

0049703

Meeting Minutes Transmittal

324 REC/HLV
Project Managers' Meeting
Federal Building/Room 590-A
Richland, Washington

July 9, 1998
2:00 p.m. to 3:00 p.m.

The undersigned indicate by their signatures that these meetings minutes reflect the actual occurrences of the above dated Unit Managers Meeting.

David W. Templeton Date: 9-3-98
David W. Templeton, Project Manager, RL

Jeanne J. Wallace Date: 9/3/98
J. J. Wallace, Project Manager, Washington State Department of Ecology

324 REC/HLV Closure Plan, BWHC Concurrence

David E. Rasmussen Date: 9/03/98
D. E. Rasmussen, Contractor Representative, BWHC

Purpose: Discuss Permitting Process

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

- Attachment 1 - Agenda
- Attachment 2 - Summary of Discussion and Commitments/Agreements
- Attachment 3 - Attendance List
- Attachment 4 - Letters, Larry Romine (RL) to J. J. Wallace (Ecology), Transmittal of Project Tracking and Performance Evaluation Documentation for DOE/RL-96-73, 324 Radiochemical Engineering Cells, High-Level Vault, Low -Level Vault, and Associated Areas Closure Plan, Revision 1, dated June 23, 1998 and John D. Wagoner (RL) to J. J. Wallace, Transmittal of Scheduled for DOE/RL-96-73, 324 Radiochemical Engineering Cells, High-Level Vault, Low-Level Vault, and Associated Areas Closure Plan, Revision 1, June 5, 1998.



Attachment 1

324 REC/HLV
Project Managers' Meeting
Federal Building/Room 590-A
Richland, Washington

July 9, 1998
2:00 p.m. to 3:00 p.m.

Agenda

1. Introduction
2. Previous Meeting Minutes
3. 324 REC/HLV Closure Plan
 - a. Ecology review of closure plan
 - b. Closure plan schedule
 - c. Project management
4. B-Cell Cleanout Project Status
 - a. Recent progress/highlights
5. Action Item Review
6. Other Topics/Discussion
7. Schedule Next Meeting

Attachment 2

324 REC/HLV
Project Managers' Meeting
Federal Building/Room 590-A
Richland, Washington

July 9, 1998
2:00 p.m. to 3:00 p.m.

Summary of Discussion and Commitments/Agreements

1. Introductions
Johanna Berkey, Department of Health (DOH), was introduced.
2. Signing Previous Meeting Minutes
The May 7 and June 4, 1998 Project Manager Meeting (PMM) minutes were approved.
3. 324 REC/HLV Closure Plan
 - a. Ecology Review of Closure Plan
J. Wallace (Ecology) stated that she completed her review of the closure plan, and she is in the process of drafting a letter of approval. The letter will require the following actions to be completed prior to overall approval of the closure plan: finalize Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) applicable or relevant and appropriate requirements (ARARs) with Ecology approval, and develop a Hanford Federal Facility Agreement and Consent Order (Tri-party Agreement) change control form to extend the milestone for B-Cell cleanout. Following discussion of the development of the ARARs, it was agreed to schedule a meeting to discuss a path forward prior to Ecology issuing its approval letter.
 - b. Closure Plan Schedule
D. Langstaff (DOE-RL) reported that the closure plan schedule was submitted to Ecology shortly after the June 4, 1998 PMM.
 - c. Project Management
D. Rasmussen stated that DOE-RL transmitted two letters to Ecology dated June 5, 1998 and June 23, 1998, which provide tracking documentation to the closure plan (Attachment 4).
4. B-Cell Cleanout Project Status
 - a. Recent Progress/Highlights
J. Carlson (BWHC) reported that size reduction of the 1B rack is progressing. The upper lead-filled plugs are the only remaining parts, and will probably be contact-handled out through the air lock. Special boxes have been built to handle the plugs and one of the two tanks in the rack as mixed waste.

The first 1B dunnage grout container was shipped June 16, 1998, and the second one has been loaded into the cask. During cutting of the 1B rack, the plan was for the pieces to fall into the grout container; however, some pieces fell on the floor. The cut metal

will be picked up and rinsed and confirmed as mixed waste before it is placed in the grout containers.

Preparations are being made to pick up the dispersibles in approximately two weeks. The first dispersible picked up will be the footprint underneath the 1A and 1B rack, and it will be placed in engineered containers. J. Wallace inquired about the schedule delay. J. Carlson indicated that there has been some gain in the schedule. J. Wallace asked if there have been any occurrences. J. Carlson responded that there have been no occurrences related to the work completed. D. Rasmussen noted that there was an occurrence associated with a DOH visit relating to whether an exit survey was required of a clean area.

J. Berkey (DOH) inquired about the Notice of Construction (NOC) required for shipment of the B-Cell material to PUREX. R. Millikin (BWHC) responded that the NOC is being prepared, and that the first shipments won't be until 2000. J. Carlson noted that there has been an effort made with other on-site facilities to coordinate shipping of waste to PUREX.

5. Action Item Review

J. Wallace noted that she had requested a copy of the Facility Evaluation Board (FEB) report with the corrective actions during the June 4, 1998 PMM, and that she received a copy.

6. Other Topics/General Discussion

D. Rasmussen referred to a document that was attached to the June 4, 1998 PMM minutes regarding a robotics proposal, and he noted that the document has been revised. The revised document was attached to the June PMM minutes.

7. Schedule Next Meeting

The next PMM meeting was scheduled for August 6, 1998, at the Federal Building in Richland, Washington.

Activity Description	Start	Finish	99	00	01	02	03	04	05	06	07	08	09	10	11
DOE Submit Final Closure Plan	31MAR98*		DOE Submit Final Closure Plan												
324 Closure Plan Phase I (B-Cell Cleanout)	31MAR98	17SEP01	324 Closure Plan Phase I (B-Cell Cleanout)												
M89-05 Submit Special Case Waste Assessment		30JUN98*	M89-05 Submit Special Case Waste Assessment												
Ecology Approve M-89-00 Closure Plan Schedule	30JUN98*		Ecology Approve M-89-00 Closure Plan Schedule												
SCW Shipment to Storage Complete		14SEP00	SCW Shipment to Storage Complete												
B-Cell Excess Equipment Removal Complete		03NOV00	B-Cell Excess Equipment Removal Complete												
RL Appr Liner Surfaces - PE CERTIFICATION		13APR01	RL Appr Liner Surfaces - PE CERTIFICATION												
Approve Integrity Assessment Report		08AUG01	Approve Integrity Assessment Report												
Submittal of Closure Plan Certif-PE CERTIF		21AUG01	Submittal of Closure Plan Certif-PE CERTIF												
Complete Closure Activities for B Cell		14SEP01	Complete Closure Activities for B Cell												
324 Closure Plan Phase I Complete		17SEP01	324 Closure Plan Phase I Complete												
RL Approve Closure Report		20SEP01	RL Approve Closure Report												
Commence Closure Plan Activities for Phase II	02OCT00		Commence Closure Plan Activities for Phase II												
324 Closure Plan Phase II (REC Trench/LLV)	02OCT00	17FEB05	324 Closure Plan Phase II (REC Trench/LLV)												
Iso HLV/LLV/D-Cell HLV Equip Lines Complete		19JUN01	Iso HLV/LLV/D-Cell HLV Equip Lines Complete												
Approve Integrity Assessment Report		30NOV01*	Approve integrity Assessment Report												
RL Approve Closure Report		31DEC01*	RL Approve Closure Report												
Submittal of Closure Plan Certif-PE CERTIF		31DEC01*	Submittal of Closure Plan Certif-PE CERTIF												
Complete Closure Activities for Pipetrench		10JAN02*	Complete Closure Activities for Pipetrench												
PT Cell Liner Removal Vis Inspection-PE CERTIF		15FEB02	PT Cell Liner Removal Vis Inspection-PE CERTIF												
LLV Piping Removal Complete		12MAY04	LLV Piping Removal Complete												
LLV Tank Removal Complete		09SEP04	LLV Tank Removal Complete												
Final Decontamination LLV Complete		26OCT04	Final Decontamination LLV Complete												
Approve Integrity Assessment Report		15DEC04*	Approve Integrity Assessment Report												
RL Approve Closure Report		14JAN05*	RL Approve Closure Report												
Submittal of Closure Plan Certif-PE CERTIF		14JAN05*	Submittal of Closure Plan Certif-PE CERTIF												
Complete Closure Activities for LLV		17FEB05*	Complete Closure Activities for LLV												
324 Closure Plan Phase II Complete		17FEB05	324 Closure Plan Phase II Complete												
Commence Closure Plan Activities for Phase III	02OCT00		Commence Closure Plan Activities for Phase III												
324 Closure Plan Phase III (Associated Areas)	02OCT00	14MAR05	324 Closure Plan Phase III (Associated Areas)												
Vault Sample Box Closure Action Complete		05JUL01	Vault Sample Box Closure Action Complete												
Low Level Canyon HLV/LLV Lines Isolated		09APR02	Low Level Canyon HLV/LLV Lines Isolated												
Rm 146 HLV/LLV Lines Isolated in Sppt of Closure		15MAY02*	Rm 146 HLV/LLV Lines Isolated in Sppt of Closure												
REC Airlock HLV/LLV Lines Isolated		22JUL03	REC Airlock HLV/LLV Lines Isolated												
REC HLV/LLV Lines Isolation Complete		29AUG03*	REC HLV/LLV Lines Isolation Complete												
Rm 18 Closure Activities Complete		12MAY04	Rm 18 Closure Activities Complete												
REC Oper Gallery HLV/LLV Lines Isolation Comp		11JAN05	REC Oper Gallery HLV/LLV Lines Isolation Comp												
324 Closure Plan Phase III Complete		14MAR05	324 Closure Plan Phase III Complete												
REC Op Gallery HLV/LLV Lines Isolation Complete		29APR05*	REC Op Gallery HLV/LLV Lines Isolation Complete												
Commence Closure Plan Activities for Phase IV	01OCT01		Commence Closure Plan Activities for Phase IV												

Project Start 01OCT97  Baseline Activity Bar
 Project Finish 28SEP07  Progress Bar
 Data Date 01OCT97
 Run Date 03JUN98

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BAS1

Sheet 1 of 2

Closure Plan Phases

Ms. J. J. Wallace
98-TPD-099

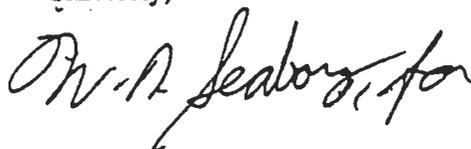
- 2 -

JUN 23 1998

Closure activities will be statused by tracking progress of the work packages at the Unit Project Manager meetings. Enclosure 5 is the budget required to support the Closure Plan activities and schedule.

If you have any questions, please call David C. Langstaff, of my staff, on (509) 376-5580.

Sincerely,



Larry Romine, Director
Transition Program Division

TPD:DCL

Enclosures

cc w/o encl:

Y. Anderson-Moore, Ecology
J. K. Bartz, Ecology
L. R. Hafer, FDH
A. M. Hopkins, FDH
L. J. Olguin, FDH
R. M. Millikin, BWHC
D. E. Rasmussen, BWHC
W.D. Adair, DESH

Activity Description	Start	Finish	
DOE Submit Final Closure Plan	31MAR98*		◇DOE Submit Final Closure Plan
Ecology Approve M-89-00 Closure Plan Schedule	30JUN98*		◇Ecology Approve M-89-00 Closure Plan Schedule
324 Closure Plan Phase I (B-Cell Cleanout)	31MAR98	17SEP01	△-----▽324 Closure Plan Phase I (B-Cell Cleanout)
M89-05 Submit Special Case Waste Assessment		30JUN98*	◇M89-05 Submit Special Case Waste Assessment
324 Closure Plan Phase I Complete		17SEP01	◇324 Closure Plan Phase I Complete
324 Closure Plan Phase II (REC Trench/LLV)	02OCT00	17FEB05	△-----▽324 Closure Plan Phase II (REC Trench/LLV)
324 Closure Plan Phase II Complete		17FEB05	◇324 Closure Plan Phase II Complete
324 Closure Plan Phase III (Associated Areas)	02OCT00	14MAR05	△-----▽324 Closure Plan Phase III (Associated Areas)
324 Closure Plan Phase III Complete		14MAR05	◇324 Closure Plan Phase III Complete
324 Closure Plan Phase IV (D-Cell/HLV)	01OCT01	17OCT05	△-----▽324 Closure Plan Phase IV (D-Cell/HLV)
324 Closure Plan Phase IV Complete		17OCT05	◇324 Closure Plan Phase IV Complete

Project Start 01OCT97
 Project Finish 28SEP07
 Data Date 01OCT97
 Run Date 03JUN98

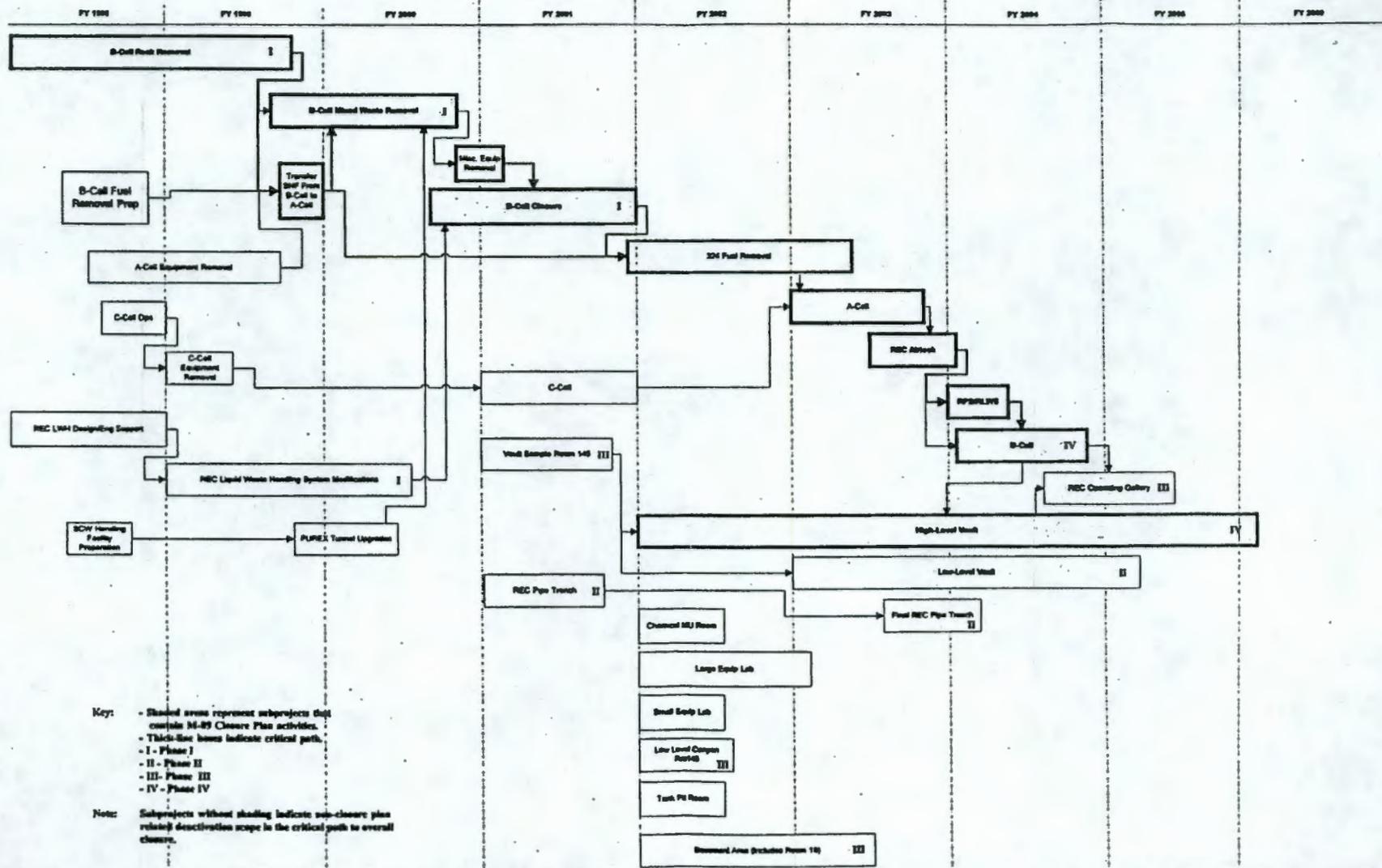
△-----▽ Baseline Activity Bar
 ◇ Project Closure Milestones

BAS1

REC/HLV/LLV & Associated Areas
 Closure Plan Schedule
 Appendix 7A

Sheet 1 of 1

324 Building Closure Plan



Activity Description	Start	Finish	99	00	01	02	03	04	05	06	07	08	09	10	11
DOE Submit Final Closure Plan	31MAR98*														
324 Closure Plan Phase I (B-Cell Cleanout)	31MAR98	17SEP01													
M89-05 Submit Special Case Waste Assessment		30JUN98*	◇												
Ecology Approve M-89-00 Closure Plan Schedule	30JUN98*		◇												
SCW Shipment to Storage Complete		14SEP00		◇											
B-Cell Excess Equipment Removal Complete		03NOV00		◇											
RL Appr Liner Surfaces - PE CERTIFICATION		13APR01		◇											
Approve Integrity Assessment Report		08AUG01		◇											
Submittal of Closure Plan Certif-PE CERTIF		21AUG01		◇											
Complete Closure Activities for B Cell		14SEP01		◇											
324 Closure Plan Phase I Complete		17SEP01		◇											
RL Approve Closure Report		20SEP01		◇											
Commence Closure Plan Activities for Phase II	02OCT00														
324 Closure Plan Phase II (REC Trench/LLV)	02OCT00	17FEB05													
iso HLV/LLV/D-Cell HLV Equip Lines Complete		19JUN01		◇											
Approve Integrity Assessment Report		30NOV01*		◇											
RL Approve Closure Report		31DEC01*		◇											
Submittal of Closure Plan Certif-PE CERTIF		31DEC01*		◇											
Complete Closure Activities for Pipetrench		10JAN02*		◇											
PT Cell Liner Removal Via Inspection-PE CERTIF		15FEB02		◇											
LLV Piping Removal Complete		12MAY04			◇										
LLV Tank Removal Complete		09SEP04			◇										
Final Decontamination LLV Complete		28OCT04			◇										
Approve Integrity Assessment Report		15DEC04*			◇										
RL Approve Closure Report		14JAN05*			◇										
Submittal of Closure Plan Certif-PE CERTIF		14JAN05*			◇										
Complete Closure Activities for LLV		17FEB05*			◇										
324 Closure Plan Phase II Complete		17FEB05			◇										
Commence Closure Plan Activities for Phase III	02OCT00														
324 Closure Plan Phase III (Associated Areas)	02OCT00	14MAR05													
Vault Sample Box Closure Action Complete		05JUL01		◇											
Low Level Canyon HLV/LLV Lines Isolated		09APR02		◇											
Rm 146 HLV/LLV Lines Isolated In Sppt of Closure		15MAY02*		◇											
REC Airlock HLV/LLV Lines Isolated		22JUL03		◇											
REC HLV/LLV Lines Isolation Complete		29AUG03*		◇											
Rm 18 Closure Activities Complete		12MAY04		◇											
REC Oper Gallery HLV/LLV Lines Isolation Comp		11JAN05		◇											
324 Closure Plan Phase III Complete		14MAR05		◇											
REC Op Gallery HLV/LLV Lines Isolation Complete		29APR05*		◇											
Commence Closure Plan Activities for Phase IV	01OCT01														

Project Start 01OCT97
 Project Finish 28SEP07
 Data Date 01OCT97
 Run Date 03JUN98

 Baseline Activity Bar
 Progress Bar

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BAS1

Sheet 1 of 2

Closure Plan Phases

TP	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	PHASE											
				PH1	PH2	PH3	PH4	PH5	PH6	PH7	PH8	PH9	PH10	PH11	PH12
18A011071	324 Closure Plan Phase III (Associated Areas)	20CT99	10MAR00	324 Closure Plan Phase III											
18A011070	Task Initiation Vault Sample Rm	20CT99	27OCT99	324 Vault Sample Room											
18A011070	Work Package Preparation Vault Sample Rm	20OCT99	20NOV99												
18A011070	Vacate Vault Sample Room	20NOV99	26AP00												
18A011070	Deactivate Vault Sample Room Equipment	27AP00	10M00												
18A011070	Remove/Isolate/Document Hazards Vault Sample Rm	12M00	20M00												
18A011070	Task Closure Vault Sample Rm	23M00	5JUL01												
18A011070	Indefinite Closure Vault Sample Rm	23M00	5JUL01												
18A011070	Vault Sample Rm Closure Action Complete		5JUL01												
18A011070	324 Vault Sample Room 2105-Wat Depo-Cnt Modid Cn	20CT99	5JUL01	324 Vault Sample Room Waste Disposition											
18A020001	Low Level Canyon H2/LV Lines Isolated		03P00	324 Low Level Canyon Rm 144											
18A020001	Rm 144 H2/LV Lines Isolated in Opt of Closure		10M00												
18A020001	Task Initiation 324 Basement Area	10CT99	11NOV99	324 Basement Area											
18A020001	Prepare HWY 324 Basement Area	10CT99	11NOV99												
18A020001	Vacate Rooms and Service Tunnel 324 Basement Area	12NOV99	13JAN00												
18A020001	Vacate Storage Vault 324 Basement Area	16JAN00	28JAN00												
18A020001	Remove/Isolate/Document Hazards 324 Basement Area	15JAN00	17FEB00												
18A020001	Perform Debris Bulk Inspection No 10	17FEB00	06M00												
18A020001	Prepare Debris Bulk Disposition Report No 10	06M00	24M00												
18A020001	Amendiate Concrete Surfaces No 10	29M00	31M00												
18A020001	Task Closure 324 Basement Area	1AP00	13M00												
18A020001	End Point Closure 324 Basement Area	1AP00	13M00												
18A020001	No 10 Closure Activities Complete		13M00												
18A020001	REC Airlock H2/LV Lines Isolated		22JUL00	324 REC Airlock (RM 135)											
18A020001	REC H2/LV Lines Isolation Complete		22M00												
18A020001	Task Initiation REC Op Gallery	0JUL00	10SEP00	324 REC Operating Galleries											
18A020001	Biological Work Preparation REC Op Gallery	0JUL00	10SEP00												
18A020001	Vacate/Remove Equipment/Housekeep REC Op Gallery	10SEP00	10OCT00												
18A020001	Stabilize S-Cell Sample Load Out REC Op Gallery	0OCT00	22OCT00												
18A020001	Remove/Isolate/Document Hazards REC Op Gallery	22OCT00	11JAN00												
18A020001	REC Oper Gallery H2/LV Lines Isolation Comp		11JAN00												
18A020001	Task Closure REC Op Gallery	11JAN00	23FEB00												
18A020001	Indefinite Closure REC Op Gallery	11JAN00	10MAR00												
18A020001	REC Op Gallery H2/LV Lines Isolation Complete		28AP00												
18A020001	324 REC Cell Operating Galleries-Wat Depo-Cnt Modid C	16JUL00	10MAR00	324 REC Operating Galleries Waste Disposition											
18A020001	324 REC Cell Operating Galleries-Wat Depo-Sample Anal	16JUL00	10MAR00												
18A020001	324 REC Cell Operating Galleries-Wat Depo-Cnt Modid N	16JUL00	10MAR00												

TR	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	PHASES											
				PH1	PH2	PH3	PH4	PH5	PH6	PH7	PH8	PH9	PH10	PH11	PH12
18A04LPLA	324 Closure Plan Phase IV (B-Cell/MLV)	10CT01	17OCT02	324 Closure Plan Phase IV											
18A070001	Task Initiation BSC D-Cell	30OCT01	20A004	324 REC B Cell (RM 134)											
18A070001	Radiological Work Preparation BSC D-Cell	27OCT01	20A004												
18A070001	Disconnect Electrical Systems BSC D-Cell	20A004	10A004												
18A070001	Initial Integrity Assessment BSC D-Cell	20A004	13A004												
18A070001	Material and Equipment Removal BSC D-Cell	17OCT01	20A004												
18A070001	Material and Equipment Removal Complex		20A004												
18A070001	B-Cell Linear Surface Visual Inspection Complete		10A004												
18A070001	Documentate BSC D-Cell BSC D-Cell	11A004	22A004												
18A070001	Gamma Scan & Characterization BSC D-Cell	10A004	11A004												
18A070001	Seal HVAC Access BSC D-Cell	14OCT01	14A004												
18A070001	Remove Hand/Walk/Slide Plug Penetrations BSC D-Cell	13OCT01	6A004												
18A070001	Remove Linear BSC D-Cell	6A004	23A004												
18A070001	Remediate Concrete BSC D-Cell	24OCT01	24A004												
18A070001	Lockout Shield Door BSC D-Cell	24OCT01	24A004												
18A070001	Approve Integrity Assessment Report		24A004												
18A070001	Task Closure BSC D-Cell	16A004	10E004												
18A070001	Repoint Closure BSC D-Cell	16A004	10E004												
18A070001	HL Approve Closure Report		24A004												
18A070001	Submit all of Closure Plan Certif-PH CERTIF		24A004												
18A070001	Complete Closure Activities for B-Cell		20E004												
18A070002	324 REC D-Cell B134-Wet Segs-Cont Shield Cell L&P	20OCT01	10E004	324 REC D Cell (RM 134) Waste Disposition											
18A070002	324 REC D-Cell B134-Wet Segs-Sample Analysis	20OCT01	10E004												
18A070002	324 REC D-Cell B134-Wet Segs-Filtration Process	20OCT01	10E004												
18A070002	324 REC D-Cell B134-Wet Segs-MLV Disposal	20OCT01	10E004												
18A070002	324 REC D-Cell B134-Wet Segs-Solids from Filtrate	20OCT01	10E004												
18A070002	324 REC D-Cell B134-Cont Shield Cell L&P	20OCT01	10E004												
18A070001	Baseline Beta Beta Char. of Vents and Tanks	10CT01	26OCT01	324 MLV											
18A070001	Study for Piping Sampling Analysis Plan	10CT01	19OCT01												
18A070001	Piping Beta Flushing Study	29OCT01	20A004												
18A070001	Design, Fab., and Install Chemical Rubout Unit	29OCT01	20A004												
18A070001	Procure Equipment for Piping Sampling Analysis	16OCT01	14OCT01												
18A070001	Task Initiation 324 MLV	10CT01	27OCT01												
18A070001	Radiological Work Preparation 324 MLV	10CT01	27OCT01												
18A070001	Install Piping Sampling Equipment	14E001	20CT01												
18A070001	Installation of Fittings on Pipes for Chem Flush	14E001	13A004												
18A070001	Prepare Piping Sample Analysis Report	6OCT01	10OCT01												
18A070001	Chem. Flush Piping in A-Cell	14A004	23A004												
18A070001	Perform Piping Sample Analysis	14A004	20A004												
18A070001	Chem. Flush Piping in B-Cell	16A004	17E004												
18A070001	Chem. Flush Piping in C-Cell	17E004	17E004												
18A070001	Chem. Flush Piping in D-Cell	24E004	20A004												
18A070001	Chem. Flush Piping in Airlock	20A004	10A004												
18A070001	Chem. Flush Piping in Lead Out Section	11A004	20A004												
18A070001	Chem. Flush Piping in Pipetrench	20A004	20A004												
18A070001	Chem. Flush Piping in Chemical Addition Line	09A004	13A004												
18A070001	Chem Flush MLV Tanks & Filtration of liquids	10A004	10A004												
18A070001	Remove MLV cover blocks and perform Rad. Survey	17OCT01	27OCT01												
18A070001	Docu Vault Surfaces 324 MLV	24OCT01	4A004												
18A070001	Remove Piping within MLV	1A004	16OCT01												
18A070001	Piping Removal from MLV Complete		16OCT01												
18A070001	Remove Tanks 324 MLV	15OCT01	20OCT01												
18A070001	MLV Tank Removal Complete		20OCT01												
18A070001	Initial Integrity Assessment 324 MLV	30OCT01	13A004												
18A070001	Perform Debris Hole Inspection	14A004	17E004												
18A070001	Docu Vault Surfaces 324 MLV	14A004	23E004												
18A070001	Prepare Debris Hole Inspection Report	4E001	23E004												
18A070001	Final Decontamination MLV Complete		23E004												
18A070001	Remove MLV Cell Liner	24E004	15A004												
18A070001	Embedded Piping Integrity Assessment 324 MLV	24E004	16A004												
18A070001	Remediate Concrete Surfaces	10A004	23A004												
18A070001	Remove NCA Orphaned Piping Outside MLV	17A004	27A004												
18A070001	MLV Cell Liner Removal via Inspection-PH CERTIF		4A004												
18A070001	Post Integrity Assessment 324 MLV	16A004	10A004												
18A070001	Post Integrity HSE 324 MLV	19A004	9A004												
18A070001	NCA Closure 324 MLV	16A004	15A004												
18A070001	Approve Integrity Assessment Report		23A004												
18A070001	Post Integrity Gamma Scan 324 MLV	16A004	6E004												
18A070001	Submit all of Closure Plan Certif-PH CERTIF		26A004												
18A070001	Replace MLV Cover Blocks	7E001	27E004												
18A070001	Task Closure 324 MLV	28E004	11OCT01												
18A070001	Repoint Closure 324 MLV	28E004	17OCT01												

TP	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	324 HLW													
				PV04	PV05	PV06	PV07	PV08	PV09	PV10	PV11	PV12	PV13	PV14			
1848270001	HL Approve Closure Report		24SEP98														
1848270001	Complete Closure Activities for B-Cell		24SEP98														
1848270001	324 HLW Deactivation Complete VNS R-09 Complete		17OCT98														
				324 HLW Waste Disposition													
1848270002	324 HL Lvl Vlt-Hel Degr-Cont Solid Cont LLM	10CT98	17OCT98														
1848270002	324 HL Lvl Vlt-Hel Degr-Sample Analysis	10CT98	17OCT98														
1848270002	324 HL Lvl-Hel Degr-CH Cont LLM	10CT98	17OCT98														
1848270002	TRHM for Filtration	10CT98	17OCT98														
1848270002	HL-CH 3 LLM	10CT98	17OCT98														
1848270002	324 HL Lvl-Hel Degr-LLM Disposal	10CT98	17OCT98														
1848270002	324 HL Lvl-Hel Degr-CH LL Solid Waste	10CT98	17OCT98														
1848270002	324 HL Lvl-Hel Degr-HE-VNS CH 3 LLM	10CT98	17OCT98														
1848270002	324 HL Lvl-Hel Degr-HE-VNS CH 3 LLM	10CT98	17OCT98														
1848270002	324 HLW Waste Degr-LLM Disposal-Filtration	10CT98	17OCT98														

Date: 10/15/98
 Time: 10:00 AM
 Project: 324 HLW
 Page: 1 of 1

Revision History:
 1.0 Initial Schedule
 2.0 Revised Schedule
 3.0 Final Schedule

TP	TASK PACKAGE	EARLY START	EARLY FINISH	PHASES																			
				PH1	PH2	PH3	PH4	PH5	PH6	PH7	PH8	PH9	PH10	PH11	PH12								
48AFA030C	CELL CLOSURE	480799	214001																				
48AFA030E	POST IDENTITY ASSESSMENT	15AP01	28AP01																				
48AFA030G	POST IDENTITY REVIEW	20AP01	28SEP01																				
48AFA030I	LEADS REMOVAL	19AP01	214001																				
48AFA030L	POST IDENTITY BRWA, SOI & RAG CHARACTERIZATION	12A001	24A001																				
48AFA030M	TASK CLOSURE	27A001	10SEP01																				
48AFA030P	EXPEDITED CLOSURE	14SEP01	20SEP01																				
48AFA030R	NCA CLOSURE	24001	25SEP01																				

BWOC

Revision: _____
 Date: _____
 Author: _____
 Reviewer: _____
 Approved: _____
 Date: _____

Revision: _____
 Date: _____
 Author: _____
 Reviewer: _____
 Approved: _____
 Date: _____

TP	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	324 Closure Plan Phase II											
				PII1	PII2	PII3	PII4	PII5	PII6	PII7	PII8	PII9	PII10	PII11	PII12
15A247943	324 Closure Plan Phase II (RSC Trench/LLV)	20CT90	17FE95	324 Closure Plan Phase II											
15A247941	Task Initiation RSC Pipetrench	20CT90	20C90	324 RSC Pipe Trench											
15A247942	Radiological Work Preparation RSC Pipetrench	20CT90	20C90												
15A247943	Tools and Equipment RSC Pipetrench	20C90	20C91												
15A247944	Remove and Contain/Store Sludge RSC Pipetrench	17FE94	16AP94												
15A247945	Isolate Trench Piping	17AP94	15J94												
15A247946	Install HLV/LLV/Chill HLV Drain Lines Complete		15J94												
15A247947	Initial Decontamination RSC Pipetrench	24J94	24J94												
15A247948	Initial Integrity Assessment RSC Pipetrench	24J94	14C94												
15A247949	Remove Piping RSC Pipetrench	24J94	12J94												
15A247950	Final Decontamination RSC Pipetrench	12J94	17J94												
15A247951	Post Integrity Assessment RSC Pipetrench	14AP94	7A94												
15A247952	Post Integrity RSC (Ultrasonic) RSC Pipetrench	24C94	19C94												
15A247953	Post Integrity Gamma Scan and Radiological Char	24C94	19C94												
15A247954	NCA Closure RSC Pipetrench	11C94	21M94												
15A247955	Perform Debris Bulk Inspection	24M94	14M94												
15A247956	Approve Integrity Assessment Report		20M94												
15A247957	Prepare Debris Bulk Inspection Report	17M94	4M94												
15A247958	SL Approve Closure Report		31M94												
15A247959	Submittal of Closure Plan Certif-PE CERTIF		31M94												
15A247960	Remove RSC Pipetrench Chill Lines	24M94	24M94												
15A247961	Complete Closure Activities for Pipetrench		14J94												
15A247962	Immediate Concrete Surface RSC Pipetrench	24J94	4J94												
15A247963	Task Closure RSC Pipetrench	17J94	19M94												
15A247964	Submittal Closure RSC Pipetrench	27J94	19M94												
15A247965	PT Cell Liner Removal via Inspection-PE CERTIF		15J94												
15A247966	324 Pipetrench-Wet Depo-Cell Build Cell LLV	20C90	19M94	324 RSC Pipe Trench Waste Disposition											
15A247967	324 Pipetrench-Wet Depo-Sample Analysis	20C90	19M94												
15A247968	Radiological Work Preparation 324 LLV	20C93	24C93	324 LLV											
15A247969	Task Initiation 324 LLV	20C93	20C93												
15A247970	Baseline Beta Rate Char. of Vents and Tanks	19M93	29C93												
15A247971	Remove LLV cover blocks and perform Rad. Survey	20C93	17J94												
15A247972	Chem Flush of LLV Tanks and Piping	19C93	24J94												
15A247973	Remove in-vent piping	17J94	12M94												
15A247974	Remove tanks	15AP94	22J94												
15A247975	LLV Piping Removal Complete		12M94												
15A247976	Perform Initial Vent Hazy 324 LLV	22J94	12M94												
15A247977	LLV Tank Removal Complete		22J94												
15A247978	Decontaminate Vent Surfaces	17J94	20C94												
15A247979	Final Decontamination LLV Complete		20C94												
15A247980	Post Integrity Gamma Scan & Rad Char. 324 LLV	27C94	14C94												
15A247981	Perform Debris Bulk Inspection	17M94	20C94												
15A247982	NCA Closure 324 LLV	17M94	21J94												
15A247983	Remove LLV Cell Liner	19M94	20M94												
15A247984	Prepare Debris Bulk Inspection Report	19M94	20M94												
15A247985	Approve Integrity Assessment Report		12M94												
15A247986	Immediate Concrete Surface	20M94	12M94												
15A247987	SL Approve Closure Report		14M94												
15A247988	Submittal of Closure Plan Certif-PE CERTIF		14M94												
15A247989	Explosive Control	24M94	27J94												
15A247990	Submittal Closure 324 LLV	24M94	17J94												
15A247991	Task Closure 324 LLV	24M94	17J94												
15A247992	Complete Closure Activities for LLV		17J94												
15A247993	324 LLV-Wet Depo-Cell Build Cell LLV	20C93	17J94	324 LLV Waste Disposition											
15A247994	324 LLV-Wet Depo-Sample Analysis	20C93	17J94												
15A247995	324 LLV-Wet Depo-Cell Build Cell LLV	20C93	17J94												
15A247996	324 LLV-Wet Depo-Cell Build Cell LLV	20C93	17J94												
15A247997	324 LLV-Wet Depo-Filtration Process	20C93	17J94												
15A247998	324 LLV-Wet Depo-Cell Disposal	20C93	17J94												
15A247999	TRM for Filtration	20C93	17J94												
15A248000	TRM for Filtration	20C93	17J94												

324/327 FACILITY STABILIZATION
Unit of Analysis (\$K)

	FY99	FY00	FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08	Total
324 Minimum Safe	13,721	13,836	14,140	14,452	14,770	11,408	10,989	8,755	3,894		105,961
327 Minimum Safe	6,642	6,863	7,014	7,168	7,326	4,944	4,929	3,793	1,819		50,499
Fee	1,482	1,532	834	852	871	890	910	926	954		9,249
B-Cell Cleanout/Closure (REC Closure Phase I) B-Cell Cleanout, Dispersible Disposition, Liquid Waste Handling System, B-Cell Fuel Transfer, and B-Cell Closure.	9,181	9,426	9,137	-	-	-	-	-	-		27,743
324 REC Closure Phase II REC Pipetrench Cleanout, B/D-Cell Fuel Inventory Removal, Low Level Vault Closure.	-	-	956	5,144	1,761	2,223	818	-	-		10,903
324 REC Closure Phase III Associated Areas Closure	-	-	1,858	932	3,707	1,457	888	263	-		9,105
324 REC Closure Phase IV D-Cell Closure, High Level Vault Closure	-	-	-	3,206	2,016	5,029	2,913	113	-		13,277
327 M-92 Special Case Waste Removal Legacy Fuel Remnant Removal, Legacy Waste Container Removal, Ion Exchange Column Removal	-	-	-	1,047	881	237	-	106	-		2,271
324/327 CsCl Cleanout (M-92-04)	63	-	-	-	-	-	-	-	-		63
Total Compliance	31,088	31,656	33,939	32,801	31,331	26,188	21,447	13,956	6,667	-	229,074
Deactivation											
327 Liquid Waste Handling System	-	-	-	333	1,129	-	-	-	-		
324 Deactivation	-	-	2,401	3,151	3,428	4,308	6,047	3,758	12		23,105
327 Deactivation	-	-	-	-	-	7,576	5,330	8,546	5,203		26,656
Total Deactivation	-	-	2,401	3,484	4,557	11,885	11,377	12,304	5,215	-	49,761
IPL Total	31,088	31,656	36,340	36,285	35,888	38,073	32,824	26,260	11,882	-	278,835
324 A-Cell Equipment Removal	654	-	-	-	-	-	-	-	-		654
Grand Total	31,742	31,656	36,340	36,285	35,888	38,073	32,824	26,260	11,882	-	279,489

Note: Data includes escalation and the JCI steam assessment



Department of Energy
Richland Operations Office
P.O. Box 550
Richland, Washington 99352

98-EAP-276

JUN 05 1998

Ms. J. J. Wallace
Nuclear Waste Program
State of Washington
Department of Ecology
1315 West Fourth Avenue
Kennewick, Washington 99336

Dear Ms. Wallace:

TRANSMITTAL OF SCHEDULE FOR DOE/RL-96-73, 324 RADIOCHEMICAL
ENGINEERING CELLS, HIGH-LEVEL VAULT, LOW-LEVEL VAULT, AND
ASSOCIATED AREAS CLOSURE PLAN, REVISION 1

The enclosed schedule (Enclosure 1) completes submittal of the closure plan as committed in 98-EAP-194, James E. Rasmussen's letter to S. M. Alexander, State of Washington Department of Ecology (Ecology), "Transmittal of DOE/RL-96-73, 324 Radiochemical Engineering Cells, High-Level Vault, and Associated Areas Closure Plan, Revision 1," dated March 31, 1998. The submittal of the schedule for closure activities has been reviewed by management to assure its consistency with the Hanford Site Fiscal Year (FY) 2000 Budget Request and Integrated Priority List for FY 1999 - 2000, submitted to U.S. Department of Energy-HQ on April 21, 1998.

During the revision of the closure plan, the U.S. Department of Energy, Richland Operations Office (RL) incorporated the scope of Tri-Party Agreement Milestone M-89-02 into Section 6 of the plan, as you recommended. This includes it as part of the closure activities rather than leaving it in Section 3 as part of process description to be managed independently. Based on the improved process and the more fully developed planning in this revised closure plan, RL requests that upon Ecology approval of the revised closure plan and schedule, Ecology provide a recommendation for resolving the now conflicting scope completion date of the M-89-02 milestone. RL would be happy to assist in the preparation of a Tri-Party Agreement change package if this is the course of action recommended by Ecology.

Enclosed for your information, is a logic diagram for the closure activities (Enclosure 2). It provides a conceptual overview of all the major activities described in the closure plan.

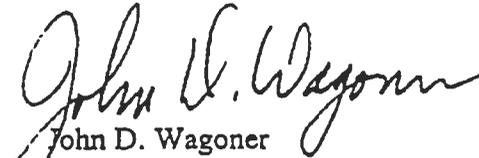
Ms. J. J. Wallace
98-EAP-276

- 2 -

JUN 05 1998

If you have any questions, please contact Ellen M. Mattlin, of my staff, at (509) 376-2385, or David C. Langstaff, of the Transition Program Division at (509) 376-5580 for project information.

Sincerely,


John D. Wagoner
Manager

EAP:DCL

Enclosures: (2)

cc w/encl:

EMDC, H6-08

A. Clark, BWHC

J. R. Wilkinson, CTUIR

M. Y. Anderson-Moore, Ecology

J. K. Bartz, Ecology

M. N. Jaraysi, Ecology

M. Wilson, Ecology

D. R. Sherwood, EPA

L. G. Olguin, FDH

D. L. Powaukee, NPT

R. Jim, YIN

Activity Description	Start	Finish	
DOE Submit Final Closure Plan	31MAR98*		◇ DOE Submit Final Closure Plan
Ecology Approve M-89-00 Closure Plan Schedule	30JUN98*		◇ Ecology Approve M-89-00 Closure Plan Schedule
324 Closure Plan Phase I (B-Cell Cleanout)	31MAR98	17SEP01	△ 324 Closure Plan Phase I (B-Cell Cleanout)
M89-05 Submit Special Case Waste Assessment		30JUN98*	◇ M89-05 Submit Special Case Waste Assessment
324 Closure Plan Phase I Complete		17SEP01	◇ 324 Closure Plan Phase I Complete
324 Closure Plan Phase II (REC Trench/LLV)	02OCT00	17FEB05	△ 324 Closure Plan Phase II (REC Trench/LLV)
324 Closure Plan Phase II Complete		17FEB05	◇ 324 Closure Plan Phase II Complete
324 Closure Plan Phase III (Associated Areas)	02OCT00	14MAR05	△ 324 Closure Plan Phase III (Associated Areas)
324 Closure Plan Phase III Complete		14MAR05	◇ 324 Closure Plan Phase III Complete
324 Closure Plan Phase IV (D-Cell/HLV)	01OCT01	17OCT05	△ 324 Closure Plan Phase IV (D-Cell/HLV)
324 Closure Plan Phase IV Complete		17OCT05	◇ 324 Closure Plan Phase IV Complete

Project Start 01OCT97
Project Finish 28SEP07
Data Date 01OCT97
Run Date 03JUN98

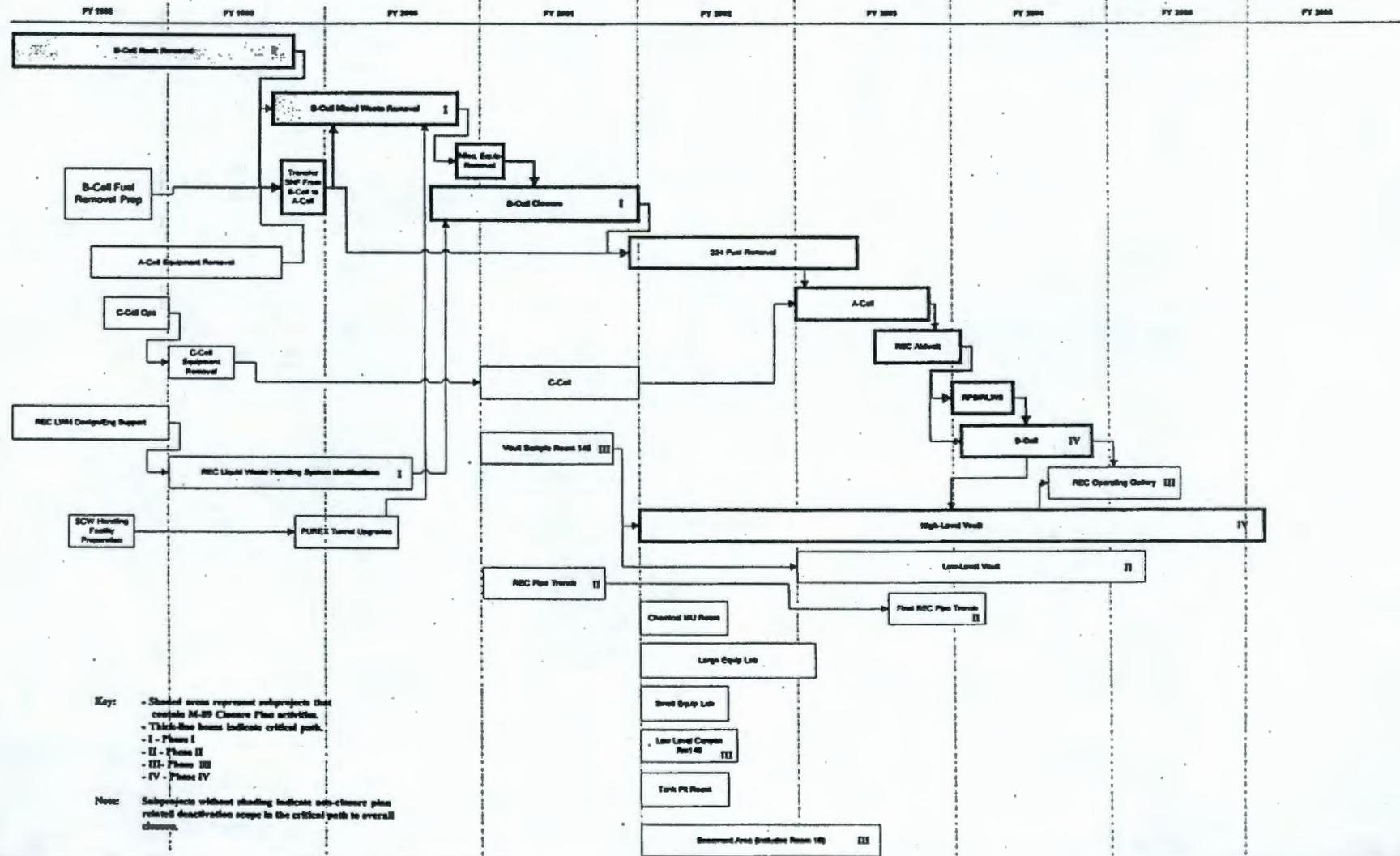
△ Baseline Activity Bar
◇ Project Closure Milestones

BAS1

REC/HLV/LLV & Associated Areas
Closure Plan Schedule
Appendix 7A

Sheet 1 of 1

324 Building Closure Plan



Distribution:

R. C. Bowman	WMH	H6-24 *
N. A. Ballantyne	FDH	N1-26 *
J. M. Barnett	BWHC	L1-05 *
J. K. Bartz	Ecology	B5-18 *
J. L. Carlson	BWHC	L1-02 *
C. E. Clark	RL	A5-15 *
G. P. Davis	Ecology	B5-18 *
M. DeLeon	FDH	N1-26 *
L. A. Dietz	BHI	H0-20
A. M. Hopkins	FDH	N1-26 *
K. A. Hadley	BWHC	R3-56 *
G. D. Hendricks	BWHC	R3-79 *
D. C. Langstaff	RL	L5-65 *
L. J. Liminski	LMH	H8-71
E. M. Mattlin	RL	A5-15 *
R. M. Millikin	BWHC	L5-65 *
E. J. Palmos	RL	R3-78 *
S. M. Price	FDH	H6-23 *
A. L. Prignano	WMH	H6-24 *
D. E. Rasmussen	BWHC	L1-04
D. W. Templeton	RL	L5-65
J. J. Wallace	Ecology	B5-18
M. S. Wright	BWHC	L1-02 *

ADMINISTRATIVE RECORD (two copies): 324 REC/HLV Closure Plan, S-3-4
[Care of EDMC, (H6-08)]

Washington State Department of Ecology Nuclear and Mixed Waste Hanford
Files, PO Box 47600, Olympia, Washington 98504-7600

Please send comments on distribution list to A. L. Prignano (H6-24),
(509)-376-1057.

* electronic copy only

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J. L. Carlson	BWHC	L1-02 *
C. E. Clark	RL	A5-15 *
G. P. Davis	Ecology	B5-18 *
M. DeLeon	FDH	N1-26 *
L. A. Dietz	BHI	H0-20
A. M. Hopkins	FDH	N1-26 *
K. A. Hadley	BWHC	R3-56 *
G. D. Hendricks	BWHC	R3-79 *
D. C. Langstaff	RL	L5-65 *
L. J. Liminski	LMH	H8-71
E. M. Mattlin	RL	A5-15 *
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E. J. Palmos	RL	R3-78 *
S. M. Price	FDH	H6-23 *
A. L. Prignano	WMH	H6-24 *
D. E. Rasmussen	BWHC	L1-04
D. W. Templeton	RL	L5-65
J. J. Wallace	Ecology	B5-18
M. S. Wright	BWHC	L1-02 *

ADMINISTRATIVE RECORD (two copies): 324 REC/HLV Closure Plan, S-3-4
[Care of EDMC, (H6-08)]

Washington State Department of Ecology Nuclear and Mixed Waste Hanford
Files, PO Box 47600, Olympia, Washington 98504-7600

Please send comments on distribution list to A. L. Prignano (H6-24),
(509)-376-1057.

* electronic copy only

Attachment 4

324 REC/HLV
Project Managers' Meeting
Federal Building/Room 590-A
Richland, Washington

July 9, 1998
2:00 p.m. to 3:00 p.m.

Letters,

Larry Romine (RL) to J. J. Wallace (Ecology), *Transmittal of Project Tracking and Performance Evaluation Documentation for DOE/RL-96-73, 324 Radiochemical Engineering Cells, High-Level Vault, Low -Level Vault, and Associated Areas Closure Plan, Revision 1, dated June 23, 1998, and and John D. Wagoner (RL) to J. J. Wallace, Transmittal of Scheduled for DOE/RL-96-73, 324 Radiochemical Engineering Cells, High-Level Vault, Low-Level Vault, and Associated Areas Closure Plan, Revision 1, June 5, 1998.*



Department of Energy
Richland Operations Office
P.O. Box 550
Richland, Washington 99352

JUN 23 1998

98-TPD-099

Ms. J. J. Wallace
Nuclear Waste Program
State of Washington
Department of Ecology
1315 W. Fourth Avenue
Kennewick, Washington 99336

Dear Ms. Wallace:

TRANSMITTAL OF PROJECT TRACKING AND PERFORMANCE EVALUATION
DOCUMENTATION FOR DOE/RL-96-73, 324 RADIOCHEMICAL ENGINEERING CELLS,
HIGH-LEVEL VAULT, LOW-LEVEL VAULT, AND ASSOCIATED AREAS CLOSURE
PLAN, REVISION 1

- References: 1) RL letter, James E. Rasmussen to S. M. Alexander, Ecology, "Transmittal of DOE/RL-96-73, 324 Radiochemical Engineering Cells, High-Level Vault, Low-Level Vault, and Associated Areas Closure Plan, Revision 1," dated March 31, 1998.
- 2) RL letter, James E. Rasmussen to J. J. Wallace, Ecology, "Transmittal of Schedule for DOE/RL-96-73, 324 Radiochemical Engineering Cells, High-Level Vault, Low-Level Vault, and Associated Areas Closure Plan, Revision 1," dated June 3, 1998.

The enclosed documents are provided in response to your request for a means of monitoring project performance. Reference 1 transmitted the subject closure plan to Ecology. Reference 2 transmitted the information in Enclosures 1 and 2 to Ecology. Project activities will be stusated at the Unit Project Manager meetings.

Enclosure 1 is the proposed schedule for the four phases of closure activities. Enclosure 2 is the proposed logic diagram for the closure activities. It provides a conceptual overview of all the major activities described in the Closure Plan. Enclosure 3 is a table that ties the activities listed in Section 6 of the Closure Plan to the Closure Plan Schedule in Enclosure 1. Enclosure 4 provides the schedule for the Closure Plan work packages. The work packages are arranged to correspond to the four phases of closure activities illustrated in the Closure Plan Schedule.