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Final

Meeting Minutes Transmittal/Approval
 Unit Manager's Meeting: 200-BP-1 Operable Unit
 450 Hills Street, Richland, WA
 October 22, 1992

FROM/APPROVAL: Allan C. Harris Date 11/19/92
 Allan C. Harris, 200-BP-1 Unit Manager, RL (A5-19)

APPROVAL: Paul R. Beaver Date 11/19/92
 Paul R. Beaver, 200-BP-1 Unit Manager, EPA (B5-01)

APPROVAL: Nancy Goswami Date 11/19/92
 Dib Goswami, 200-BP-1 Unit Manager, WA Department of Ecology

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

- Attachment #1 - Meeting Summary/Summary of Commitments and Agreements
- Attachment #2 - Attendance List
- Attachment #3 - Agenda for the Meeting
- Attachment #4 - Status of Action Items
- Attachment #5 - 200-BP-1 Action Item 2BP.54 Groundwater Modeling Applications
- Attachment #6 - 200-BP-1 RI Activities
- Attachment #7 - 200-BP-1 Phase I RI Report



Prepared by: Suzanne Clarke Date: 11/19/92
 Suzanne Clarke, Kay Kimmel, GSSC (A4-35)

Concurrence by: Mark Buckmaster Date: 11/19/92
 Mark Buckmaster, WHC(RI) Coordinator (H4-55)

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Attachment #1

Meeting Summary and Summary of Commitments and Agreements
Unit Manager's Meeting: 200-BP-1 Operable Unit
October 22, 1992

1. SIGNING OF THE SEPTEMBER 200-BP-1 MEETING MINUTES:

Minutes from the September meeting were reviewed and approved after two deletions to the distribution list.

2. ACTION ITEM UPDATE: (See Attachment 4 for status)

2BP.54 Closed 10/07/92. Information was submitted to RL and the regulators.
M. Buckmaster

3. NEW ACTION ITEMS (INITIATED October 22, 1992):

2BP.55 Provide data concerning the leak detection test (task described in the 200-BP-1
Ken Hoffmann Work Plan). In addition, provide information concerning the type of waste
transported via this pipeline.

4. STATUS OF REMEDIAL INVESTIGATION TASKS:

- o Mark Buckmaster presented the remedial investigation activities (see attachment #6).

5. INFORMATION ITEMS

- o Ken Hoffmann discussed groundwater modeling applications (attachment #5). The specific applications where groundwater modeling codes other than PORFLOW-3 or VAM-3D were acceptable to EPA were discussed under 29-01 Milestone. The specific applications use of the Golder groundwater computer code and the feasibility of including groundwater in the Risk Assessment for the 200-BP-1 RI/FS report were discussed. A meeting scheduled for Monday, October 26, 1992 will discuss utilization of the Golder groundwater modeling code for the risk assessment to be included in the RI/FS Report.
- o NOTE: There have been two action items labeled 2BP.54. One closed on 10/07/92, the other closed on 06/25/92.

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Attachment #2

200-BP-1 Operable Unit Manager's Meeting
Official Attendance Record
October 22, 1992

Please print clearly and use black ink

PRINTED NAME	SIGNATURE	ORGANIZATION	O.U. ROLE	TELEPHONE
KAY KIMMEL	Kay Kimmel	SWEC	GSJC	509-372-0610
Suzanne Clarke	Suzanne Clarke	SWEC	GSJC to RL	509-372-0650
Allan C. Harris	Allan C. Harris	DoE	O.U. Manager	509-376-4339
Douglas Marell	Doug Marell	Coalder Assoc.	RI/FS Report	(206)883-0777
Hal Denny	H. D. Denny	WTR	ER Program	509-376-5539
Dib Goswami	Dib Goswami	Ecology	Envl Mgr.	509-546-4301
Richard Carlson	RA Carlson	WTR	200/300 Area RE Mgr.	509 376-9027
Ken Hoffmann	Ken Hoffmann	WTR	Dist. Scientist	509-376-3725
Len Collard	L. B. Collard	WTR	modeling	(509)376-1032
Paul Beaver	Paul Beaver	EPA	Unit Mgr	6-865
Edward Staubitz	Edward Staubitz	USGS	EPA Support	(206)593-6510
Lanie Swenson	Lanie Swenson	Coalder Assoc.	RI/FS Report	206 883-0777
Steven Clark	Steven Clark	WTR	Risk Assessment	376-1513
Andree DeAngelis	Andree DeAngelis	PRC	EPA Support	206-624-2692
Joseph Mollusky	Joseph Mollusky	PRC	" "	206-624-2692
Diana SICKLE	Diana Sickle	WTR	ER Program	372-3141
Chuck CLINE	Charles S. Cline	Ecology	Ecology support	(206)438-7556
Richard Hibbard	Richard Hibbard	Ecology	SUPPORT	(206)493-9367
RC SMITH	RC Smith	WTR	OSM	373-3507
JA Lerch	JA Lerch	WTR	OSM	373-3419
Bill Kane	William F. Kane	Parametrix	Ecology Support	206-822-8880
Jon Sprecher	Jon Sprecher	Brown & Caldwell	Ecology Support	(503)244-7005

200-BP-1 UNIT MANAGERS MEETING AGENDA
OCTOBER 22, 1992
1:00-1:30 PM
450 HILLS ST., ROOM 47

Introduction:

Status:

Action Items:

- o Groundwater modeling

Work Plan Changes:

Remedial Investigation:

- o Well Remediation
- o Sorption/Column Leach Testing
- o Leak Detection Testing
- o Groundwater Sampling
- o RI Report

Issues:

Agreements and Commitments:

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ACTION ITEMS

ACTION ITEM NUMBER	ACTION	STATUS
2BP.54	Provide by Oct. 7, information on how groundwater modeling will be used in the 200-BP-1 risk assessment. Action: Buckmaster (9/23/92)	Action: Closed. Information was submitted to DOE-RL and the regulators on Oct. 7, 1992.

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200-BP-1 ACTION ITEM 2BP.54
GROUNDWATER MODELING APPLICATIONS

During the September 1992 200-BP-1 Unit Managers Meeting, groundwater modeling was discussed to support the baseline risk assessment. As a result, action item 2BP.54 was assigned to M. A. Buckmaster to provide information on how modeling will be used in the risk assessment. The following is a brief description on planned work scope.

The EPA issued a letter on September 16, 1992 directing the DOE-RL to use groundwater from the 699-50-53A well as the risk assessment exposure point. It has been agreed that this scenario will be incorporated into the final 200-BP-1 risk assessment.

To accurately predict future contaminant transport, numerical modeling will be used to support the baseline risk assessment. Modeling will be used to determine dispersion and decay of contaminants at the 699-50-53A well for the 2018 and 2118 scenarios. The knowledge is necessary to evaluate which contaminants exceed regulatory limits and risk-based threshold concentrations at the potential receptor site and predict the dose a receptor might receive from exposure to these contaminants. The following have been preliminarily identified as requiring transport modeling: cobalt-60, cyanide, technetium-99, nickel, tributyl phosphate, and uranium.

Due to the limited time remaining to prepare the 200-BP-1 Phase I RI report, the Golder Groundwater computer code will be used to support the risk assessment. The existing model has been used extensively to model groundwater flow and contaminant transport at the Hanford Site, and has received verification for those tasks. The various reports which document the use and verification of the code are available on request. If the EPA feels it would be beneficial to own the Golder computer code, a complementary copy is available.

In addition to the 699-50-53A site, optional exposure points will be evaluated to support future land use decisions. The current Golder computer code will be used to determine areas of potential receptor exposure to contaminated groundwater at West Lake and portions of the Columbia River.

Additional groundwater modeling will be initiated by Westinghouse Hanford in the future under auspices of a 200 East Area groundwater operable unit as recommended in the 200 East Area groundwater AAMS. Final fate and transport of contaminants will be evaluated when the new modeling is performed.

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200-BP-1 RI ACTIVITIES

Well Remediation:

- o Remediation activities have been completed on all 200-BP-1 Wells.

Sorption Testing:

- o Batch sorption testing is scheduled to be completed in November.

Column Leach Testing:

- o Analysis has been completed except for Sr-90 and Pu. Data packages are scheduled to be submitted by the end of November.

Leak Detection Testing:

- o Nonintrusive ultrasonic testing indicated 1 of the 4 inch pipelines contained liquid. Estimated 620 gallons of liquid may still be present in the pipeline.
- o Testing on the remaining pipelines is scheduled to be completed by the end of next week.

Groundwater Sampling:

- o The second semiannual groundwater sampling event has been completed. Five wells (299-E33-12, 15, 18, 24, 699-52-57) were not sampled due to well remediation activities and possible pump malfunctions. These wells will be sampled in January 1993 (third round semiannual sampling).

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200-BP-1 Phase I RI Report

Data Evaluation:

- o Source Data and Evaluation
- o Groundwater Data and Evaluation
- o Geologic and Hydrologic Data and Interpretation

Risk Assessment:

- o No Groundwater evaluation
- o Source Evaluation
- o Vadose Modeling to evaluate impact to the Aquifer
- o Risk Assessment Scenarios

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SCENARIO	ON-OU			ON-HANFORD SITE			OFF-HANFORD SITE			RATIONALE FOR EVALUATION
	Current	2018	2118	Current	2018	2118	Current	2018	2118	
Industrial	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	The OU vicinity is an active industrial area; therefore, evaluation of an on-OU industrial scenario under both current and future conditions is appropriate. The evaluation of potential exposures at other Hanford Site areas would be important for the air pathway because of the other work areas near 200-BP-1. Groundwater, as a potential industrial exposure, would be important if there is groundwater use downgradient from the area.
Residential	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Given that the OU vicinity is an active industrial area and the potential for the 200 Area to be the site of the macro landfill, it is not appropriate to evaluate residential scenarios on the OU or on the Hanford Site. Off-Hanford Site residential exposures should be evaluated for the air pathway. The groundwater to river and then to an off-Site resident should also be considered. The water pathways would require modeling from soil to groundwater to river and downriver to the City of Richland water intake.
Recreational	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Given that the OU vicinity is an active industrial area and the potential for the 200 Area to be the site of the macro landfill, it is not appropriate to evaluate residential scenarios on the OU or on the Hanford Site. The recreational scenario should be evaluated for off-Hanford Site recreational receptors because mobile media (e.g., air and groundwater to river) could be impacted and contaminants could be transported to off-Site recreational receptors.
Agricultural	No	No	No	No	Yes	Yes	Yes	Yes	Yes	As with the residential scenario, there is no real likelihood of agricultural land use on the OU or the Hanford Site near the OU in the foreseeable future. The agricultural scenario is basically a residential scenario with a garden and livestock. Evaluation of this scenario would only be necessary if there is significant contamination in a mobile media that could bioconcentrate in a food chain receptor. If residential receptors off the Hanford Site are evaluated for the mobile media, sufficient information should be available to qualitatively discuss questions on exposures to potential "agricultural scenario" receptors, by analogy.

Distribution

Unit Manager's Meeting: 200-BP-1 Operable Unit
October 22, 1992

- Julie K. Erickson Chief, DOE-RL, ERD/EPB (A5-19)
- Roger D. Freeberg Chief, Rstr. Br., DOE-RL/ERD (A5-19)
- Mike Thompson DOE-RL, EAP/RPB (A5-19)
- Diane Clark DOE-RL, TSD/SSB (A5-55)
- Mary Harmon DOE-HQ (EM-442)
- Suzanne Clarke, SWEC GSSC to DOE-RL (A4-35)

- Paul Beaver 200-BP-1 Operable Unit Manager, EPA (B5-01)
- Ward Staubitz, USGS Support to EPA
- Audree DeAngeles, PRC Support to EPA

- Dib Goswami 200-BP-1 Operable Area Manager, WDOE (Kennewick)
- Larry Goldstein WDOE (Lacey)

- Lynn Albin Washington Dept. of Health

- Richard D. Wojtasek Prgm. Mgr. WHC (L4-92)
- Tom Wintczak WHC (L4-92)
- Mel Adams WHC (H4-55)
- L.D. Arnold WHC (B2-35)
- Rich Carlson WHC (H4-55)
- Mark Buckmaster WHC (H4-55)
- Diana Sickle WHC (L4-92)
- Doug Dunster Golder Associates, Support to WHC

- Chris Abraham GAO (A1-80)
- Ralph O. Patt Oregon Water Resources Department

ADMINISTRATIVE RECORD: 200-BP-1; Care of EDMC, WHC (H4-22)

This list has been updated. Please inform Suzanne Clarke (SWEC) of deletions or additions to the distribution list.

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