

Meeting Minutes Transmittal/Approval
 Unit Manager's Meeting: Remedial Action and Waste Disposal Unit/Source Operable Unit
 Washington State Department of Ecology, Room 5, Kennewick, Washington
 July 9, 1996

FROM/APPROVAL: *Bryan J. Foley* Date 10-4-96
 Bryan Foley, 200 Area Unit Manager, RL (H0-12)

APPROVAL: *[Signature]* Date 10/4/96
 Jack Donnelly, 200 Area Unit Managers Ecology (B5-18)

APPROVAL: *[Signature]* Date 10/4/96
 Paul Beaver, 200 Area Aggregate Area Unit Managers, EPA (B5-01)

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

- | | | |
|----------------------|---|---|
| Attachment #1 (1 p) | - | Agenda |
| Attachment #2 (5 pp) | - | Meeting Summary |
| Attachment #3 (2 pp) | - | 200 Areas Strategy Meeting Grid |
| Attachment #4 (7 pp) | - | 200 Areas Source Operable Unit Strategy Action Item List |
| Attachment #5 (2 pp) | - | 200 Areas Source Operable Unit Strategy Parking Lot Items |



Prepared by: *[Signature]* Date 10/4/96
 Greg B. Mitchem, ERC (H0-17)

Concurrence by: *[Signature]* Date 10/4/96
 Vern Dronen/Greg B. Mitchem, BHI Remedial Action and Waste Disposal Project (H0-17)

Agēnda - 200 Area Strategy Workshop
July 9, 1996, 8:00 a.m. - 12:30 p.m.
Ecology Offices

1. Introduction
 - What's New
 - Review Agenda
 - Business; Minutes Sign off, Time Constraints, Planned Interruptions
2. Review Action Item List (deferred from 6/14/96)
3. Review RMT Presentation and Discuss Approach for Ecology/EPA July 11 Management Briefing
4. Status of Technical Document by Subteam
5. Status of Strategy Document by Subteam
 - Review Comments/Feedback from External Groups
 - Next Steps (Revisions and Support for Presentations)
6. Technology Development needs for 200 Area (Treatability Tests)
7. 200 Area Remediation Costs Basis and Approach
8. Wrap Up
 - Next Meeting
 - Summarize Action Items
 - Parking Lot/Miscellaneous Items

**Meeting Minutes - 200 Area Strategy Workshop
July 9, 1996, 8:00 a.m. - 12:30 p.m.
Ecology Offices**

1.0 INTRODUCTION

1.1 WHAT'S NEW

Two members were removed from the team (Dave Lundstrum and Alisa Huckaby).

Review Agenda

The agenda was accepted with the end time revised to 12:30 p.m.

Business

Minutes for the June 6, 1996, meeting were signed. Minutes for the June 14, 1996, meeting that were sent out in advance had not been reviewed. The team will provide comments by June 12, 1996.

Time Constraints

Paul Beaver left at 10:30 a.m. and asked that item III be delayed until that time.

**2.0 REVIEW ACTION ITEM AND PARKING LOT LIST
(deferred from June 14, 1996)**

The following General Action Items were discussed and/or revised, as noted.

General Action Items #8 and #9

The date completed and descriptions of closure for #8 and #9 were revised to Hold and Hold pending Strategy Document determination, respectively.

General Action Item #27

An explanation of the "Focus Package" box on the 200 Area Implementation Flowchart was described. The concept to be included in the 200 Area Strategy Document was described as follows: "The focus package is the equivalent of a shortened RI Report, focused feasibility study, and proposed plan combined into one document that goes out for public review. The result is a compressed schedule for the waste sites included in the focus package."

The date completed and description of closure for #27 was revised to Hold and Hold, pending incorporation of the focus package description discussed on July 9, 1996, into the Strategy Document, respectively.

General Action Item #28

The minutes for June 6, 1996 were signed. The item was closed and a date completed of July 9, 1996, was added to the table.

General Action Item #29

The video conference room was scheduled by the Environmental Restoration Contractor (ERC) for July 11, 1996. Doug Sherwood of the U.S. Environmental Protection Agency (EPA) has a schedule conflict and will not attend. The item was closed and a date completed of July 9, 1996, was added to the table.

General Action Item #30

The Technical Document subteam met on June 28, 1996, and resolved the "level of detail" issue for the conceptual model using the 200-UP-2 OU as an example. The item was closed and a date completed of June 28, 1996, was added to the table.

General Action Item #31

The strategy team determined that the characterization criteria's table should be handled by the Technical Document team members. The item was closed and a date completed of June 9, 1996, was added to the table.

General Action Item #32

The team discussed the issue of using representative site data to close a *Resource Conservation and Recovery Act of 1976* (RCRA) treatment, storage, and disposal (TSD) unit. The strict interpretation of the regulation does not appear to allow it. The documentation would require discussion of all possible contingencies, not just the one based on the representative site data. Two alternative approaches are as follows: (1) select a closure option with the addition of a permit condition requiring revision to the closure plan (if not supported by verification data) as a possible way to get around addressing all closure options or (2) include an appendix in the focused feasibility study (FFS) when the TSD unit closure option is different from the FFS option. A complicating factor is the more stringent requirement of clean closure of a TSD unit that might require more than verification sampling. The issue was tabled with a request for Paul Beaver, Joan Bartz, Jack Donnelly, and Moses Jaraysi to resolve at a separate meeting.

The item due date was changed to be determined (TBD) with the action given to Paul Beaver, Joan Bartz, Jack Donnelly, and Moses Jaraysi to resolve at a separate meeting.

General Action Item #33

Team members provided cross program participation for use in the Strategy Document integration section. The discussion also identified two key interfaces that needed to be made: Tank Waste Remediation System (TWRS) and the U.S. Department of Energy, Richland Operations Office (RL) strategic planning office. A concern was raised that TWRS involvement is limited to establishing connections and not to resolve TWRS internal strategy issues. The Strategy Document should indicate present generic interfaces and highlight required future and ongoing interfaces in the upcoming years.

The item was closed and a date completed of July 9, 1996, was added to the table.

The following Parking Lot Items were discussed and/or revised, as noted.

Parking Lot Item #8

The 200 Areas waste disposal issues were addressed by the addition of a new assumption. The new assumption #11 was agreed to by a group consensus vote.

Assumption #11

Waste generated in the 200 Areas, except for transuranic waste, will be managed (to include treatment and/or disposal) on the Hanford Site.

Parking Lot Item #13

The issue of no current fiscal year (FY) 1997 funding for 200-UP-2 OU was resolved. RL agreed to request carryover of FY 1996 funds associated with the preparation of a final revision to the FFS and proposed plan into FY 1997. The item was closed and a date completed of July 9, 1996, was added to the table. While the funding issue was resolved, EPA raised the issue that no Record of Decision would be prepared for the unit since there is no additional action other than the current surveillance and maintenance activities. The documentation necessary to follow through with the RCRA closure of the 216-U-12 TSD unit was discussed but not resolved. RL requested the Washington State Department of Ecology (Ecology) to clarify the path to close the 216-U-12 Crib.

**3.0 REVIEW RMT PRESENTATION AND DISCUSS APPROACH
FOR ECOLOGY/EPA JULY 11 MANAGEMENT BRIEFING**

The team agreed that the presentation would not be changed but those items discussed during the Results Management Team (RMT) presentation would be highlighted. The presentation would be shared between Jack Donnelly, Bryan Foley, and Greg Mitchem. Additional verbal description will be added on why we are here (BP-11 dispute resolution) and how this is a new way.

4.0 STATUS OF TECHNICAL DOCUMENT BY SUBTEAM

Curt Wittreich provided status on the Technical Document. Work is proceeding to complete the waste site subgroups. The development of the generalized conceptual model for the groupings has been initiated.

5.0 STATUS OF STRATEGY DOCUMENT BY SUBTEAM

Curt Wittreich provided status on the Strategy Document. Sections 1.0, 2.0, and 3.0 are in technical editing. Work is proceeding on Section 4.0, which is now a combination of Sections 4.0 and 5.0. Text is being developed for the flowchart boxes and the discussion of program integration. The ERC will have draft responses to RL on the RL comments by June 10, 1996.

6.0 TECHNOLOGY DEVELOPMENT NEEDS FOR 200 AREA (TREATABILITY TESTS)

The technology requirements for the 200 Areas were discussed. The consensus was that technology requirements should be supported by EM 50 and not come out of the limited 200 Area budgets for assessment.

The following areas were agreed to as technology developmental needs:

- Remedies for potential deep mobile contaminants in the vadose zone
- Advanced burial ground characterization technologies (i.e., enhance GPR capabilities to 3-D)
- Technologies to support the canyon initiative.

The 200-BP-1 barrier testing should continue, but not past the current planned testing.

7.0 200 AREA REMEDIATION COSTS BASIS AND APPROACH

The current baseline has a mixture of capping, consolidation, and ERDF disposal. Most of the actions include capping. Based on this mix, the cost estimate is \$70 to 80 million per year from 2003 to 2018. It was recognized that these estimates are highly dependent on barrier footprint that is subject to change and may be high.

It was agreed that the baseline should be revised based on application of the 200 Area Strategy and results of the Technical Document. A funding level of \$2 to 3 million per year was discussed as a

minimum level to fund cost-effective remediation. It was agreed that the emphasis should not be on 2018, but on completing characterization and initiating remediation to start the process. After the process has started, the 2018 milestone should be considered. A look forward would be more constructive than taking 2018 and working back (suggested by the RMT). Interim remediation milestones in the 200 Areas would help focus this effort.

8.0 WRAP UP

Next Meeting

Jack Donnelly will schedule the next meeting before July 31, 1996. The following agenda items should be discussed:

- Review of latest 200 Areas Strategy Document draft
- Results of the Ecology and EPA Management briefing.

Summarize Action Items

- | | | |
|-----|--|---------------|
| #34 | Ecology to provide clarification on the path to closure for the 216-U-12 Crib. | Due date: TBD |
| #35 | Jack Donnelly asked to add an action item for laying out a characterization and remediation schedule with the estimated funding support. | Due date: TBD |

200 Areas Strategy Meeting Grid

Participants	3/20/96 (mtg)	3/21/96 (mtg)	3/22/96 (mtg)	4/4,5,8/96 (char. grouping)	4/9/96 (tour)	4/10/96 (mtg)	4/18/96	5/8/96 (mtg)	5/15/96 (mtg)	6/6/96
Bryan Foley	X	X	X	X	X	X	X	X	X	X
Paul Beaver	X	X	X	X	X	X	X	X	X	X
Dennis Faulk		X								
Joan Bartz	X	X	X			X	X	X	X	X
Suzanne Dahl	X	X	X	X	X	X	X	X	X	X
Jack Donnelly	X	X	X		X	X	X	X	X	X
Norm Hepner								X	X	X
Alisa Huckaby	X	X	X							
Moses Jaraysi	X	X	X							
Dave Lundstrom	X	X	X		X			X		X
Shri Mohan	X				X	X	X	X	X	X
Laura Russell	X	X			X	X		X	X	X
Joan Woolard	X	X	X		X	X	X	X		
Greg Mitchem	X	X	X		X	X	X	X	X	X
Greg Eidam	X	X	X		X	X				
Michael Galgoul	X	X	X		X	X	X	X	X	X

200 Areas Strategy Meeting Grid

Participants	6/14/96 (mtg)	7/9/96 (mtg)								
Bryan Foley	X	X								
Paul Beaver	X	X								
Dennis Faulk										
Joan Bartz	X	X								
Suzanne Dahl	X	X								
Jack Donnelly		X								
Norm Hepner		X								
Alisa Huckaby										
Moses Jaraysi										
Dave Lundstrom	X									
Shri Mohan		X								
Laura Russell										
Joan Woolard										
Greg Mitchem	X	X								
Greg Eidam										
Michael Galgoul	X	X								

200 Areas Source Operable Unit Strategy Action Item List - (07/09/96)

No.	Performer	Description	Date Assigned	Due Date	Date Completed	Description of Closure
Tour Action Items						
1	ERC	Was there a Sr-90 release to Gable Mt Pond?	04/09/96	Hold	Hold	Items will be addressed as part of Technical Document Development, if approved (Note 1).
2	ERC	Was there an overflow from Gable Mt Pond to West Lake?	04/09/96	Hold	Hold	Note 1
3	ERC	What is the physical status of the Hexone Tanks and what monitoring is being done?	04/09/96	Hold	Hold	Note 1
4	ERC	What is the well control for contaminants from the BC cribs, and what are the trends?	04/09/96	Hold	Hold	Note 1
5	ERC	Is there groundwater contamination associated with 200 N?	04/09/96	Hold	Hold	Note 1
6	ERC	What is currently going to B Pond, and why are there rad signs around B and C lobe?	04/09/96	05/17/96	Hold	Note 1
7	ERC	Why does a surface stabilized area exist SE of OU3 inside the fence?	04/09/96	05/17/96	Hold	Note 1
Tour Follow-on Work						
1	ERC	Is there 200 N groundwater contamination?	04/10/96	Hold	Hold	Note 1

200 Areas Source Operable Unit Strategy Action Item List - (07/09/96)

No.	Performer	Description	Date Assigned	Due Date	Date Completed	Description of Closure
2	ERC	Ditches versus trenches (and cribs; label open, closed, ???).	04/10/96	Hold	Hold	Note 1
3	ERC	Are any septic tile fields around Z Plant active?	04/10/96	04/10/96	04/10/96	Yes, there are active septic fields around Z-Plant.
4		Waste-site groupings need field review to see how they fit (reality check).	04/10/96	Hold	Hold	Incorporate as part of technical document or work plan work. Note 1
5	DOE	B/C controlled area "risk" with windy season coming up and other surface contamination issues in the 200 Areas.	04/10/96	TBD	Hold	Note 1
Characterization Action Items						
1	ERC	How is first cycle supernatant related to high-level waste definitions? (ERC)	04/08/96	05/08/96	06/06/96	
2	ERC	Where did the muck removed from 361 tanks go? (ERC)	04/08/96	05/08/96	06/06/96	
3	ERC	Is A-39 in the tank farm? (ERC)	04/08/96	05/08/96	06/06/96	
4	ERC	Where is A-43 and A-44? (ERC)	04/08/96	05/08/96	06/06/96	
5	ERC	Is there a new 200 E Powerhouse Pond? (ERC)	04/08/96	05/08/96	06/06/96	
6	ERC	Need additional inventory information from the miscellaneous waste group sites to subcategorize.	04/08/96	Hold	Hold	Hold pending technical document determination.

200 Areas Source Operable Unit Strategy Action Item List - (07/09/96)

No.	Performer	Description	Date Assigned	Due Date	Date Completed	Description of Closure
7	ERC	QA check on the waste-site type designations used in the grouping process (e.g., process condensate). Check with Stenner et al. (ERC)	04/08/96	Hold	Hold	Hold pending technical document determination.
8	Suzanne/Paul	Capture grouping philosophy - Narrative from subteam.	04/08/96	04/25/96	04/25/96	
General Action Items						
1	Tri-Parties	Public involvement before finalizing the 200 Areas Strategy will occur.	03/22/96	TBD	06/06/96	Strategy Document is a primary document with public review.
2	All	Any items in the workshop sourcebook that the team feels are a candidate for inclusion in the strategy should be highlighted for future consideration (have ready for field trip).	03/22/96	05/30/96	06/06/96	No items were identified.
3	All	Field trip, April 9, 1996 - RL to coordinate with Paul Beaver and Jack Donnelly. Anyone who can brief on a particular waste site/aggregate area will inform their agency's contact person. Bring lunch and sourcebook.	03/22/96	04/09/96	04/09/96	
4	All	Next meeting - April 10, 1996.	03/22/96	04/10/96	04/10/96	
5	Karl Fecht	Calculations for buffering capacity of soils (in liquid waste study).	03/21/96	03/22/96	03/22/96	Karl Fecht handed out material on 03/22/96.

200 Areas Source Operable Unit Strategy Action Item List - (07/09/96)

No.	Performer	Description	Date Assigned	Due Date	Date Completed	Description of Closure
6	All	Collect public values.	03/22/96	04/10/96	04/10/96	It was decided that public values would not be included in the Strategy Document.
7	All	Read AAMSR before field trip.	03/22/96	04/09/96	04/09/96	
8	ERC	Strategy document describe "linkage" of final grouping criteria statements.	03/22/96	05/17/96	Hold	Hold pending Strategy Document determination, respectively.
9	ERC	Provide adequate explanation of flowchart in strategy document.	03/22/96	05/17/96	Hold	Hold pending Strategy Document determination, respectively.
10	ERC	Prepare participants grid for all the meetings.	03/22/96	04/18/96	04/18/96	
11	ERC	Get the meeting minutes from this meeting out early.	03/22/96	04/01/96	04/01/96	
12	All	Each team member to review lists generated in Section 8.0 to come up with additional brainstorming ideas on implementation and prioritization. These should be sent to Joan Woolard before the meeting.	03/22/96	04/10/96	04/10/96	Brainstorming completed in 04/10/96 meeting.
13	ERC	Submit revised annotated outline before meeting.	03/22/96	04/03/96	04/03/96	Outline submitted and revised in 04/10/96 meeting.
14	All	Evaluate need for an analytical strategy. Separate document or included in strategy.	05/02/96	05/15/96	05/15/96	Part of level of characterization subteam. Analytical strategy as part of pre-work plan group.

200 Areas Source Operable Unit Strategy Action Item List - (07/09/96)

No.	Performer	Description	Date Assigned	Due Date	Date Completed	Description of Closure
15	ERC	Check to see what new information is available since the AAMRS (geophysical logging).	05/02/96	TBD	Hold	Note 1
16	ERC	Provide a copy of the analytical strategy.	05/02/96	05/08/96	05/08/96	
17	ERC	Pros/cons of work plan option 2 (strategy recommendation versus "old way").	05/02/96		06/06/96	Based on progress review.
18	ERC	Norm Hepner added to distribution list.	05/08/96	05/15/96	05/15/96	
19	ERC	Create project schedule showing work through 09/96.	05/08/96	05/22/96	06/06/96	Schedule handout.
20	ERC	Applicability of municipal landfill presumptive remedy to DOE burial grounds.	05/08/96	05/22/96	06/06/96	Closed with Kevin's handout.
21	ERC	Copy of phased response guidance.	05/08/96	05/15/96	05/15/96	
22	ERC/Ecology	Moses/Linda talk on RCRA issues.	05/08/96	05/15/96	06/06/96	Met on Tuesday 06/04/96.
23	ERC	Options evaluation factors should be reworded to capture meaning and use as a evaluation factor.	05/15/96	06/06/96	06/06/96	Technical editor added to cycle to insure meaning of statements is clear.
24	ERC	Is the Strategy Document a primary document or secondary document per TPA.	05/15/96		06/06/96	The Strategy Document is a primary document.
25	ERC	Project schedule for FY96.	05/15/96	06/04/96	06/06/96	Schedule handed out.

200 Areas Source Operable Unit Strategy Action Item List - (07/09/96)

No.	Performer	Description	Date Assigned	Due Date	Date Completed	Description of Closure
26	Ecology/EPA	Priority subgroup should look at criteria for selecting "representative" sites.	05/15/96	06/04/96	06/04/96	Priority subgroup looked at this during June 4, 1996 meeting and recommend it be handled by the Technical Document Subteam.
27	ERC	Explain what and where the "Focus Package" box on the 200 Area Implementation Flowchart can/may be used.	06/06/96	Hold	Hold	Hold pending incorporation of the focus package description discussed on July 9, 1996, into the Strategy Document, respectively.
28	Ecology/EPA	Ecology and EPA will review 06/06/96 minutes and return comments to M. J. Galgoul.	06/14/96	06/21/96	07/09/96	Minutes were signed and item was closed.
29	EPA/ERC	The EPA will schedule Doug Sherwood for a 07/11/96 video teleconference, and the ERC will schedule a video teleconference room.	06/14/96	06/21/96	07/09/96	The video conference room was scheduled by ERC for July 11, 1996. Doug Sherwood of EPA has a schedule conflict and will not attend.
30	Technical Document Subteam	Develop a straw conceptual model based on the 200-UP-2 OU for the team to evaluate.	06/14/96	07/09/96	06/28/96	The Technical Document subteam met on June 28, 1996, and resolved the "level of detail" issue for the conceptual model using the 200-UP-2 OU as an example.
31	Strategy Team	The strategy team was asked to review and provide comments on the characterization criteria table with the quantitative values added.	06/14/96	07/09/96	06/09/96	The strategy team determined that the characterization criteria's table should be handled by the Technical Document team members.

200 Areas Source Operable Unit Strategy Action Item List - (07/09/96)

No.	Performer	Description	Date Assigned	Due Date	Date Completed	Description of Closure
32	EPA/Ecology	Determine if a mechanism exists for RCRA acceptance of representative site data for a TSD closure.	06/14/96	TBD		
33	All team members	Team members should identify participation in cross program teams and forward by cc:Mail to Curt Wittreich.	06/14/96	06/21/96	07/09/96	Team members provided cross program participation to Curt Wittreich at the July 9, 1996 meeting.
34	Ecology	Ecology to provide clarification on the path to closure for the 216-U-12 Crib.	07/09/96	TBD		
35	Ecology	Ecology requested an action item for laying out a characterization and remediation schedule with the estimated funding support.	07/09/96	TBD		

200 Areas Source Operable Unit Strategy Parking Lot Items - (07/09/96)

No.	Description	Date Assigned	Date Closed	Status	Description of Closure
1	100 mrem/yr basis - April 10th?	03/22/96		Linked with Item 3.	Try for next meeting after Item 3 discussion.
2	Presumptive remedies.	03/22/96	05/08/96		Consensus on integration with strategy document received.
3	Land use (industrial standard) - April 10th. <ul style="list-style-type: none"> • Does characterization drive land use or does land use drive characterization? • Does characterization drive remedial decisions or does remedial decision drive characterization? 	03/22/96		Elevated to decision-makers.	Meeting held 05/09/96 with Dave Lundstrom, Paul Beaver, Bryan Foley, and Doug Sherwood. Proposed language for an assumption was discussed. Revised assumption will be provided to all participants for further consideration. Issue still open.
					Will be considered during technical document development.
4	Groundwater versus source correlations?	03/22/96	06/06/96		Prioritization issue. Hold pending priority discussion.
5	Consider waste site deletion candidates. (Do we know enough about some sites now to drop from further consideration?)	03/22/96	05/08/96		Waste site reclassification approach accepted.
6	Put remedial alternatives section in strategy document?	03/22/96	05/08/96		Outline addresses this approved.
7	Possible addition to assumptions list (from Suzanne Dahl). <ul style="list-style-type: none"> • Strategy actions must be considered against sitewide cumulative risk. 	03/22/96	06/06/96	Closed	
8	Waste disposal for the 200 Areas - April 10th.	03/22/96		07/09/96	A new assumption was added to the Strategy Document to cover 200 Areas waste disposal.

200 Areas Source Operable Unit Strategy Parking Lot Items - (07/09/96)

No.	Description	Date Assigned	Date Closed	Status	Description of Closure
9	Scope of the technical document. How much data evaluation is needed and what belongs in the technical document versus the work plans. Geophysical logs and groundwater data, conceptual models.	05/03/96	05/15/96		Assign to pre-subteam and present to full team. Description of closure level of characterization. Subteam established generic technical document scope and defer the level of detail to the technical document working team.
10	Interim versus final action.	05/03/96	05/08/96		Deleted.
11	Level of risk assessment and characterization.	05/03/96	06/06/96		Assign to subteam and present to full team.
12	Include schedule in strategy document.	05/13/96	06/06/96		Based on agreement that schedule is in strategy document.
13	Resolve issues associated with no present FY 1997 funding for 200-UP-2 and 216-U-12 closure.	06/14/96	07/09/96	Closed	RL agreed to request carryover of FY96 funding to complete the FFS and proposed plan.

037808

Distribution
Unit Managers' Meeting: 200 Areas Remedial Action
200 Areas Remedial Action Strategy Work Shop
July 9, 1996

Bryan Foley	DOE-RL (H0-12)
Jim Hanson	DOE-RL (H0-12)
Heather Trumble	DOE-RL (H0-12)
Donna Wanek	DOE-RL (H0-12)
Dennis Faulk	EPA (B5-01)
Paul Beaver	EPA (B5-01)
Joan Bartz	(Ecology) B5-18
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