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Meeting Minutes Transmittal/Approval
Unit Managers' Meeting: Remedial Action and Waste Disposal Unit/Source Operable Unit
3350 George Washington Way, Room 1B40, Richland, Washington
September 17, 1997

FROM/APPROVAL: Nancy Werdel/Glenn Goldberg Date 10-14-97 / 10-3-97
Nancy Werdel/Glenn Goldberg, 100 Area Unit Managers, RL (H0-12)

APPROVAL: Keith K. Holliday Date 10-27-97
Wayne Soper/Keith Holliday, 100 Aggregate Area Unit Manager, Ecology (B5-18)

APPROVAL: Dennis Faulk Date 10-8-97
Dennis Faulk, 100 Aggregate Area Unit Manager, EPA (B5-01)

APPROVAL: Bryan T. Foley Date 10-6-97
Bryan Foley, 200 Area Unit Manager, RL (H0-12)

APPROVAL: Shri Mohan Date 10-10-97
~~Joan Bartz~~/Shri Mohan, 200 ~~Aggregate~~ Area ~~Unit~~ Manager, Ecology (B5-01)

APPROVAL: Ted A. Wooley Date 10/3/97
Ted A. Wooley, ~~200 B Area Process Manager~~, Ecology (B5-18)
B Plant / WESF Project Manager

APPROVAL: N/A Date
Robert G. McLeod, 300 Area Unit Manager, RL (H0-12)

APPROVAL: N/A Date
Jeanne Wallace, 300 Aggregate Area Unit Manager, Ecology (B5-18)

APPROVAL: N/A Date
David R. Einan, 300 Aggregate Area Unit Manager, EPA (B5-01)

APPROVAL: Ted A. Wooley Date 10/3/97
Ted A. Wooley, 300 Area Process Trenches Subproject Manager, Ecology (B5-18)

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

Attachment #1	-	Agenda
Attachment #2	-	Attendance Record
Attachment #3	-	Meeting Minutes
Attachment #4	-	Status Package
Attachment #5	-	Waste Site 600-104 Confirmation Sample Results Summary (Table)
Attachment #6	-	Rejected and Reclassified WIDS Sites in 100 B and 100 D

Prepared by: _____ Date 11/14/97
Gary Gesell/Tamen Lundquist (H0-17)

Concurrence by: _____ Date 11/17/97
Vern Dronen, BHI Remedial Action and Waste Disposal Project Manager (H0-17)

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UNIT MANAGER'S MEETING AGENDA
3350 George Washington Way, Room 1B40
September 17, 1997

1:00 p.m. 200 Area

- 200-BP-1 Barrier Program - Development of Future Scope Requirements
  - Planned FY 98 Workscope
  - Draft Outline of Information to Be Presented at the HAB
  - Asphalt and Settlement and Subsidence Testing
- Nonradioactive Dangerous Waste Landfill - Status Update
- 216-B-2-2 Ditch - Status Update for Finalizing Drilling Location

3:00 p.m. 100 Area

- 2,4,-D Site remediation status
  - Verification sample results
  - Status of bioremediation
- 100-D Ponds Closure Plan
  - Status or report revisions
  - Response to Ecology comments on Equivalency Demonstration
- Remaining Sites
  - Status of walkdowns
  - AR Document and Proposed Plan work is underway
- Burial Ground Task Team - Status of cost revisions
- Status of 190-D soil sampling
- Group 4 Design
- RDR/RAWP Update

NOTE: The 300 Area did not meet because of scheduling conflicts.

Attachment 2

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Remedial Action and Waste Disposal Unit Managers' Meeting
Official Attendance Record
September 17, 1997

Please print clearly and use black ink.

Printed Name	Organization	O.U. Role	Telephone
GREG MITCHEM	BHI	200 AREA TASK LEAD	372-9632
Bryan Foley	DOE-RL	200 Area Project Mgr.	376-7087
Curt Wittreich	CHI	200 Area Support	372-9586
SHRI MOHAN	Ecology	NRDWL.	736-5704
Keith Holliday	Ecology	100-D Area	736-3036
Pamela Innis	EPA	RPM	376-4915
Dennis Faulk	EPA	RPM	376-8631
Wayne Soper	Ecology	100-H Area	736-3049
JEFF JAMES	BHI	TASK LEAD	372-9563
Chuck Hedel	ERC	CHI TASK LEAD	372-9637
Nancy Werdel	DOE	DOE 100 S/C	376-5500
~~Wayne~~ Ronson	ERC	RA/WD	2-9620
Frank Corpuz	BHI	Project Engineer	3-1661
Glenn Goldberg	DOE	Proj. Manager	376-9552
Clarence Corrivean	BHI	~~ASSESSMENT~~ LEAD	2-9565

Unit Managers' Meeting Minutes
Bechtel Building, Room 1B40
September 17, 1997

100 AREA

2,4-D Burial Site Remediation Status

Sample results were received on September 17, 1997. All dioxin results were within *Model Toxics Control Act* cleanup requirements. A draft table (Waste Site 600-104 Confirmation Sample Results Summary) was distributed and discussed (Attachment 5). Followup analytical work will be received this week; a meeting will be scheduled by the U.S. Department of Energy, Richland Operations Office (RL) to discuss these results.

Burial Ground Task Team - Status of Cost Estimates

Most of the model verifications are complete. A meeting with RL, the U.S. Environmental Protection Agency (EPA), and the Washington State Department of Ecology (Ecology) will be scheduled for October 1, 1997, to discuss the verification results.

100-D Ponds Closure Plan

A letter to Ecology responding to the agency's comments on the equivalency demonstration is currently being routed within RL for concurrence. The revised Closure Plan will be ready for transmittal to Ecology by RL by September 30, 1997.

Remaining Sites

Field walkdowns were completed by Ecology and the EPA. Three sites in 100-D Area require additional discussion with EPA/Ecology. One site in the 100-F Area (100-F-18) may also require further discussion with EPA/Ecology. A soil gas report was provided to Ecology for waste site 100-D-9, and groundwater data was provided for waste site 600-30. RL will arrange for followup discussion on these sites with EPA and Ecology. Walkdowns for remaining sites in the 100-K and 100-IU Areas are scheduled for next week.

Administrative Record Document and Proposed Plan

The Administrative Record document is being drafted. The document will be submitted for Bechtel Hanford, Inc. (BHI) review next week. Draft A of the Administrative Record document is scheduled to be submitted to RL and the regulators on October 6.

The Proposed Plan is 1 month behind schedule. The document will be completed in November 1997; however, issues involving "pending sites" in the 100-K Area must be resolved before finalizing the Plan.

190-D Soil Sampling

Soil sampling begins September 22, 1997. The sampling will consist of up to 15 test pit excavations to a maximum depth of 18 ft. Field-screening measurements will be taken for chromium+6, followed by laboratory analyses for total and hexavalent chrome.

Group 4 Design

The 60% design package was completed and BHI is working toward the 90% design package, which is due in November. The project is on schedule to be closed by mid-December.

A baseline change proposal was signed. The KR-2 Operable Unit deep sites were removed so they would not interfere with EM-60. The KR-1 sites (retention basins, crib, and mile-long trench) were kept. This action gives BHI the latitude to move up K-Area remediation as part of a future remediation scenario.

BHI received the preliminary results for trenching and test pit sampling. A verification package will be prepared for only one site.

A method for closing out the 116-H-4 Pluto Crib was discussed. It was agreed that a verification package per MG-08 would be produced. An explanation of why this site should be considered for closure will be used instead of site-specific analytical data.

Remedial Design Report/Remedial Action Work Plan

A comment/response package was revised based on working group discussions on September 9, 1997. An effort will be made to issue the documents this fiscal year. If this effort carries into the next fiscal year, a Baseline Change Proposal will be required.

100 BC and 100 DR Remedial Action

<u>Asbestos Wrap on Pipelines</u>

BHI is in the process of contract negotiations with the existing subcontractors, regarding remediation of large diameter, buried, steel pipelines, wrapped with asbestos-containing materials. BHI notified the local air board authority regarding the work. During remediation, asbestos materials may fall off the pipe as the pipe is being lifted from open trench excavations to the ground surface, and placed on plastic liners for further processing. BHI will perform a diligent effort in removing visible pieces of asbestos materials that fall off the pipe. However,

BHI has no plans to test the exposed soils of the trench excavation for concentrations of asbestos. EPA and Ecology took no exceptions to this approach.

Packaging/Disposition of PCBs >500 ppm (one 55-gal drum)

Regarding the packaging and disposition of PCBs, EPA/Ecology indicated that either the Central Waste Complex (CWC) on site, or Incineration off site were acceptable dispositions from a regulatory perspective. However, offsite disposition was the preferred pathway since it is a "final" solution.

Therefore, BHI will provide a cost estimate for each alternative to present to RL. This estimate will help assist RL in their decision making and provide a directive to BHI for either CWC or offsite incineration.

Lead Encapsulation

Lead encapsulation plans and other required documentation are nearly completed for encapsulation of lead waste stream materials from 100 BC and 100 DR.

Appropriate Industrial Hygiene and Health and Safety protocols to handle lead will be followed during the handling of the lead waste stream, to include localized air monitoring (if required). This will be handled by appropriately trained BHI and Subcontractor personnel.

Ecology stated that consultation with the Washington State Department of Health DOH is (may be) necessary for the Lead Encapsulation air monitoring. The location of this treatment will decide whether EPA or Ecology concurs or objects.

200 AREA

Nonradioactive Dangerous Waste Landfill - Status Update

A draft letter report was submitted for BHI review. Six shallow and 33 deep soil-gas samples were collected. TCA was the most widespread, with low levels. Samples were analyzed within 8 hours at the 300 Area. The most significant items found were carbontetrachloride and chloroform adjacent to and below the trenches. BHI and RL reviewed the soil-gas sampling data.

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STATUS PACKAGE

UNIT MANAGERS' MEETING - SEPTEMBER 1997

SOURCE OPERABLE UNITS

100-B/C, 100-K, 100-D, 100-H, 100-F

200 AREAS

300 AREA

prepared by

DOE-RL

9/17/97

100 AREAS

2,4-D Burial Site

The planned excavation of contaminated soil was completed on August 20, 1997, and verification samples were collected and submitted for laboratory analyses. Approximately 130 tons of highly contaminated soil were containerized and are being sent off site for treatment and disposal. Onsite bioremediation of marginally contaminated soil was initiated. The project is anticipated to be completed by the end of September 1997, subject to analytical confirmation that cleanup objectives have been attained.

100/300 Area Burial Grounds

The Environmental Restoration Contractor (ERC) is currently revising the MCACES cost models to update cost estimates for removal, treatment, and disposal of burial ground waste. This work is planned to be completed by the end of September 1997 for use in burial ground feasibility studies planned for fiscal year 1998.

100 Area Remaining Sites

Field walkdowns for all remaining sites in the 100-H and 100-D Areas were completed with the Washington State Department of Ecology (Ecology) Unit Managers. Concurrence was reached on site dispositions and the path forward for inclusion in the Remaining Sites Proposed Plan. Eight sites in the 100-H Area and 12 sites in the 100-D Area will be removed from the Waste Information Data System (WIDS) and will be nominated for exclusion from Appendix C of the Tri-Party Agreement. These efforts supplement similar agreements reached earlier for sites in the 100-F Area. Walkdowns for remaining sites in the 100-B/C, 100-KE/KW Areas and the 100-IU-2 and 100-IU-6 Operable Units are planned for September 1997. The draft Administrative Record document and Proposed Plan are being prepared.

100 B/C Remedial Action

The sixth plume excavation was completed at the 116-C-1 Liquid Waste Disposal Trench. The six combined plumes constitute more than 40% of the original volume of the 116-C-1 waste site. The 116-C-5 Retention Basins excavation is approximately 75% complete. An asbestos abatement program for the limited scope pipe wrap was issued to a lower-tier subcontractor. Additional pipeline soil assessment trenching was completed for Envirocon's work Areas 8 and 9 (between "B" Avenue and 116-C-5 fenced area). Plans are being finalized for macroencapsulation at the 100-B/C site of contaminated lead/copper materials from the present 100 Area Remedial Action sites and from the 105-C Reactor Interim Storage site. The monitoring well 199-B3-2 decommissioning subcontractor started mobilizing equipment and materials into plume #5 of 116-C-1.

Prompted by responses to regulator comments on the generic vadose zone model presented in the Remedial Design Report/Remedial Action Work Plan (RDR/RAWP) and followup meetings, evaluation and plotting of existing vadose zone contamination information is in progress for the 100-B/C Group 1 Sites (Summary level, interim results tabled). This is the first step in the related issue of site closeouts and concurrence on the process involved.

Design-Related Activities

Written responses to U.S. Environmental Protection Agency and Ecology comments on the RDR/RAWP were distributed, and a summary of the results was presented. The main issues of concern were the conceptual model and use of RESRAD, application of institutional controls, and the datum used for shallow/deep zone criteria. A workshop will be held September 8 to resolve outstanding issues.

Group 4 Design is more than 60% complete. Comments from the ERC review were incorporated and work is progressing on schedule to complete the 90% design in early November. Shallow zone field activities (GPR, trenching, sampling, etc.) were completed, and laboratory results are due shortly. Notice was given that cleanup verification reports will be issued for regulator review October 6. A scope change was approved to remove the KR-2 Operable Unit sites (deep sites) from the Group 4 design package.

100-D Soil Sampling

The data quality objectives process was implemented at an August 28, 1997, meeting in support of preparing a Sampling Analysis Instruction. Mobilization to the field to initiate test pit sampling is planned for September 22, 1997. Sampling is planned to be completed by September 30, 1997, with LIBS technology followup in early fiscal year 1998.

100-D Ponds Closure Plan Revision

The U.S. Department of Energy, Richland Operations Office (RL) is preparing a written response to Ecology's comments on the equivalency demonstration. The response indicates that Ecology's request for deep vadose zone soil samples is not yet resolved and that issue requires further discussion. Revisions to the closure plan are nearly complete.

100 DR Remedial Action

No activities currently at 116-DR-1 and 116-DR-2; work remains as excavation of additional plumes to the north and northeast, which have been halted due to possible undermining of support facilities and haul roads, and deferred to a later date.

Excavation of soil burden and breaking of concrete slabs and walls continues at 116-D-7 and 116-DR-9 concrete lined Retention Basins. The process for "waste designation by representative sampling" is essentially completed. As presented in the Waste Profile revisions for these sites,

results of "representative sampling" indicate that leachable lead concentrations of the demolition debris, as a whole, is below Environmental Restoration Disposal Limits (ERDF) allowable limits. A detailed documentation package is being prepared by Bechtel Hanford, Inc. (BHI) and will be transmitted to RL in the near future.

Similar to Subcontract Change Request activities and negotiations at 100 BC, a detailed pipeline excavation plan and cost proposal is being developed/evaluated, along with an asbestos abatement program for the asbestos containing material (ACM) surrounding large diameter steel piping.

Final field verification testing for the 107-D1 and 107-D5 (relatively small and shallow) sludge pits were recently completed, with results indicating PCBs at the base of the excavation in excess of MTCA standards. Per a meeting with RL and Ecology, it was concurred to proceed with field screening to evaluate the extent and guide excavation for remediation. Laboratory testing indicates that levels are below ERDF Waste Acceptance Limits.

In parallel with 100-B/C activities, prompted by responses to regulator comments on the generic vadose zone model presented in the RDR/RAWP, a site-specific model of the vertical contamination distribution in the vadose zone (with contamination to groundwater) was developed for 116-DR-1/2. Analytical model runs are being performed to assess attainment of remedial action goals to protect groundwater and the River. After internal BHI reviews and review and discussion with RL, it is currently planned to present conclusions of the analysis to the U.S. Environmental Protection Agency and the Washington State Department of Ecology on September 30.

200 AREAS

200 Areas Strategy

Funding in the Detailed Work Plan was provided for the 200 Areas Strategy. The draft Tentative Agreement was reviewed and is currently being updated. The start of the public comment period on the Tri-Party Agreement change package for the 200 Areas Strategy is being planned for mid-October 1997.

200-BP-1 Operable Unit

The barrier testing program continues to provide data on water infiltration, vegetation growth, and biointrusion associated with the Hanford Site barrier. Detail Work Plan activities are underway, and the testing program will continue at a reduced level in FY 1997. Asphalt testing and settlement and subsidence testing were deferred to FY 2000. A final report will be generated after all activities are completed.

200-BP-11 Operable Unit

A final draft of the Description of Work and Waste Control Plan are being prepared and will require RL and Ecology approval. BHI is completing other prefield planning activities (i.e., hazards analysis, Health and Safety Plan, preparing for award of the drilling subcontract on October 1, 1997).

Nonradioactive Dangerous Waste Landfill

Field work began the week of August 18, 1997, and was completed the week of September 2, 1997. A draft letter report will be issued to BHI for internal review on September 17, 1997.

300 AREA

300-FF-1 Operable Unit

Remedial Action - The remedial action subcontractor continued excavation of the Process Trenches Above Cleanup Level area during the last month. Work is expected to start in the undetermined area of the process trenches by September 12. Excavation of the final North Process Pond (NPP) berm areas test trench and eight test pits in the NPP scrapings area were completed. Excavation of six of the eight South Process Pond berm trenches were completed. Excavation of the 300-10 waste site was completed. Verification samples for 300-10 and the Ash Pits were sent to the offsite laboratory. Excavation of the 300-44 and 300-45 waste sites is planned to be initiated and completed in September 1997.

Planning efforts for excavation of the 618-4 Burial Ground are ongoing. The 618-4 Burial Ground Data Quality Objective (DQO) draft final report was reviewed by the team and changes are currently being included in the document. Items identified during 618-4 Burial Ground Contingency Planning meetings are being evaluated and addressed in project documentation to support a readiness evaluation before initiating excavation scheduled in October 1997.

The holographic ground penetrating radar (GPR) technology demonstration report is being prepared to document the work performed on the 618-4 Burial Ground.

300-FF-2 Operable Unit

Data for radiological and chemical analyses performed on groundwater samples from the 699-S6-E4A well sampled in late June were received during the month of August and early September. Evaluation of the data and preparation of an annual summary letter report was initiated. Initial evaluation of the data indicates uranium at concentrations of 225 ug/L, an increase of 36% from the previous sampling in January 1997.

Discussions were held with BHI Field Support and ERDF staff regarding arrangements required to complete preparations of eight drums of waste from well 699-S6-E4A remediation activities that are located in the 300-FF-1 Radioactive Materials Area. Five drums were removed from overpacks to eliminate disposal of the overpacks; absorbent was added to eliminate any residual moisture that may have remained in those five drums. On September 10, the drums were loaded into a container and were awaiting shipment to ERDF.

The 300-FF-2 Multi-Year Work Plan scope statements and schedules were revised during August to reflect a delay in initiating the Focused Feasibility Study and Proposed Plan to the beginning of FY 1999. This latest guidance from RL is due to budget shortfalls anticipated during FY 1998. The revised schedule still supports the July 31, 1999, Tri-Party Agreement milestone for these activities.

Remediation of the 300-10 waste site adjacent to the 316-5 Process Trenches was completed on August 26 as part of 300-FF-1 Operable Unit remedial actions. Agreement was reached with the regulators that allowed remediation of this waste site as part of the remedial actions, due to its proximity to the ongoing work. Waste site 300-45 will soon be remediated followed the same approach.

A review of 300 Area treatment, storage, and disposal permits was conducted as part of the process to address listed waste issues relative to 300-FF-2 waste sites. Additional reference materials are being obtained and reviewed, and interviews with current and former employees that worked in the 300 Area were initiated. A draft report on this activity is being compiled.

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Waste Site 600-104 Confirmation Sample Results Summary

AREA	SAMPLE ID	LOCATION	RESULTS 2,4-D (mg/kg)	2,3,7,8-TCDD (pg/g)	CTE (pg/g)
Preliminary Bio	B0LKW8		0.082 U	na	na
	BOLKW9		0.082 U	na	na
	BOLKXO		0.082 U	na	na
	BOLKX1		0.081 U	na	na
	BOLKX2		0.082 U	na	na
	BOLKX3		0.082 U	na	na
	BOLKX4		0.082 U	na	na
	BOLKX5		0.083 U	na	na
	BOLKX6		0.082 U	na	na
	BOLKX7		0.081 U	na	na
Excavated Tank Pit	B0LKX8		88 D^{10}	2.8 U	6.1
	B0LKX9		6.1 D^{10}	0.9 U	2.3
	B0LKY0		3.2 D^{10}	1.8 U	4.2
	B0LKY1		0.099	1.1 U	2.5
	B0LKY2		0.082 U	1.6 U	2.5
Excavated Trench	B0LL25	1	52 D^{50}	na	na
	B0LL26	2	13 D^{50}	na	na
	B0LL27	3	1600 D^{5K}	na	na
	B0LL28	4	10 D^{10}	na	na
	B0LL29	5	10 D^{10}	na	na
	B0LL30	6	8.9 D^{10}	na	na
	B0LL31	7	0.12	na	na
	B0LL32	8	0.086	na	na
	B0LL33	9	0.08 U	na	na
	B0LL34	10	0.087	na	na
	B0LL35	Ju1	41 D^{10}	0.97 U	1.1
	B0LL63	Ju1 (dup)	0.72	1.3 U	1.2
	B0LL36	Ju2	0.081 U	0.68 U	1
	B0LL37	Ju3	1	1.9 U	2.1
	B0LL38	Ju4	60 D^{50}	2.2 U	3.3
	B0LL39	Ju5	67 D^{50}	0.69 JQ	3.4
Bioremediation	B0LL40	1	1.9	0.94 J	3.1
	B0LL41	2	36 D^{50}	2.3	4.7
	B0LL42	3	6.9 D^{10}	0.86 U	0.9
	B0LL43	4	7 D^{10}	1.3	2.5
	B0LL44	5	0.44	1.1 U	1.1
	B0LL62	5 (dup)	0.088	1.5 U	1.8
	B0LL45	6	0.44	2.5 U	2.8
	B0LL46	7	8.4 D^{10}	2.9 U	3.7
	B0LL47	8	1.6	0.84 U	1.3
	B0LL48	9	11 D^{10}	0.73 JQ	2.2
	BOLL49	10	11 D^{10}	0.75 J	2.6
MTCA B Cleanup Criteria			**800**	**6.7**	**6.7**

U Not detected. The associated value is the quantitation limit for the sample.
J Estimated result - less than the quantitation limit for the sample.
Q Estimated maximum possible concentration.
D sample result reported after dilution (dilution factor indicated by superscript value)

CTE Calculated Toxicity Equivalence (values rounded to nearest tenth)
mg/kg parts per million
pg/g parts per trillion
Ju Judgement Sample

DRAFT

Distribution
Unit Managers' Meeting: Remedial Action Unit/Source Operable Units
100, 200, and 300 Areas

053333

Nancy Werdel	DOE-RL, RP (H0-12)
Mike Thompson	DOE-RL, RP (H0-12)
Glenn Goldberg	DOE-RL, RP (H0-12)
Owen Robertson	DOE-RL, RP (H0-12)
Rich Holten	DOE-RL, RP (H0-12)
Bryan Foley	DOE-RL, RP (H0-12)
Robert McLeod	DOE-RL, RP (H0-12)
Ellen Mattlin	DOE-RL, EAP (A5-15)
Steve Balone	DOE-RL, RPS (H0-12)
Lisa Treichel	DOE-HQ (EM-442)
Rich Person	DOE-HQ (EM-442)
Larry Gadbois	EPA (B5-01)
Phil Staats	100 Aggregate Area Manager, WDOE (B5-18)
Chuck Cline	WDOE (Lacey)
Wayne Soper	WDOE (Kennewick) (B5-18)
Ted Wooley	WDOE (Kennewick) (B5-18)
Joan Bartz	WDOE (Kennewick) (B5-18)
Shri Mohan	WDOE (Kennewick) (B5-18)
David Holland	WDOE (Kennewick) (B5-18)
Keith Holliday	WDOE (Kennewick) (B5-18)
Jeanne Wallace	WDOE (Kennewick) (B5-18)
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V. R. Dronen	BHI (H0-17)
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Please inform Tamen Rodriguez (372-9562) of BHI
of deletions or additions to the distribution list.