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Meeting Minutes
U.S. Department of Energy and State of Oregon Office of Energy
Bi-Monthly Forum

January 24, 2001

Room 590-A, Federal Building, 825 Jadwin Avenue, Richland, Washington

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W. W. Ballard	DOE-RL	A5-12
M. L. Blazek	OOE	Oregon
C. E. Clark	DOE-RL	A2-15
D. Dunning	OOE	Oregon
A. O. Farabee	DOE-RL	N2-36
M. Grainey	OOE	Oregon
R. I. Greenberg	DOE-HQ	
J. B. Hebdon	DOE-RL	A5-58
D. Henry	OOE	
J. S. Hertzel	FH	A1-14
D. Huston	OOE	Oregon
M. K. Marvin	DOE-RL	A7-75
G. M. McClure	DOE-RL	A7-75
F. R. Miera	DOE-RL	A7-75
R. D. Morrison	FH	A1-14
N. B. Myers	BHI	H0-14
P. J. Bengtson	PNNL	H6-61
K. Niles	OOE	Oregon
S. N. Safford	OOE	Oregon

Meeting Minutes
U.S. Department of Energy and State of Oregon Office of Energy
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Apprvl.: _____ Date: 5/15/01
Felix Miera,
Oregon Grant Administrator
U.S. Department of Energy

Apprvl.: _____ Date: 6/28/01
Mary Lou Blazek, Administrator
Nuclear Safety Division
Oregon Office of Energy

Attendees:

K. A. Beecher	DOE-RL
P. J. Bengtson	PNNL
M. L. Blazek	OOE
J. L. Daily	DOE-RL
R. L. Dirkes	PNNL
A. O. Farabee	DOE-RL
G. B. Griffin	FH
D. Henry	OOE
G. M. McClure	DOE-RL
F. R. Miera	DOE-RL
R. D. Morrison	FH
N. B. Myers	BHI
K. Niles	OOE
D. J. Somers	FH
W. J. Taylor	DOE-ORP
R. R. Tibbatts	DOE-RL
D. C. Ward	DOE-RL

AGENDA

DOE/OREGON BI-MONTHLY FORUM

January 24, 2001
9:00 a.m. – 12:00 Noon
Fed. Bldg., Rm. 590 - A
Richland, WA.

	TIME	SUBJECT
1.	9:00	Introductions – **Felix Miera/Mary Lou Blazek**
2.	9:05	24 Command Wildland Fire Improvement Plan – **Gerry Griffin, FH**
3.	9:20	Office of River Protection Update – **Bill Taylor** **A.** Waste Treatment Plant Contract **B.** FY 2001 Funding **C.** Double Shell Tank Capacity **D.** Tank Waste Workshop, Scheduled for Feb. 17 in Oregon – **Mary Lou Blazek**
4.	9:50	Off-Site Environmental Monitoring at Hanford – Dana Ward
5.	10:10	FFTF Update – **Al Farabee**
6.	10:25	FY 2001 Budget Update; FY 2003 Budget Process/DOE-HQ Personnel Changes to Date -- **Bob Tibbatts/Jeannie Schwier/Gail McClure**
7.	10:45	Tri-Party Agreement Milestone Status/Tracking – **Cliff Clark/Ron Morrison**
8.	10:55	Action Items – **Ron Morrison**
9.	11:00	Long Term Stewardship – **Jim Daily**
10.	11:45	Other Items of Interest -- **All**
11.	11:55	Wrap-up and Next Meeting Date

MEETING MINUTES

January 24, 2001 (Richland, Washington)

2. 24 Command Wildland Fire Improvement Plan.
G. Griffin, FH, discussed the "24 Command Fire Improvement Action Program Plan" (provided as Attachment 1) and indicated that there have been 170 response improvement suggestions collected. These 170 suggestions were reduced by eliminating duplicates. Appendix B to Attachment 1 contains the final outcomes the U. S. Department of Energy (DOE) will be working on. J. Spracklen, DOE-RL, will be overall program manager. Proposed improvements extend from those identified for local governments, as well as to DOE.

D. Henry, OOE, asked how issues involving offsite agencies will be worked?

G. Griffin responded that existing interfaces would primarily be used.

M. Blazek, OOE, asked what specifically was being done with the State of Oregon?

G. Griffin responded that as of January 2, 2001, Sandy Bauer has been assigned to work issues affecting external contacts.

M. Blazek stated that emphasis on communications with external contacts is needed.

On an unrelated matter, D. Henry pointed out that an incident on January 17, 2001 involving 3 liters of an explosive material at the 222-S facility was brought up at the January 23, 2001 Inter Agency Management Integration Team Meeting. D. Henry asked why the State of Oregon was not notified?

G. Griffin responded that an initial determination had been made that the occurrence did not seem to meet the criteria for notification. F. Miera, DOE-RL, indicated that a prior agreement had been made with the State of Oregon to err on the conservative site, i.e., if there is any question at all, notification should be provided.

M. Blazek stressed that anything that could be of interest should be reported to Oregon, noting further that Oregon hears about gasoline spills but did not hear about this chemical that required detonation for disposal.

3. Office of River Protection Update.
W. Taylor, DOE- Office of River Protection (ORP), provided an "Office of River Protection Update" (Attachment 2). W. Taylor explained that the British Nuclear Fuels Ltd. contract is still being closed out. Bechtel National, Inc. (BNI), now has approximately 88 people on site picking

up the design effort activities. On April 15, 2001 the new cost, technical, and schedule baseline are to be completed and submitted to ORP. Taylor also pointed out that one thing we know now is that "commercial operations" as required in the Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) will need to be modified. Currently, BNI is required to demonstrate 30 metric tons of production before turning the waste treatment plant facility over to an operating contractor who will be selected in the 2011 timeframe.

K. Niles, OOE, asked about the disposal of spent melters.

W. Taylor responded that he would have to provide details at a later date.

M. Blazek stated that a State of Oregon concern has been the federal regulatory unit reporting to the Department of Energy's (DOE) Office of River Protection.

W. Taylor responded that the federal regulatory unit will still be empowered and has authority to shut a project down if significant safety issues are identified.

When asked, W. Taylor responded that a funding level of $1.1 billion is needed to maintain progress and meet regulatory commitments.

W. Taylor provided Attachment 3, a presentation entitled "Double Shell Tank Capacity" and discussed its contents.

Currently, the Double Shell Tanks have a total capacity of 31 million gallons, and of this total the storage is allotted as follows:

5 million gallons are held in reserve for waste transfers;
3 million gallons is lost in unusable tank head space;
3 million gallons are held in other reserves;
20 million gallons is the current net storage ability.

M. Blazek asked that the State of Oregon be included in future Double Shell Tank capacity discussions that are to be held with the Department of Ecology. ORP agreed to notify Oregon of upcoming meetings.

W. Taylor also provided Attachment 4, a presentation entitled "TPA M-45-12 DST Space Options", and discussed its contents.

4. Off-Site Environmental Monitoring at Hanford.

D. Ward, DOE-RL, provided Attachment 5, a presentation entitled "Public Safety and Resource Protection Program, dated January 24, 2001" and Attachment 6 a publication entitled "Washington State Department of Health Responds to Hanford Wildfire".

M. Blazek stated that the Department of Health publication was exactly the sort of information needed immediately after the fire occurred.

D. Ward provided a discussion of Attachment 5.

M. Blazek asked about the Tribal Nations request for a joint environmental monitoring program. The State of Oregon is also interested in offsite monitoring that the DOE is conducting.

R. Dirkes, Pacific Northwest National Laboratory (PNNL), responded that the DOE used to perform environmental monitoring at Walla Walla and Umatilla but this was effort was stopped due to the low levels of contaminants found and reductions in funding.

M. Blazek stated that the State of Oregon cannot verify to the Tribes or other constituents that impacts from the Hanford Site are not present at Oregon locations such as Hermiston and Umatilla.

R. Dirkes responded that a joint proposal was currently being developed between PNNL and the Confederated Tribes of the Umatilla Indian Reservation (CTUIR) staff for a U. S. Environmental Protection Agency (EPA) grant. If successful, the grant may allow some new sampling to occur with subsequent dissemination of information, possibly via the Internet.

M. Blazek asked if samples are still split with the State of Washington?

R. Dirkes responded that yes they are, primarily with the Washington State Department of Health.

M. Blazek stated that it would be advantageous to include the State of Oregon in working with the Tribes to develop any monitoring program.

R. Dirkes went on to say that the Tribes are interested in the EPA grant program and we hope to meet with them in the next week or two. It was agreed that Oregon would be kept apprised of these activities.

Action: Off site monitoring, Tribal and State of Oregon involvement to be on the agenda for a future Forum meeting for discussion.

M. Blazek asked when off site monitoring was discontinued?

R. Dirkes responded that off site sampling in Moses Lake, Walla Walla and McNary was discontinued in 1995.

Action: M. Blazek requested a copy of a "Core Sampling Thesis" which was prepared by a summer graduate student associated with PNNL. Actionee: R. Dirkes

Action: Provide feedback to M. Blazek on the PNNL/CTUIR grant process progress. Actionee: D. Ward

M. Blazek reminded DOE and PNNL that monitoring of the Hanford Reach is very important to Armand Minthorn and the CTUIR.

5. Fast Flux Test Facility (FFTF) Update.
A. Farabee, DOE-RL, stated that with regard to a past action item wherein Oregon had requested results of a $180,000 California Study related to isotope production, that he has not been able to obtain a copy of the study results due to ongoing reviews and possible proprietary information contained in the report. Since the company that conducted the study is not governmental, he is skeptical that he will be able to obtain a copy of the report and requested that this action item be deleted.

A. Farabee went on to state that there has been no DOE Headquarters communication on an FFTF Record of Decision (ROD) yet. The Bush administration has placed a hold on certain last minute decisions which may affect the issuance of the ROD. There is also some controversy over whether the ROD must be entered into the Federal Register to constitute issuance. Under the terms of the Tri-Party Agreement the DOE must submit a draft FFTF Tri-Party Agreement change request within 90 days after the ROD is issued. This would place the final sodium drain commitment for the FFTF in 2003 or 2004 if negotiations to develop new commitments are not successful within the 120 days specified by the Tri-Party Agreement.

K. Niles asked when the sodium drain would occur if negotiations were successful?

A. Farabee responded that it would be beyond 2003/2004. Manpower and training issues create many issues for moving quickly to a sodium drain. Secondary system sodium drain could begin in 2002 if all goes well with the many prerequisites. However, all possible scenarios depend upon receiving adequate funding.

A. Farabee provided a letter from O. A. Farabee to William D. Magwood, dated April 19, 2000, "Fiscal Year (FY) 2002 Field Work Proposal – Fast Flux Test Facility Complex" (Attachment 7) and stated that future funding sources for the FFTF are not yet determined between DOE's Office of Nuclear Energy (NE) or Environmental Management (EM).

M. Blazek stated that in all discussions with Magwood it was indicated that FFTF would be an NE funded facility.

6. FY 2001 Budget Update; FY 2003 Budget Process/DOE-HQ Personnel Changes to Date.
R. Tibbatts, DOE-RL, provided a "Richland Operations Office FY 2001 EM Budget Update" (Attachment 8) and provided a brief discussion of its contents. R Tibbatts went on to state that the timing of the FY 2003 budget meetings may need to be revisited since the overall budget process is running behind schedule.

G McClure provided Attachment 9, "Proposed Meeting Dates and Locations" and provided a discussion of it contents.

9. Long Term Stewardship.
J. Daily provided a presentation on Long Term Stewardship and stated that the "Institutional Controls" chapter of the Long Term Stewardship Plan should be available by July, with the entire plan scheduled for availability by September. J. Daily also pointed out that long term stewardship is planned to be on the Oregon Waste Board agenda for its next meeting in Mission, Oregon on March 28.

M. Blazek stated that information is needed by February in order to prepare inputs for the Board members.

K. Niles pointed out that "end states" would be a critical question that will likely be raised in the Hanford Advisory Board (HAB) workshop.

J. Daily then discussed the upcoming workshop to be held on January 31, 2001. Items to be discussed include:

- vision/outcomes
- goals/objectives
- measures of success
- elements of the first Long Term Stewardship Plan
- strategies

J. Daily provided Attachment 10, "Long Term Stewardship Defined".

7. Tri-Party Agreement Milestone Status.
R. Morrison, FH, provided a discussion of the following Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) subjects.

Interim Milestone M-91-12 requiring the initiation of treatment of contact handled low level mixed waste with a due date of December 31, 2000. On January 12, 2001 the DOE was notified that the State of Washington Department of Ecology (Ecology) had determined that the DOE had failed to comply with M-91-12 and that penalties would be assessed. It is anticipated that DOE will initiate Tri-Party Agreement dispute resolution procedures to attempt to resolve the issues surrounding the completion of this milestone.

Interim Milestone M-89-02 requiring the removal of mixed waste and equipment from the 324 B Cell Facility. This milestone encountered difficulties and was not completed by the due date of November 30, 2000. On January 12, 2001 the DOE was notified that Ecology had determined that the DOE had failed to comply with M-89-02 and that penalties would be assessed.

Land Disposal Restrictions Report (Interim Milestone M-26-01). The ongoing appeal regarding a number of alleged deficiencies in the report has been settled with Ecology. A 60 day extension

to the next required submittal of the report (April) will be necessary to address the settlement requirements.

M-91-00 series of Waste Management milestones. The ongoing dispute resolution has been extended to April 23, 2001 to allow further discussions at the Project Manager level.

Office of River Protection. The appeal of the March 29, 2000 Ecology Directors Determination on milestones related to retrieval and treatment of tank waste is still scheduled for February 20, 2001. Ecology's imposition of "anticipatory enforcement" language remains the primary issue.

8. Action Items.
See Attachment 11 for status of open action items.

10. Other Items of Interest.
M. Blazek discussed an issue which has arisen regarding the Groundwater Vadose Zone at the Environmental Restoration Disposal Facility. Apparently, contamination from the 200 West Area is thought to be passing beneath the upstream groundwater monitoring well and is then being picked up by the downstream well. A February 15, 2001 morning meeting at the Portland Airport is scheduled to discuss this issue.

12. Next Oregon/DOE Forum Meeting.
It was tentatively agreed that the next Forum would take place on March 27, 2001 at 9:00 am in Richland, Washington.

The Forum Was Adjourned.

Attachment 1

DOE/RL-2000-77
Revision 0

24 Command Fire Improvement Action Program Plan

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

Project Hanford Management Contractor for the
U.S. Department of Energy under Contract DE-AC06-96RL13200

United States Department of Energy
P.O. Box 550
Richland, Washington 99352

Approved for public release; further dissemination unlimited

DOE/RL-2000-77
Revision 0

24 Command Fire Improvement Action Program Plan

J. L. Spracklen
U.S. Department of Energy, Richland Operations Office

Date Published
December 2000

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

Project Hanford Management Contractor for the
U.S. Department of Energy under Contract DE-AC06-96RL13200

United States Department of Energy
P.O. Box 550
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Janis Aardal 12-15-2000
Release Approval Date

Approved for public release; further dissemination unlimited

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24 Command Fire Improvement Action Program Plan

Prepared By: 12/14/2000
G. B. Griffin

Approved By: 12/14/00
J. L. Spracklen

24 Command Fire Improvement Action Program Plan

MISSION NEED AND OBJECTIVES

Fluor Hanford (FH) is responsible for providing support to the Department of Energy Richland Operations Office (RL) in the implementation of the Hanford Emergency Preparedness (EP) program. During fiscal year 2000, a number of program improvements were identified from various sources including a major range fire (24 Command Fire). Evaluations of the emergency preparedness program have confirmed that it currently meets all requirements and that performance of personnel involved is good, however the desire to effect continuous improvement resulted in the development of this improvement program plan. This program plan defines the activities that will be performed in order to achieve the desired performance improvements.

The inputs for the program objectives are:

- RL Type B Investigation Report of the 24 Command Fire
- Feedback solicited from Hanford Emergency Operations Center (EOC) staff participating in the response to the 24 Command Fire
- A feedback session with RL Senior Management concerning lessons learned from the 24 Command Fire
- Feedback from Recovery Team staff that supported 24 Command Fire response
- Fish and Wildlife Service Investigation Report of the 24 Command Fire
- Initial Joint Review of Wildland Fire Safety at DOE Sites (Draft) dated December 2000
- Environmental Management (NN-60) Program Evaluation Report dated May 7, 1999
- Building 327 Declared Emergency – Emergency Preparedness Evaluation dated April 2, 1998
- 200 Area Take Cover Event (May 17, 2000) Improvement Actions
- Plutonium Finishing Plant Stack CAM Alarm Event (April 6, 2000) Improvement Actions
- Open Emergency Preparedness Exercise Findings
- Existing commitments to RL from FH Emergency Preparedness
- DOE Corrective Action Plan Actions

Specifically, the objectives of the program plan are:

- Conduct an integrated evaluation of the program improvements identified from the sources above
- Identify those activities that are included within the existing RL program baselines.
- Identify those activities that are not included within the existing RL program baselines and estimate the resources required to conduct those activities.
- Develop a preliminary schedule for the completion of the improvement activities described in this plan.

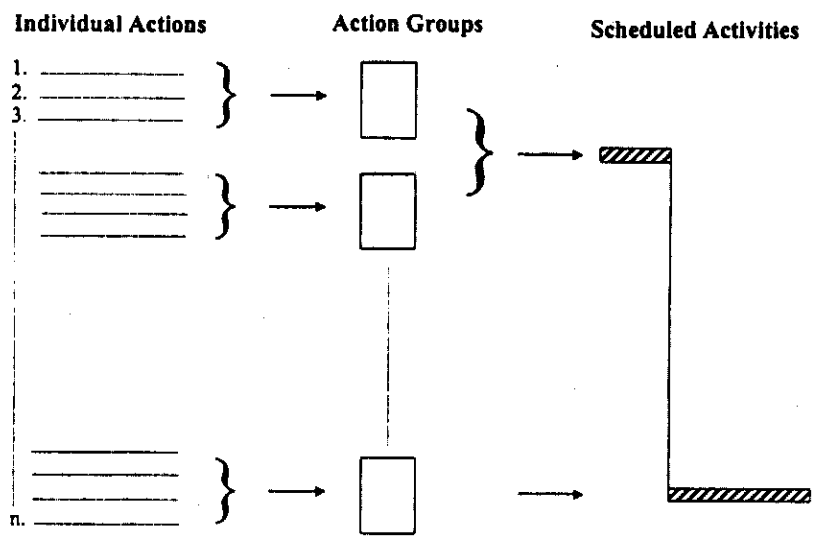
TECHNICAL PLAN

The approach taken in this plan is to use existing management systems as much as possible in the development of the work scope, assignment of tasks to responsible performing organizations, and tracking items to closure. A summary of this strategy is outlined below:

- The Deficiency Tracking System (DTS) will be used to document each task to be completed within the scope of this plan
- Organizations assigned one or more tasks will utilize normal contracting mechanisms to assign tasks or portions of tasks to the appropriate contractor(s)
- The DTS will be used to document actions taken to address each task within the scope of this plan
- Requests for additional funding will be made in accordance with normal procedures
- Procurement of hardware and consultant services will be made in accordance with normal procedures
- Regularly scheduled full field exercises will be used to validate the actions taken

Using existing management systems to conduct the improvement activities identified in this plan will simplify its execution and allow for effective integration of this work into the day to day activities of the performing organizations.

The first challenge in the development of this plan was to analyze the extensive quantity of data describing recommended improvements into a set of actions that could be understood and managed effectively. Approximately 170 individual inputs actions were identified by the sources outlined above. An analysis of all individual actions was conducted to identify those with common causes or associated with a single process. Where the analysis showed that individual actions could be assigned to groups in order to be managed together, these groups were then treated as a single action during the remaining analysis conducted for this plan. The Action Groups were then analyzed to identify activities that could be scheduled together for efficiency. This hierarchy is shown in the figure below:



The Action Groups were further analyzed to determine which ones can be accomplished using existing resources and those for which additional resources need to be requested. Where resources existed, a schedule was developed using an estimate of the resources needed to complete the specific action. Where resources do not currently exist, a resource estimate was developed and an assumption made concerning when the required resources might become available and a schedule developed based on these assumptions. The Risk Assessment section below discusses the risks associated with the deferral of Action Groups for which resources are not available.

Two full field exercises will be conducted to demonstrate the effectiveness of the actions taken. This first will be in the summer of 2002 which will validate the higher priority actions defined in this plan for which funding is available. A second exercise will be conducted the following year to complete validation of the remaining actions for which funding is available. Deficiencies or additional improvements identified by the first exercise will be integrated with the remaining program improvements. Deficiencies or additional improvements identified in the second exercise will be managed using normal procedures and will not be considered within the scope of this improvement program.

A complete listing of the individual actions is provided in Appendix A. This listing provides a description of the action and the source from which is originated. The Action Group to which each is assigned is also shown.

Appendix B identifies each Action Group and shows the individual actions which are members of the group. The contents of Appendix B have been formatted such that each group is listed on a separate page. Each page represents an item which will be entered into the DTS. Each Action Group page has an Action Request (AR) title that will serve as the key text entry in the DTS. The individual actions are shown below the title with instructions that each item must be addressed when dispositioning the Action Group. In this way, each individual action is considered, however the DTS entry is simplified by entering a single AR for related groups of actions. Documentation of actions taken for closing each Action Group will be developed and administered in accordance with HNF-6395, *Emergency Preparedness Action Tracking System*. A separate action folder will be created for each Action Group and documentation of closure completed as described in HNF-6395.

A schedule for completing the actions identified in the plan was developed and is provided in Appendix C. The schedule was developed using assumptions of the time and resources needed to complete the actions defined in Appendix B. Upon issue of the plan, the Action Group folders will be provided to the action owners who will be responsible for conforming to the schedule or providing updates to the Director of RL Security and Emergency Services (SES) if the assumptions made during plan preparation were inaccurate. The schedule will be maintained by FH EP and will be updated as directed by the Director of RL SES.

Since several actions groups were identified for which precise scope definition did not exist and/or for which the resources to complete the actions/groups were not currently available at the

time this plan was prepared, the following process was developed for the management of these Action Groups:

- As additional information and/or resources become available, the Action Group owner will develop recommendations for updating the relevant action plans described in this plan. These recommendations will be documented on a change request form available from FH EP.
- These recommendations will be provided to the Director of RL SES for evaluation.
- The Director of RL SES will make a determination of the acceptability of the recommendation and if acceptable, sign the approval block on the change request form and inform the Action Group owner.
- If the recommendation is approved, the owner will provide the approved change form to FH EP to update the Action Group tracking package.

Periodically, typically monthly, FH EP will issue a request for status to each organization with open Action Groups. Status updates will be provided by these organizations within 5 working days. FH EP will update the tracking database with the status information and provide a consolidated program report to the Director of RL SES. The Director of RL SES will schedule status meetings as deemed necessary to ensure proper attention is being given to the open Action Groups.

RISK ASSESSMENT

The risks associated with the plan have been assessed and are shown in the table below which identifies, assesses and provides the planned responses for known risks. Risk identification, assessment and response is necessary to ensure vulnerabilities to successful project completion are identified and properly managed during completion of the plan activities.

Risk Identification, Assessment & Response			
Activity	**Risk Identification**	**Risk Level**	**Assessment-Response**
Action Groups for which resources are not available	Improvements for which resources (either personnel or funding) are not available could potentially require extended time to be completed. Examples of this include installation of upgraded information systems in the EOC.	Medium	Assessment: Since the actions described in this plan are improvements and therefore discretionary, the impacts to the program are minimal. However, these improvements would result in increased efficiency in emergency management and response and are worth pursuing. Response: The resources needed to accomplish these improvements must be identified in the Annual Work Plans for fiscal years 2002 and beyond. It is unlikely these resources will become available in fiscal year 2001.
Action Groups which will not be completed during FY2001	The scope of this improvement plan is beyond that which can be accomplished in a single fiscal year. Therefore, some actions will need to be scheduled for completion in fiscal 2002 and beyond.	Low	Assessment Basis: The scope of the improvements was not known when planning was conducted for fiscal year 2001. As a result, the work necessary to complete the identified improvements could not be captured in the Annual Work Plan. Response: Since the response to the 24 Command Fire was satisfactory, it is acceptable to complete the identified improvements over multiple fiscal years. The actions will be prioritized and those with the largest benefit to the program will be accomplished first which will provide the most effective use of available resources.

Risk Identification, Assessment & Response			
Activity	**Risk Identification**	**Risk Level**	**Assessment-Response**
All	Addition of tasks not related to the program scope or goals.	High	Assessment Basis: The cost and schedule baselines for the known scope are extremely tight. The addition new scope such as implementation of new DOE Orders will divert resources and impact the schedule in this plan for program improvements. Response: Utilize disciplined baseline control to assure the addition of new work scope, including unfunded work, is minimized.

MANAGEMENT APPROACH

Responsibilities for program participants are defined as follows:

1. The Director of RL Security and Emergency Services will serve as the RL EP Improvement Program Manager as appointed by the RL Field Office Manager. This Program Manager is responsible for overall management of the activities associated with this program plan. Examples of tasks in this scope include but are not limited to:
   - Obtaining resources necessary to carry out the actions in this plan.
   - Approving changes to the Action Group tracking packages.
   - Approving closure of Action Group tracking packages. This may be delegated to personnel within the RL organization performing actions defined in this plan.
   - Coordination of activities being conducted by various organizations within RL.
   - Establishing program priorities.

2. RL Analysis and Evaluation Division is responsible for conducting independent oversight as requested by the RL EP Improvement Program Manager to validate completion of key activities described in this plan. Examples of tasks in this scope include but are not limited to:
   - Providing support to the RL EP Improvement Program Manager for desired verification and/or validation of corrective action taken.
   - Conducting DTS data entry and update activities.

3. RL Programs (e.g., Security and Emergency Services) are responsible for developing plans and conducting activities to effect the improvements described in the Action Group packages assigned. Examples of the activities include but are not limited to:
   - Development of a plan to address the assigned Action Group(s) assigned to the Division

- Assignment of tasks to appropriate contractor(s) associated with the Action Group(s) assigned to the Division
- Documenting completion of the assigned Action Group
- Obtaining approval of closure for each assigned Action Group

4. FH Emergency Preparedness is responsible for administrative support for tracking the tasks described in this program plan. Examples of tasks in this scope include but are not limited to:
   - Providing support to RL Security and Emergency Services for the completion of Action Groups assigned to this Division
   - Administering Action Group tracking packages in accordance with HNF-6395
   - Maintaining the working copy of the program schedule
   - Providing periodic status reports of open Action Groups to the Director of RL SES
   - Development and conduct of an exercise to demonstrate effectiveness of actions taken in this program plan

Major activities associated with this program include:

1. Recovery of lands burned during the fire will be conducted. This will include revegetation of areas in the 200 West Area.

2. The methods for establishing and maintaining fire breaks along road bordering the site as well as site roads will be reviewed and upgraded. In some cases, this activity will require coordination with state and other federal agencies.

3. Existing agreements with local and national emergency services organizations will be reviewed and updated incorporating lessons learned from the 24 Command Fire. Particular importance will be placed on the protocols for resource ordering during escalating emergencies. Agencies involved will include county and state emergency management, local and regional fire departments, and federal agencies such as Fish and Wildlife Department.

4. The processes and procedures for conducting radiological monitoring during emergencies will be evaluated and upgraded as necessary. Special attention will be given to methods used to integrate environmental monitoring techniques with emergency preparedness procedures.

5. On site communications systems will be reviewed and improvements made as funding becomes available. Included in this task is a review of the existing radio frequencies to ensure effective communication between on site and off site emergency services personnel.

6. Information systems in the Hanford EOC will be upgraded as funding becomes available. Included in this activity is the implementation of Geospacial Information Systems.

7. The definition of essential staff and the means of limiting site access to essential staff will be reviewed and improvements made as necessary.

8. The staffing strategy for the Hanford EOC will be reviewed to ensure that sufficient personnel are trained and available to carry out the mission of the center. Consideration will be given to the number, type, and depth of assigned personnel.

9. Procedures used in the EOC will be evaluated to ensure that lessons learned from the 24 Command Fire are incorporated. Included among these lessons learned are topics such as the incorporation of National Wildland Fire Coordination Group procedures, preparedness for events which originate off the Hanford site, and optimizing the process for distribution of information to DOE Headquarters.

10. Lessons learned during recovery from this event will be incorporated into the procedures currently in place. Recovery from the 24 Command Fire provided new insights into several aspects of recovery planning and execution which will enhance the existing process.

11. Upon completion of a majority of the improvement actions, full field exercises will be conducted to evaluate the changes made to the procedures used by Hanford Emergency Services. At least one of the exercises will involve a major wild land fire and involve both on and off site personnel.

ACQUISITION STRATEGY

Procurement of hardware will be conducted in accordance with existing procedures. Where capital funding is required, the requests for this funding will be prioritized among other site needs. In some cases, these procurements will be conducted during out years, for example, the upgrades to existing site communications systems that will replace the crash phone system are currently scheduled for fiscal year 2003.

To augment available resources within RL and site contractors, securing expertise available from consulting firms may be necessary. In these instances, these services will be obtained using the approved process for obtaining this type of support.

PROGRAM SCHEDULE

A summary schedule has been prepared showing the major milestones for the program. The schedule is provided in Appendix C. Further refinements will be made in accordance with normal procedures for annual fiscal planning. It is expected that organizations assigned one or more Action Group packages will develop detailed schedules for completion of those assignments and integrate them into their annual work plans.

RESOURCES PLAN

The following resources in RL and contractor organization(s) will be needed to support this program:

- EP Improvement Program Manager
- Management personnel in organizations assigned one or more Action Group packages
- Subject matter experts in organizations assigned one or more Action Group packages
- Administrative/Clerical Support personnel

CONTROLLED ITEMS/BASELINES

The program controlled baseline consists of the following:

- Listing of individual actions (Appendix A)
- Definition of Action Groups (Appendix B)
- A baseline schedule for program activities (Appendix C)

All dates the dates provided in this Plan are preliminary. As additional planning is conducted by performing organizations or as activity scope changes, these preliminary dates will be updated in Action Group tracking packages using the process described in HNF-6395.

PROGRAM CHARTER

The RL Director of Security and Emergency Services is the senior line manager responsible for the completion of the program objectives. The RL Director of Security and Emergency Services reports to the RL Manager.

Appendix A: Emergency Preparedness Improvement Actions

Action Group Issue	Source	Program Owner
Aviation coordination		
• RL/ORP should review and revise the process for controlling airspace and authorizing DOE funded personnel on chartered aircraft. (2l)	RL Fire Report	RL Aviation Safety
Communication System Upgrades: Crash Phone Replacement		
• Replace crash phone	RL Action List	RL SES (Emergency Preparedness)
Communication System Upgrades: Radio Equipment/Cell Phones		
• RL/ORP should review, revise, and demonstrate effectiveness of communication capabilities to enable participation of Site and external entities in emergencies that affect the Hanford Site (cell phones, radio frequencies, information dissemination). (2d)	RL Fire Report	RL OSS
• Need to evaluate radio communication enhancements	RL Senior Management Feedback	RL OSS
• Improve radio communication between field teams and offsite, especially Grant County.	RL Action List	RL OSS
• W-04: Cell phones became saturated during picric acid event.	Picric Acid Emergency	RL OSS
• HFD and Patrol communications deadspots exist and communication with off site is not always reliable.	NN-60	RL OSS
• The Service and cooperators should: Jointly explore with cooperators potential solutions to radio communications problems.	Fish and Wildlife Report	RL OSS
• Research field team radios to ensure communication with off site entities, especially Grant County.	FH Action List	RL OSS

Appendix A: Emergency Preparedness Improvement Actions

Action Group Issue	Source	Program Owner
Coordination with external fire response agencies: MOU's		
• RL/ORP should review and revise as appropriate, agreements (e.g., MOUs, contracts) with non-DOE tenants at the Hanford Site (e.g., LIGO, U.S. Ecology, Energy Northwest) that implement execution of Site emergency management. (1a4)	RL Fire Report	RL OSS (Infrastructure)
• The Service and cooperators should: Not use cell phones for tactical operations.	Fish and Wildlife Report	RL SES (Emergency Preparedness)
• Co-sponsor a fire safety workshop with the Tri-County Fire Chiefs to debrief those who were directly involved in the fire (firefighter and law enforcement) on June 27 and 28, at the fire's peak.	Fish and Wildlife Report	RL SES (Fire Protection)
• Both Benton County and the City of Richland have submitted letters to DOE re: effectiveness of the Emergency Communication System. RL has responded and recommended a meeting to discuss the issues (RL will take the lead in setting up the meeting).	RL Fire Follow Up Matrix	RL SES (Fire Protection)
• Interface between HFD EMTs, HEHF, and Mid Columbia Emergency Management needs to be clarified.	Sulfur Odor Event	RL SES (Fire Protection)
• RL/ORP need MOUs or agreements with the Yakima Training Center (for aerial helicopter support for wildland fire suppression) and the Washington State Patrol Yakima Detachment (for incident management) to support wildland firefighting operations. (1a3)	RL Fire Report	RL SES (Fire Protection)
• RL/ORP need to update and enhance MOUs and agreements between RL/ORP and the FWS, and between the HFD and FWS to address NWCG roles and responsibilities and protocols associated with ordering aerial tanker suppression support. (1a2)	RL Fire Report	RL SES (Fire Protection)
• DOE-HQ Year of the Fire Initiative: DOE enter into MOU with Agriculture and Interior Departments re: Wild land Fire Fighting	RL Fire Follow Up Matrix	RL SES (Fire Protection)
• The Cooperators should: Increase communication with local fire chiefs to enhance coordination of preparedness planning, training, and tactics.	Fish and Wildlife Report	RL SES (Fire Protection)
• The Monument should: Meet with contractors and cooperators to identify opportunities to increase the safety, effectiveness, and efficiency of fire protection on the Monument and adjoining lands.	Fish and Wildlife Report	RL SES (Fire Protection)

Appendix A: Emergency Preparedness Improvement Actions

Action Group	Issue	Source	Program Owner
	• The Monument should: Activate their local MAC Group whenever wildland fire activities are affecting more than one agency or there is competition for incident resources in a geographic area.	Fish and Wildlife Report	RL SES (Fire Protection)
	• Arrange for authorizations, agreements and procedures to be in place to use each others' radio frequencies; the procedures should be tied to the annual operating plan.	Fish and Wildlife Report	RL SES (Fire Protection)
	• Review procedures for transitioning from structural or local ordering to Federal ordering at both the pre-season meeting with cooperators & the local Type 3 team meeting. All involved should understand the date and time that resources are required.	Fish and Wildlife Report	RL SES (Fire Protection)
Coordination with external fire response agencies: Procedures/Plans			
	• Ensure fire and emergency response plans and procedures address wildland fires.	HQ Wildland Fire Review Report	RL SES (Emergency Preparedness)
	• Evaluate consolidation of the Hanford JIC with the local County JICs.	RL Action List	RL SES (Emergency Preparedness)
	• Coordination is needed between the Hanford Site Joint Information Center (JIC) and Benton County Emergency Management (EM).	T-3 Tabletop Exercise	RL SES (Emergency Preparedness)
	• The procedures didn't cover the NWCG Unified Command structure	RL Senior Management Feedback	RL SES (Emergency Preparedness)
	• The procedures didn't cover the Incident Management Team (IMT) and the National Wildfire Coordination Group (NWCG) resource ordering/coordinating process.	RL Senior Management Feedback	RL SES (Emergency Preparedness)
	• DOE participation with other agencies needs clarification	RL Senior Management Feedback	RL SES (Emergency Preparedness)

Appendix A: Emergency Preparedness Improvement Actions

Action Group Issue	Source	Program Owner
Coordination with external fire response agencies: Training		
• Address these standards (NWCG training, qualification, and certification standards) in the agreement between the Service (Fish and Wildlife), DOE, their HFD contractors, and other cooperators.	Fish and Wildlife Report	RL SES (Fire Protection)
• The Monument should: Have the Agency Administrator and his representatives attend the Fire Management Leadership course and invite members of other fire districts to attend, as well.	Fish and Wildlife Report	RL SES (Fire Protection)
Corrective Action Management		
• RL/ORP should improve the corrective action management system to ensure that improvement actions are managed adequately. (JON-4)	RL Fire Report	Office of Performance Evaluation
Emergency Plan Updates		
• Update DOE/RL-94-02 to incorporate RCRA contingency plan implementation requirements.	RL Action List	RL SES (Emergency Preparedness)
• Abnormal Event (AE) procedure needs to be changed to reflect the Base Program Operational Emergency.	T-3 Tabletop Exercise	RL SES (Emergency Preparedness)
• Clarify the requirement for contractor EP program assessments in DOE/RL-94-02.	RL Action List	RL SES (Emergency Preparedness)
• Update DOE/RL-94-02 to reflect lessons learned from FBI tabletop, e.g. obtaining ransom money, housing FBI responders, etc.	RL Action List	RL SES (Emergency Preparedness)
• Review the process for Base Program Operational Emergency management and implement improvements as appropriate.	FH Self Assessment	RL SES (Emergency Preparedness)
• Implement recommendations for on-call BED process improvements	FH Self Assessment	RL SES (Emergency Preparedness)

Appendix A: Emergency Preparedness Improvement Actions

Action Group Issue	Source	Program Owner
EOC Communication Processes: External		
• The HAB has expressed interest in the Hanford Fire, its effects, and how we have dealt with it. It was discussed at the last HAB Meeting on 9/7.	RL Fire Follow Up Matrix	IPI
• Formalize Process for providing situation reports to HQ	Bold Endeavor Exercise	RL SES (Emergency Preparedness)
• Interface between HQ and Hanford EOC needs improvement	EOC Staff Feedback	RL SES (Emergency Preparedness)
• The Cooperators should: Evaluate personnel assignments criteria to improve information flow from field units to the Emergency Operation Center.	Fish and Wildlife Report	RL SES (Emergency Preparedness)
• RL/ORP review and revise the process for technical review for accuracy and approval of hazard communications with outside agencies. (1e)	RL Fire Report	RL SES (Emergency Preparedness)
• The Notification Form should be modified to provide information that is relevant to offsite agencies (not enough space in the status column)	RL Senior Management Feedback	RL SES (Emergency Preparedness)
• Offsite agencies need to keep a representative in the EOC	RL Senior Management Feedback	RL SES (Emergency Preparedness)
• Formalize the process for developing and approving the Situation Report	RL Senior Management Feedback	RL SES (Emergency Preparedness)
EOC Communication Processes: Internal		
• Need to improve the process for refreshing WebEOC information—much of the information remained on the screen throughout the event and did not provide value after significant time elapsed	RL Senior Management Feedback	RL SES (Emergency Preparedness)
• Need to improve control of security related information displayed on WebEOC	Rolling Thunder Exercise	RL SES (Emergency Preparedness)
• Communication of information from the EOC to the JIC was slow.	Bold Endeavor Exercise	RL SES (Emergency Preparedness)
• Communications in the EOC needs improvement	EOC Staff Feedback	RL SES (Emergency Preparedness)

Appendix A: Emergency Preparedness Improvement Actions

Action Group Issue	Source	Program Owner
EOC Information System Upgrades: GIS Capability		
• Mapping capability needed in the EOC	EOC Staff Feedback	RL OSS (Infrastructure)
• Geospacial Information System (GIS) capability is needed in the EOC (Bureau of Land Management has some information already available)	RL Senior Management Feedback	RL OSS (Infrastructure)
EOC Information System Upgrades: Miscellaneous		
• RL/ORP should upgrade the tools available to emergency response to enhance the collection, display, and dissemination of emergency data. (2k)	RL Fire Report	RL SES (Emergency Preparedness)
• Need to put a fax machine near Policy Team table	RL Senior Management Feedback	RL SES (Emergency Preparedness)
• Need to make teleconference capabilities more available to Policy Team (discussion about the room should be unclassified)	RL Senior Management Feedback	RL SES (Emergency Preparedness)
• Evaluate the need for a Hanford Fact Book.	Sulfur Odor Event	RL SES (Emergency Preparedness)
EOC Information System Upgrades: Video/Still Picture Capabilities		
• Need to have TV feed/display available	RL Senior Management Feedback	RL OSS (Infrastructure)
• Provide capabilities to transmit still pictures and live video to the EOC from the event scene.	RL Action List	RL OSS (Infrastructure)
• Need video cameras placed at strategic locations on Site that feed signals to the EOC	RL Senior Management Feedback	RL OSS (Infrastructure)

Appendix A: Emergency Preparedness Improvement Actions

Action Group	Issue	Source	Program Owner
EOC Physical Design			
	• Implement recommendations for Security Room hardware upgrades.	Security Room Task Team	RL SES (Emergency Preparedness)
	• Need procedures addressing selection of the mode for the EOC heating and ventilation based on conditions being experienced.	RL Senior Management Feedback	RL SES (Emergency Preparedness)
	• RL/ORP should review and revise the staging, maintenance, and storage of equipment used in emergency response. (2n)	RL Fire Report	RL SES (Emergency Preparedness)
	• RL and the General Services Administration should asses the design of the Federal Building to support EOC operations. (2m)	RL Fire Report	RL SES (Emergency Preparedness)
	• Workspace in the EOC needs improvement	EOC Staff Feedback	RL SES (Emergency Preparedness)
	• Rearrange the SMT decision table to improve communication/functionality.	RL Action List	RL SES (Emergency Preparedness)

Appendix A: Emergency Preparedness Improvement Actions

Action Group	Issue	Source	Program Owner
EOC Procedures			
	• JIC flooded with calls after a TV announcement was aired containing incorrect information--review procedures for possible upgrades.	Sulfur Odor Event	RL SES (Emergency Preparedness)
	• Provide more structure in the Event Coordination Team procedure.	Sulfur Odor Event	RL SES (Emergency Preparedness)
	• Improve information provided to employees about road blocks during events.	Sulfur Odor Event	RL SES (Emergency Preparedness)
	• IPI and JIC fax lists differ.	Sulfur Odor Event	RL SES (Emergency Preparedness)
	• The procedures covered the first few hours, after that there was a need to improvise.	RL Senior Management Feedback	RL SES (Emergency Preparedness)
	• RL/ORP should review and revise the process for the technical review for accuracy and approval of press releases. (2j)	RL Fire Report	RL SES (Emergency Preparedness)
	• W-03: Need to implement an EOC equipment surveillance procedure to ensure equipment readiness.	Picric Acid Emergency	RL SES (Emergency Preparedness)
	• Determine contract language and performance measures for accountability	HQ Corrective Action Plan	RL SES (Emergency Preparedness)
	• Mass Casualty Plan needs to be incorporated in EOC procedures	Bold Endeavor Exercise	RL SES (Emergency Preparedness)
	• Evaluate synchronizing the release of crash phone messages, employee messages, and press releases to ensure consistent information.	Sulfur Odor Event	RL SES (Emergency Preparedness)

Appendix A: Emergency Preparedness Improvement Actions

Action Group Issue	Source	Program Owner
EOC Procedures/Plans: Multiple Facility Impacts		
• Need to upgrade procedures for notification when multiple facilities reach EALs at the same emergency level at the same time.	Pluto Exercise	RL SES (Emergency Preparedness)
• Procedures don't address situations without a single Building Emergency Director as well as they need to	RL Senior Management Feedback	RL SES (Emergency Preparedness)
• Procedures are oriented towards a source or building specific event	RL Senior Management Feedback	RL SES (Emergency Preparedness)
• Procedures don't address an external event that impacts Hanford	RL Senior Management Feedback	RL SES (Emergency Preparedness)
• Need guidelines for large/complex responses – not detailed procedures	RL Senior Management Feedback	RL SES (Emergency Preparedness)
EOC Procedures: EAL Upgrades		
• Upgrade to General Emergency pointed out inconsistencies in security EALs across the site.	Bold Endeavor Exercise	RL SES (Emergency Preparedness)
• Need anticipatory emergency declaration capability (when to declare)	RL Senior Management Feedback	RL SES (Emergency Preparedness)
• RL/ORP should add a new Emergency Action Level based on an anticipated fire in the Snively Canyon area of Arid Lands Ecology Reserve. (2b1)	RL Fire Report	RL SES (Emergency Preparedness)
• Issue an RLEP for Hazards Assessment process	RL Action List	RL SES (Emergency Preparedness)
• Issue an RLEP for EAL development	RL Action List	RL SES (Emergency Preparedness)

Appendix A: Emergency Preparedness Improvement Actions

Action Group Issue	Source	Program Owner
EOC Procedures: Protective Action Procedure Upgrades		
• Evaluate standard frequency for sounding alarms and crash phone messages during extended protective action periods.	Sulfur Odor Event	RL SES (Emergency Preparedness)
• Upgrade Columbia River Alerting Procedure	Jupiter Exercise	RL SES (Emergency Preparedness)
• Procedures for UDAC communication with boat crew need improvement.	Jupiter Exercise	RL SES (Emergency Preparedness)
• Evaluate need for guidance for facilities on when it is appropriate to take protective action for CAM alarms that are below EAL/Take Cover levels.	PFP Take Cover Event	RL SES (Emergency Preparedness)
• Update POC checklist to activate area take cover sirens when a facility activates their siren.	PFP Take Cover Event	RL SES (Emergency Preparedness)
• Evaluate putting instructions to secure ventilation in crash phone message for take cover.	Sulfur Odor Event	RL SES (Emergency Preparedness)
• Verify POC has procedures in place to initiate take cover prior to BED or IC direction to do so.	Sulfur Odor Event	RL SES (Emergency Preparedness)
• Evaluate whether eating and drinking is permissible during a take cover.	Sulfur Odor Event	RL SES (Emergency Preparedness)
• Need a prescripted message to encourage people to contact HEHF with health concerns after an event where protective actions were taken.	Sulfur Odor Event	RL SES (Emergency Preparedness)
• Some trailers and buildings don't have crash phones or rest rooms - creates problems during extended take cover.	Sulfur Odor Event	RL SES (Emergency Preparedness)
EOC Records		
• A system for retaining EOC records that meets the requirements of DOE/RL-94-02, 14.3.6 is needed.	FH Self Assessment	RL SES (Emergency Preparedness)

Appendix A: Emergency Preparedness Improvement Actions

Action Group	Issue	Source	Program Owner
EOC Security Staff Redesign			
	• Security information into the EOC was duplicated--TSG was providing information already received.	Bold Endeavor Exercise	RL SES (Emergency Preparedness)
	• Communication between TSG and Security Director were ineffective	Rolling Thunder Exercise	RL SES (Emergency Preparedness)
	• EOC staff does not include a security contractor representative.	Rolling Thunder Exercise	RL SES (Emergency Preparedness)
	• Implement recommendations for Security Room procedure upgrades.	Security Room Task Team	RL SES (Emergency Preparedness)

Appendix A: Emergency Preparedness Improvement Actions

Action Group	Issue	Source	Program Owner
EOC Staffing			
	• RL/ORP should consider inclusion of mutual aid representatives at the EOC during site-wide emergency events. (1d1)	RL Fire Report	RL SES (Emergency Preparedness)
	• Too many people in the EOC for an event coordination team.	Sulfur Odor Event	RL SES (Emergency Preparedness)
	• Reduce the number of people in the EOC.	Rosselli Assignment	RL SES (Emergency Preparedness)
	• Need to recruit additional JIC Spokespersons	RL Senior Management Feedback	RL SES (Emergency Preparedness)
	• Establish a Deputy Emergency Manager position (this could be the title for the combined position of Offsite Interface Coordinator and HQ Liaison	RL Senior Management Feedback	RL SES (Emergency Preparedness)
	• Evaluate combining the positions of Offsite Interface Coordinator and HQ Liaison	RL Senior Management Feedback	RL SES (Emergency Preparedness)
	• Need to improve processes for controlling shift length and shift change	RL Senior Management Feedback	RL SES (Emergency Preparedness)
	• Need to have better control of visitors in the EOC	RL Senior Management Feedback	RL SES (Emergency Preparedness)
	• RL/ORP should review, revise and demonstrate effectiveness of emergency response staffing levels to ensure shift turnovers can be supported for protracted operations. (2e)	RL Fire Report	RL SES (Emergency Preparedness)
	• Reduce the number of people having routine prox card access to the EOC.	RL Action List	RL SES (Emergency Preparedness)
	• Improve access control to the EOC.	RL Action List	RL SES (Emergency Preparedness)
	• Staffing of EOC needs improvement	EOC Staff Feedback	RL SES (Emergency Preparedness)
	• RL/ORP should review and revise process for identification of Site staff expertise in advisory and support capacities to enhance emergency management teams. (2f)	RL Fire Report	RL SES (Emergency Preparedness)

Appendix A: Emergency Preparedness Improvement Actions

Action Group	Issue	Source	Program Owner
ERO Training			
	• IH personnel are not mask fit certified and not trained as emergency responders.	Sulfur Odor Event	RL SES (Emergency Preparedness)
	• Provide ICS training to select EOC staff.	FH Action List	RL SES (Emergency Preparedness)
	• Include wildland fire scenarios as part of the site drill and exercise program, as appropriate.	HQ Wildland Fire Review Report	RL SES (Emergency Preparedness)
	• Provide familiarization training for EOC staff on HFD Incident Response Plan.	Sulfur Odor Event	RL SES (Emergency Preparedness)
	• Need a process for assigning Trainees during exercises	FH Self Assessment	RL SES (Emergency Preparedness)
	• Policy Team Off Site Interface Coordinator activated crash phone without a notification form.	Pluto Exercise	RL SES (Emergency Preparedness)
	• Conduct tabletop exercises with other Federal agencies (need to drill/exercise more with sitewide event scenarios -- tabletops would work)	RL Senior Management Feedback	RL SES (Emergency Preparedness)
Essential Personnel			
	• Definition of essential personnel needed	EOC Staff Feedback	RL SES (Emergency Preparedness)
	• RL/ORP review and revise the requirements for identification of essential personnel during emergencies and for the provision of avenues of safe access. (2c)	RL Fire Report	RL SES (Emergency Preparedness)
Facility evacuation			
	• Improve procedures/process for Post Office notifying POC of evacuation.	RL Action List	RL SES (Emergency Preparedness)
	• RL/ORP should examine the emergency management process to ensure that facility/site abandonment is addressed in the evacuation process. (2a)	RL Fire Report	RL SES (Emergency Preparedness)

Appendix A: Emergency Preparedness Improvement Actions

Action Group Issue	Source	Program Owner
Firebreaks along roadways		
• Internal Roads: Mow weeds, apply herbicide and apply soil fixative	RL Fire Follow Up Matrix	RL OSS (Infrastructure)
• RL/ORP and contractors need to coordinate with local clean air authorities, state regulators, DOE-HQ Office of Environment, & Washington DOT to improve firebreaks along state right-of-way shoulders between Highways 24 and 240 and the DOE fence line. (1a1)	RL Fire Report	RL OSS (Infrastructure)
• SR-24: Mow weeds, apply herbicide and apply soil fixative	RL Fire Follow Up Matrix	RL OSS (Infrastructure)
• SR-240: Apply herbicide for cheatgrass and tumbleweed control and apply soil fixative	RL Fire Follow Up Matrix	RL OSS (Infrastructure)
HFD Needs Assessment		
• RL/ORP should review and revise existing processes for control and deployment of non-Hanford emergency personnel used during field emergency response. (1b)	RL Fire Report	RL SES (Fire Protection)
• The HFD needs assessment document must be updated to include NWCG planning, protocols, involvement, and resources necessary to manage future wildland fires of similar size, and results should be fed back into the Emergency Preparedness program. (1c)	RL Fire Report	RL SES (Fire Protection)
• RL should review and revise the need to disseminate requirements for use of non-DOE equipment. (2i)	RL Fire Report	RL SES (Fire Protection)
• Evaluate the use of the fire break wetdown system developed by the Idaho field office	RL Senior Management Feedback	RL SES (Fire Protection)
• Expand the fire department baseline needs assessment to reflect wildland fire response needs.	HQ Wildland Fire Review Report	RL SES (Fire Protection)
• Ensure that fire protection program implementing procedures address wildland fire prevention and mitigation elements.	HQ Wildland Fire Review Report	RL SES (Fire Protection)
• Emergency Preparedness should be added to the scope of the Fire Department needs assessment.	FH Self Assessment	RL SES (Fire Protection)

Appendix A: Emergency Preparedness Improvement Actions

Action Group	Issue	Source	Program Owner
Infrastructure Repairs			
	• Four septic systems with only minor damage have been repaired. Fifth system should be completed by 6/01 at cost of $400K.	RL Fire Follow Up Matrix	RL OSS
Potential Legal Issues			
	• Request from Heart of America to EPA. No inquiries received by RL-EOC related to this request at this time	RL Fire Follow Up Matrix	RL Legal
	• EM-11 provided additional funds to RL tribes to do an assessment of damage to cultural resources as a result of the fire. Each of the tribes submitted a work scope with their concerns regarding the impacts of the fire, not addressed in the BAER report.	RL Fire Follow Up Matrix	RL Legal
	• Two claims received from residents. One claim received by HQ from Electric Association.	RL Fire Follow Up Matrix	RL Legal

Appendix A: Emergency Preparedness Improvement Actions

Action Group Issue	Source	Program Owner
Radiological Support: Federal Asset Deployment		
• RL/ORP should evaluate developing MOUs with WDOH & EPA on rad monitoring protocols during the emergency, ingestion, and recovery phases of a radiological event. (until resolved at the national level; see Recommendations for Resolution of JON-3). (1a5)	RL Fire Report	RL SES (Emergency Preparedness)
• SO-42 should assess the FERP to include EPA independent rad monitoring during events and for limited deployment of FRMAC whenever EPA has been deployed. In addition, SO-42 should determine if AMS assets are at an acceptable level of readiness. (JON-3)	RL Fire Report	RL SES (Emergency Preparedness)
• Need to develop procedures for independent monitoring done by off site agencies, e.g. EPA, WDOH, etc.	RL Senior Management Feedback	RL SES (Emergency Preparedness)
• Improve the process and procedures for requesting the seven DOE Emergency Response Assets.	FH Self Assessment	RL SES (Emergency Preparedness)
• Improve the process and procedures for requesting assistance from any of the signatories under the Federal Radiological Emergency Response Plan (FRERP). Note: There are 17 signatories - one is the DOE.	FH Self Assessment	RL SES (Emergency Preparedness)
• Emergency response procedure RLEP 3.7 "Responding to Requests for Offsite Emergency Assistance" does not have a process for initiating a RAP response for a DOE-owned shipment without a request from a state or local agency.	T-3 Tabletop Exercise	RL SES (Emergency Preparedness)
Radiological Support: Field Team Procedures		
• Improve process for obtaining permission to administer KI to field teams.	NN-60	ESD
• RL/ORP should review and revise the process for collection and analysis of radiological data during and post event. (2g)	RL Fire Report	ESD
• Field Team data collection and analysis needs improvement	EOC Staff Feedback	ESD
Radiological Support: Personnel Monitoring		
• Bioassay services were offered to all Hanford and Non-Hanford firefighters--follow-up required for all samples received.	RL Fire Follow Up Matrix	ESD

Appendix A: Emergency Preparedness Improvement Actions

Action Group	Issue	Source	Program Owner
Recovery Procedures			
	• Procedures for recovery need to address "seamless" transition to normal operations	Recovery Team Feedback	RL SES (Emergency Preparedness)
	• DOE/ORP should review and revise the recovery action process from emergency events to include scope beyond facility reentry. (2h)	RL Fire Report	RL SES (Emergency Preparedness)
	• Procedures for recovery need to address closeout of recovery activities.	Recovery Team Feedback	RL SES (Emergency Preparedness)
	• Need a single, accurate facility database for use by recovery team personnel	Recovery Team Feedback	RL SES (Emergency Preparedness)
	• Plans and implementing documents for recovery should be in place before the even	Recovery Team Feedback	RL SES (Emergency Preparedness)
	• An identified team should be established and maintained for recovery from site emergencies	Recovery Team Feedback	RL SES (Emergency Preparedness)
	• Procedures for recovery need to address continuation of data collection/analysis aft recovery actions are complete	Recovery Team Feedback	RL SES (Emergency Preparedness)
	• Procedures for recovery need to address document retention	Recovery Team Feedback	RL SES (Emergency Preparedness)
Revegetate the 200 West areas affected by the fire.			
	• Reseed inside perimeter of 200 West extension fence, 25' wide by ~ 3.5 miles (~ 10 acres)	RL Fire Follow Up Matrix	RL OSS
	• Apply soil fixative between fence and to perimeter of 200 West extension, 40' wide ~ 3.5 miles (~17 acres) to control encroaching sand	RL Fire Follow Up Matrix	RL OSS
	• Reseed interior with native grasses (~820 acres)	RL Fire Follow Up Matrix	RL OSS
	• Plant 117,000 sagebrush tublings in irregular island pattern of interior 820 acres	RL Fire Follow Up Matrix	RL OSS
	• Seed 150 acres of construction buffer zone immediately west of the facility with no native grasses and shrubs crimp, mulch, and apply soil fixative	RL Fire Follow Up Matrix	RL OSS

Appendix A: Emergency Preparedness Improvement Actions

Action Group Issue	Source	Program Owner
Recovery Procedures		
• Procedures for recovery need to address "seamless" transition to normal operations	Recovery Team Feedback	RL SES (Emergency Preparedness)
• DOE/ORP should review and revise the recovery action process from emergency events to include scope beyond facility reentry. (2h)	RL Fire Report	RL SES (Emergency Preparedness)
• Procedures for recovery need to address closeout of recovery activities.	Recovery Team Feedback	RL SES (Emergency Preparedness)
• Need a single, accurate facility database for use by recovery team personnel	Recovery Team Feedback	RL SES (Emergency Preparedness)
• Plans and implementing documents for recovery should be in place before the event.	Recovery Team Feedback	RL SES (Emergency Preparedness)
• An identified team should be established and maintained for recovery from site emergencies	Recovery Team Feedback	RL SES (Emergency Preparedness)
• Procedures for recovery need to address continuation of data collection/analysis after recovery actions are complete	Recovery Team Feedback	RL SES (Emergency Preparedness)
• Procedures for recovery need to address document retention	Recovery Team Feedback	RL SES (Emergency Preparedness)
Revegitate the 200 West areas affected by the fire.		
• Reseed inside perimeter of 200 West extension fence, 25' wide by ~ 3.5 miles (~ 10 acres)	RL Fire Follow Up Matrix	RL OSS
• Apply soil fixative between fence and to perimeter of 200 West extension, 40' wide by ~ 3.5 miles (~17 acres) to control encroaching sand	RL Fire Follow Up Matrix	RL OSS
• Reseed interior with native grasses (~820 acres)	RL Fire Follow Up Matrix	RL OSS
• Plant 117,000 sagebrush tublings in irregular island pattern of interior 820 acres	RL Fire Follow Up Matrix	RL OSS
• Seed 150 acres of construction buffer zone immediately west of the facility with non-native grasses and shrubs crimp, mulch, and apply soil fixative	RL Fire Follow Up Matrix	RL OSS

Appendix A: Emergency Preparedness Improvement Actions

Action Group Issue	Source	Program Owner
Self Assessment		
• Need self assessment of FH overall EP program.	NN-60	RL SES (Emergency Preparedness)
• Conduct assessment of annual training effectiveness.	HQ Corrective Action Plan	RL SES (Emergency Preparedness)
Training Program Upgrades		
• Develop a Training Program Plan.	FH Self Assessment	RL SES (Emergency Preparedness)
UDAC modeling improvements		
• Improve UDAC modeling process.	Jupiter Exercise	RL SES (Emergency Preparedness)
• Improvements needed in UDAC use of HUDU code.	Jupiter Exercise	RL SES (Emergency Preparedness)
• Need to have computerized simulation capability (for other than radiological events) to be used for training	RL Senior Management Feedback	RL SES (Emergency Preparedness)
• Need fire modeling capability in UDAC	RL Senior Management Feedback	RL SES (Emergency Preparedness)
• Evaluate and document the risk from and potential consequences of wildland fires.	HQ Wildland Fire Review Report	RL SES (Emergency Preparedness)
• Evaluate the need for APGEMS code dose conversion factors and other assumptions.	DTS	RL SES (Emergency Preparedness)

Appendix A: Emergency Preparedness Improvement Actions

Action Group	Issue	Source	Program Owner
Unknown Scope			
	• DOE-HQ Year of the Fire Initiative: DOE HQ establish a national advisory committee to review adequacy of DOE fire safety programs.	RL Fire Follow Up Matrix	RL SES
	• Create an action plan to implement the Tri-County Fire Chiefs fire safety workshop recommendations.	Fish and Wildlife Report	RL SES
	• Implement a new revision to DOE O 151.1	In Development	RL SES
	• Implement directives from DOE Secretary on complex wide lessons learned from summer 2000 wild fires.	In Development	RL SES
	• Benton County Commissioners have sent a letter to Washington's Congressional Delegation requesting a review.	RL Fire Follow Up Matrix	RL SES
	• DOE-HQ Year of the Fire Initiative: Office of Emergency Operations/EH joint review of fire safety and emergency mgmt.	RL Fire Follow Up Matrix	RL SES

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Improve the coordination of aircraft during emergency response

The following details must be addressed when closing this item:

Issue	Source
• RL/ORP should review and revise the process for controlling airspace and authorizing DOE funded personnel on chartered aircraft. (2I)	RL Fire Report

ACTION ASSIGNED TO:

RL Aviation Safety

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Replace the existing crash phone system

The following details must be addressed when closing this item:

Issue	Source
• Replace crash phone	RL Action List

ACTION ASSIGNED TO:

RL SES (Emergency Preparedness)

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Evaluate and implement upgrades to existing radio and cell phone equipment

The following details must be addressed when closing this item:

Issue	Source
• RL/ORP should review, revise, and demonstrate effectiveness of communication capabilities to enable participation of Site and external entities in emergencies that affect the Hanford Site (cell phones, radio frequencies, information dissemination). (2d)	RL Fire Report
• Improve radio communication between field teams and offsite, especially Grant County.	RL Action List
• W-04: Cell phones became saturated during picric acid event.	Picric Acid Emergency
• HFD and Patrol communications deadspots exist and communication with off site is not always reliable.	NN-60
• The Service and cooperators should: Jointly explore with cooperators potential solutions to radio communications problems.	Fish and Wildlife Report
• Research field team radios to ensure communication with off site entities, especially Grant County.	FH Action List
• Need to evaluate radio communication enhancements	RL Senior Management Feedback

ACTION ASSIGNED TO:

RL OSS

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Develop or improve MOUs with external fire response agencies.

The following details must be addressed when closing this item:

Issue	Source
• Co-sponsor a fire safety workshop with the Tri-County Fire Chiefs to debrief those who were directly involved in the fire (firefighter and law enforcement) on June 27 and 28, at the fire's peak.	Fish and Wildlife Report
• The Cooperators should: Increase communication with local fire chiefs to enhance coordination of preparedness planning, training, and tactics.	Fish and Wildlife Report
• Interface between HFD EMTs, HEHF, and Mid Columbia Emergency Management needs to be clarified.	Sulfur Odor Event
• RL/ORP need MOUs or agreements with the Yakima Training Center (for aerial helicopter support for wildland fire suppression) and the Washington State Patrol Yakima Detachment (for incident management) to support wildland firefighting operations. (1a3)	RL Fire Report
• RL/ORP need to update and enhance MOUs and agreements between RL/ORP and the FWS, and between the HFD and FWS to address NWCG roles and responsibilities and protocols associated with ordering aerial tanker suppression support. (1a2)	RL Fire Report
• DOE-HQ Year of the Fire Initiative: DOE enter into MOU with Agriculture and Interior Departments re: Wild land Fire Fighting	RL Fire Follow Up Matrix
• Both Benton County and the City of Richland have submitted letters to DOE re: effectiveness of the Emergency Communication System. RL has responded and recommended a meeting to discuss the issues (RL will take the lead in setting up the meeting).	RL Fire Follow Up Matrix
• The Monument should: Meet with contractors and cooperators to identify opportunities to increase the safety, effectiveness, and efficiency of fire protection on the Monument and adjoining lands.	Fish and Wildlife Report
• The Monument should: Activate their local MAC Group whenever wildland fire activities are affecting more than one agency or there is competition for incident resources in a geographic area.	Fish and Wildlife Report
• Arrange for authorizations, agreements and procedures to be in place to use each others' radio frequencies; the procedures should be tied to the annual operating plan.	Fish and Wildlife Report
• The Service and cooperators should: Not use cell phones for tactical operations.	Fish and Wildlife Report
• RL/ORP should review and revise as appropriate, agreements (e.g., MOUs, contracts) with non-DOE tenants at the Hanford Site (e.g., LIGO, U.S. Ecology, Energy Northwest) that implement execution of Site emergency management. (1a4)	RL Fire Report
• Review procedures for transitioning from structural or local ordering to Federal ordering at both the pre-season meeting with cooperators & the local Type 3 team meeting. All involved should understand the date and time that resources are required.	Fish and Wildlife Report

ACTION ASSIGNED TO:

RL SES (Fire Protection)

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Upgrade procedures associated with coordination with external fire response agencies.

The following details must be addressed when closing this item:

Issue	Source
• Ensure fire and emergency response plans and procedures address wildland fires.	HQ Wildland Fire Review Report
• Evaluate consolidation of the Hanford JIC with the local County JICs.	RL Action List
• Coordination is needed between the Hanford Site Joint Information Center (JIC) and Benton County Emergency Management (EM).	T-3 Tabletop Exercise
• The procedures didn't cover the NWCG Unified Command structure	RL Senior Management Feedback
• The procedures didn't cover the Incident Management Team (IMT) and the National Wildfire Coordination Group (NWCG) resource ordering/coordinating process.	RL Senior Management Feedback
• DOE participation with other agencies needs clarification	RL Senior Management Feedback

ACTION ASSIGNED TO:

RL SES (Emergency Preparedness)

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Upgrade training associated with NWCG and external support agencies.

The following details must be addressed when closing this item:

Issue	Source
• Address these standards (NWCG training, qualification, and certification standards) in the agreement between the Service (Fish and Wildlife), DOE, their HFD contractors, and other cooperators.	Fish and Wildlife Report
• The Monument should: Have the Agency Administrator and his representatives attend the Fire Management Leadership course and invite members of other fire districts to attend, as well.	Fish and Wildlife Report

ACTION ASSIGNED TO:

RL SES (Fire Protection)

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Improve the corrective action management system to address improvement items.

The following details must be addressed when closing this item:

Issue	Source
• RL/ORP should improve the corrective action management system to ensure that improvement actions are managed adequately. (JON-4)	RL Fire Report

ACTION ASSIGNED TO:

Office of Performance Evaluation

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Implement updates to DOE/RL-94-02 to effect identified improvements.

The following details must be addressed when closing this item:

Issue	Source
• Update DOE/RL-94-02 to incorporate RCRA contingency plan implementation requirements.	RL Action List
• Abnormal Event (AE) procedure needs to be changed to reflect the Base Program Operational Emergency.	T-3 Tabletop Exercise
• Clarify the requirement for contractor EP program assessments in DOE/RL-94-02.	RL Action List
• Update DOE/RL-94-02 to reflect lessons learned from FBI tabletop, e.g. obtaining ransom money, housing FBI responders, etc.	RL Action List
• Review the process for Base Program Operational Emergency management and implement improvements as appropriate.	FH Self Assessment
• Implement recommendations for on-call BED process improvements	FH Self Assessment

ACTION ASSIGNED TO:

RL SES (Emergency Preparedness)

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Improve Hanford EOC external communication processes and procedures.

The following details must be addressed when closing this item:

Issue	Source
• Formalize Process for providing situation reports to HQ	Bold Endeavor Exercise
• Interface between HQ and Hanford EOC needs improvement	EOC Staff Feedback
• The Cooperators should: Evaluate personnel assignments criteria to improve information flow from field units to the Emergency Operation Center.	Fish and Wildlife Report
• RL/ORP review and revise the process for technical review for accuracy and approval of hazard communications with outside agencies. (1e)	RL Fire Report
• The Notification Form should be modified to provide information that is relevant to offsite agencies (not enough space in the status column)	RL Senior Management Feedback
• Offsite agencies need to keep a representative in the EOC	RL Senior Management Feedback
• Formalize the process for developing and approving the Situation Report	RL Senior Management Feedback
• The HAB has expressed interest in the Hanford Fire, its effects, and how we have dealt with it. It was discussed at the last HAB Meeting on 9/7.	RL Fire Follow Up Matrix

ACTION ASSIGNED TO:

IPI

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Improve Hanford EOC internal communication processes and procedures.

The following details must be addressed when closing this item:

Issue	Source
• Need to improve the process for refreshing WebEOC information—much of the information remained on the screen throughout the event and did not provide value after significant time elapsed	RL Senior Management Feedback
• Need to improve control of security related information displayed on WebEOC	Rolling Thunder Exercise
• Communication of information from the EOC to the JIC was slow.	Bold Endeavor Exercise
• Communications in the EOC needs improvement	EOC Staff Feedback

ACTION ASSIGNED TO:

RL SES (Emergency Preparedness)

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Implement a GIS capability in the Hanford EOC.

The following details must be addressed when closing this item:

Issue	Source
• Mapping capability needed in the EOC	EOC Staff Feedback
• Geospacial Information System (GIS) capability is needed in the EOC (Bureau of Land Management has some information already available)	RL Senior Management Feedback

ACTION ASSIGNED TO:

RL OSS (Infrastructure)

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Conduct upgrades to the information systems in the Hanford EOC.

The following details must be addressed when closing this item:

Issue	Source
• RL/ORP should upgrade the tools available to emergency response to enhance the collection, display, and dissemination of emergency data. (2k)	RL Fire Report
• Need to put a fax machine near Policy Team table	RL Senior Management Feedback
• Need to make teleconference capabilities more available to Policy Team (discussion about the room should be unclassified)	RL Senior Management Feedback
• Evaluate the need for a Hanford Fact Book.	Sulfur Odor Event

ACTION ASSIGNED TO:

RL SES (Emergency Preparedness)

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Install capability to provide still and live video display of event scene in the Hanford EOC.

The following details must be addressed when closing this item:

Issue	Source
• Need to have TV feed/display available	RL Senior Management Feedback
• Provide capabilities to transmit still pictures and live video to the EOC from the event scene.	RL Action List
• Need video cameras placed at strategic locations on Site that feed signals to the EOC	RL Senior Management Feedback

ACTION ASSIGNED TO:

RL OSS (Infrastructure)

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Evaluate and implement upgrades to the Hanford EOC physical layout

The following details must be addressed when closing this item:

Issue	Source
• Implement recommendations for Security Room hardware upgrades.	Security Room Task Team
• Need procedures addressing selection of the mode for the EOC heating and ventilation based on conditions being experienced.	RL Senior Management Feedback
• RL/ORP should review and revise the staging, maintenance, and storage of equipment used in emergency response. (2n)	RL Fire Report
• RL and the General Services Administration should asses the design of the Federal Building to support EOC operations. (2m)	RL Fire Report
• Workspace in the EOC needs improvement	EOC Staff Feedback
• Rearrange the SMT decision table to improve communication/functionality.	RL Action List

ACTION ASSIGNED TO:

RL SES (Emergency Preparedness)

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Implement general improvements to Hanford EOC procedures based on lessons learned from recent events.

The following details must be addressed when closing this item:

Issue	Source
• JIC flooded with calls after a TV announcement was aired containing incorrect information--review procedures for possible upgrades.	Sulfur Odor Event
• Provide more structure in the Event Coordination Team procedure.	Sulfur Odor Event
• Improve information provided to employees about road blocks during events.	Sulfur Odor Event
• IPI and JIC fax lists differ.	Sulfur Odor Event
• The procedures covered the first few hours, after that there was a need to improvise.	RL Senior Management Feedback
• RL/ORP should review and revise the process for the technical review for accuracy and approval of press releases. (2j)	RL Fire Report
• W-03: Need to implement an EOC equipment surveillance procedure to ensure equipment readiness.	Picric Acid Emergency
• Determine contract language and performance measures for accountability	HQ Corrective Action Plan
• Mass Casualty Plan needs to be incorporated in EOC procedures	Bold Endeavor Exercise
• Evaluate synchronizing the release of crash phone messages, employee messages, and press releases to ensure consistent information.	Sulfur Odor Event

ACTION ASSIGNED TO:

RL SES (Emergency Preparedness)

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Evaluate and implement improvements to the EOC procedures to address multiple facility events/impacts.

The following details must be addressed when closing this item:

Issue	Source
• Need to upgrade procedures for notification when multiple facilities reach EALs at the same emergency level at the same time.	Pluto Exercise
• Procedures don't address situations without a single Building Emergency Director as well as they need to	RL Senior Management Feedback
• Procedures are oriented towards a source or building specific event	RL Senior Management Feedback
• Procedures don't address an external event that impacts Hanford	RL Senior Management Feedback
• Need guidelines for large/complex responses – not detailed procedures	RL Senior Management Feedback

ACTION ASSIGNED TO:

RL SES (Emergency Preparedness)

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Implement improvements to existing EAL procedures.

The following details must be addressed when closing this item:

Issue	Source
• Upgrade to General Emergency pointed out inconsistencies in security EALs across the site.	Bold Endeavor Exercise
• Need anticipatory emergency declaration capability (when to declare)	RL Senior Management Feedback
• RL/ORP should add a new Emergency Action Level based on an anticipated fire in the Snively Canyon area of Arid Lands Ecology Reserve. (2b1)	RL Fire Report
• Issue an RLEP for Hazards Assessment process	RL Action List
• Issue an RLEP for EAL development	RL Action List

ACTION ASSIGNED TO:

RL SES (Emergency Preparedness)

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Evaluate and implement improvements to the EOC procedures associated with protective actions.

The following details must be addressed when closing this item:

Issue	Source
• Evaluate standard frequency for sounding alarms and crash phone messages during extended protective action periods.	Sulfur Odor Event
• Upgrade Columbia River Alerting Procedure	Jupiter Exercise
• Procedures for UDAC communication with boat crew need improvement.	Jupiter Exercise
• Evaluate need for guidance for facilities on when it is appropriate to take protective action for CAM alarms that are below EAL/Take Cover levels.	PFP Take Cover Event
• Update POC checklist to activate area take cover sirens when a facility activates their siren.	PFP Take Cover Event
• Evaluate putting instructions to secure ventilation in crash phone message for take cover.	Sulfur Odor Event
• Verify POC has procedures in place to initiate take cover prior to BED or IC direction to do so.	Sulfur Odor Event
• Evaluate whether eating and drinking is permissible during a take cover.	Sulfur Odor Event
• Need a prescripted message to encourage people to contact HEHF with health concerns after an event where protective actions were taken.	Sulfur Odor Event
• Some trailers and buildings don't have crash phones or rest rooms - creates problems during extended take cover.	Sulfur Odor Event

ACTION ASSIGNED TO:

RL SES (Emergency Preparedness)

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Develop a process for the proper storage of Hanford EOC records.

The following details must be addressed when closing this item:

Issue	Source
• A system for retaining EOC records that meets the requirements of DOE/RL-94-02, 14.3.6 is needed.	FH Self Assessment

ACTION ASSIGNED TO:

RL SES (Emergency Preparedness)

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Implement recommendations of the Hanford EOC Security and Event Support task team.

The following details must be addressed when closing this item:

Issue	Source
• Security information into the EOC was duplicated--TSG was providing information already received.	Bold Endeavor Exercise
• Communication between TSG and Security Director were ineffective	Rolling Thunder Exercise
• EOC staff does not include a security contractor representative.	Rolling Thunder Exercise
• Implement recommendations for Security Room procedure upgrades.	Security Room Task Team

ACTION ASSIGNED TO:

RL SES (Emergency Preparedness)

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Evaluate and implement improvements to the EOC procedures associated with EOC staffing.

The following details must be addressed when closing this item:

Issue	Source
• RL/ORP should consider inclusion of mutual aid representatives at the EOC during site-wide emergency events. (1d1)	RL Fire Report
• Too many people in the EOC for an event coordination team.	Sulfur Odor Event
• Reduce the number of people in the EOC.	Rosselli Assignment
• Need to recruit additional JIC Spokespersons	RL Senior Management Feedback
• Establish a Deputy Emergency Manager position (this could be the title for the combined position of Offsite Interface Coordinator and HQ Liaison	RL Senior Management Feedback
• Evaluate combining the positions of Offsite Interface Coordinator and HQ Liaison	RL Senior Management Feedback
• Need to improve processes for controlling shift length and shift change	RL Senior Management Feedback
• Need to have better control of visitors in the EOC	RL Senior Management Feedback
• RL/ORP should review, revise and demonstrate effectiveness of emergency response staffing levels to ensure shift turnovers can be supported for protracted operations. (2e)	RL Fire Report
• Reduce the number of people having routine prox card access to the EOC.	RL Action List
• Improve access control to the EOC.	RL Action List
• Staffing of EOC needs improvement	EOC Staff Feedback
• RL/ORP should review and revise process for identification of Site staff expertise in advisory and support capacities to enhance emergency management teams. (2f)	RL Fire Report

ACTION ASSIGNED TO:

RL SES (Emergency Preparedness)

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Conduct upgrades to ERO training based on lessons learned from recent events.

The following details must be addressed when closing this item:

Issue	Source
• IH personnel are not mask fit certified and not trained as emergency responders.	Sulfur Odor Event
• Provide ICS training to select EOC staff.	FH Action List
• Include wildland fire scenarios as part of the site drill and exercise program, as appropriate.	HQ Wildland Fire Review Report
• Provide familiarization training for EOC staff on HFD Incident Response Plan.	Sulfur Odor Event
• Need a process for assigning Trainees during exercises	FH Self Assessment
• Policy Team Off Site Interface Coordinator activated crash phone without a notification form.	Pluto Exercise
• Conduct tabletop exercises with other Federal agencies (need to drill/exercise more with sitewide event scenarios -- tabletops would work)	RL Senior Management Feedback

ACTION ASSIGNED TO:

RL SES (Emergency Preparedness)

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Evaluate and implement improvements associated with essential staff management.

The following details must be addressed when closing this item:

Issue	Source
• Definition of essential personnel needed	EOC Staff Feedback
• RL/ORP review and revise the requirements for identification of essential personnel during emergencies and for the provision of avenues of safe access. (2c)	RL Fire Report

ACTION ASSIGNED TO:

RL SES (Emergency Preparedness)

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Develop a process for long term evacuation of Hanford Facilities

The following details must be addressed when closing this item:

Issue	Source
• Improve procedures/process for Post Office notifying POC of evacuation.	RL Action List
• RL/ORP should examine the emergency management process to ensure that facility/site abandonment is addressed in the evacuation process. (2a)	RL Fire Report

ACTION ASSIGNED TO:

RL SES (Emergency Preparedness)

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Establish and maintain firebreaks along designated roadways

The following details must be addressed when closing this item:

Issue	Source
• Internal Roads: Mow weeds, apply herbicide and apply soil fixative	RL Fire Follow Up Matrix
• RL/ORP and contractors need to coordinate with local clean air authorities, state regulators, DOE-HQ Office of Environment, & Washington DOT to improve firebreaks along state right-of-way shoulders between Highways 24 and 240 and the DOE fence line. (1a1)	RL Fire Report
• SR-24: Mow weeds, apply herbicide and apply soil fixative	RL Fire Follow Up Matrix
• SR-240: Apply herbicide for cheatgrass and tumbleweed control and apply soil fixative	RL Fire Follow Up Matrix

ACTION ASSIGNED TO:

RL OSS (Infrastructure)

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Update the existing HFD Third Party Needs Assessment

The following details must be addressed when closing this item:

Issue	Source
• RL/ORP should review and revise existing processes for control and deployment of non-Hanford emergency personnel used during field emergency response. (1b)	RL Fire Report
• The HFD needs assessment document must be updated to include NWCG planning, protocols, involvement, and resources necessary to manage future wildland fires of similar size, and results should be fed back into the Emergency Preparedness program. (1c)	RL Fire Report
• RL should review and revise the need to disseminate requirements for use of non-DOE equipment. (2i)	RL Fire Report
• Evaluate the use of the fire break wetdown system developed by the Idaho field office	RL Senior Management Feedback
• Expand the fire department baseline needs assessment to reflect wildland fire response needs.	HQ Wildland Fire Review Report
• Ensure that fire protection program implementing procedures address wildland fire prevention and mitigation elements.	HQ Wildland Fire Review Report
• Emergency Preparedness should be added to the scope of the Fire Department needs assessment.	FH Self Assessment

ACTION ASSIGNED TO:

RL SES (Fire Protection)

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Conduct repairs to site infrastructure damaged during 24 Command Fire.

The following details must be addressed when closing this item:

Issue	Source
• Four septic systems with only minor damage have been repaired. Fifth system should be completed by 6/01 at cost of $400K.	RL Fire Follow Up Matrix

ACTION ASSIGNED TO:

RL OSS

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Develop and implement a strategy to respond to potential legal issues resulting from the 24 Command fire.

The following details must be addressed when closing this item:

Issue	Source
• Request from Heart of America to EPA. No inquiries received by RL-EOC related to this request at this time	RL Fire Follow Up Matrix
• EM-11 provided additional funds to RL tribes to do an assessment of damage to cultural resources as a result of the fire. Each of the tribes submitted a work scope with their concerns regarding the impacts of the fire, not addressed in the BAER report.	RL Fire Follow Up Matrix
• Two claims received from residents. One claim received by HQ from Electric Association.	RL Fire Follow Up Matrix

ACTION ASSIGNED TO:

RL Legal

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Improve the process and understand DOE RL's role as a lead Federal Agency under the Federal Plans.

The following details must be addressed when closing this item:

Issue	Source
• RL/ORP should evaluate developing MOUs with WDOH & EPA on rad monitoring protocols during the emergency, ingestion, and recovery phases of a radiological event. (until resolved at the national level; see Recommendations for Resolution of JON-3). (1 a5)	RL Fire Report
• SO-42 should assess the FERP to include EPA independent rad monitoring during events and for limited deployment of FRMAC whenever EPA has been deployed. In addition, SO-42 should determine if AMS assets are at an acceptable level of readiness. (JON-3)	RL Fire Report
• Need to develop procedures for independent monitoring done by off site agencies, e.g. EPA, WDOH, etc.	RL Senior Management Feedback
• Improve the process and procedures for requesting the seven DOE Emergency Response Assets.	FH Self Assessment
• Improve the process and procedures for requesting assistance from any of the signatories under the Federal Radiological Emergency Response Plan (FRERP). Note: There are 17 signatories - one is the DOE.	FH Self Assessment
• Emergency response procedure RLEP 3.7 "Responding to Requests for Offsite Emergency Assistance" does not have a process for initiating a RAP response for a DOE-owned shipment without a request from a state or local agency.	T-3 Tabletop Exercise

ACTION ASSIGNED TO:

RL SES (Emergency Preparedness)

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Evaluate and implement improvements associated with Field Team Procedures

The following details must be addressed when closing this item:

Issue	Source
• Improve process for obtaining permission to administer KI to field teams.	NN-60
• RL/ORP should review and revise the process for collection and analysis of radiological data during and post event. (2g)	RL Fire Report
• Field Team data collection and analysis needs improvement	EOC Staff Feedback

ACTION ASSIGNED TO:

ESD

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Improve the process and procedures for personnel monitoring during and following emergency responses.

The following details must be addressed when closing this item:

Issue	Source
• Bioassay services were offered to all Hanford and Non-Hanford firefighters–follow-up required for all samples received.	RL Fire Follow Up Matrix

ACTION ASSIGNED TO:

ESD

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Improve the process and procedures for analysis of samples taken during emergency responses.

The following details must be addressed when closing this item:

Issue	Source
• Near Field Monitoring Program (NFMP) collected 238 air samples from 82 locations- updated results not received yet.	RL Fire Follow Up Matrix
• Evaluate results from EPA samples.	RL Fire Follow Up Matrix
• Monitoring of other Wildfire Sites to compare Pu levels to Hanford Samples. Have collected samples from Mule Dry Fire. (WA State DOH has also sampled the fire.) Samples are being analyzed.	RL Fire Follow Up Matrix
• The Yakama Nation has expressed concerns regarding possible Pu contamination of vegetation/foodstuffs	RL Fire Follow Up Matrix

ACTION ASSIGNED TO:

ESD

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Improve the process and procedures for collecting costs incurred during emergency responses.

The following details must be addressed when closing this item:

Issue	Source
• DOE HQ submitted $9.2 Million emergency budget request to OMB for consideration as supplemental funding proposal to Congress.	RL Fire Follow Up Matrix
• $5.3 million was committed in FY00 for fire suppression and recovery from RL's existing EM budget. $2.7 million of those funds were expended. There is a $2.6 million FY01 unfunded budget for Fluor biological control & PNNL environmental surveillance.	RL Fire Follow Up Matrix

ACTION ASSIGNED TO:

RL OSS

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Improve the procedures associated with recovery from declared emergencies.

The following details must be addressed when closing this item:

Issue	Source
• Procedures for recovery need to address "seamless" transition to normal operations	Recovery Team Feedback
• DOE/ORP should review and revise the recovery action process from emergency events to include scope beyond facility reentry. (2h)	RL Fire Report
• Procedures for recovery need to address closeout of recovery activities.	Recovery Team Feedback
• Need a single, accurate facility database for use by recovery team personnel	Recovery Team Feedback
• Plans and implementing documents for recovery should be in place before the event.	Recovery Team Feedback
• An identified team should be established and maintained for recovery from site emergencies	Recovery Team Feedback
• Procedures for recovery need to address continuation of data collection/analysis after recovery actions are complete	Recovery Team Feedback
• Procedures for recovery need to address document retention	Recovery Team Feedback

ACTION ASSIGNED TO:

RL SES (Emergency Preparedness)

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Revegetate the 200 West areas burned during the 24 Command fire.

The following details must be addressed when closing this item:

Issue	Source
• Reseed inside perimeter of 200 West extension fence, 25' wide by ~ 3.5 miles (~ 10 acres)	RL Fire Follow Up Matrix
• Apply soil fixative between fence and to perimeter of 200 West extension, 40' wide by ~ 3.5 miles (~17 acres) to control encroaching sand	RL Fire Follow Up Matrix
• Reseed interior with native grasses (~820 acres)	RL Fire Follow Up Matrix
• Plant 117,000 sagebrush tublings in irregular island pattern of interior 820 acres	RL Fire Follow Up Matrix
• Seed 150 acres of construction buffer zone immediately west of the facility with non-native grasses and shrubs crimp, mulch, and apply soil fixative	RL Fire Follow Up Matrix

ACTION ASSIGNED TO:

RL OSS

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Implement improvements to the self assessment process for emergency management programs.

The following details must be addressed when closing this item:

Issue	Source
• Need self assessment of FH overall EP program.	NN-60
• Conduct assessment of annual training effectiveness.	HQ Corrective Action Plan

ACTION ASSIGNED TO:

RL SES (Emergency Preparedness)

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Develop a Training Program Description for the Emergency Preparedness program

The following details must be addressed when closing this item:

Issue	Source
• Develop a Training Program Plan.	FH Self Assessment

ACTION ASSIGNED TO:

RL SES (Emergency Preparedness)

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

Upgrade or implement new modeling techniques in the UDAC.

The following details must be addressed when closing this item:

Issue	Source
• Improve UDAC modeling process.	Jupiter Exercise
• Improvements needed in UDAC use of HUDU code.	Jupiter Exercise
• Need to have computerized simulation capability (for other than radiological events) to be used for training	RL Senior Management Feedback
• Need fire modeling capability in UDAC	RL Senior Management Feedback
• Evaluate and document the risk from and potential consequences of wildland fires.	HQ Wildland Fire Review Report
• Evaluate the need for APGEMS code dose conversion factors and other assumptions.	DTS

ACTION ASSIGNED TO:

RL SES (Emergency Preparedness)

Appendix B: EP Improvement Program Input Form

ACTION REQUEST TITLE

This AR documents actions in the Emergency Preparedness Improvement Program for which the scope is unknown.

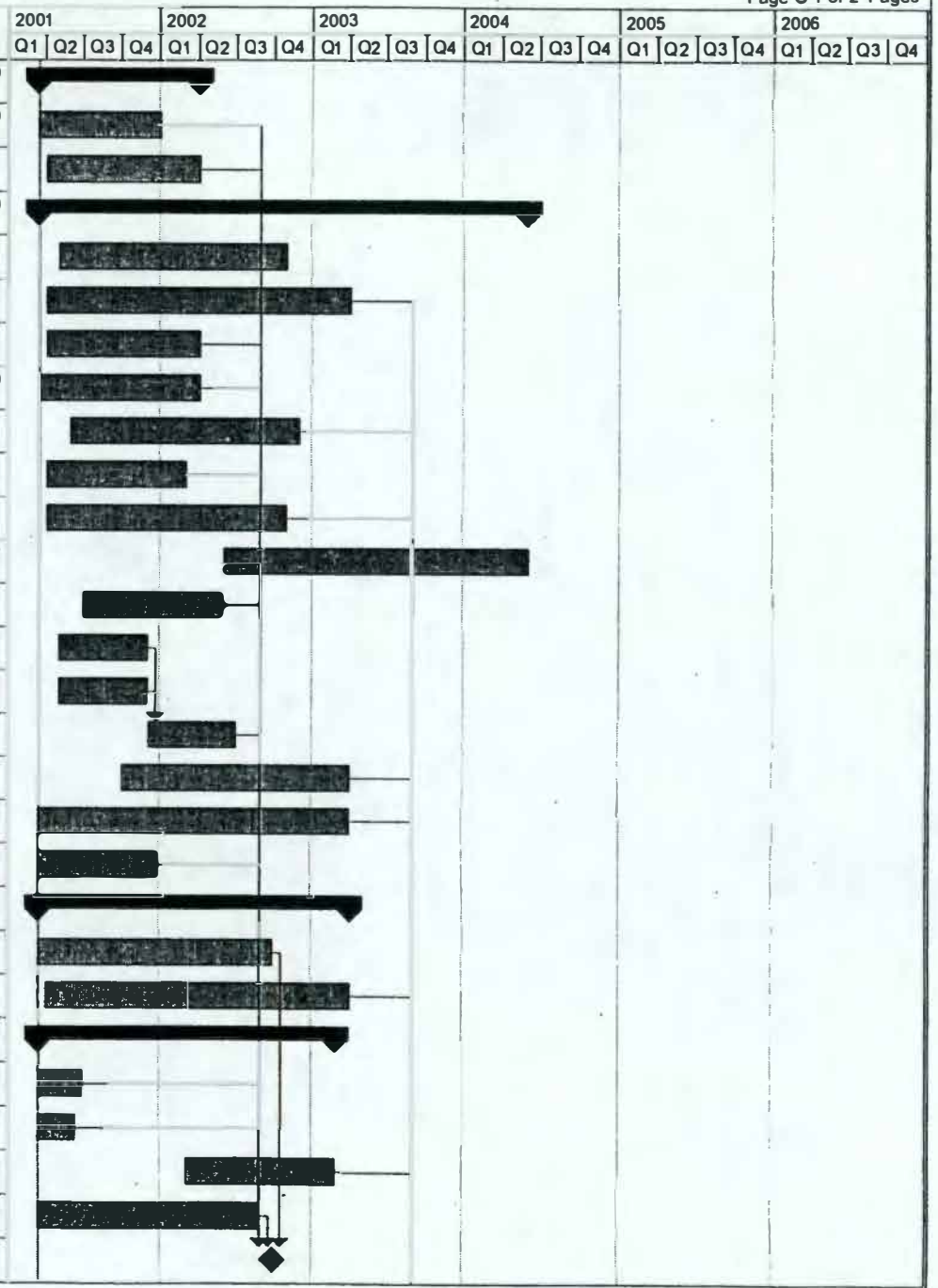
The following details must be addressed when closing this item:

Issue	Source
• DOE-HQ Year of the Fire Initiative: DOE HQ establish a national advisory committee to review adequacy of DOE fire safety programs.	RL Fire Follow Up Matrix
• Create an action plan to implement the Tri-County Fire Chiefs fire safety workshop recommendations.	Fish and Wildlife Report
• Implement a new revision to DOE O 151.1	In Development
• Implement directives from DOE Secretary on complex wide lessons learned from summer 2000 wild fires.	In Development
• Benton County Commissioners have sent a letter to Washington's Congressional Delegation requesting a review.	RL Fire Follow Up Matrix
• DOE-HQ Year of the Fire Initiative: Office of Emergency Operations/EH joint review of fire safety and emergency mgmt.	RL Fire Follow Up Matrix

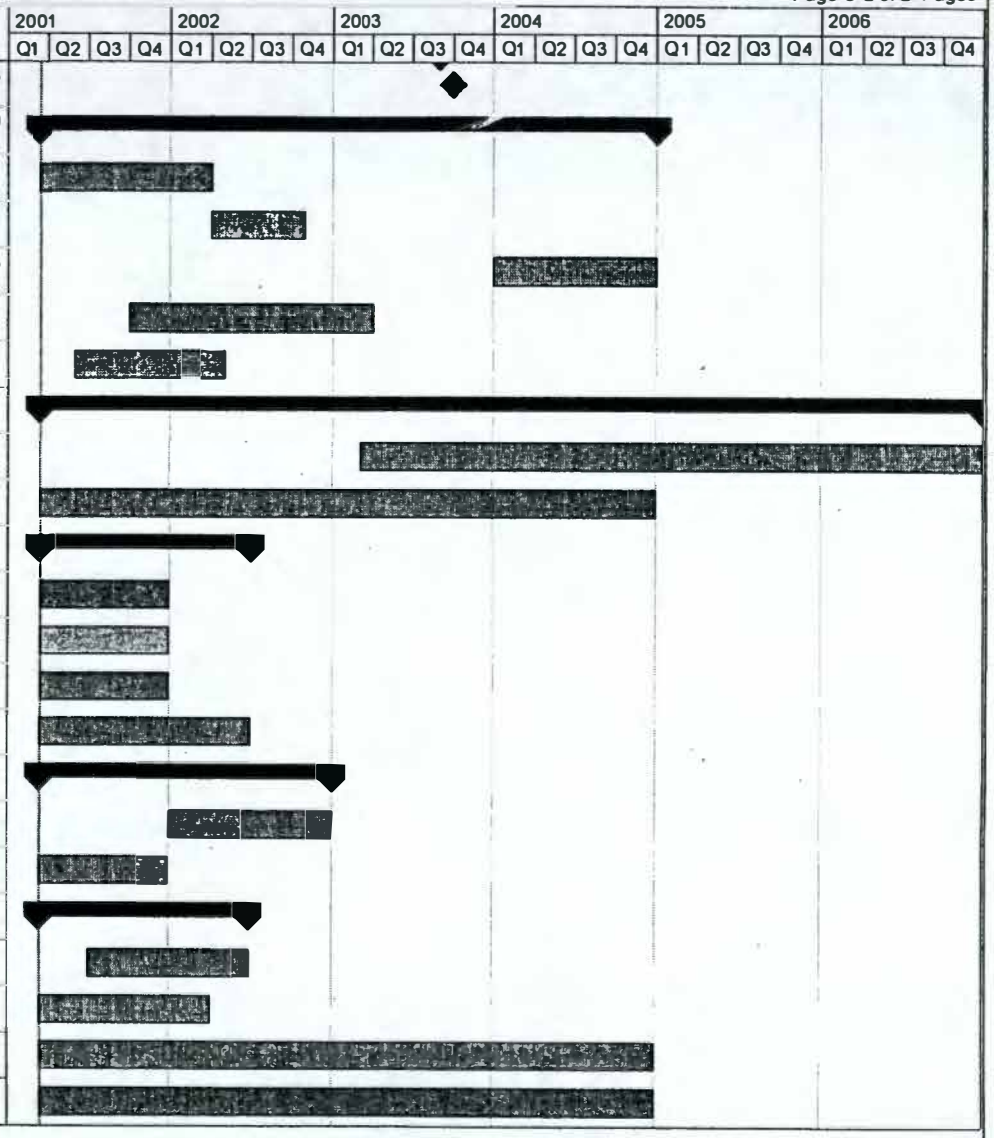
ACTION ASSIGNED TO:

RL SES

ID	Task Name	Start
1	**EOC Staffing**	**Thu 12/14/00**
2	EOC Security Staff Redesign	Thu 12/14/00
3	EOC Staffing	Tue 1/2/01
4	**Procedure/Plan Development**	**Thu 12/14/00**
5	EOC Records	Thu 2/1/01
6	EOC Procedures	Tue 1/2/01
7	Aviation coordination	Tue 1/2/01
8	Emergency Plan Updates	Thu 12/14/00
9	Recovery Procedures	Thu 3/1/01
10	EOC Communication Processes: Internal	Tue 1/2/01
11	EOC Communication Processes: External	Tue 1/2/01
12	EOC Procedures/Plans: Multiple Facility Impacts	Fri 3/1/02
13	EOC Procedures: EAL Upgrades	Mon 4/2/01
14	Essential Personnel	Thu 2/1/01
15	Facility evacuation	Thu 2/1/01
16	EOC Procedures: Protective Action Procedure Upgrades	Mon 9/3/01
17	Radiological Support: Federal Asset Deployment	Mon 7/2/01
18	Radiological Support: Field Team Procedures	Thu 12/14/00
19	Radiological Support: Personnel Monitoring	Thu 12/14/00
20	**External Agency Coordination**	**Thu 12/14/00**
21	Coordination with external fire response agencies: MOU's	Thu 12/14/00
22	Coordination with external fire response agencies: Procedures/Plans	Tue 1/2/01
23	**Training**	**Thu 12/14/00**
24	Training Program Upgrades	Thu 12/14/00
25	Coordination with external fire response agencies: Training	Thu 12/14/00
26	ERO Training	Tue 12/4/01
27	Conduct Training On Procedure/Plan Development Results	Thu 12/14/00
28	**Conduct Full Field Exercise For Validation**	Mon 7/1/02



ID	Task Name	Start
29	**Conduct Full Field Exercise For Validation**	Tue 7/1/03
30	**EOC Hardware/Software**	**Thu 12/14/00**
31	EOC Information System Upgrades: GIS Capability	Thu 12/14/00
32	EOC Information System Upgrades: Miscellaneous	Tue 1/1/02
33	EOC Information System Upgrades: Video/Still Picture Capabilities	Wed 10/1/03
34	EOC Physical Design	Mon 7/2/01
35	UDAC modeling improvements	Thu 3/1/01
36	**Communication Systems**	**Thu 12/14/00**
37	Communication System Upgrades: Crash Phone Replacement	Mon 12/2/02
38	Communication System Upgrades: Radio Equipment/Cell Phones	Thu 12/14/00
39	**Infrastructure Activity**	**Thu 12/14/00**
40	Firebreaks along roadways	Thu 12/14/00
41	Revegitate the 200 West areas affected by the fire.	Thu 12/14/00
42	Infrastructure Repairs	Thu 12/14/00
43	Radiological Support: Post Event Sample Analysis	Thu 12/14/00
44	**Funding**	**Thu 12/14/00**
45	HFD Needs Assessment	Mon 10/1/01
46	Recovery Funding	Thu 12/14/00
47	**Continuous Improvement Activities**	**Thu 12/14/00**
48	Corrective Action Management	Mon 4/2/01
49	Self Assessment	Thu 12/14/00
50	**New Work of Unknown Scope**	Thu 12/14/00
51	**Potential Legal Issues**	Thu 12/14/00



Office of River Protection Update

Presented to
Oregon Office of Energy
January 24, 2001

Bill Taylor
Acting Assistant Manager for Project Delivery
DOE Office of River Protection

Attachment 2

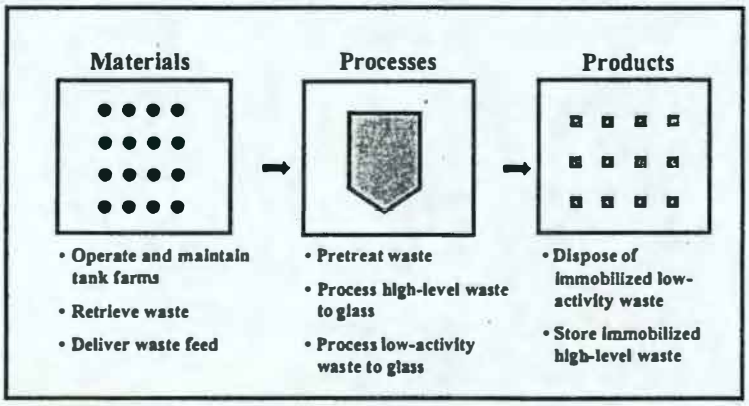
Topics

- Foundation for Success
- Contract Overview
  - What We Are Buying
  - How We Are Buying It
  - Fee Structure
- Comparison to TWRS Privatization
- Policy Issues and Areas of Concern
- What We Need

Foundation for Progress Success

- Competitively awarded a 10-year, $4B contract to Bechtel- Washington to complete design, construction, and startup of a facility to treat the first increment of tank waste
  - Cost reimbursable, incentivized fee (target cost) contract
- End Point is commissioned facility
- Exercise option on CH2M HILL Hanford Group contract for 5 years ($2.4B) based on excellent past performance
  - New incentives focus on acceleration and cost reduction for waste retrieval and disposal and optimization of the waste treatment complex
- Realigned and currently staffing DOE organization to focus on effective contract/project management and creating the conditions for project success

ORP Contractor Assignments



CH2M Hill Hanford Group (CHG)	Bechtel-Washington Future Operations Contractor	CH2M Hill Hanford Group (CHG)

What We are Buying

- DOE will procure a functioning waste treatment and immobilization plant (WTP). Bechtel Washington (BW) will:
  - Start with the BNFL design developed under TWRS Privatization
  - Complete design (including optimization studies)
  - Manage construction
  - Commission WTP (through completion of fully radioactive commissioning with Hanford tank waste – "Hot Commissioning")
  - Transition WTP to future operations contractor
- End point is commissioned facility ready for long-term operations that will be capable of:
  - Initiating waste treatment by 2007, and completing treatment and immobilization of 10% by mass (25% by activity) of Hanford tank waste inventory by 2018
  - Future expansion to allow completion of tank waste cleanup within 40 year design life of facility

How We are Buying it

- Cost plus incentive fee
  - Cost, schedule, operational performance incentives
- Fee is at risk for cost and schedule performance
- Target cost and schedule will not change unless DOE changes contract requirements

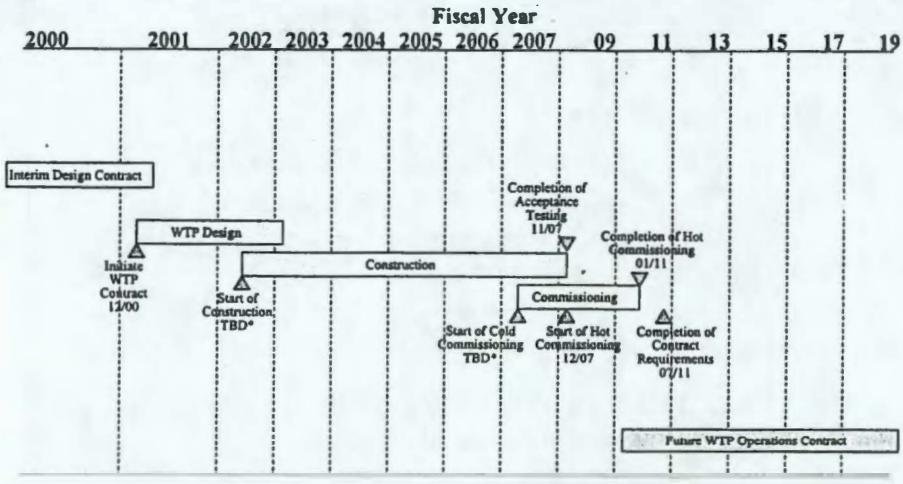
Copy of contract can be found at:

www.hanford.gov/orp/index/html - click on Hanford Waste Treatment & Immobilization Plant Contract

Fee Structure

- Total earned fee = cost performance fee
  ± schedule performance fee
  + operational performance fee
  - fee reduction
- Majority of fee is not earned until contract is complete
  - Contractor receives quarterly provisional fee payments based on cumulative cost and schedule performance
- At contract completion contractor is paid (or pays) difference between earned fee and sum of provisional fee payments
- If Hot Commissioning scope not successfully completed, contractor earns only minimum fee (2% of Target Cost)

WTP Contract – Summary Target Schedule

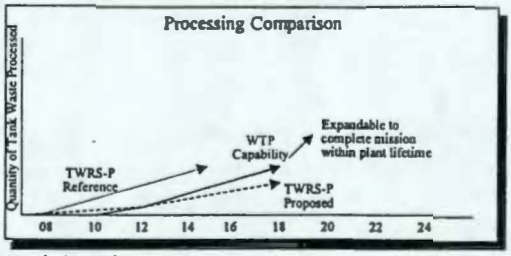


* TBD will be included in Contractor's April 2001 Project Baseline deliverable

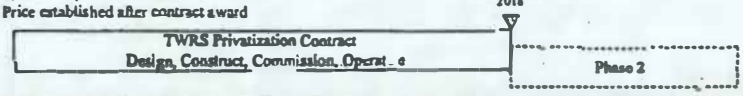
Comparison of WTP to TWRS Privatization – Differences

- New contract with processing schedule to be determined

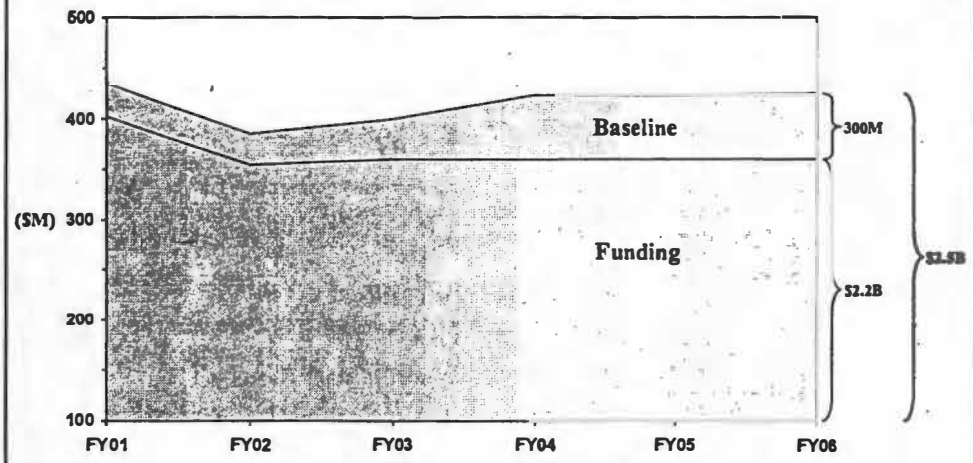
- Cost reimbursement with incentives for cost, schedule and operational performance
- Government financing
- Target cost established at Contract award



- Pay for product at fixed unit prices. No budget outlays prior to operation
- Private financing with debt repayment over ~9 year operations period
- Price established after contract award



CHG Performance Challenge



Standard fee:	**$44.2M**	**Total potential super stretch fee: $46.9M**
Stretch fee:	**$43.8M**	
Corporate performance:	**$18.1M**	
Total fee:	**$106.1M**	

What We Need –
Funding Estimate

River Protection Project Fiscal Year Funding Requirements

($ in millions)

	2001	2002	2003	2004	2005	2006
Tank Farm Operations[1]	376	376	376	376	376	376
Waste Treatment Plant	377	690	690	690	690	690
WTP Safety Regulation	6	4	4	4	8	6
Total	$759	$1,070	$1,070	$1,070	$1,074	$1,072

Total through 2048 estimate - $35B

- **Projected funding captured in prime contract commitments**

[1] Safeguards and Security funds have been removed

Policy Issues and Areas of Concern

- Tri-Party Agreement
  - Several pending legal actions by the State of Washington have disrupted the cooperative relationship that is vital for progress
  - Technical issues associated with pending legal actions have largely been resolved
  - State requires a higher level of federal accountability and commitment for tank waste cleanup (given past poor performance and risk to the river)
  - The State is driving for a consent decree for tank waste cleanup schedules – DOE is seeking other alternatives
- Sustained funding to meet contractual and legal obligations
  - DOE-HQ committed to $1.1 B/year to support contractual and legal commitments; Congressional support is required to maintain progress and keep commitments
- Additional ORP staff to provide needed core competencies and capabilities
  - Funding is required to hire the promised staff; inadequate federal staff compromises success on this tremendously challenging approximately $1 Billion per year effort
- Special consideration of management authority and budgetary flexibility
  - The size and complexity of the River Protection Project requires increased management authority and budgetary flexibility to allow effective project management

Conclusions

- ORP is in excellent position to succeed
- Innovative contracts reward superior cost and schedule performance
- Waste Treatment Plant design uses mature, proven technologies
- Opportunities for refinement/optimization of Waste Treatment Plant design encouraged in the contract by ORP
- Support for the project is crucial

Office of River Protection

Double-Shell Tank Capacity

Attachment 3

Double-Shell Tank Capacity

- Fiscal Year 2000 – ORP changed to a risk-based single-shell tank retrieval sequence
  - Higher volume tanks, fewer number of tanks pumpable due to storage limitations
- Previous TPA milestone required retrieval of~ 10 tanks by 2006
  - New milestone (M-45-00A) changed the number of retrieved tanks to three by 2006
  - Retrieval lessons learned will be the basis for future negotiations on retrieval schedules. TPA schedule currently calls for all single-shell tanks to be retrieved by 2018
- Operational Waste Volume projection report will determine need for new tanks

Conclusion: Use of a risk-based single-shell tank retrieval strategy makes the need for new double-shell tanks come earlier

Double-Shell Tank Capacity

Issue:

- Double-Shell tanks cost ~ $85M for each 1million gallon tank
- Current estimate for single-shell tank retrieval are $7M (saltwell pump), ~ $100M to retrieve each tank
  - Assumes approximately two single-shell tanks can occupy each new double-shell tank
- Four new double-shell tanks filled with single-shell waste costs ~ $800M
  - Cannot afford both new tanks and the schedule for the Waste Treatment Plant

Office of River Protection

TPA M-45-12 DST Space Options

01/01

EJ (Joe) Cruz
US Department of Energy
Office of River Protection

Office of River Protection

Milestone M-45-12

- **M-45-12-T01: SUBMIT AN OPTIONS REPORT DOCUMENTING DOE ASSESSMENT OF ACTIONS THAT COULD BE TAKEN TO INCREASE AVAILABLE TANK SPACE FOR SST WASTE RETRIEVAL (02/28/2002)**
  - THIS REPORT WILL EVALUATE AND DOCUMENT OPTIONS FOR ACQUIRING ADDITIONAL STORAGE SPACE FOR SST RETRIEVAL IN ADDITION TO THAT REQUIRED UNDER THIS M-45-00-01A CHANGE REQUEST. PRINCIPLE ACTIONS REQUIRED TO IMPLEMENT EACH OPTION WITHIN A REASONABLE TIME WILL BE IDENTIFIED. THE PRINCIPLE OPTIONS WILL HAVE DETAILED COST AND SCHEDULES FOR IMPLEMENTATION
- GOAL: Find way to provide DST space during WTP construction to allow SST retrieval without breaking the bank

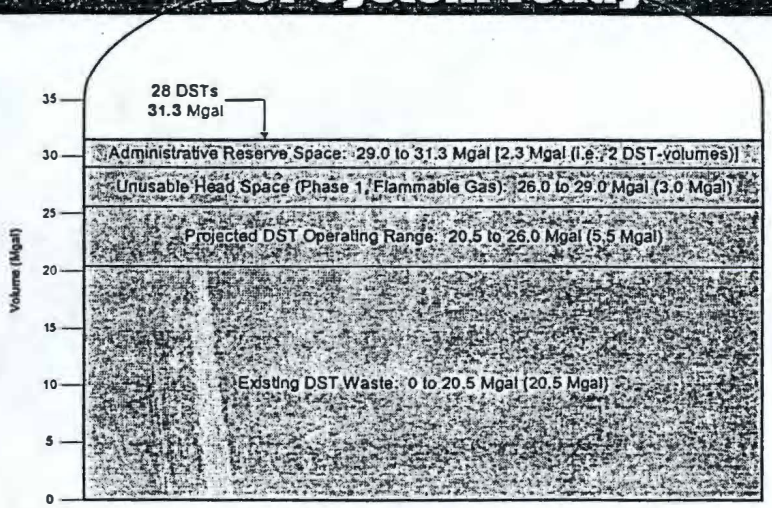
Approach

- Work with Ecology/CHG to define:
  - Content
  - Options to analyze
- Accelerate deliverable to help resolve the DST space issue from OWVP
- Use report as basis for DOE/CHG decision to/not to implement options
- Accelerate report to support potential changes re: WTP acquisition

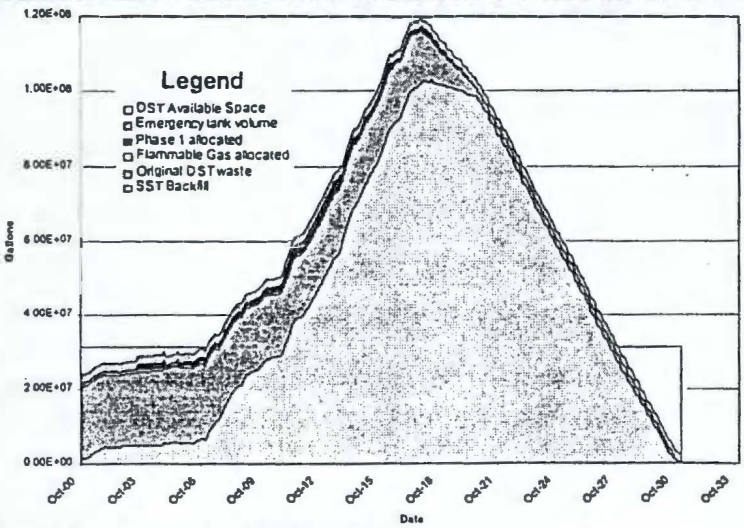
Approach

- Options grouped as "likely" and "less likely"
  - Increase concentration
  - Raise liquid levels
  - Consolidation (e.g., Phase I reserved tanks)
  - Alternative storage for DST reserves
  - Low-volume units to reduce influents
- Comparison to new DST construction costs
- Ecology participation in workshops

DST System Today



Example DST Space Utilization



Public Safety and Resource Protection Program

January 24, 2001

Dana C. Ward

Public Safety and Resource Protection Program

- Assess onsite and offsite environmental impacts of Site operations and determine compliance with environmental regulations
- Monitor the cultural and natural resources of the Hanford Site to evaluate impacts of Hanford operations and comply with applicable regulations.

Public Safety and Resource Protection Program: Projects

- Hanford Environmental Oversight
- Meteorological and Climatological Services
- Surface Environmental Surveillance
- Ecosystem Monitoring
- Ecological Compliance
- Cultural Resources

Surface Environmental Surveillance

- Determine compliance with legal and regulatory environmental quality requirements
- Determine background levels and Site contributions of contaminants in the environment
- Determine long-term accumulations of Site-origin contaminants in the environment and assess trends
- Promote communication among Hanford Site contractors in order to achieve consistency and defensibility in dose and risk assessments for Hanford operations
- Provide public assurance and address issues of public, stakeholder, and regulator concern.

General Design Considerations

- Media Selection
- Sampling Locations
- Sample Analyses
- Sampling and Analysis Frequency
- Detection and Precision
- Use of Data/Information

Media Selection

- Media of Direct Exposure
- Indicators of Environmental Quality
- Indicators of Accumulation in Environment
- Indicators of Loss of Control
- Media of Stakeholder/Tribal/Public Concern

Sample Locations

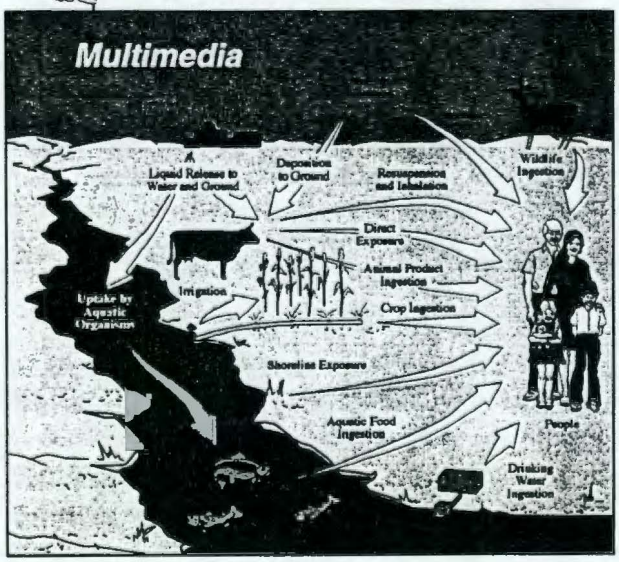
- Background/Reference
- Point of Entry Into Surface Environment
- Point of Potential Maximum Public Exposure
- Point of Maximum Population Exposure
- Locations of Potential Maximum Ecological Exposure
- Ecologically or Culturally Sensitive Locations

Sample Analysis

- Known Releases From Hanford Operations
- Known Contaminant in the Hanford Environs
- Identified in Pathway Analysis and/or Other Environmental Assessments
- Listed as Contaminant Of Concern
- Stakeholder/Tribal/Public Interest/Concern

Use of Data/Information

- ✧ **Compliance Determination**
- ✧ **Environmental Characterization**
- ✧ **Environmental Assessments**
  - – Human health
  - – Ecological
  - – Cultural
  - – Economic
- ✧ **Waste Management and Clean-up Decisions**
- ✧ **Environmental Assurance**
- ✧ **Long-Term Stewardship**



- ✧ **Air**
- ✧ **Water**
- ✧ **Soil**
- ✧ **Vegetation**
- ✧ **Farm Products**
- ✧ **Wildlife**
- ✧ **Fish**
- ✧ **External radiation**

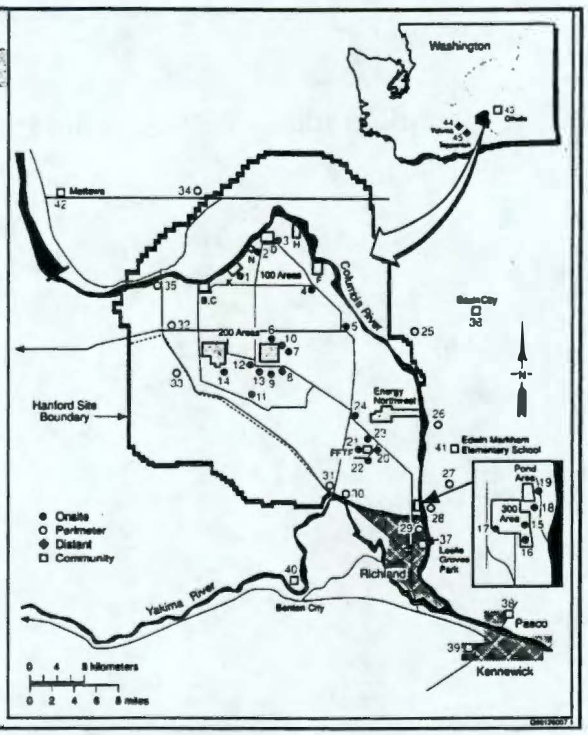
Multimedia – 1999 Sample Collections

Media	Number of Samples Collected	Number of Analytical Results Obtained	Number of Sample Locations
Air	1,507	3,849	44
Biota	294	2,141	17
Soil & Sediment	106	1,304	10
Surface Water	432	3,594	18
External Radiation	233	233	87
Totals	**2,572**	**11,121**	**176**

Air Surveillance – Sample types and Contaminants of Interest

- **Particulate filters are used at all locations**
  - Gross alpha/beta
  - Pu, Sr-90, U
  - Gamma scan
- **Charcoal cartridges are used at 4 locations**
  - I-129
- **Silica Gel assemblies are used at 20 locations**
  - Atmospheric water vapor for tritium

Air Sampling Locations



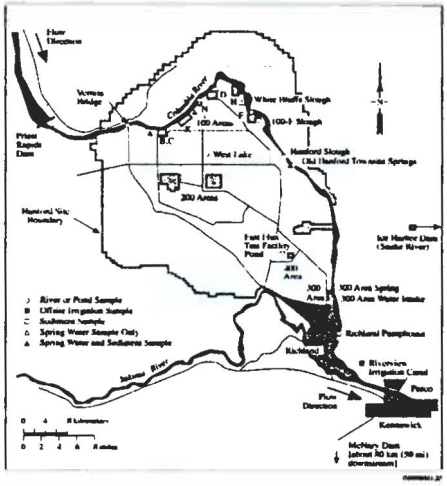
U.S. Department of Energy

Surface Water Monitoring Components

- ✧ Columbia River Water
- ✧ Riverbank Spring Water
- ✧ Irrigation Water
- ✧ Sediment
- ✧ Biota
- ✧ External Radiation

U.S. Department of Energy

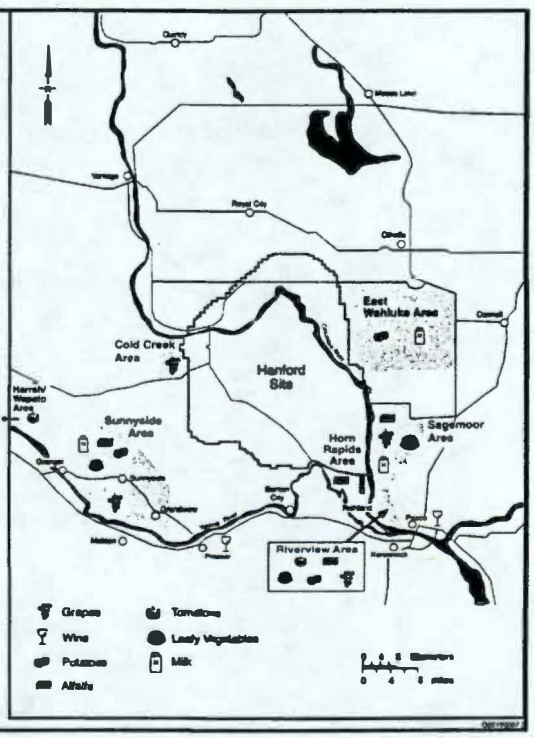
Water/Sediment Sampling Locations



Columbia River Monitoring – Contaminants of Interest

- Gross beta/gross alpha
- Selected gamma emitters
- Tritium
- Strontium – 90
- Technetium – 99
- Iodine – 129
- Uranium
- Plutonium
- Anions and metals
- Water quality (U.S.G.S.)

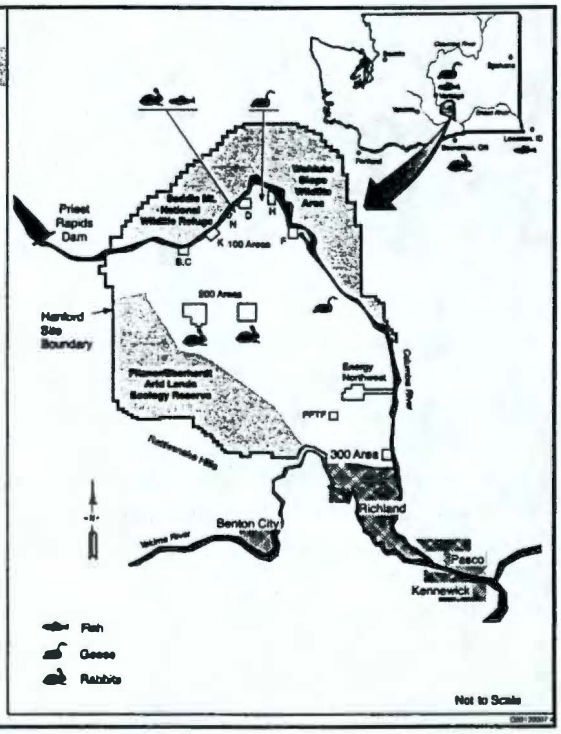
Food and Farm Product Monitoring



Food and Farm Product Sampling – Contaminants of Interest

- Nearly all food and farm product samples are analyzed for strontium-90 and gamma emitters
- Tritium concentrations are measured in milk and wine samples

Fish and Wildlife Surveillance



Fish and Wildlife Surveillance – Contaminants of Interest

- Generally, muscle and bone samples are collected
- Strontium-90 is monitored in bone because it is chemically similar to calcium and accumulates in hard tissues
- Cesium-137 is monitored in muscle tissue because it is chemically similar to potassium and accumulates in muscle tissue
- Gamma scans are also performed

Washington State Department of Health Responds to Hanford Wildfire

On June 27, 2000 an automobile accident started a large wildfire that swept through portions of the Hanford nuclear site. The fast growing fire burned 192,000 acres of sagebrush and grasslands. About half of an 86,000-acre area on the Hanford site that contained some surface contamination was burned. The Hanford nuclear site is managed by the U.S. Department of Energy.

The Washington State Department of Health (DOH) responded on many levels to determine if there were any dangers to public health. Field teams were dispatched the afternoon the fire began. DOH worked with the U.S. Department of Energy and contractor field teams monitoring air, soil and vegetation for radioactive materials that might require immediate protective actions for fire fighters and nearby residents. DOH, along with federal, state and local agencies, staffed emergency operation centers and Department chemists analyzed samples needed for making decisions to protect people in surrounding communities. Sampling data showed that the emergency workers and the public were not in danger from radionuclides transported in the fire. Plutonium was measurable for a single 24-hour period during the fire, and was not detected in the samples collected on the following day. The peak value was 100 times below the air quality standard. To understand the sensitivity of this measurement, the levels recorded for this one day would have to have been 100 times higher for every day of the year to be above the EPA standard for safe air quality. The minimum concentration which could be detected varied with sample size, but was approximately 0.00002 pCi/m^3.

Plutonium in Air

Plutonium is a dangerous chemical, one that evokes fear. While the Department's evaluation concludes that these low levels of plutonium found in air during the fire did not present a health impact, it is concerned with understanding how the plutonium was transported in the air and in verifying that the public would not be put at risk in the future.

The exact reason for the elevated levels of plutonium is unknown. Three possibilities are:

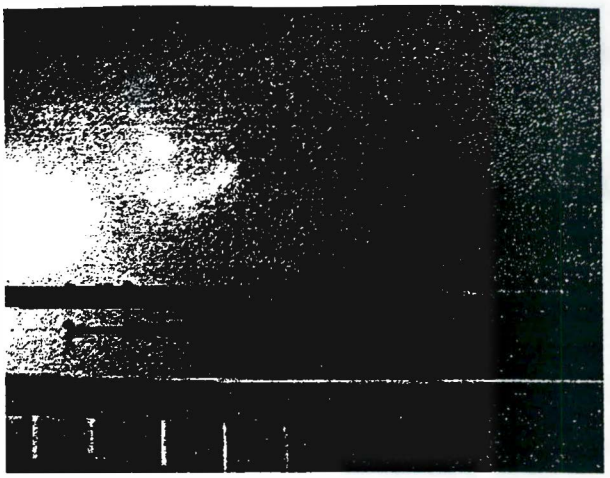
- Fierce winds from the fire blew contaminated soils offsite
- Ash of burned, contaminated vegetation was carried in the smoke
- One or both of the above sources mixed with current levels of plutonium in the earth's atmosphere.

DOH is evaluating available data and doing additional studies to better understand how elevated plutonium may have been transported in this fire. No plutonium was detected in air samples collected over the three months after the fire at any of the locations surrounding the Hanford site.

Evaluation and Follow-up Studies

DOH continues to evaluate the potential for off-site transport. The wildfire scorched thousands of acres, destroying grasses and sagebrush that covered the soil. Before the fire, these plants helped prevent contaminated soil from being resuspended by wind and carried off the site.

A new joint study is underway with the Pacific Northwest National Laboratory and DOH to compare the Hanford tests with levels of radioactivity in air around other wildfires.

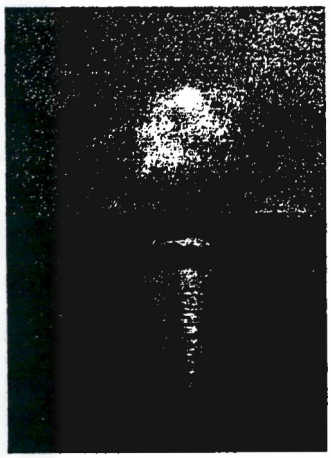


Environmental Sampling

During and after the fire, DOH, Hanford contractors, and the U.S. Environmental Protection Agency collected and analyzed hundreds of air, soil and vegetation samples from on and off the Hanford site. Monitoring results collected by all organizations were reviewed by DOH and these measurements did not show any levels above health standards. The results can be viewed on the Web site locations listed below. The most sensitive measurements were the EPA air particulate sampling at communities around the Hanford site. Levels of plutonium above normal, but not exceeding health standards, were observed for one day at six locations. A summary of these results is shown in the table below.

Details of EPA Air Sampling

Date	Location	Result (pCi/m³)	Comment
	Richland		
7/1/00	4 locations	0.00021	*Not included was one Richland location*
7/2/00	4 locations	Not detected	*which was less than detectable on both days.*
	Pasco		
7/1/00	1 location	0.00042	*Not included was Pasco Airport*
7/2/00	1 location	Not detected	*which was less than detectable on both days.*
	Sunnyside		
7/1/00	1 location	Not detected	
7/2/00	1 location	0.000061	
7/3/00	1 location	Not detected	
	Surrounding area	Less than 0.00000014	*Year 2000 pre-fire average of air samples from communities surrounding Hanford.*
	Clean Air Act level	0.0033	*EPA annual average concentration limit.*
	Emergency level	0.43	*Emergency workers' annual limit.*



Photos: Nancy Wilding

For More Information

The Washington State Department of Health, the U.S. Department of Energy and the U.S. Environmental Protection Agency maintain Web sites with information on the Hanford fire. Sites are updated as new analyses or special studies are reported.

DOH: www.doh.wa.gov/ehp/rp/wildfire.html

DOE: www.hanford.gov/hanfordfire.html

EPA: www.epa.gov/r10earth/ (follow links to Air and to Hanford)

Washington State Department of Health
Division of Radiation Protection
PO Box 47827, Olympia WA 98504-7827
Phone: 360-236-3250 • Email: env.rad@doh.wa.gov

RL-F-1325.6 (02/96)

Attachment 7

United States Government

Department of Energy

memorandum

Richland Operations Office

DATE: APR 19 2000

REPLY TO ATTN OF: FFTF:RAA/00-FFTF-026

SUBJECT: FISCAL YEAR (FY) 2002 FIELD WORK PROPOSAL (FWP) - FAST FLUX TEST FACILITY (FFTF) COMPLEX

TO: William D. Magwood, Director
Office of Nuclear Energy,
Science and Technology
NE-1, HQ

Enclosed for your information is the FY2002 FWP for the FFTF Complex. The official FWP will be provided to John M. Stamos, Associate Director, Office of Management Planning and Analysis, Office of Nuclear Energy, Science and Technology, from Robert R. Tibbatts, Director of Budget Division, Richland Operations Office.

To allow planning flexibility, the FWP includes two possible budget scenarios; (1) Nuclear Science and Irradiation Services Mission, and (2) Resume Transition to Shutdown.

If you have any questions, please call me on (509) 376-8089, or call Rod Almquist on (509) 376-2171.

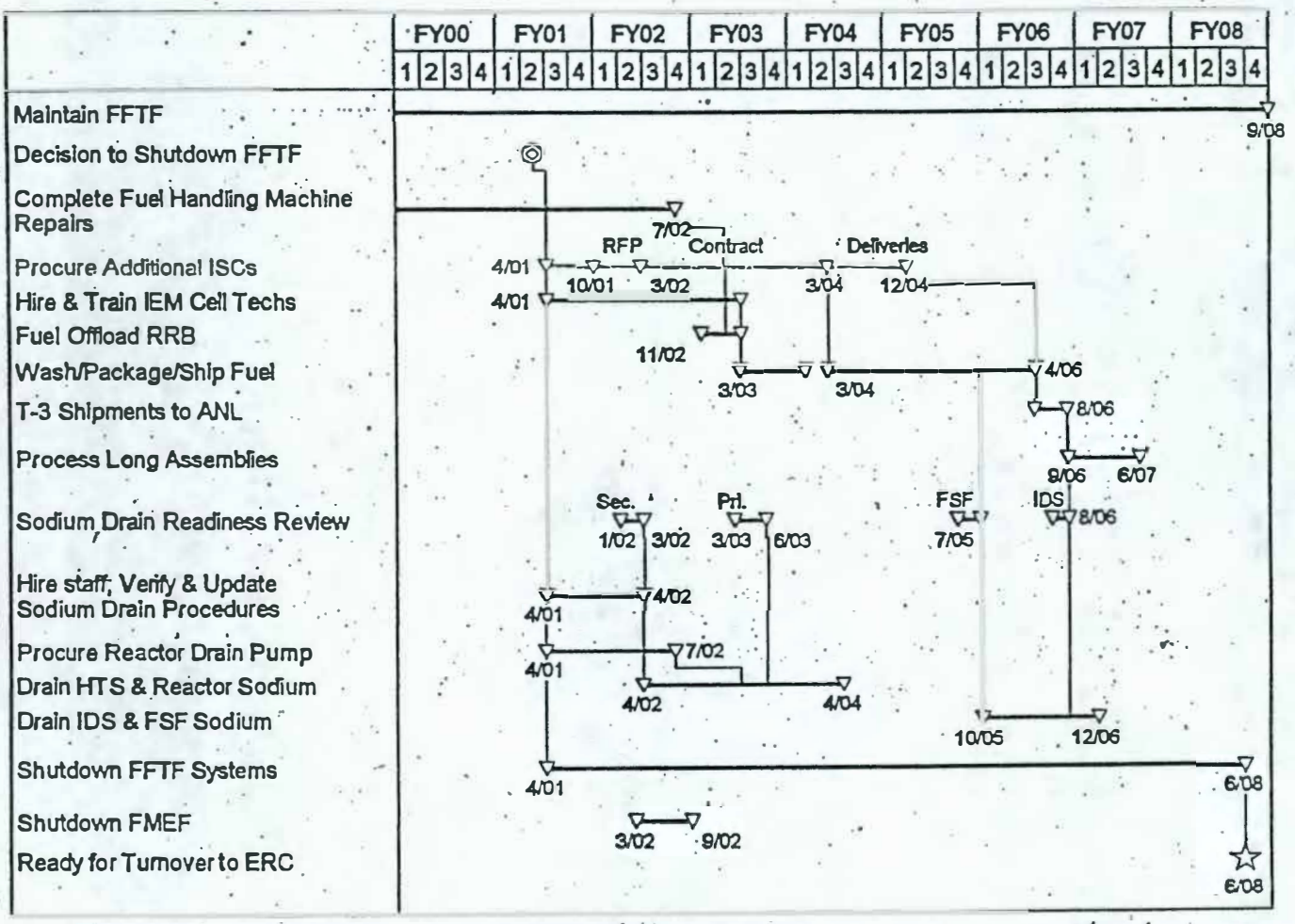
O. A. Farabee, Acting Director
Fast Flux Test Facility Project Office

Enclosure

cc w/encl:
J. E. Newson, EM-43
S. L. Harlow, NE-10
D. L. Sharp, NE-10
D. R. Funk, NE-40
R. S. Johnson, NE-40
R. G. Lange, NE-40

CONTRACTOR NAME:	WORK PROPOSAL #:	REV. NO:	ATTACHMENT:	PAGE:
Fluor Hanford, Inc	NEF2205	0	P	2

FFTF RESUMES TRANSITION TO SHUTDOWN:



Attachment to 2002 FWP dated April 19th, 2000. Given to Oregon on 1/24/2001 as a basis of future discussion. Scenario was only valid at the time it was submitted.

J Starbo

Richland Operations Office
FY 2001 EM Budget Update

Bob Tibbatts, Director

Budget Division

January 24, 2001

Attachment 8

FY 2001 EM Budget Update

	EM Request	Congressional Appropriations
Complex-Wide	$6,318M	$6,276M *
RL's Share of Total	$726M	$702M**
RL's Percentage of EM Request	11%	11%

* Excludes rescission.

** Does not include RL's share of National Programs (e.g., Safeguards & Security, Science & Technology, and Program Direction). Includes Congressional and complex-wide reductions, and rescission.

FY 2001 EM Budget Update

EM-HQ Allocation Decisions:

	RL Allocation
◆ Congressional Changes to DOE Request	
* Site/Project Completion	+19M
* Post 2006	+10M
♦ Congressional/Complex-Wide Requirements	(8.7M)
♦ Rescission	(1.6M)
♦ SNF Payback of Loans to AL & ORP	(5.0M)

FY 2001 EM Budget Update

($ in Millions)

Project	Congressional Request	RL Allocation
Site Project Completion		
Facility Stabilization	158	148
Spent Nuclear Fuel	191	188
Post 2006		
Environmental Restoration	142	151
Waste management	111	97
Other projects	124	118
Total RL*	**$726**	**$702**

* Does not include RL's share of National Programs

PROPOSED MEETING DATES AND LOCATIONS:

Tri-Cities Workshop

Date:	**Tuesday, March 6, 2001**
Red Lion Hotel (Hanford House)	
802 George Washington Way	
Richland, Washington	
Main Conference Room:	Columbia Room
Break-out Rooms:	1) Benton/Franklin
	2) Kennewick/Pasco/Richland
	3) Ice Harbor/McNary
Meeting Time:	10:00 a.m. – 6:00 p.m.
Access:	7:30 a.m.

Tri-Cities Public Meeting

Date:	**Thursday, March 8, 2001**
Red Lion Hotel (Hanford House)	
802 George Washington Way	
Richland, Washington	
Main Conference Room:	Columbia Room
Meeting Time:	7:00 p.m.
Access:	5:00 p.m.

Portland Public Meeting

Date:	**Tuesday, March 13, 2001**
Portland State Office Building	
800 N.E. Oregon	
Portland, OR	
Conference Room:	120C
Meeting Time:	7:00 p.m.
Access:	3:30 p.m.

Seattle Public Meeting

Date:	**Thursday, March 15, 2001**
Seattle Center	
305 SW Harrison	
Seattle, Washington	
Conference Room:	Snoqualime Room
Meeting Time:	7:00 p.m.
Access:	5:00 p.m.

2003 BUDGET WORKSHOP
Red Lion – Hanford House
Columbia Room

March 6, 2001

10:00 p.m. – 6:00 p.m.

DRAFT AGENDA

(01-17-01)

10:00 – 10:05	Welcome		Facilitator
10:05 – 10:35	DOE Office of River Protection Overview		
10:35 – 11:10	DOE Richland Operations Office Overview		
11:10 – 11:20	Environmental Protection Agency Comments		
11:20 – 11:30	WA. State Dept. of Ecology Comments		
11:30 - 12:30	Lunch		
12:30 – 1:45	**Breakout Session I**		
	- Ice Harbor/McNary	ORP	
	- Benton/Franklin	Central Plateau	
	- Kennewick/Pasco/Richland	River Corridor	
1:45 – 2:00	Break		
2:00 – 3:15	**Breakout Session II**		
	- Ice Harbor/McNary	ORP	
	- Benton/Franklin	Central Plateau	
	- Kennewick/Pasco/Richland	River Corridor	
3:15 – 3:30	Break		
3:30 – 4:45	**Breakout Session III**		
	- Ice Harbor/McNary	ORP	
	- Benton/Franklin	Central Plateau	
	- Kennewick/Pasco/Richland	River Corridor	
5:00 - 6:00	Wrap-up Discussion		

2003 BUDGET PUBLIC MEETING
Richland, Washington

Red Lion – Hanford House
COLUMBIA ROOM

March 8, 2001
7:00 p.m. - 9:00 p.m.

DRAFT AGENDA
(01-17-01)

7:00 – 7:05	Welcome by ?	TBD
7:05 - 7:20	DOE Office of River Protection Overview	TBD
7:20 – 7:35	DOE Richland Operations Office Overview	TBD
7:35 - 7:40	Environmental Protection Agency Overview	TBD
7:40 - 7:45	Washington State Department of Ecology Overview	TBD
7:45 - 7:50	Local Perspective	TBD
7:50 - 9:00	Questions& Answers Public Comments	DOE/EPA/Ecology

2003 BUDGET PUBLIC MEETING
Portland, Oregon

Oregon State Office Building
CONFERENCE ROOM 120C

March 13, 2001
7:00 p.m. - 9:00 p.m.

DARFT AGENDA
(01-17-01)

7:00 – 7:05	Welcome by the State of Oregon	TBD
7:05 - 7:20	DOE Office of River Protection Overview	TBD
7:20 – 7:35	DOE Richland Operations Office Overview	TBD
7:35 - 7:40	Environmental Protection Agency Overview	TBD
7:40 - 7:45	Washington State Department of Ecology Overview	TBD
7:45 - 7:50	Local Perspective	TBD
7:50 - 9:00	Questions& Answers Public Comments	DOE/EPA/Ecology

2003 BUDGET PUBLIC MEETING
Seattle, Washington

Seattle Center
SNOQUALIME ROOM

March 15, 2001
7:00 p.m. - 9:00 p.m.

DARFT AGENDA
(01-17-01)

7:00 – 7:05	Welcome by ?	TBD
7:05 - 7:20	DOE Office of River Protection Overview	TBD
7:20 – 7:35	DOE Richland Operations Office Overview	TBD
7:35 - 7:40	Environmental Protection Agency Overview	TBD
7:40 - 7:45	Washington State Department of Ecology Overview	TBD
7:45 - 7:50	Local Perspective	TBD
7:50 - 9:00	Questions& Answers Public Comments	DOE/EPA/Ecology

Long-term Stewardship Defined

"Stewardship Coin"

Long-term Stewardship Activity on Increase

1942 - Manhattan Project
Stewardship of Site Begins

1989 - End of Cold War

1994 - "DOE: Stewards of a National Resource" published

1997 - "Moving from Cleanup to Stewardship" published

1/98 - "Managing Data for Long-term Stewardship"
11/98 - STGWG Report
12/98 - WM - PEIS Settlement
1/99 - First Meeting of EM Long-term Stewardship Working Group
4/99 - Notice of Intent on PEIS Study
6/99 - First Scoping Meeting on PEIS Study
8/99 - Grand Junction Conference on Long-term Stewardship
NDAA Requires LTS Report
10/99 - Scoping Meeting at Oak Ridge on PEIS Study
2/00 - Guidance on NDAA Data Call
3/00 - Hanford NDAA Data Submission
4/00 - 1st Draft of PEIS Study Issued for Internal Comment
5/00 - NDAA Report 1st Draft Issued for Internal Comment
6/00 - PEIS Concurrence Draft Issued
10/00 - Public Comment on PEIS Requested

1/01 - NDAA Report Issued

Attachment 11

U.S. DOE/STATE OF OREGON OPEN ACTION ITEMS

January 24, 2001

Action: D. Henry to be provided Tri-Party Agreement executive managers training by December 4, 2000. (R. Morrison) **COMPLETE**

Action: Provide a copy of the DOE letter to Oregon State Senator Ted Frerrioli, for the Oregon Hanford Waste Board. (F. Miera) **COMPLETE**

Action: Check on status of FOIA response to the Oregon request. (F. Miera) **OPEN**

Action: A DOE representative is needed for the Oregon Hanford Waste Board meeting to be held in March. The subject is details of the Price Anderson Act. (Miera/D. Henry) **COMPLETE**

Action: Explore the possibility of developing Hanford Site issue newsletter suitable for broad public distribution (suggested to be approximately 2 pages and to be issued quarterly). (S. Sautter) **OPEN**

Action: The Public Involvement committee of the Oregon Hanford Waste Board has requested a performance measures presentation to include discussion of how the Oregon Hanford Waste Board evaluations are utilized in performance evaluations and ongoing public involvement. (G. McClure) **To be completed after next Oregon Hanford Waste Board**

Action: M. Blazek requested a copy of a $180,000 California Study on the needs for FFTF related isotopes. (A. Farabee) **CLOSED**