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February 6, 1990

Meeting Minutes Transmittal/Approval

Unit Managers Meeting: SST Operable Unit

450 Hills Street, Room 47, Richland, WA

January 30, 1990

From:

Appvl.: Margo J. Anthony Date: 3-23-90
Margo J. Anthony, SST Unit Manager, DOE-RL

Appvl.: Toby M. Michelena Date: 3/23/90
Toby M. Michelena, SST Unit Manager, WA Department of Ecology

To:

Johnnie E. Newson, DOE-RL
Mike Gordon, WDOE
Jon Peschong, DOE-RL, WMD
Vernon Hall, WHC
Richard Wojtasek, WHC
Bill Winters, WHC
Rick Raymond, WHC

ADMINISTRATIVE RECORD (SST) *H422*
[Care of Susan Wray, WHC]

cc: Ronald D. Izatt (A6-95)
Director, DOE-RL, ERD
Ronald E. Gerton
Director, DOE-RL, WMD
Roger D. Freeberg (A6-95)
Chief, RB, DOE-RL, ERD
Steven H. Wisness
TPA Proj. Mgr., DOE-RL, ERD
Paul T. Day
EPA, Region X

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

- Attachment #1 - Meeting Summary/Summary of Comitments and Agreements
- Attachment #2 - Agenda for Meeting
- Attachment #3 - Detailed Agenda for Dispute Resolution
- Attachment #4 - Attendance List
- Attachment #5 - Handouts:
 - EP Toxicity Testing
 - Ecology Aproval of Plan
 - Ignitability/Reactivity
 - Toxic Equivalency Calculation (TEC)
 - SST Characterization TPA Work Schedule Assumptions
 - Comparison of Schedules for Comment Resolution

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Meeting Summary and Summary of Commitments and Agreements
SST Operable Unit Managers Meeting
450 Hills Street, Room 47
January 30, 1990

1. SST Waste Characterization Plan Dispute Resolution.

- Discussion on disposition of Ecology comments (November 30, 1989).

Issues discussed:

- A. Ecology Approval of Plan (see Attachment #5).
Schedule has been impacted, baseline is not achievable due to work on dispute resolution. Phase 1C sampling will start after submittal to Ecology but before public review. Will continue Phase 1A and 1B approach into Phase 1C with re-evaluation and modification per approval.
- B. EP Toxicity Testing (see Attachment #5).
Incorporates Ecology comment to perform 18 EP Toxicity Tests. To implement must have data quality criteria. Aggressive schedule, will need cooperative Hanford/Ecology approach to maintain.

ACTION # SST.1/90/01: Ecology to meet with WHC/DOE February 15, 1990 to establish data quality objectives.

ACTION # SST.2/90/02: WHC to revise Plan to incorporate EP Toxicity Testing less data quality objectives for February 15, 1990 meeting.

- C. Ignitability/Reactivity (see Attachment #5).
Development of modified SW-846 methods for ignitability/reactivity and discuss tests above and beyond guidance. Common sense judgement should be used in laboratory work on flash point test.
- D. Toxic Equivalency Calculation (see Attachment #5).
- E. Minor concerns: NPH Separation/Cleanup discussion. And detection limit issue to be re-evaluated based on Phase 1A / 1B data.
- F. Schedule (see Attachments #5)
Baseline, Option 1 and Option 2 discussed - Pros and Cons of options, Milestones missed, recovery of schedule, recovery of total number of samples.

AGREEMENT: Option 2 is acceptable - less impact on progress. Presentation of resolution to Ecology management; Class 2 change for Project Managers signature.

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G. Steps to implement agreement:

WHC/DOE will provide formal response that will include record statement of EP Toxicity position and request for Class 2 change to milestones M-10-04 and M-10-05. Then will agree to proceed assuming continuation of program per Option 2.

Ecology will respond; will disagree with EP Toxicity position; and will transmit signed Class 2 change.

Remaining Agenda items were postponed.

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SST OPERABLE UNITS
UNIT MANAGER MEETING

AGENDA

o ISSUES

- SST Waste Characterization Plan Dispute Resolution

o PROGRESS

- SST Characterization
- Retrieval Methodology
- SST System Closure / Corrective Action Work Plan

o ITEMS FOR DISCUSSION

- Ecology Data Package Review
- Criteria for Retrieval

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SINGLE-SHELL TANK WASTE CHARACTERIZATION PLAN

DISPUTE RESOLUTION

UNIT MANAGERS MEETING

JANUARY 30, 1990

o of Address Disposition of Ecology Comments (November 30, 1989)

o Discuss Schedule Options

o Identify Issues and Establish Possible Agreements

o Discuss Next Step in Dispute Resolution

1 - Formal letter from DOE-RL responding to Ecology comments of November 30, 1989

2 - Change request from DOE-RL for changing Agreement schedule SST core sampling interim milestone dates

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Attendance List
SST Unit Managers Meeting
January 30, 1990

Name	Organization	SST Responsibility	Phone
Margo Anthony	DOE-RL	Unit Manager	376-8375
Roger Freeberg	DOE-RL	Chief, RB, ERD	376-7167
Toby M. Michelena	WDOE		(206)438-7016
Mike Gordon	WDOE		(206)438-7024
Vernon Hall	WHC		376-0286
Richard Wojtasek	WHC		376-7000
Leela Sasaki	WHC		373-1027
Bill Winters	WHC		373-1951
Jon Peschong	DOE-RL		376-6687
Brian Optiz	WHC		373-1632
Tony Diliberto	WHC		373-1003
Rick Raymond	WHC		373-2785
Robert Eastmond	GSSC for DOE-RL		376-2636

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EP TOXICITY TESTING

ECOLOGY COMMENT:

- o Perform 18 EP Toxicity tests on Phase IA/IB samples prior to initiation of Phase IC

- o Results of tests to determine use of EP Tox in Phase IC

- o Develop new leach test procedure

IMPACTS	BASELINE	SCHED OPT 1	SCHED OPT 2
ACTIVITY	<ul style="list-style-type: none"> o EP Tox not performed o New leach test developed during Phase IC 	<ul style="list-style-type: none"> o Incorporates Ecology comment 	<ul style="list-style-type: none"> o Same as Option 1
RESOURCE	<ul style="list-style-type: none"> o Baseline 	<ul style="list-style-type: none"> o Utilizes same laboratory resources as Phase IA/IB sample analysis & data packages 	<ul style="list-style-type: none"> o Same as Option 1

EP TOXICITY TESTING

SCHEDULE	<ul style="list-style-type: none">o Meets all TPA milestones	<ul style="list-style-type: none">o 1 1/2 month delay in data packages and Phase IC plano Impacts TPA milestone 10-04	<ul style="list-style-type: none">o Same as Option 1
COST	<ul style="list-style-type: none">o Meets all TPA milestones	<ul style="list-style-type: none">o \$122K for Phase IA/IBo Additional \$4.0K/core in Phase IC	<ul style="list-style-type: none">o Same as Option 1

ECOLOGY APPROVAL OF PLAN

ECOLOGY COMMENT:

- o WCP is primary document subject to public review
- o Ecology approval of WCP required prior to initiation of Phase IC sampling

IMPACTS	BASELINE	SCHED OPT 1	SCHED OPT 2
ACTIVITY	<ul style="list-style-type: none"> o Phase IC sampling started prior to Ecology approval o Phase IC sampling initiated after preliminary evaluation of Phase IA data 	<ul style="list-style-type: none"> o Phase IC sampling started after Ecology approval of plan but before public review o Phase IA/IB data incorporated into IC plan 	<ul style="list-style-type: none"> o Phase IC sampling started after submittal of plan to Ecology but before public review and Ecology approval o Phase IA data incorporated into IC plan (plan modified with IB data in FY 91)
RESOURCE	o Baseline	o Field and laboratory personnel idle 5-6 months	o Field and laboratory personnel idle 2-3 months

ECOLOGY APPROVAL OF PLAN

SCHEDULE	o Meets all TPA milestones	o Delays Phase IC sampling 10 1/2 months o Impacts TPA milestone 10-04 & 10-05	o Delays Phase IC sampling 5 months o Impacts TPA milestone 10-04 & 10-05
COST	o Baseline	o \$760K for Phase IA/IB	o \$760K for Phase IA/IB

IGNITABILITY/REACTIVITY

ECOLOGY COMMENT:

- o Planned analyses not adequate to address reactivity and ignitability
- o SW-846 tests for ignitability and reactivity required
- o Development of other tests required to evaluate solids ignitability/ reactivity and waste stability as a result of high temperature, friction, shock, dehydration, or chemical change

IMPACTS	BASELINE	SCHED OPT 1	SCHED OPT 2
ACTIVITY	<ul style="list-style-type: none"> o DSC and analysis for organics, sulfide, NH₃, and cyanide planned for SST wastes o Development of modified SW-846 reactivity test planned for FY 91 	<ul style="list-style-type: none"> o Comply with Ecology comments o Development of modified SW-846 methods for ignitability/reactivity o Meet with Ecology to define other tests (assume solids ignitability and drop test are required) 	o Same as Option 1

IGNITABILITY/REACTIVITY

RESOURCE	<input type="radio"/> Baseline	<input type="radio"/> Utilizes same laboratory resources as sample analysis and data package preparation	<input type="radio"/> Same as Option 1
SCHEDULE	<input type="radio"/> Baseline	<input type="radio"/> Delays other analytical development tasks	<input type="radio"/> Same as Option 1
COST	<input type="radio"/> Baseline	<input type="radio"/> \$530K development cost <input type="radio"/> Additional \$4.7K/core in Phase IC	<input type="radio"/> Same as Option 1

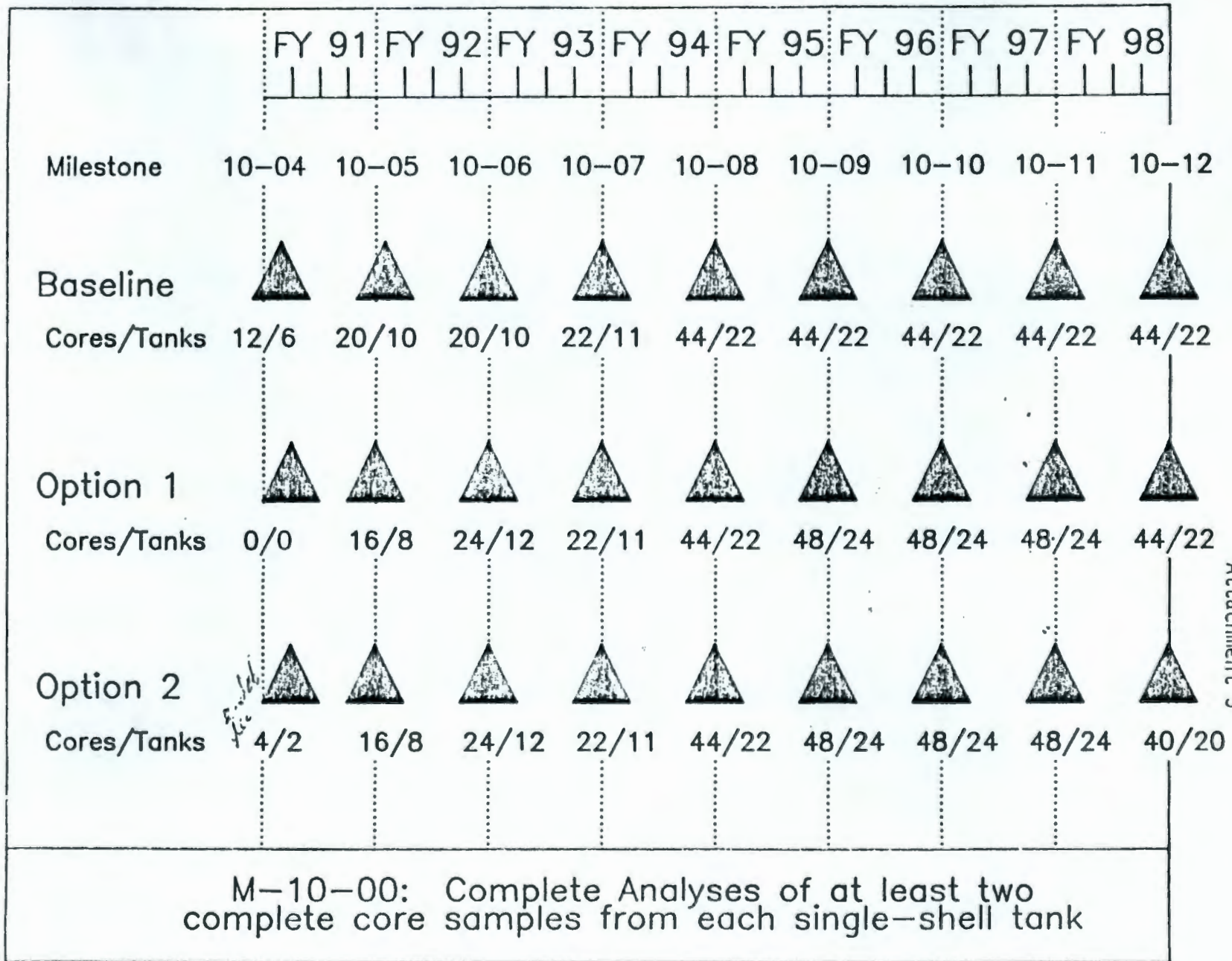
TOXIC EQUIVALENCY CALCULATION (TEC)

ECOLOGY COMMENT:

- o Toxic Equivalency Calculations must be performed in Phase I.
- o Conservative ion combinations and organic analyses must be used for TEC until alternative models are developed and approved.

IMPACTS	BASELINE	SCHED OPT 1	SCHED OPT 2
ACTIVITY	o TEC development and evaluation planned for FY 91	o Same as Baseline	o Same as Baseline
RESOURCE	o Baseline	o Same as Baseline	o Same as Baseline
SCHEDULE	o Baseline	o Same as Baseline	o Same as Baseline
COST	o Baseline (\$60K for development)	o Same as Baseline	o Same as Baseline

SST CHARACTERIZATION TPA WORK SCHEDULE



Attachment 5

Assumptions

1. Schedules are success-oriented and aggressive; include minimal durations for document preparation, review cycles, etc.
2. Phase IC plan will undergo parallel WHC and DOE-RL review to accelerate document issuance.
3. Ecology will provide approval to start Phase IC sampling prior to public review.
4. Single-shell tank (SST) sampling will have priority on core sample truck (CST) usage. However, CST(s) must support both SST and double-shell tank (DST) programs.
5. Two cores per tank for Phase IC sampling.
6. Second CST (with five member crew and supervisor) and required ancillary equipment is operational in mid-FY 1991.
7. Third CST operational beginning in FY 1994.
8. The 3 CSTs will be dedicated to SST sampling with no down time in the first part of FY 1998. Sampling will be completed in time to allow for completion of all data packages by the end of FY 1998.
9. CST will operate minimum 9 months per year and will not operate 1 to 3 months per year. The down time will be for maintenance, repairs, minor modifications, operator training, etc.
10. No major impacts to CST operation due to problems with weather, equipment, etc.
11. Spare equipment, sample liners, casks, drill string, etc., available when needed.
12. All personnel required to support sampling and analysis will be available.
13. Double shifts in labs will be available in FY 1994. Funding for staffing will be available in FY 1993 (approximately 15 additional persons at PNL and WHC).
14. Hot cell expansions will be completed in June 1994.
15. Schedules attempt to minimize funding impacts to FY 1990-1993.

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COMPARISON OF SCHEDULES FOR ECOLOGY COMMENT RESOLUTION

	BASELINE (Original) SCHEDULE	OPTION 1 (NEW) SCHEDULE	OPTION 2 (MODIFIED) SCHEDULE
1. Sampling Schedule	<ul style="list-style-type: none"> o Phase IC starts 6-1-90 o Meets TPA milestone M-10-04 (12 core/6TKs) and all other sampling milestones o Field & Lab operations not interrupted 	<ul style="list-style-type: none"> o Phase IC starts 4-15-91 (10 1/2 mo. delay) o No 1990 sampling; impacts milestones M-10-04 & M-10-05 o Field & Lab personnel idle 5-6 mo. 	<ul style="list-style-type: none"> o Phase IC starts 11-1-90 (5 mo. delay) o 4 cores/2TKs by 12-31-90; impacts milestones M-10-04 & M-10-05 o Field & Lab personnel idle 2-3 months
2. Phase IC Plan	<ul style="list-style-type: none"> o Initial Phase IC sampling based on preliminary evaluation IA data only <ul style="list-style-type: none"> - Must be modified later to add IB data - # core/TK unknown (may need to take more cores) - Conservative analytical scope due to limited data o No NAS review prior to sampling 	<ul style="list-style-type: none"> o Plan based on IA & IB data <ul style="list-style-type: none"> - IB data included - # cores/TK established - May be able to reduce analytical scope (core composites instead of segments) o NAS review of Phase IA/B & NAS input to Phase IC plan prior to sampling 	<ul style="list-style-type: none"> o Initial Phase IC based on IA data only <ul style="list-style-type: none"> - Must be modified later to add IB data - # cores/TK unknown (may need to take more cores) - Conservative analytical scope due to limited data o NAS review of Phase IA data & NAS input to Phase IC plan prior to sampling
3. State Comments	<ul style="list-style-type: none"> o EP Tox not in place for start of IC o Phase IC starts w/o state approval o TEC and modified SW-846 reactivity test development in FY 1991. Other reactivity/ignitability test development not planned 	<ul style="list-style-type: none"> o EP Tox in place for start of IC o Phase IC starts at approval of plan o TEC and reactivity/ignitability test development in FY 1991 	<ul style="list-style-type: none"> o EP Tox in place for start of IC o Phase IC starts at submittal of plan (w/o state approval) o TEC and reactivity/ignitability test development in FY 1991

BASELINE (Original)
SCHEDULE

OPTION 1
(NEW) SCHEDULE

OPTION 2
(MODIFIED) SCHEDULE

4. Funding

o Baseline FY90 funding = \$9M

o FY 90 funding required = \$9.6M
Change of \$612K due to:
- EP Tox development & testing
- Increase in Phase IC planning
cost
- Reduction in # of data pkgs.
- Dispute resolution support

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Change of \$612K due to:
- EP Tox dev. & testing
- Increase in Phase IC
planning cost
- Reduction in # of data
pkgs.
- Dispute resolution support