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Final

Meeting Minutes Transmittal/Approval
Unit Manager's Meeting: 100 Aggregate Area/100 Area Operable Units
2440 Stevens Center, Room 1200, Richland, Washington
February 16, 1995

FROM/APPROVAL: Nancy Weidel Date 3/16/95
Nancy Weidel, 100 Area Unit Manager, RL (H4-83)

APPROVAL: [Signature] Date 3/16/95
Phil Staats, 100 Aggregate Area Unit Manager, WA Department of Ecology

APPROVAL: [Signature] Date 3-16-95
Dennis Faulk, 100 Aggregate Area Unit Manager, EPA (B5-01)

Meeting Minutes are attached. Minutes are comprised of the following:

- Attachment #1 - Meeting Summary
 - Attachment #2 - Attendance Record
 - Attachment #3 - Agenda
 - Attachment #4 - Action Item Status List
 - Attachment #5 - February Unit Manager's Meeting 100 Area Status Package
 - Attachment #6 - 100 NPL Agreement Control Form 80
 - Attachment #7 - 100 NPL Agreement Control Form 81
-

Prepared by: Amoret Bunn Date: 3/21/95
~~Avi Tayar GSSC (B1-42)~~
Amoret Bunn

Concurrence by: [Signature] Date: 3/16/95
Greg Eidam, BHI 100 Area Manager (H4-91)



**Attachment #1
Meeting and Summary of Commitments and Agreements**

**Unit Manager's Meeting: 100 Aggregate Area/100 Area Operable Units
February 16, 1995**

1. **SIGNING OF THE JANUARY 100 AREA UNIT MANAGER'S MEETING MINUTES** - The minutes for January were reviewed and approved with changes.
2. **ACTION ITEM UPDATE:** (See Attachment 4 for complete status, items listed below indicate the update to Action Items made during the meeting):

1AAMS.15 Closed.
1AAMS.21 Still being pursued.

3. **NEW ACTION ITEMS:**

1AAMS.22 Determine strategy (course of action) regarding interim actions for the 100 Area groundwater operable units, and how to get to a Record of Decision. Action: Mike Thompson. This strategy will be provided at the March 8 meeting with the regulators.

4. **100 AREA ACTIVITIES:**

100 Area Status

- Operable Unit Status: Alan Krug provided the status packages (see Attachment #5) for general information on the 100 Areas Operable Units. He also provided copies of the 100 NPL Agreement/Change Control Forms 80 and 81 (see Attachments #6 and #7). Any additional information is provided below.
- Change Request Package: RL is preparing a change request package for changing milestones on the focused feasibility studies and proposed plans for 100 BC, F, K, D, and H Areas, subject to finalization of the focused feasibility study for 100-BC-1, 100-HR-1, and 100-DR-1 high priority sites. This change request will not address groundwater.
- Treatability Test Briefing: 118-B-1 Treatability Test & Soil Washing Treatability Test briefing for all Unit Managers is scheduled for March 8. It will be followed with information regarding costs for the groundwater operable units and the groundwater modeling used in the focused feasibility studies. Mike Thompson will provide the agenda for this meeting.
- Groundwater Operable Units: RL will develop ^{for their internal use,} a strategy (course of action) for the 100 Area groundwater operable units that will discuss the course of action from the focused feasibility studies through the final record of decision. Dick Biggerstaff discussed that groundwater monitoring is now semi-annual with reduced analyte list which is specific for each

*EPA and Ecology concurred on the change to
semi-annual sampling of the groundwater.*

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operable unit. ^A Dennis Faulk requested a copy of the data collected during the spring semi-annual groundwater monitoring in the 100 Area.

5. INFORMATION ITEMS:

- 100 D Area - Ted Wooley mentioned that comments on the 100-DR-2 LFI/QRA report will be finalized by the end of next week.
- 100 BC Area - Dennis Faulk and Ted Wooley requested that RL set a meeting on the status of SAFER. Roberta Day reported that the yellow soils found during the demolition of 190-B Building were confirmed not to be contaminated with chromium-VI. The soil discoloration is thought to be a result of exposure to sulfuric acid.
- 100-BC-5 Operable Unit - Dennis Faulk stated that EPA still supports the No Action alternative in the 100-BC-5 focused feasibility study and proposed plan. However, he wants an evaluation of alternatives for the treatment of strontium included in the documents.
- 100 F Area - Dennis Faulk requested a meeting on the status of the TCE plume in the 100 F Area. Mike Thompson and Dick Biggerstaff will schedule a meeting to discuss additional characterization of the plume.
- 100 H Area - Dave Holland stated that Ecology has initiated review of the 100-HR-2 LFI and that Ecology will submit comments.
- 100 HR-3 Pump & Treat - Mike Thompson stated that the pump & treat system will not be operational until the ambient air temperature exceeds 35°F
- 100-IU-1, 100-IU-4 and 100-IU-5 Operable Units - A meeting was scheduled for 10:00 am February 23, 1995 to discuss the strategy for the Records of Decision on these ERAs and North Slope. Attendees to include Pam Innis, Gary Freedman, Dennis Faulk, Phil Staats, and Glenn Goldberg.

6. NEXT MEETINGS: The next meetings are scheduled for:

April 19, 1995
May 18, 1995
June 22, 1995

July 20, 1995
August 23, 1995
September 21, 1995

100 Aggregate Area Unit Manager's Meeting
 Official Attendance Record
 February 16, 1995

Please print clearly and use black ink

PRINTED NAME	ORGANIZATION	O.U. ROLE	MSIN	TELEPHONE
John Rayner	BHI	100 TPA	NA-79	372-9410
William E. Lum, II	USGS	EPA Support		206 593 6510
Dina Murphy	DOE	TPA Support	A5-15	373-9851
Jamie Zeisloff	DOE	TPA Support	A5-15	
Keith Holliday	Ecology	OU manager	B5-18	736-3036
Wayne Saper	Ecology	U.M.		736-3049
Diana Siekle	ERC	Support	H4-79	(509) 375-9422
Pamela Inais	EPA	U.M.	B5-01	376-4919
K. Michael Thompson	DOE-RL	UM	H4-83	373-0750
G.R. Eidson	ERC	UM		375-4650
JG WOOLARD	ERC	100-DR		372-9640
Rh Bueperstaff	"	100 BE-5, KR4 HR-3, Fr-3	H4-91	372-9572
Chuck Hedel	ERC	100 HR Area	H4-89	372-9637
Amor Bunn	SSC GSSC/ Darnest Moore	100 H+D	B1-42	946-3695
Stephanie Johansen	GSSC/ Darnest Moore	100 F, K, B/C	B1-42	946-3693
Jeff Bruggeman	DOE	UM	H4-83	376-7121
Alan D. Krug	BHI	100 K, F source	H4-91	372-9567
David Holland	Ecology	UM		736-3027
Ted Woddy	Ecology	UM		736-3012
Dennis Faulk	EPA	UM	B5-01	376-8631
Larry Gadbois	EPA	UM	B5-01	376-9884
Ann Taylor	DGM	BW Support	B1-42	946-3690
KAY KIMMEL	MACTEC/D&M	RL SUPPORT	B1-42	946-3692
RE Day	ERC Team	100-BC	H4-79	372-9650

Attachment #3
Agenda

Unit Manager's Meeting: 100 Aggregate Area/100 Area Operable Units
February 16, 1995

100 Area General Discussions

1:30 - 2:00, 100-DR - J. Woolard

- * Action Item Status
- * Update Status

2:00 - 2:15, 100-BC - B. Day

- * Action Item Status
- * Update Status
- * 100-BC-5 - Groundwater Status - D. Biggerstaff

2:15 - 2:30, 100-KR - A. Krug

- * Action Item Status
- * Update Status
- * 100-KR-4 - Groundwater Status - D. Biggerstaff

2:30 - 2:45, 100-FR - A. Krug

- * Action Item Status
- * Update Status
- * 100-FR-3 - Groundwater Status - D. Biggerstaff

2:45 - 3:00, 100-HR - C. Hedel

- * Action Item Status
- * Update Status
- * 100-HR-3 - Groundwater Status - D. Biggerstaff

Attachment #4

Unit Manager's Meeting: 100 Aggregate Area/100 Area Operable Units
January 19, 1995

Action Item Status List

ITEM NO.	ACTION	STATUS
1AAMS.15	Provide response to April 2 EPA letter concerning river seeps. Action: Mike Thompson (RL) 07/27/94.	Closed.
1AAMS.21	Provide Ecology (Dave Holland, H Area manager) a copy of Revision 0 for 100-HR-1 LFI. Action: Dick Biggerstaff	Open 11/17/94.
1AAMS.22	Determine strategy (course of action) regarding interim actions at HR-3, FR-3 & KR-4, and how to get to a Record of Decision. Action: Mike Thompson. This strategy will be provided at the March 8 meeting with the regulators.	Open 02/16/95.

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Attachment #5

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STATUS PACKAGE

February Unit Managers Meeting

100-BC, 100-K, 100-D, 100-H and 100-F Areas

Treatability Studies

Soil Washing

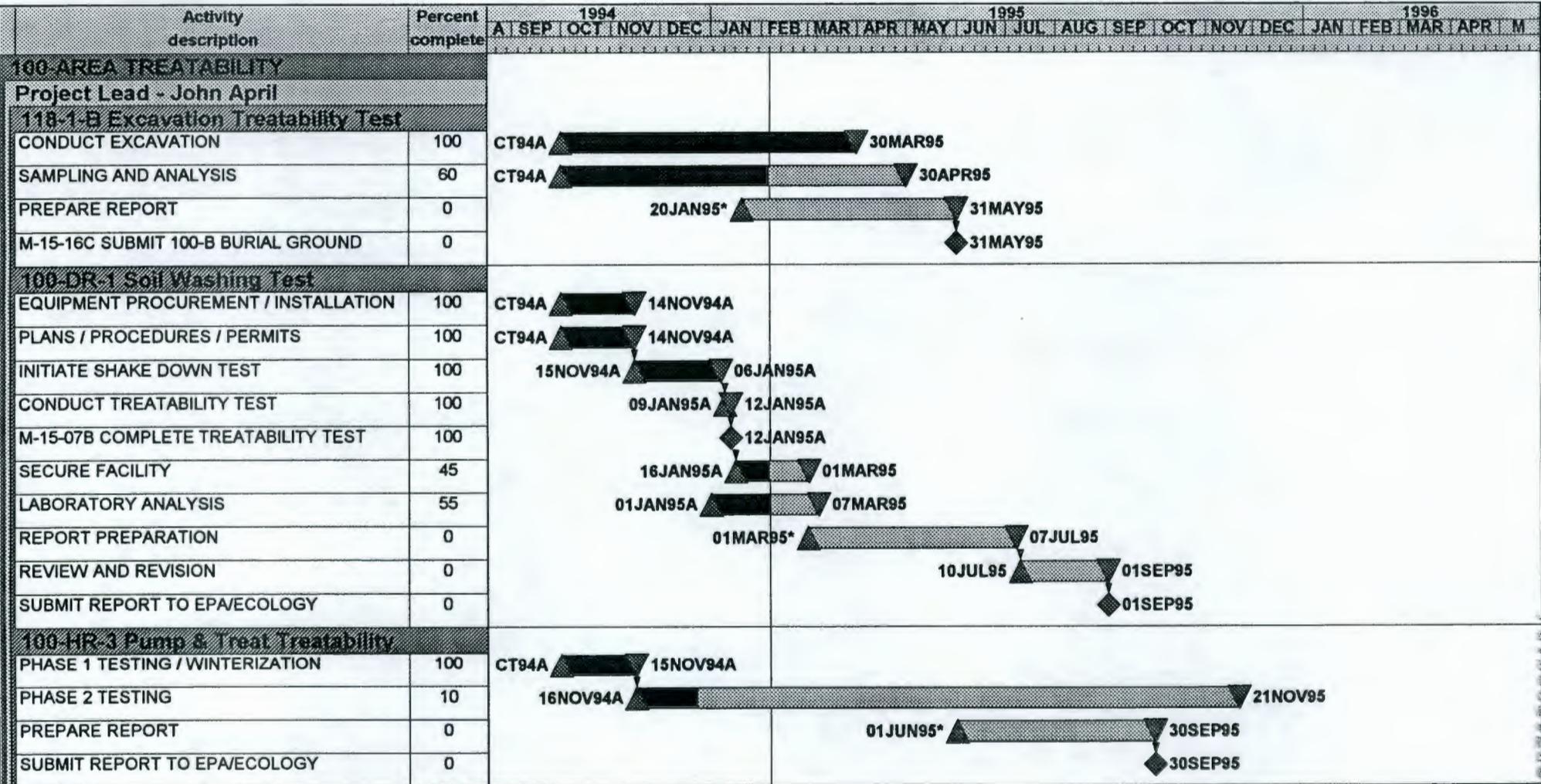
During this reporting period, the soil washing shakedown test was completed on Friday, January 6th. Shakedown testing consisted of acceptance testing of electrical and mechanical systems and introducing clean soils in the system. On January 9th, contaminated soils were excavated from the 116-D1-B trench and then introduced in the soil washing system. On January 12th, 100 tons of contaminated soils were treated resulting concentrating contaminants in 15 tons of fine soil particles. On-site and off-site laboratory analysis is ongoing. Results are scheduled to be received during the first week of March 1995.

118-B-1 Excavation Treatability Study

During this reporting period, Test Pit 3 was closed on January 6th. Waste materials mainly comprised of hard waste (about 10 percent) derived from reactor demolition activities. Excavation of Test Pit 4 was initiated on January 13. This excavation yielded no waste materials. Excavation in the north east corner yielded the same results. It was apparent that these trenches may have been excavated in the past. Historical records indicated that the western third of these trenches was excavated in 1957 for the purpose of retrieving buried materials. Excavation of Test Pit 4 continued by shifting excavation south of initial pit 4 excavation. This yielded wasted materials which had not previously been encountered. Specifically, these materials consisted of concentric pipes of steel, lead and graphite (possibly some type of instrumentation package for the reactor, 25 mrem/hour). This excavation region also yielded aluminum spacers, lead-cadmium neutron absorbers, and carbon steel reamers. Radiation levels ranged from 1 to 2 mrem/hour with exception of the above instrument package. Test Pit 5 was initiated on January 20 and completed first week of February. A historian visited the site on January 18. The purpose for this visit was to identify waste that was excavated. The historian indicated that combustible (or soft waste) was routinely incinerated. This could account for minor amounts of soft waste encountered to date.

100 HR-3 Pump & Treat

During this reporting period the Level C Safety Investigation was completed. The cause for the accident at the site was attributed to either trapped air from ice blockage in the effluent line or the system could have been inadvertently energized with air during the day the accident occurred. The latter was not substantiated and was in direct conflict with the testimony of the facility operators. To prepare for start-up of the system on February 13, 1995, winterization was installed, operating procedures and the Site Specific Health and Safety Plan were revised. Re-training and certification of the operators will commence on February 13. It was determined that blowing down the lines for winterization measures will not be used. Instead, seven day a week operation should address severe cold weather condition and will also aid in "catching up" on time lost during the shut down of the system. The system should be fully automated by the first week in March 1995.



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Project Start 01OCT94
 Project Finish 17DEC95
 Data Date 09FEB95
 Plot Date 10FEB95



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 FY 1995 Unit Managers Meeting
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BC Area

The 100-BC-1 Focused Feasibility Study (FFS) and Interim Remedial Action (IRM) Proposed Plan were submitted to EPA/Ecology for review on November 18, 1994, in support of TPA Milestone M-15-08D (November 30, 1994). Working group meetings were initiated in early December to address regulatory comments. The process was used rather than the standard formal comment and disposition process.

The 100-BC-2 FFS activities include waste site descriptions and definition of contaminant concentration. Volume estimates, alternative assessment, and cost estimates have been completed for all burial grounds. The remaining sites have been placed on hold pending comments and decisions made on the 100-BC-1 FFS, Process Document, and Sensitivity Analysis.

100-BC-1 Remedial Design Activities have been initiated and include the following tasks: development of a remedial design/remedial action strategy, definition of remediation goals (includes process definition and implementation), define a process in which to prioritize waste sites, and support to the flexible ROD. Specific design activities will be initiated upon agreement on the above RD/RA strategy.

D AREA

100-DR-1

- The FFS is currently being revised to incorporate Regulator comments and the current remedial action scenario. This document is scheduled to be finalized and issued to the regulatory agencies in February 1995 along with the Process Document, Sensitivity Analysis, 100-HR-1 FFS, and 100-BC-1 FFS. The IRM Proposed Plan is still undergoing Regulator review.

100-DR-2

- A focus sheet has been prepared to notify interested parties of the public review period for the 100-DR-2 Work Plan. The TPA target date of January 31, 1995 for submittal of the work plan to the regulatory agencies after public review and including an addendum with the substantive portion of both the LFI and QRA reports has been extended to May 1, 1995.
- The LFI/QRA report is undergoing concurrent review by RL and the Regulators.

100-D Ponds

- Sampling per the Description of Work was conducted in January, 1995. Sample results are expected in 45 days.

Activity description	Percent complete	1994				1995				1996											
		SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR
100-BC-1 OU																					
Project Lead - Roberta Day																					
Focused Feasibility Study																					
DOE REVIEW / COMMENT / BHI	100	CT94A	[Bar]			30NOV94A															
M-15-08D SUBMIT FFS REPORT TO	100				30NOV94A																
IRM Proposed Plan																					
DOE REVIEW / COMMENT / BHI	100	CT94A	[Bar]			30NOV94A															
SUBMIT IRM PROPOSED PLAN WITH FFS	100				30NOV94A																
100-BC-2 OU																					
Project Lead - Roberta Day																					
Focused Feasibility Study																					
CONDUCT FOCUSED FEASIBILITY STUDY	100	CT94A	[Bar]		15OCT94A																
PREPARE FOCUSED FEASIBILITY STUDY	60	16OCT94A	[Bar]			18DEC94															
BHI REVIEW AND INCORPORATION	0			18DEC94	[Bar]		19FEB95														
DOE REVIEW / BHI INCORPORATION	0				20FEB95	[Bar]				30JUN95											
M-15-16D SUBMIT FFS REPORT TO	0									30JUN95*											
IRM Proposed Plan																					
PREPARE IRM PROPOSED PLAN	0	16OCT94*	[Bar]		17DEC94																
BHI REVIEW AND INCORPORATION	0			18DEC94	[Bar]		19FEB95														
DOE REVIEW / BHI INCORPORATION	0				20FEB95	[Bar]				30JUN95											
M-15-16F SUBMIT IRM PROPOSED PLAN TO	0									30JUN95											

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1994				1995				1996												
SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	M

Project Start	01OCT94	[Bar]	Early Bar
Project Finish	17DEC95	[Bar]	Progress Bar
Date Date	00FEB95		
Plot Date	10FEB95		

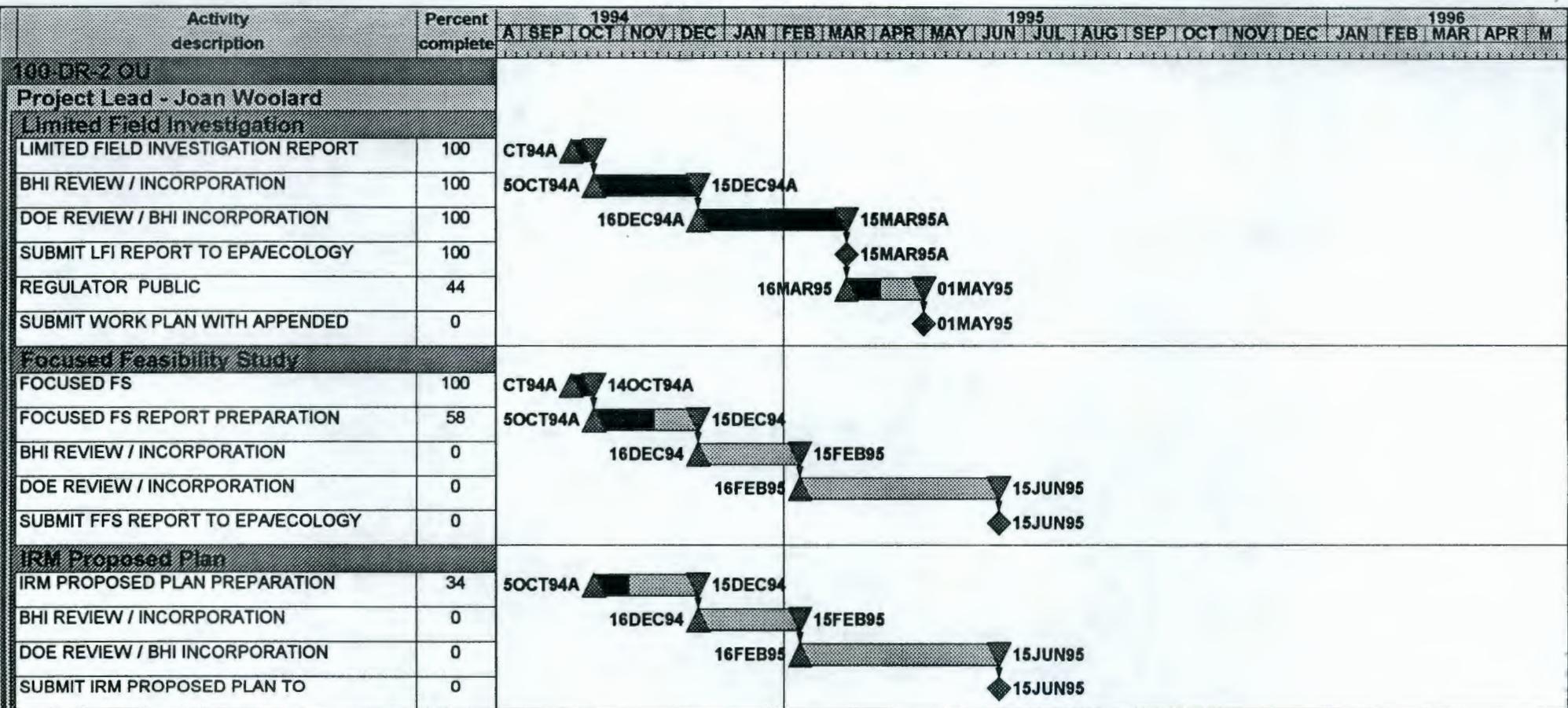


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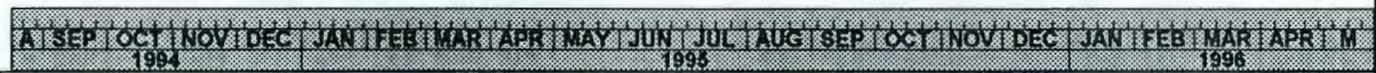
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January 1995

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Project Start: 01OCT94
 Project Finish: 17DEC96
 Data Date: 06FEB95
 Plot Date: 10FEB95

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H AREA

100 HR-1

- FFS REPORT and the IRM Proposed Plan: The content and format of 100 Area FFS reports and IRM PPs is continues to be developed by DOE using 100-HR-1, 100-BC-1, and 100-DR-1 OU documents as models. Much discussion with the regulators has revolved around the issue of assumed land use. These discussions have resulted in the preliminary development of the "Time Phased Land Use Scenario," which is currently being considered the Tri-Parties for possible use in 100 Area FFS reports and IRM PPs. Plans call for resolution of land use issues during February 1995, followed by revisions to the 100 Area Source FFS Report and its appendices (which, among other reports, includes the FFS report for 100-HR-1) to incorporate the new information.

100 HR-2

- LFI/QRA REPORT: The 100-HR-2 LFI/QRA Report (single document), DOE/RL-94-53, Draft A, remains in regulatory review. Comments are expected during February 1995.
- FOCUSED FEASIBILITY REPORT AND IRM PROPOSED PLAN: The 100-HR-2 FFS Report, DOE/RL-94-65, Draft A, and the 100-HR-2 IRM Proposed Plan, DOE/RL-94-135, Draft A, were submitted to the regulators on January 30, 1995, one day in advance of their respective TPA Milestones (M-15-18B and M-15-18C).

The content and format of 100 Area focused feasibility study reports and IRM proposed plans are currently being developed using 100-BC-1, 100-DR-1, and 100-HR-1 OU documents as models. Additionally, a strategy for future FFSs and PPS and Records of Decision is currently being developed by DOE for discussions and agreement with the regulators. The 100-HR-2 FFS report and PP will be revised to be compatible with the corresponding documents for 100-BC-1, 100-DR-1, and 100-HR-1 and with the strategy. At the time of submittal, DOE recommended that regulator review efforts be reserved for possible future updated versions of the 100-HR-2 FFS report and IRM PP that will reflect the new content and format that is under development at this time.

100 IU-4 and 5

- DOE approval of carryover funds is expected in February to allow ERC staff to resume completion of proposed plans for independent units IU-4 (Sodium Dichromate Barrel Disposal Landfill) and IU-5 (White Bluffs Pickling Acid Cribs).

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Activity description	Percent complete	1994				1995				1996											
		A	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
100 HR-2 OU																					
Project Lead Chuck Hedel																					
Focused Feasibility Study																					
DOE REVIEW / BHI INCORPORATION	100	CT94A										31JAN95A									
M-15-18B SUBMIT FFS REPORT TO	100											31JAN95A									
IRM Proposed Plan																					
DOE REVIEW / BHI INCORPORATION	100	CT94A										31JAN95A									
M-15-18C SUBMIT IRM PROPOSED PLAN TO	100											31JAN95A									

1994				1995				1996													
A	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	M

Project Start 01OCT94
 Project Finish 17DEC96
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UN95

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K AREA

- The 100-KR-1 Focused Feasibility Study was delivered to DOE on November 17, 1994, partially fulfilling the requirements of Milestone M-15-10C. Further work on this FFS has been halted, pending resolution of the 100-HR-1 FFS. If all issues relating to the FFS are not resolved by January 31, 1995, the ability to deliver the 100-KR-1 FFS by the April milestone date is in jeopardy.
- 100-KR-2 Planning - The 100-KR-2 Focus package is undergoing public review.
- 100-KR-1 IRM Proposed Plan - Work on the PP has been halted, pending ongoing discussions with DOE and the Regulators. This work stoppage will delay submittal of this PP from December, 1994 to a yet unspecified date. The PP was on an accelerated schedule which would have met the milestone 4 months early.

F AREA

- 100-FR-1 IRM Proposed Plan - Work on the PP has been halted, pending ongoing discussions with DOE and the Regulators. This work stoppage will delay submittal of this PP which was on an accelerated schedule which would have met the milestone 2 1/2 months early.
- 100-FR-1 FFS - The FFS has undergone ERC review and dispositions prepared, but not incorporated. Further work on the FFS has stopped, pending ongoing discussions with DOE and the Regulators. This work stoppage will delay the submittal of the FFS which was on an accelerated schedule which would have met the milestone 2 1/2 months early.
- 100-FR-1 LFI/QRA - Regulator comments on the 100-FR-1 LFI/QRA are three months past due. Work is on hold, pending receipt of comments.
- 100-FR-2 Work Plan - An DOE/Regulator site walkover for the 100-FR-2 Operable Unit was conducted on January 19, 1995. In subsequent meetings, it was agreed to follow the streamline process adopted for the 100-KR-2 Operable Unit. A Focus Package will substituted for the Work Plan and the results of the LFI/QRA will be incorporated into the FFS, rather than be reported in separate documents.

Activity description	Percent complete	1994				1995				1996											
		A	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR

100-KR-1 OU

Project Lead - Alan Krug

Focused Feasibility Study

FOCUSED FEASIBILITY STUDY REPORT	100
BHI REVIEW AND INCORPORATION	100
DOE REVIEW / BHI INCORPORATION	34
M-15-10C SUBMIT 100-KR-1 FFS & IRM	0



IRM Proposed Plan

PREPARE IRM PROPOSED PLAN	100
BHI REVIEW AND INCORPORATION	100
DOE REVIEW / BHI INCORPORATION	34



100-FR-1 OU

Project Lead - Alan Krug

Focused Feasibility Study

BHI PREPARE FFS REPORT	68
BHI REVIEW / INCORPORATION	0
DOE REVIEW / BHI INCORPORATION	0
M-15-13C SUBMIT FFS REPORT TO	0



IRM Proposed Plan

BHI PREPARE IRM PROPOSED PLAN	53
BHI REVIEW / INCORPORATION	0
DOE REVIEW / BHI INCORPORATION	0
M-15-13D SUBMIT IRM PROPOSED PLAN TO	0



A	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	M

Project Start	01OCT94		UM95
Project Finish	17DEC95		
Date Date	09FEB95		
Plot Date	10FEB95		



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Groundwater

100-BC-5, 100-FR-3, 100-HR-3, AND 100-KR-4

100-BC-5, HR-3 & KR-4

The Focused Feasibility studies and the IRM Proposed plans are on hold per the DOE and regulator request to enable these entities to focus on the source area FFSS and Proposed Plans. Regulatory comments are expected in February.

100-HR-3

Round 8 groundwater sampling activities at D reactor area (to coordinate with RCRA sampling) are in progress. The H reactor area sampling was completed in December.

100-KR-4

Round 7 groundwater sampling is complete and the samples are at the laboratory for analysis.

100-FR-3

A change request (M-15-94-10) has delayed the Focused Feasibility Study and the IRM Proposed Plan milestones until December 31, 1995 to allow completion of TCE characterization in the OU.

Soil gas equipment has been used during multiple trips to the field in an attempt to locate TCE upgradient of the OU. Low levels of TCE have been found but work to date has not been able to discern the source. Cold weather has shut down further efforts at this time (cannot obtain reliable data). A planning meeting has been held with the DOE to update them on the current status of the soil gas efforts with recommendations for future actions. A meeting with the regulators will be held as soon as plans are finalized.

100-BC-5, FR-3, HR-3 & KR-4

- Rebaselining efforts for all of the groundwater operable units have been underway in January. Presentations were made to ERC management and summary presentation packages were prepared for presentation to the regulators.
- A baseline change request was approved by ERC management documenting changes to the FY 1995 baseline as a result of the findings of a task team assembled to examine the groundwater monitoring program costs. A reduction of approximately \$1.2 M was identified in these four operable units.

Activity description	Percent complete	1994				1995				1996											
		SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR
100-BC-5 GROUNDWATER OU																					
Project Lead - Richard Biggerstaff																					
Focused Feasibility Study																					
DOE REVIEW / BHI INCORPORATION	100	CT94A 31OCT94A																			
M-15-09C SUBMIT FFS REPORT TO	100	◆ 31OCT94A																			
IRM Proposed Plan																					
DOE REVIEW / BHI INCORPORATION	100	CT94A 31OCT94A																			
M-15-09D SUBMIT IRM PROPOSED PLAN TO	100	◆ 31OCT94A																			
100-KR-4 GROUNDWATER OU																					
Project Lead - Richard Biggerstaff																					
Focused Feasibility Study																					
DOE REVIEW / BHI INCORPORATE	100	CT94A 31OCT94A																			
M-15-11C SUBMIT FFS REPORT TO EPA/ECHO	100	◆ 31OCT94A																			
DOE REVIEW / BHI INCORPORATION	100	CT94A 31OCT94A																			
M-15-11D SUBMIT IRM PROPOSED PLAN TO	100	◆ 31OCT94A																			
100-FR-3 GROUNDWATER OU																					
Project Lead - Richard Biggerstaff																					
Focused Feasibility Study																					
DOE REVIEW / BHI INCORPORATION	100	CT94A 14DEC94A																			
M-15-13G SUBMIT FFS REPORT TO	100	◆ 14DEC94A																			
IRM Proposed Plan																					
DOE REVIEW / BHI INCORPORATION	100	CT94A 14DEC94A																			
M-15-13H SUBMIT IRM PROPOSED PLAN TO	100	◆ 14DEC94A																			

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1994				1995				1996												
SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	M

Project Start 01OCT94
 Project Finish 17DEC96
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UMMS

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<p>Control Number: 80</p>	<p>100 NPL Agreement/Change Control Form</p> <p><input type="checkbox"/> Change <input checked="" type="checkbox"/> Agreement <input type="checkbox"/> Information</p> <p>Operable Unit(s): 100-FR-2</p>	<p>Date Submitted: 1/26/95</p> <p>Date Approved:</p>
<p>Document Number and Title: Approval of designation of facilities and waste sites for 100-FR-2 Operable Unit.</p>		<p>Date Document Last Issued: N/A</p>
<p>Originator: A. D. Krug</p>		<p>Phone: 372-9567</p>
<p>Summary Description: Designations of 100-FR-2 Operable Unit "facilities" and "waste sites," with proposed dispositions and investigation approaches, are presented for approval in Table 1 (attached).</p>		
<p>Justification and Impact of Change: To provide agreed upon initial definitions of waste sites and facilities for preparing the 100-FR-2 Operable Unit planning documentation necessary to meet TPA Milestone M-13-00I. No Impact.</p>		
<p>A. D. Krug BHI Task Leader <i>Alan D. Krug</i></p>		<p>Date <i>1/31/95</i></p>
<p>J. M. Bruggeman DOE Unit Manager <i>Jeff Bruggeman</i></p>		<p>Date <i>1/31/95</i></p>
<p>K. K. Holliday Ecology Unit Manager <i>Kathy K. Holliday</i></p>		<p>Date <i>2/2/95</i></p>
<p>K. J. Oates Env. Protection Agency Unit Manager <i>Kevin Oates</i></p>		<p>Date <i>2/9/95</i></p>
<p>Per Action Plan for Implementation of the Hanford Consent Order and Compliance Agreement Section 9.3.</p>		

Table 1. Waste Sites in the 100-FR-2 Operable Unit. (sheet 1 of 4)

Site designation (Alias)	Section ^a	Site Purpose	Site Description	Disposition	Investigation Approach
118-F-1 Burial Ground (100-F Primary Burial Ground)	5.1	1954-1965; Received misc. radioactive solid wastes, reactor components and hardware, and surface contaminated waste	600 ft (183 m) long; 500 ft (153 m) wide; 20 ft (6 m) deep Burial ground; contains 3 trenches and 1 pit; backfilled with 2-6 ft (0.6-2.0 m) of soil; surface routinely treated with herbicide.	Burial Ground ^{b)} IRM	Analogous to other burial grounds (118-B-1), historical (1976) sampling records exist for 118-B-1
118-F-2 Burial Ground (Solid Waste Burial Ground # 1)	5.2	1945-1965; Received misc. solid waste from 105-F Reactor and the biology facilities and liquid waste from 108-F (the main biology laboratory)	368 ft (112 m) long; 326 ft (99 m) wide; 20 ft (6 m) deep Burial Ground; 8 trenches contain misc. solid waste from the 105-F Reactor; one trench contains solid waste from the biology facilities; seven metal pipes 6 to 18 ft (2-6 m) long with wooden lids were used for disposal of animal carcasses and liquid waste; surface routinely treated with herbicide	Burial Ground IRM	Historical records for inventory
118-F-3 Burial Ground (Burial Ground # 3 or Minor Construction Burial Ground)	5.3	1952; Received irradiated reactor parts, primarily vertical safety rods and step plugs that were removed when 105-F Reactor converted from the liquid 3X to the ball 3X safety systems.	175 ft (53 m) by 50 ft (15 m) by 15 ft (5 m) deep Burial Ground; irregular shape; regularly sprayed with herbicide.	Burial Ground IRM	Analogous site information (118-H-3) and historical records for inventory
118-F-4 Burial Ground (115-F Pit)	5.4	1949; Received silica gel wastes from the 115-F building	10 ft (3 m) long; 10 ft (3 m) wide; 10 ft (3 m) deep Burial Ground; 4-5 ft (1.2-1.5 m) layer of waste covered by 5-6 ft (1.5-1.8 m) layer of backfill; regularly sprayed with herbicide	Burial Ground IRM	Historical records for inventory

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Table 1. Waste Sites in the 100-FR-2 Operable Unit. (sheet 2 of 4)

Site designation (Alias)	Section*	Site Purpose	Site Description	Disposition	Investigation Approach
118-F-5 PNL Sawdust Pit	5.5	1954-1975; Received radioactively contaminated sawdust from the floors of animal pens in the 100-F Experimental Animal Farm (EAF)	500 ft (153 m) long; 150 ft (46 m) wide; 15 ft (5 m) deep; sawdust from the EAF placed in paper boxes or 55 gallon (208 L) metal drums; solids at this site have been covered with a 7-8 ft (2.2-2.5 m) layer of soil; regularly sprayed with herbicide	Burial Ground IRM	Historical sampling (1979) and records for inventory
118-F-6 Burial Ground (PNL Solid Waste Burial Ground)	5.6	1965-1973; Received biological waste from animal research studies and contains 2 large rail tankcars for incineration of animal tissue and carcasses	400 ft (122 m) long; 200 ft (61 m) wide; 20 ft (6 m) deep; site was backfilled and an additional 2 to 3 ft (0.5-1.0 m) of soil placed on the burial ground for stabilizing; regularly sprayed with herbicide	Burial Ground IRM	Historical records for inventory
118-F-9 Burial Ground (PNL Rad Site)	5.7	Solid waste from EAF	100 ft (30 m) long; 15 ft (5 m) wide; 5-10 ft (1.5-3.0 m) deep; exact location is unknown	Burial Ground IRM	Historical records for inventory; soil gas survey
126-F-1 Powerhouse Ash Pit	5.9	1944-1963; Received coal ash from the 184-F Powerhouse; radioactively contaminated due to leakage from the reactor effluent lines	irregularly shaped depression with several small rises; partly bounded by permanent concrete monuments and surface contamination signs	High Priority IRM	Historical records for inventory; surface radiation survey (1993)

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Table 1. Waste Sites in the 100-FR-2 Operable Unit. (sheet 3 of 4)

Site designation (Alias)	Section*	Site Purpose	Site Description	Disposition	Investigation Approach
600-31 Dumping Site		Wastes identified are laboratory bottles and bottle caps: 1) Sulfuric 2) Mallinckrodt 3) Bakers 4) B & A, 5) Fisher. Markings and colors on the bottles and caps indicate they most likely contained laboratory chemicals.	50 ft (15 m) long; 10 ft (3 m) wide	Low Priority	Defer to final F-Area cleanup
120-F-1 Glass Dump	5.8	Used to dump fluorescent tubes; batteries; chemical bottles; incandescent light bulbs; and vacuum tubes	30 ft (9 m) long; 8 ft (2.5 m) wide; 4 ft (1.2 m) deep	Low priority	Defer to final F-Area cleanup
128-F-1 Burning Pit	5.10	1945-1965; Received nonradioactive, combustible materials such as paint waste, office waste, and chemical solvents	150 ft (46 m) long; 150 ft (46 m) wide; 10 ft (3 m) deep	Low priority	Analogous site information (128-H-1); Defer to final F-Area cleanup
128-F-3 PNL Burning Pit	5.11	Unknown	100 ft (30 m) long; 100 ft (30 m) wide	Low priority	Sampling at the site (1988); Defer to final F-area cleanup
1607-F1 Septic System	5.12	1944-1960; received sanitary sewage from badge house, fire station, and administrative offices	Septic tank and drain field	Low priority	Defer to final F-Area cleanup
100-F-14 Vent Pipe	5.13	Unknown	4 in (10 cm) steel vent extends 40 in (100 cm) above grade	Low Priority	Surface radiation survey; ^(c) GPR; soil gas survey

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Table 1. Waste Sites in the 100-FR-2 Operable Unit. (sheet 4 of 4)

Site designation (Alias)	Section ^a	Site Purpose	Site Description	Disposition	Investigation Approach
100-F-1 Depression in surface	5.14	Unknown	8 ft (2.5 m) long; 8 ft (2.5 m) wide; 3 ft (1 m) deep	Low Priority	GPR; soil gas survey; surface radiation survey
100-F-2 Strontium Garden	5.15	1952-present	150 ft (46 m) by 25 ft (7.6 m) by 10 ft (3 m) high screened garden plot	Low Priority	Surface radiation survey; Defer to final F-Area cleanup
PNL Parallel Pits		Exact date unknown, however, appears to have been active in 1962; disposal of radioactive and nonradioactive materials from the EAF	2 pits each one 75 ft (23 m) by 20 ft (6 m) by 8 ft (2.5 m)		Historical research (Interoffice Memo, D.H. Deford to J.A. Stegen, Feb. 3 1995); GPR; Surface Radiation Survey
Sources: Miller and Wahlen 1987; Dorian and Richards 1978; Interoffice Memorandum, D.H. Deford to J.A. Stegen, Investigation of 100-F Suspect Waste Site, PNL Parallel Pits, 009798, February 3, 1995.					

(a) Refers to the pertinent section in D.H. Deford, 1994, *100-F Area Technical Baseline Report*, BHI-00031, Bechtel Hanford, Inc., Richland, Washington.

(b) IRM: Interim Remedial Measure

(c) GPR: Ground Penetrating Radar

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Control Number: 81	100 NPL Agreement/Change Control Form ___ Change X Agreement ___ Information Operable Unit(s): 100-FR-2	Date Submitted: 1/26/95 Date Approved:
Document Number and Title: N/A	Date Document Last Issued: N/A	
Originator: A. D. Krug		Phone: 372-9567
<p>Summary Description:</p> <p>Milestone M-13-00I calls for the submittal of planning documentation necessary to complete the RI/FS process for the 100-FR-2 Operable Unit (OU). It does not, however, define what this planning documentation consists of. The 100-FR-2 Unit Managers have met and agreed that a traditional OU work plan would not be part of this documentation and such a work plan should not be prepared. The intent of the work plan will be met by preparing a focus document, which will have public review. The focus document will be approximately 15-20 pages in length and include:</p> <ul style="list-style-type: none"> • a description of the process to be followed to reach an interim action record of decision (ROD) for the 100-FR-2 OU. • a tabular description of the waste sites and facilities within the 100-FR-2 OU and a recommendation as to which sites should be considered for interim remedial measure (IRM) and for low priority status. • a schedule for the activities necessary for DOE to submit the IRM proposed plan to the regulators. 		
<p>Justification and Impact of Change:</p> <p>Provides a more precise description of the deliverable associated with the milestone. No impact.</p>		
A. D. Krug BHI Task Leader <i>Alan D. Krug</i>	Date <i>1/31/95</i>	
J. M. Bruggeman DOE Unit Manager <i>Jeff Bruggeman</i>	Date <i>1/31/95</i>	
K. K. Holliday Ecology Unit Manager <i>Keith K. Holliday</i>	Date <i>2/2/95</i>	
K. J. Oates Env. Protection Agency Unit Manager <i>Kevin Oates</i>	Date <i>2/9/95</i>	
Per Action Plan for Implementation of the Hanford Consent Order and Compliance Agreement Section 9.3.		

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