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February 25, 1992

Meeting Minutes Transmittal/Approval
Status of 200 AAMS Activities
450 Hills Street, Rm 47
January 23, 1992

From/ Appvl.: Allan Harris Date: 2-26-92
Allan Harris, 200 Aggregate Area Unit Manager, RL (A5-19)

Appvl.: Doug Sherwood Date: 26 Feb 92
Doug Sherwood, 200 Aggregate Area Unit Manager, EPA (B5-01)

Appvl.: Larry Goldstein Date: 3/25/92
Larry Goldstein, 200 Aggregate Area Unit Manager, WA Dept of Ecology

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

- Attachment #1 - Meeting Summary/Summary of Commitments and Agreements
- Attachment #2 - Agenda
- Attachment #3 - Attendance
- Attachment #4 - Decisions, Agreements & Commitments
- Attachment #5 - Action Item Status List
- Attachment #6 - 200 Aggregate Area Management Study Program
- Attachment #7 - 200 AAMS Geophysical Logging and Groundwater Sampling Field Activities Update
- Attachment #8 - Borehole Spectral Logging Integrated Schedule

Prepared by: William J. Taylor Date: 3/25/92
GSSC

Concurrence by: Mike Yates Date: 2/26/92
WHC RI Coordinator



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Attachment #1

Meeting Summary and Summary of Commitments and Agreements

Status of 200 AAMS Activities
January 23, 1992

1. The meeting was called to order by Mr. Allan Harris (DOE).

Action Item Update

2. The outstanding action items were not updated (see Attachment #5).

Decisions, Agreements & Commitments

3. Based upon the results of the U Plant Aggregate Area Management Study, the scope of the alternative work plan for the 200-UP-2 Operable Unit should consist of the source operable unit except for the U-14 Ditch System. The U-14 Ditch System would more appropriately be included in 200-UP-1 where the entire U Pond system could be dealt with as a unit. The groundwater portion of 200-UP-2 will be reassigned to an operable unit after the 200 West Groundwater Aggregate Area study is completed. The agreement to do this is dated January 23, 1992 (see Attachment #4).

200 Aggregate Area Management Study Work Progress

4. Curt Wittreich (WHC) presented an update on the status of the 200 Aggregate Area Management Study (AAMS) program (see Attachment #6). Topical reports (Chapter 2 of the AAMS Report) *that are being generated to support the AAMS program* are outlined in Attachment #6. TPA (Tri-Party Agreement) interim milestone M-12-15 of the 1991 TPA change package requires the submission of the 200-UP-2 work plan by *June 1992*. It was agreed that the scope of the work plan be reduced by removing the source and groundwater studies in order to maintain the milestone schedule.
5. Bruce Ford (WHC) presented an update on the status of the 200 AAMS groundwater sampling program (see Attachment #7). Phase I of the groundwater sampling program (Oct. 1991 - Dec. 1991) has been completed. Samples have been submitted for analysis. Phase II sampling is to begin in February 1992. There are 80 existing wells that are being studied in the fitness for use evaluation that is to be completed in the first week of February 1992. So far ten wells have been identified for rehabilitation. These wells *are intended to be put back into service to support the groundwater sampling program*. All 80 wells will be sampled during FY 92. RCRA and CERCLA groundwater monitoring programs are managed by WHC. The site-wide groundwater sampling program is conducted by PNL.
6. Jack W. Fassett (WHC) presented an update on the 200 AAMS spectral borehole logging program (see Attachment #8). The schedule has slipped about three weeks as a result of two events. First, the Radiological Logging System (RLS) unit *has had technical difficulties*. The logging tool was sent back to the

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manufacturer to be repaired. The unit is now functioning normally.

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Second, the demands for RLS services at other operable units (HWVP, C-018H & 100 Areas) have *overburdened* the logging program. The acquisition of a second RLS unit was suggested as a means of maintaining the schedule.

7. A number of *RL* assumptions for a modified schedule were presented. The proposals included the following items: not more than 78 boreholes would be logged in the 200 aggregate area, not more than 32 boreholes would be logged in the 100 aggregate area, 200-BP-1 boreholes would be reduced to one borehole per crib, unscheduled work would be minimized, three boreholes would be logged per week per RLS system, no major malfunctions would occur in the RLS system, additional resources would be employed, implementation of the field program would be flexible, and two six-day work weeks would be scheduled each month.
8. Additional resources required to maintain the logging program schedule would include the following items: a second RLS logging unit and crew would be added, overtime and double shifts would be approved and scheduled, a work order for a log analyst would be approved, and the log analyst would be identified and hired.
9. The required flexibility in implementation of the field logging program assumes that all uncontaminated holes would be logged first. The in-hole logging program would be rescoped to include the following items: only contaminated zones would be thoroughly logged, the remainder of the hole would be spot checked, results would be correlated with other gamma ray logs, and gross gamma ray logs would be rerun as necessary.
10. Mr. Fassett (WHC) stated the final topical report on the geophysical field areas would be delayed. In addition, unscheduled work would be limited to not more than 31 wells for the remainder of FY 92.

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Attachment #2

Agenda

Status of 200 AAMS Activities
January 23, 1992

200 AAMS Activities

Status of Ongoing AAMSRs

Status of Topical Reports

Status of Field Programs:

Groundwater Well Sampling
Geophysical Logging

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Attachment #3

Attendance List

Status of 200 AAMS Activities January 23, 1992

<u>Name</u>	<u>Org.</u>	<u>O.U. Role</u>	<u>Phone</u>
Harris, Allan	DOE-RL	OU Manager	509-376-4339
Cline, Chuck	Ecology	Hydrogeology	206-438-7556
Teel, Darci	Ecology	CERCLA	509-545-2312
Hibbard, Rich	Ecology	CERCLA Unit	206-493-9367
Cross, Steve	Ecology	CERCLA	206-459-6675
Mauss, Billie	Ecology	CERCLA	509-546-2993
Faulk, Dennis	EPA	Unit Manager	509-376-8631
Sherwood, Doug	EPA	Unit Manager	509-376-9529
Staubitz, Ward	USGS	EPA Support	206-593-6510
Sprecher, Jon	B&C	Ecology Support	503-244-7005
McClung, Bill	SWEC	GSSC, DOE-RL	509-376-1853
Erickson, Kirth	SWEC	GSSC, DOE-RL	509-376-8189
Fryer, Bill	SWEC	GSSC, DOE-RL	509-376-9830
Fecht, Karl	WHC		509-376-2038
Fassett, Jack	WHC	Geophysics	509-376-4224
Washington, Theodore X	WHC	OSM	509-373-4369
Pool, Karl N.	WHC	OSM	509-373-3137
Downey, Hal	WHC	ER Program Office	509-376-5539
Ford, Bruce	WHC	Geosciences, AAMS	509-376-6465
Trent, Steve	WHC	Geosciences, AAMS	509-376-7226

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Attachment #5

Action Items Status List

Status of 200 Aggregate Area Activities
January 23, 1992

Item No.	Action/Source of Action	Status
2AAMS.1	Identify and implement the actions that are required to install the calibration pits for the borehole logging equipment. Action: Allan Harris (9/19/91)	Open
2AAMS.2	A map of the 200 West Area is to be provided to the regulators. All of the wells that have been located should be shown. Action: Steve Trent (WHC) (11/21/91)	Open
2AAMS.3	A discussion is to be held on the integration of the 100 Area and the 200 Aggregate Area logging programs at the meeting on 1/8/92. Action: Steve Trent (WHC) (12/17/91)	Open

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Status of 200 AAMS Activities

200 AGGREGATE AREA MANAGEMENT STUDY MEETING

-DECISIONS, AGREEMENTS, & COMMITMENTS-
January 23, 1992

AGREEMENTS

1. The scope of the alternative work plan for 200-UP-2, based upon the results of the U Plant Aggregate Area Management Study, shall consist of the source operable unit except the U-14 Ditch System.

The groundwater portion of the 200-UP-2 Operable Unit will be reassigned to an operable unit after the 200 West Groundwater Aggregate Area Management Study Report is submitted.

The 216-U-14 Ditch system will be reassigned to the 200-UP-1 Operable Unit.

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Allan C. Harris 1/23/92
RL Representative

Don Shumwood 1/23/92
EPA Representative

Charles S. Chene 1/23/92
Ecology Representative

Richard A. Carlson 1/23/92
WHC Representative

Attachment #6

200 AGGREGATE AREA MANAGEMENT STUDY PROGRAM

Status of 200 AAMS Activities
January 23, 1992

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200 AGGREGATE AREA MANAGEMENT STUDY PROGRAM

Curtis D. Wittreich
Technical Coordinator

Steven J. Trent
Field Activities Coordinator

January 23, 1992

9 2 1 2 5 7 6 0 0 6 7

Status 200 Aggregate Area Management Study Program

01/23/92

Area	Aggregate Area	AAMS Type	Technical Baseline Report	AAMS Report	M-27-00 Milestones
200 West	U Plant	Source	Completed	Drafted-On Schedule	1/92
	Z Plant	Source	Completed	Drafted-On Schedule	2/92
	S Plant	Source	Completed	Drafted-On Schedule	3/92
	T Plant	Source	Completed	On Schedule	4/92
	200 West	Ground Water	NA	On Schedule	9/92
200 East	PUREX	Source	Completed		5/92
	B Plant	Source	Completed		6/92
	Semi-Works	Source	On Schedule		7/92
	200 East	Ground Water	NA		9/92
200 North	200 North	Source	On Schedule		8/92

200 Aggregate Area Management Study Topical Reports

- **Technical Baseline Reports (WHC internal)**
 - source aggregate area basis
- **Geologic and Geophysics Data Packages**
 - source aggregate area basis
- **Hydrologic Data Packages**
 - 200 West
 - 200 East
- **Geologic Setting - Update Reports**
 - 200 West
 - 200 East
- **Hydrogeologic Model Reports (saturated and unsaturated)**
 - 200 West
 - 200 East
- **Spectral Logging Field Investigation Reports**
 - 200 West
 - 200 East
- **Groundwater Monitoring Field Investigation Report**
 - 200 Areas

Interim Milestone M-12-15

- "Submit 200-UP-2 Operable Unit Work Plan (source and groundwater operable unit), or an agreed upon alternate work plan based on results of the U-Plant Aggregate Area Management Study"
- Work Plan Scope Alternatives
 - Downscope to exclude:
 - groundwater
 - * Downscope to exclude:
 - U-14 Ditch System (include in UP-1 OU)
 - groundwater
 - Downscope to exclude:
 - U-14 Ditch System (include in UP-1 OU)
 - groundwater
 - UPR and septic tank systems (new UP-4 OU)
 - Defer scope decisions to October 1992
 - defer M-12-15 into 1993
 - Modify scope:
 - include 200-UP-1
 - exclude groundwater

Attachment #7

200 AAMS GEOPHYSICAL LOGGING AND GROUNDWATER SAMPLING FIELD ACTIVITIES UPDATE

**Status of 200 AAMS Activities
January 23, 1992**

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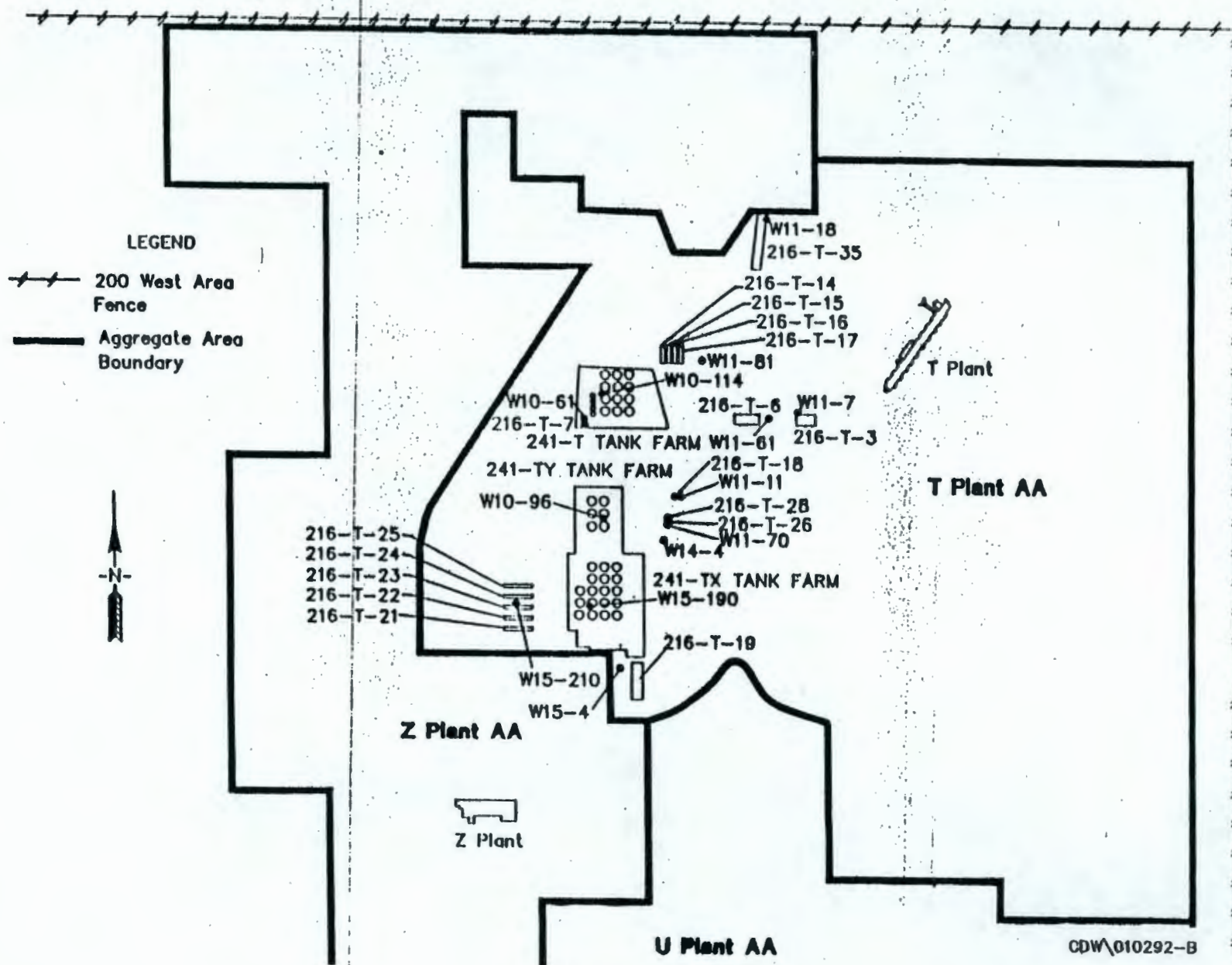
**200 AAMS
GEOPHYSICAL LOGGING AND
GROUNDWATER SAMPLING
FIELD ACTIVITIES UPDATE**

1/21/01
PAGE 1

GEOPHYSICS

● T PLANT SAMPLING AND ANALYSIS PLAN APPENDIX COMPLETED

WELL	FACILITY
200-W10-114	T TANK FARM
200-W15-190	TX TANK FARM
200-W10-98	TY TANK FARM
200-W11-81	210-T-14:17 CRIBS
200-W11-11	210-T-18 CRIB
200-W15-4	210-T-19 CRIB
200-W15-210	210-T-21:24 CRIBS
200-W11-70	210-T-26 CRIB
200-W14-4	210-T-28 CRIB
200-W11-7	210-T-3 CRIB
200-W11-18	210-T-35 CRIB
200-W11-61	210-T-6 CRIB
200-W10-61	210-T-7 CRIB



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GEOPHYSICS (CONTINUED)

● SPECTRAL GAMMA-RAY LOGGING COMPLETED TO DATE:

299-W22-75	216-S-21 CRIB	U PLANT
299-W23-4	216-U-12 CRIB	U PLANT
299-W19-9	216-U-2 CRIB	U PLANT
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299-W26-1	216-S-5 CRIB	S PLANT
299-W22-32	216-S-7 CRIB	S PLANT
299-W22-74	216-S-20 CRIB	S PLANT

GEOPHYSICS (CONTINUED)

● 200 AAMS SPECTRAL GAMMA-RAY LOGGING SCHEDULE DELAYS:

- ☐ **MALFUNCTIONING GERMANIUM DETECTOR; SENT BACK TO
MANUFACTURER FOR REPAIR**
- ☐ **SIGNAL AMPLIFIER FAILURE; REPLACED UNIT**
- ☐ **OPTICAL DISK DRIVE FAILURE; REPLACED UNIT**
- ☐ **VARIOUS MECHANICAL PROBLEMS WITH THE LOGGING TRUCK**
- ☐ **INCREASED WORK SCOPE OF OTHER PROGRAMS REQUIRING
SPECTRAL GAMMA-RAY LOGGING CAPABILITIES**

GROUNDWATER SAMPLING

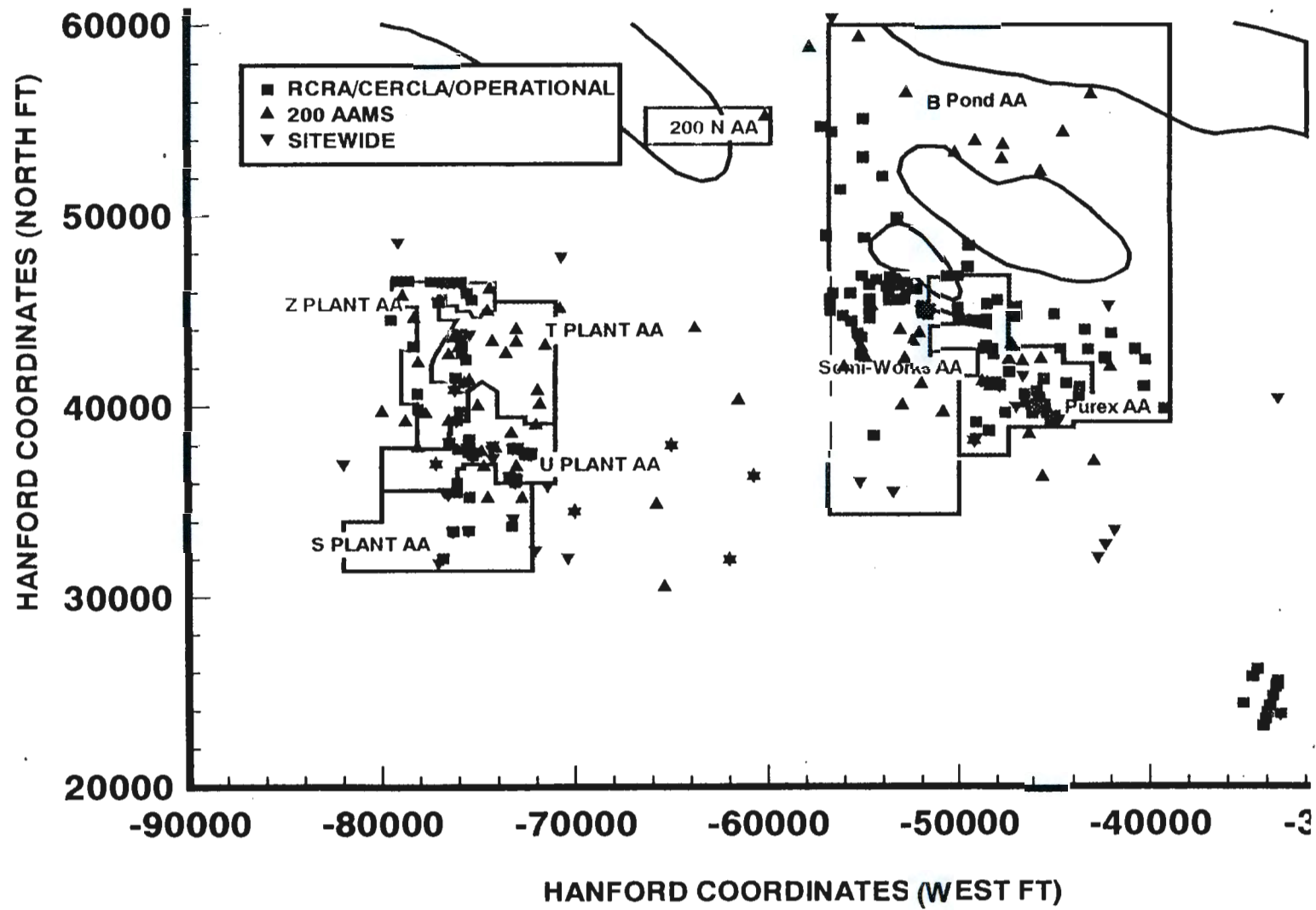
- **PHASE I STATUS**

- **WELL SAMPLING COMPLETE THIS MONTH**
- **ANALYTICAL RESULTS ARE BEING RECEIVED/ENTERED IN DATABASE**

GROUNDWATER SAMPLING

- **PHASE II SAMPLING SCHEDULED TO BEGIN IN FEBRUARY 1992**
 - **FITNESS-FOR-USE EVALUATION IN PROGRESS**
 - **WELL MAINTENANCE ON 10 WELLS BY MID-MARCH**
 - **SUPPLEMENT OTHER PROGRAM SAMPLING UNTIL ALL WELLS REQUIRING MAINTENANCE ARE COMPLETED**

200 AAMS PHASE II SAMPLING NETWORK (1ST QUARTER)



Attachment #8

BOREHOLE SPECTRAL LOGGING INTEGRATED SCHEDULE

Status of 200 AAMS Activities
January 23, 1992

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**BOREHOLE
SPECTRAL LOGGING
INTEGRATED
SCHEDULE**

SCHEDULE CHANGES

- o RLS performance**
- o Change of scope**
- o Unscheduled work**
 - HWVP**
 - C-018H**

o RLS PERFORMANCE

- Four wells per week**
- Timely calibration of RLS**
- No major failure of RLS**

- o **CHANGE OF SCOPE**

- **Original schedule was late summer**
- **100 Area new - work received priority**

ASSUMPTIONS FOR MODIFIED SCHEDULE

- o 78 boreholes IN 200 Area**
- o 32 boreholes in 100 Areas**
- o 200-BP-1 boreholes reduced to 5**
- o Minimum unscheduled work**
- o Log 3 boreholes per week per system**

ASSUMPTIONS FOR MODIFIED SCHEDULE (Continued)

- o No major malfunctions of RLS**
- o Bring on additional resources**
- o Flexibility in implementing field program**
- o Work two 6-day weeks/month**

o BRING ON ADDITIONAL RESOURCES

- Lease logging truck and associated personnel**
- Overtime**
- Double shifts**
- Work order a log analyst**
- Contract a log analyst**
- Identify and hire log analyst**
- Purchase additional logging system**
- Hire personnel to operate new system**

o FLEXIBILITY IN IMPLEMENTING FIELD PROGRAM

- Log all uncontaminated-zone holes first**
- Modify in-hole logging scope**
 - o Thoroughly log contaminated zone**
 - o Spot-check remainder of hole**
 - o Correlate with gross-gamma logs**
 - o Re-run gross-gamma log as necessary**

IMPACTS

- o 200 AAMS - Delay of final reports**
 - 200 West from 4/30 to 7/30**
 - 200 East from 9/14 to 10/30**
- o Unscheduled work - Limited to 31 holes for FY 1992**

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SPECTRAL LOGGING INTEGRATED SCHEDULE

DATA COLLECTION

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	TOTALS
100 Areas	2	8	8	7	7					32
200 AAMS	1	5	5	5	5	18	18	17		74 + 4
200-BP-1	1	1	1	1	1					5
Other				1	1	1	1	3	24	31
Totals	4	14	14	14	14	19	19	20	24	142

ANALYSIS

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	TOTALS
100 Areas			3	6	7		4	5	7	32
200 AAMS		4	7	5	5	18	20	19		78
200-BP-1			2	1					1	5
Other									11	11
Total		4	12	12	12	18	24	24	20	128

Distribution

Status of 200 Aggregate Area Activities January 23, 1992

Donna Lacombe, PRC
Ward Staubitz, USGS
Doug Fassett, SWEC (A4-35)
Linda Powers, WHC (B2-35)
Tom Wintczak, WHC (B2-15)
Mel Adams, WHC (H4-55)
Wayne Johnson, WHC (H4-55)
Rich Carlson, WHC (H4-55)
Brian Sprouse, WHC (H4-22)
Bill Price, WHC (S0-03)
Ralph O. Patt,
OR Water Resources Dept.
Mike Thompson, DOE (A6-95)
Diane Clark, DOE (A5-55)
Mark Buckmaster, WHC (H4-55)
Don Praast, GAO (A1-80)
Curt Wittreich, WHC (H4-55)
L.D. Arnold, WHC (B2-35)

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

ADMINISTRATIVE RECORD: 200 AAMS; Care of Susan Wray, WHC (H4-51C)

H4-22

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

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