM AND POSSIBLY OTHERS DEPENDING ON ANALYSIS OF WASTE STREAM AND NEGOTIATIONS WITH THE AND U.S. EPA STAFF.
- CHALLENGE TO TEXAS WATER QUALITY STANDARDS WILL HAVE LITTLE IMPACT TO OUR PROJECT.
- TEXAS MAY CONTINUE WITH DUAL REGULATORY APPROACH WITH 1987 AMENDMENTS.



Salt Repository Project

FEDERAL CLEAN AIR ACT AND TEXAS CLEAN AIR ACT

- NEED TO OBTAIN EITHER A PERMIT OR QUALIFY FOR AN EXEMPTION FOR ALL SOURCES OF AIR CONTAMINANTS.
- U.S. EPA DOES NOT CONSIDER CONSTRUCTION-RELATED EMISSIONS IN DETERMINING THE 250 TON PSD THRESHOLD.
- FOR PSD PERMITS, TEXAS PERFORMS ALL TECHNICAL REVIEWS AND FORWARDS PAPERWORK TO U.S. EPA FOR APPROVAL.
- PARTICULATE STANDARDS FOR PM₁₀ MAY NOT TRANSLATE INTO AN EMISSION LIMITATION APPLICABLE TO A SOURCE FOR SOME TIME (NEEDS TO BE CLOSELY TRACKED).



Salt Repository Project

NEW SOURCE PERFORMANCE STANDARDS

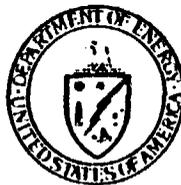
- POTENTIALLY APPLICABLE TO DIESEL AND NATURAL GAS INTERNAL COMUSTION ENGINES.
- ALL INITIAL COORDINATION SHOULD BE WITH THE TACB.
- PUBLIC HEARINGS MAY BE REQUESTED BY THE PUBLIC.
- PERMIT REQUIREMENTS INCLUDE DACT.
- A PSD PERMIT CAN BE SUBJECT TO PETITION BY THE PUBLIC UNDER THE FEDERAL CAA.



Salt Repository Project

TEXAS SOLID WASTE DISPOSAL ACT

- ALL QUESTIONS ON THE TEXAS SOLID WASTE DISPOSAL REGULATORY PROGRAM NEED TO BE DIRECTED TO THE STATE OF TEXAS.
- POTENTIALLY APPLICABLE TO BENTONITE CLAYS (NOT REQUIRED FOR NON-HAZARDOUS WASTE).
- EPA WRITES JOINT PERMITS WITH THE TEXAS WATER COMMISSION.
- THE GENERATOR HAS THE OBLIGATION TO TEST HIS WASTE.
- EPA LAND DISPOSAL BAN WILL NOT APPLY TO EVAPORATION AND DETENTION PONDS BECAUSE DOE WILL CLEAN UP THE SITE WHEN FINISHED.



Salt Repository Project

SAFE DRINKING WATER ACT

- MONITORING WELLS USED FOR CERTAIN TESTS WITH TRACERS MAY BE SUBJECT TO UIC REGULATION AS A CLASS V UNDERGROUND INJECTION.
- NEED TO EXAMINE IF THE TEXAS RAILROAD COMMISSION HAS JURISDICTION OVER ANY OF OUR WELLS.
- DEFINITION OF PUBLIC WATER SUPPLY ONLY REQUIRES 16 INTERCONNECTIONS BE INVOLVED OR 25 INDIVIDUALS BE SERVED.
- MAY BE SOME BASIS FOR AN EXCEPTION FOR AN INDUSTRIAL WATER SUPPLY THAT SERVES MORE THAN 25 INDIVIDUALS.
- RELATED TO THIS REQUIREMENT UNDER THE FEDERAL SOLID WASTE DISPOSAL ACT IS A GENERAL REQUIREMENT TO DEVELOP A SPILL PREVENTION PLAN, BUT THIS MAY NOT BE APPLICABLE.



Salt Repository Project