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April 15, 1991

Meeting Minutes Transmittal/Approval
Unit Managers Meeting: 300-FF-5 Operable Unit
450 Hills St., Room 47, Richland, WA
March 21, 1991

From/
Appvl.: Robert K. Stewart for Date: 4/17/91
K. Michael Thompson, 300-FF-5 Unit Manager, DOE-RL (A5-19)

Appvl.: David R. Einan Date: 17 Apr 91
David R. Einan, 300-FF-5 Unit Manager, EPA (B5-01)

Appvl.: Charles S. Cline Date 4/17/91
Charles S. Cline, 300-FF-5 Unit Manager, WA Department of Ecology

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

Attachment #1 - Meeting Summary/Summary of Commitments and Agreements
Attachment #2 - Meeting Agenda
Attachment #3 - Attendance List
Attachment #4 - Commitments/Agreements
Attachment #5 - 300-FF-5 Work Progress

Prepared by: [signature] Date: 4/17/91
SWEC GSSC

Concurrence by: LC Hulstrom Date: 4/17/91
WHC RI Coordinator

Distribution

Unit Managers Meeting: 300-FF-5 Operable Unit
March 21, 1991

Doug Sherwood, EPA (B5-01)
Ward Staubitz, USGS
Diane Clark, DOE-RL/SED (A5-55)
Linda Powers, WHC (B2-35)
Tom Wintczak, WHC (B2-15)
Mel Adams, WHC (H4-55)
Bill Wright, Golder
Ron Smith, PNL (K6-96)
Paul Day, EPA (B5-01)
Kaerae Parnell, WHC (H4-18)
Donna Lacombe, PRC
Larry Hulstrom, WHC (H4-55)
Don Kane, Battelle EMO (K1-74)
Wayne Johnson, WHC (H4-55)
Doug Fassett, SWEC (A4-35)

cc. Ronald D. Izatt (A6-95)
Director, DOE-RL, ERD
Steven H. Wisness (A6-95)
Proj. Mgr, Tri-Party Agrmnt.
DOE-RL/ERD
Roger D. Freeberg (A6-95)
Chief, Rstr. Br., DOE RL/ERD
Ronald E. Gerton (A6-80)
Director, DOE-RL, WMD
Richard D. Wojtasek (B2-15)
Prgm. Mgr. WHC
Mary Harmon, DOE-HQ (EM-442)

Administrative Record: 300-FF-5; care of Susan Wray, WHC (H4-51C)

Please inform Doug Fassett (SWEC) of deletions or additions to the distribution list.

Attachment #1

Meeting Summary and Summary of Commitments and Agreements

Unit Managers Meeting: 300-FF-5 Operable Unit
March 21, 1991

1. The Action Item Status List was updated by Larry Hulstrom (WHC) (also see Attachment #4).

   3FF5.12: The change request was given to Bob Stewart; it requests that the wording on geophysical logging in the work plan be deleted and new language inserted. The revised plan proposes the use of gross gamma logging for the outer boreholes and spectral gamma logging for the inner boreholes where uranium contamination is known. Both gross gamma and spectral gamma would be run in two of the outer boreholes for correlation purposes. The PNL procedure for gross gamma ray logging may be transferred to an Environmental Investigation Instruction.

   3FF5.13: The meeting to discuss the well sampling and analyses plan is tentatively scheduled for 4/10/91 at 9:00 am. Donna Lacombe (PRC) requested that data packages be provided in advance for examination. Doug Sherwood (EPA) suggested that RCRA Annual Reports on the 300 Area Process Trenches would have much of the data.

2. Work progress was presented by Larry Hulstrom (see Attachment #5). Additional discussion is provided below.

   Task 4b: There is a correction to the statement that the soil gas survey of the 618-9 Burial Ground has been deferred until FY 1992. In fact this survey has already been completed.

   Task 4c: A presentation on groundwater modeling will be made at the April UMM.

3. Other Topics:

   PNL has requested to take a sample from borehole #4 for their Microbiological Characterization Program if it does not impact on the drilling program.

   Table 1 of the work plan showed that all of the analyses of groundwater samples would be done to Level 3 QC standards. The table is footnoted to indicate that the table would be revised after a laboratory was contracted for the work. A change request will be submitted to revise Table 1 to accommodate use of a CLP Laboratory.

Attachment #2

Agenda

Unit Managers Meeting: 300-FF-5 Operable Unit
March 21, 1991

Introduction:

Status:

- Action Items
- Work Plan
- Remedial Investigation
- Schedule

Issues:

- Water Chemistry, water level and temperature monitoring, fitness for use information, and use of existing data impacts on 300-FF-5

Other Topics:

- Coordination with PNL's Microbiological Characterization Program
- Analytical Levels for Analysis of Groundwater Samples

Agreements and Commitments

Presenter - Larry Hulstrom

Attachment #3

Attendance List
300-FF-1/FF-5 Operable Unit Managers Meeting
March 21, 1990

Name	Organization	Role	Phone
Smith, Ron	Battelle	300-FF-5 Support	(509) 376-5831
Stewart, Bob	DOE-RL	Unit Manager	(509) 376-6192
Shafer, David S.	DOE-RL	DOE OU Manager	(509) 376-7167
Cline, Chuck	Ecology	Geohydrology	(206) 438-7556
Goldstein, Larry	Ecology	Unit Manager	(209) 438-7018
Hibbard, Rich	Ecology	CERCLA Unit Manager	(206) 493-9367
Einan, Dave	EPA	Unit Manager	(509) 376-3883
LaCombe, Donna	PRC	EPA Contractor	(206) 624-2962
Collins, Carol	SWEC	GSSC/DOE-RL	(509) 376-1009
Fassett, Doug	SWEC	GSSC/DOE-RL	(509) 376-9969
Fryer, Bill	SWEC	GSSC/DOE-RL	(509) 376-9830
Carlson, Rich	WHC	Env. Eng.	(509) 376-9027
Gustafson, Frank	WHC	RAS Env. Eng	(509) 376-1736
Hulstrom, L. C.	WHC	Tech. Coord.	(509) 376-4034
McKaans, Tony	WHC	Env. Eng.	(509) 376-6074
Pursley, Dan	WHC	Projects	(509) 376-9792
Simpson, Reed	WHC	GeoSci. Coor.	(509) 376-1097
Drost, Brian	USGS	EPA Support	(206) 539-6510

Attachment #4

Commitments/Agreements Status List

300-FF-5 Operable Unit
March 21, 1991

Item No.	Action	Status
3FF5.10	Provide EPA with a written summary of the impacts of the lack of funding on the scope of work and schedule. Action: LC Hulstrom (12/19/90).	Open Still in progress
3FF5.11	Investigate adding temperature measurement capability to the data acquisition/logging system to be installed in the monitoring wells. This capability would be added only to those wells located near the river and completed in the top of the aquifer. Action: L. Hulstrom (WHC) (1/24/91)	Closed Capability exists; procurement will begin as soon as the number of monitoring wells is finalized.
3FF5.12	Prepare a change request to modify the geophysical borehole logging section of the work plan to conform with available logging capabilities. Action: L. Hulstrom (2/21/91)	Closed Change request presented for approval at 3/21 UMM.
3FF5.13	Schedule a meeting with DOE, EPA and Ecology to review the proposed well sampling and analysis plan before the March UMM. Discuss reduction of the number of wells to be sampled and parameters to be analyzed. The plan will be reviewed based on the useability of existing data from monitoring wells. Action: L. Hulstrom (2/21/91)	Open Meeting to be scheduled at the 3/21 UMM.

March 21, 1991

0 Work Plan

- All work associated with this activity has been completed.

0 Remedial Investigation Activities

GENERAL

NOTE: The latest guidance from the Environmental Restoration Program office places the funding level for FY 1991 300-FF-5 activities at 5.83 million dollars.

Well Drilling

Well Specifications for Tasks 2, 3, and 4

Includes Borehole Sealing specifications, and drilling and well specifications.

Comments from the USGS via the EPA on the draft document were received on March 8 and are being incorporated; they will also be formally dispositioned. The document should be ready for final printing on about March 27.

Notification was received from DOE on March 14 that the NEPA documentation process has not been completed, therefore the start of drilling has been delayed until at least April 17.

The draft KEH drilling schedule received March 15 is being revised; cost estimates for materials have been received by WHC Projects; the HWOP for the drilling activities was due to WHC on March 20; a final approved cost and schedule estimate is due to WHC on April 1.

A meeting was held on February 25 with WHC Safety regarding the need for safety documentation. With regard to generic activities common to all operable units and in particular to the background groundwater well installations a letter was sent to WHC Safety on March 8. Verbal indications as of March 19 indicate that these background wells would not require additional documentation.

Groundwater Monitoring Wells

With the use of cluster sites the REVISED tentative priority for drilling will include the following (in a phased approach, dependent on funding): Priority 1: (18 wells) 4ABC, 7ABC, 2ABC, 8ABC, 1ABC, and 3ABC for background and plume delineation; deep wells (C) drilled first with cable tool methods, followed by B wells, followed by A wells drilled with sonic drilling techniques; coordinate Wells 7ABC, and 8ABC with 1100-EM-1 Phase 2 RI data. NOTE: It is possible that this is as many wells as can be installed this fiscal year.

0 Remedial Investigation Activities (continued)

Groundwater Monitoring Wells - continued

If funding and drill rigs are available additional wells will be installed in the following sequence: (6 wells) 6AB, 9AB, 1-10B, and 1-13B for tracer, DNAPL, and U plume delineation; Priority 2: (3 wells) Wells 1-7B, 1-14B, 8-3B to complete DNAPL well network; Priority 3: (4 wells) Wells 5A,B, 5C, and 6C for downgradient monitoring of the burial grounds and monitoring of the confined aquifer.

Geologic Characterization Wells

Deferred until FY 1992

Pumping Wells

Not scheduled until FY 1992

Existing Well Maintenance

To be performed on approximately 27 wells; includes field inspections, camera survey, and as required, scrubbing, debris removal, bailing, development, final camera survey, and sampling pump installation. This does not include new surface preparation. **As of February 2, 1991 all 27 wells have been completed. Draft "Fitness for Use" documentation was provided to DOE/RL for transmittal to the regulators on February 26.**

Task 1--Source Investigation

(Conducted in Source Operable Units)

Task 2--Geologic Investigation

Task 2a - Geophysical Surveys

Of 10 transect lines 6 have been positioned. Of those, 2 have had electromagnetic induction data surveys completed. Acquisition of GPR data is presently somewhat behind schedule due to commitments in other OUs, but will receive greater attention in the coming weeks. Seismic equipment is still being received. Personnel from the WHC Geophysics Team attended a training class related to seismic techniques.

0 Remedial Investigation Activities (continued)

Task 2--Geologic Investigation - continued

Task 2b - 300-FF-5 Wide Geological Characterization

Deferred since borings are also deferred; some analysis will be obtained from geologic and geophysical logging (spectral gamma and gross gamma) of newly installed groundwater wells. Gross gamma will be utilized for lithologic determinations in the majority of the outer perimeter wells, whereas spectral gamma will be utilized for the interior wells or other locations where groundwater contamination is expected. In addition, two of the perimeter wells will also be logged with spectral gamma to aid in formulation of a correlation between the two methods.

Task 3--Soil Investigation

Surface Radiation Survey

Preparations are underway to have surface radiation surveys conducted around the well installation sites.

Soil Sampling and Analysis

Some chemical analysis (see Table 35) and physical testing (see Table 31) to be performed; includes some leach and adsorption tests if samples are found to be contaminated. A sampling team has been assembled and plans are being made to facilitate analysis of samples as they become available. It is unlikely that leach and adsorption tests will be conducted this fiscal year since the new well constructions are anticipated to be in uncontaminated areas.

Task 4--Groundwater Investigation

Task 4a - Hydrostratigraphy

Ongoing with the use of existing data gathered from the RI; incomplete until all well installations have been completed.

Task 4b - Contaminant Distribution in Soil and Groundwater

Soil gas surveys of 618-9 Burial Ground and the 300 Area Solvent Evaporator have been deferred until FY 1992. The soil gas survey of the 618-9 Burial Ground is being performed as part of the Expedited Response Action.

Groundwater sampling of existing wells will be initiated as soon as it has been determined which wells will be sampled, and which constituents need to be analyzed for. The use of existing data from RCRA compliant wells and other existing wells in the 300 Area is being explored. New wells once installed will be sampled and analyzed for the full list of tests defined in the work plan. The three remaining sampling rounds will be performed in FY 1992 for a reduced list of contaminants.

0 Remedial Investigation Activities (continued)

Task 4c - Hydraulic Properties

Hydraulic heads will be measured via water level measurements; data loggers, transducers, radios, and a base station will be procured, and installed, along with the possible upgrading of two river gauging stations. Pumping well for aquifer tests are not scheduled until FY1992. Tracer tests have been deferred until FY1992, however the test specifications will be written in FY1991. **Vendor proposals were received on 1/14/91; Contract award was made on February 27; the initial arrival of equipment should be around April 1 with the remainder to be delivered by mid May.**

Task 4d - Aquifer Intercommunication

399-1-16C RCRA vs CERCLA needs to be defined.

As of 3/20/91 the WHC Env. Field Services group has acquired all background data necessary to begin preparation of an action plan for this well. The RI Coordinator has requested that this activity be expedited and be made available for review as soon as possible.

Task 4e - Groundwater Modeling

Numerical modeling will be initiated to set up the boundary conditions and grids for CFEST (or other equivalent modeling code), inverse modeling will be initiated to develop a transient inverse version of the code used, and a Pre-Tracer Test analysis will be performed to model the planned tracer tests.

Personnel from the WHC Environmental Technology, Risk & Performance Assessment Group continue to develop the PORFLO-3 model for use in the 300 Area. Work is progressing on schedule. A status update is suggested for the April UMM.

<u>Task 5--Surface-Water and Sediment Investigation</u>

NOTE: Consideration is being given to reactivating this task in lieu of the possibility of not being able to complete groundwater well installations.

Task 5a - Relative Data Compilation

Deferred until FY 1992.

Task 5b - Riverbank Springs

Map and survey only; no sampling until FY 1992. Authorization has already been provided via a statement of work for PNL. The actual survey has still been delayed due to high river flow. The survey will take place when the river levels decrease. The report entitled "1988 Hanford Riverbank Springs Characterization Report", PNL-7500, was provided at the February UMM.

0 Remedial Investigation Activities (continued)

Task 5--Surface-Water and Sediment Investigation (continued)

Task 5c - Near Shore River Water and Sediment

Deferred until FY 1992.

Task 5d - Transect River Water

Deferred until FY 1992. **Coordination with the L-045 Project for the Process Sewer effluent treatment facility may provide some of this information since they require this information for the NPDES permit.**

Task 5e - River Stage

Deferred until FY 1992. Some data from Task 4c possible.

Task 5f - Boundary Conditions Along the Columbia River

Scheduled for FY 1992, if required.

Task 5g - Numerical Algorithms for Groundwater to Surface Water Dispersion

Scheduled for FY 1992, if required.

Task 6--Air Investigation

(Conducted in Source Operable Units and in coordination with well drilling activities.)

Task 7--Biota Investigations

Deferred until FY 1992. **NOTE: Consideration is being given to reactivating this task in lieu of the possibility of not being able to complete groundwater well installations.**

Task 8--Data Evaluation

Performed with data available from the RI when gathered, and supplemented as new information becomes available.

Task 9--Baseline Risk Assessment

Possible delay in completion of activity of 4 months due to lack of funding in FY 1991.

0 Remedial Investigation Activities (continued)

Task 10--Preliminary Site Characterization Summary Report

Task 10a - Draft Report
Task 10b - Final Report

Possible delay in this milestone of 4 months due to lack of funding in FY 1991.

Phase 1 Feasibility Study - Remedial Alternatives Development

Deferred until FY 1992; possibility that this will be performed in conjunction with the 300-FF-1 FS and generate only 1 document. This is also delayed by 4 months from the original date due to lack of funding in FY 1991.

0 Schedule

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