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November 19, 1991

**Meeting Minutes Transmittal/Approval
100 Areas, Special Session
450 Hills Street, Room 47
Richland, Washington
September 19, 1991**

From/ Appvl.: *Jim Goodenough* Date: 21 Nov 91
Jim Goodenough, Unit Manager, DOE-RL (A5-19)

Appvl.: *Larry Goldstein* Date: 12/27/91
Larry Goldstein, 100-HR-1/BC-1/BC-5/NR-1/KR-1 Unit Manager, WA
Department of Ecology

Appvl.: *Douglas R. Sherwood* Date: 12/17/91
Douglas R. Sherwood, 100-HR-1/HR-3/DR-1/BC-1/BC-5 Unit Manager,
EPA (B5-01)

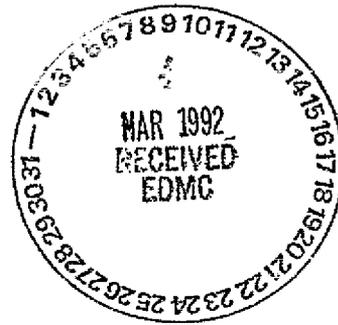
Meeting Minutes are attached. Minutes are comprised of the following:

- Attachment #1 - Meeting Summary/Summary of Commitments and Agreements
- Attachment #2 - Attendance List
- Attachment #3 - Commitments and Agreements Status List
- Attachment #4 - Agenda and Objectives
- Attachment #5 - 100 Area Schedule Assumptions
- Attachment #6 - 100 Area Work Plan Approval Process and Approval Schedule
- Attachment #7 - Memo, Change in Spring Sampling Procedure

Prepared by: *Doug Fesselt* Date: 1/24/92
SWEC Support Services

Concurrence by: *Q B King* Date: 11/21/91
WHC Coordinator

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100 Areas, Special Session
September 19, 1991

Distribution:

Pamela Innis, EPA (B5-01)	Ronald D. Izatt (A6-95)
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Tom Wintczak, WHC (B2-15)	Tri-Party Agreement, Prog. Mgr.
Mel Adams, WHC (H4-55)	Richard D. Wojtasek (B2-15)
Merl Lauterbach, WHC (H4-55)	Prgm. Mgr. WHC
Linda Powers, WHC (B2-35)	
Don Praast, GAO (A1-80)	

ADMINISTRATIVE RECORD: 100-HR-1, 100-HR-3, 100-DR-1, 100-BC-1, 100-BC-5, 100-KR-1, 100-KR-4, 100-NR-1, 100-NR-3; Care of Susan Wray, WHC (H4-51C)

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

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Attachment #1

Meeting Summary and Summary of Commitments and Agreements

100 Areas, Special Session
September 19, 1991

1. Jim Goodenough (DOE) opened the meeting by identifying the purpose and objectives of the meeting (see Attachment #3 - Agenda).
2. Mike Thompson (DOE) gave a historical overview of the status of the 100 Area past practice strategy. Mr. Thompson said that the integrated schedule must accommodate the September 2005 due date for milestone M-1A.3 Milestone M-1A marks the date that all Remedial Investigation/Feasibility Study (RI/FS) Work must be completed. The integrated schedule, for the first time, includes the first five operable units (OUs) in the 100 Area. It is expected that the strategy document will be completed the week of September 23 if questions on the section on land use can be successfully resolved.
3. Jim Goodenough explained that this meeting was the first opportunity that DOE had to discuss how they have interpreted the past practice strategy to obtain 30 month RODs. Mr. Goodenough said that the assumptions and drivers that the 100 Area work plan schedules are based on would be presented to the regulators at this meeting. Mr. Goodenough said that it was hoped that the regulators would approve of proceeding with the baseline work scope in the five draft rescoped 100 Area work plans.
4. Merl Lauterbach (WHC) presented the 100 Area schedule assumptions (see Attachment #5).
5. Alan Krug (WHC) presented a summary of the schedules for the first five operable unit work plans (see Attachment #6). Mr. Krug said that data gathered from the limited field investigation will feed into a risk assessment. Once the risk assessment is initiated, the feasibility studies for each operable unit will begin. A 100 Area FS will be used to produce a series of reports. An interim response measure (IRM) plan will be developed. A draft interim record of decision (ROD) will be produced and it will include the RI/FS and the IRM. Six months later the IRM plan will be initiated. The limited field investigation will *initially be issued* as a secondary document. *The final LFI report*, the final FS Report, the final IRM Plan and the ROD will be *jointly* issued as primary documents. It is hoped that the process will avoid multiple review cycles and the delays in schedules from the effects of one document impacting another.
6. The schedules assume a starting date of October 1, 1991. The draft ROD package would be submitted to the regulators in roughly three years plus or minus a couple of months for the individual OUs. A 100 Area wide activity plan or schedule has been prepared. It includes those activities that aren't OU specific. A 100 Area Integrated Schedule has also been prepared. It contains the summary activities for each of the

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five OUs and the summary activities from the 100 Area wide activities. Each of the OUs will have four schedules.

7. EPA and Ecology expressed their disagreement with many of the assumptions. Tom Wintczak (WHC) said the schedule and the milestones will be impacted if the assumptions are changed. Jim Goodenough stated that an action item was needed for a working level meeting to be held to discuss the assumptions and schedules prior to their being inserted into the work plans. *Each of the OU work plans will contain four schedules.*

Action Item #1AAMS.1: The 100 Area schedule assumptions presented by Merl Lauterbach are to be discussed with the regulators and resolved.

Action: Doug Sherwood, Larry Goldstein, Mike Thompson

8. Doug Sherwood said the assumptions that were presented were inconsistent with the conceptual agreement made on July 31 for a demonstration project. He said that characterization activities should have been done based on the integrated schedule.
9. Jim Goodenough identified two main issues of contention. First, the assumptions that the schedule was based on are in disagreement. Second, the parts of the schedule where progress was made is in disagreement.
10. George Hofer (EPA) stated his opinion that more data was needed and that DOE and WHC needed to reexamine the impact of the resources as opposed to available funding in the future. He suggested that they try and agree on some issues and go forward on the work plan.
11. After a short break while the regulators conferred, Larry Goldstein (Ecology) proposed that the rest of the meeting focus on three items. The first item was the schedule review time. Larry Goldstein stated that the regulators expected a 60 day review period for the five 100 Area work plans. This would be considered a second review cycle with a 30 day extension. The second item Mr. Goldstein identified was the schedule assumptions. The schedule assumptions must be reviewed by the regulators and discussed with DOE. Ecology plans to meet with EPA and identify which assumptions are problems. The regulators will then meet with DOE on September 26 at 9:00 am. And the third item that was identified was work that can be initiated in the field prior to work plan approval. Mr. Goldstein requested information on specific wells, well locations and dates for the installation of the first wells that will be installed after October 1, 1991. Jim Goodenough stated that vadose zone drilling will start in 100-DR-1 and groundwater borehole drilling will start in 100-HR-3. Information on the first wells in these areas will be sent to the regulators.

Discussion of Assumptions - (as listed in Attachment #5)

General Considerations - 1

- #2.: The regulators wanted to know if an expedited response action (ERA) at N Springs had been included in the schedule. Merl Lauterbach stated that WHC did not hear that any ERAs were required. Mr. Lauterbach said that to do them would take resources away from other activities.

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- #3.: Jim Goodenough will send a letter of transmittal for the work plans. It will state that the schedule will only change if the regulators disagree with the work plans.
- #5.: This assumption will be changed to read, "An operable unit interim ROD will be developed for priority sites within individual OUs."
- #7.: Alan Krug stated that the intent of this assumption was to show that priority three wells were not included in the schedules.
- #8.: Merl Lauterbach said all non intrusive work in the 100 Area work plans is being done with current funds.
- #9., #10.: These assumptions are internal to DOE and should not be included in this list. Doug Sherwood (EPA) stated that they would not be grounds for a change request.

GW Activities - 3

- #2.: Doug Sherwood stated that this was provided for in the TPA as a Force Majeure.
- #5.: Merl Lauterbach said that once an individual well was completed, it will be sampled as part of the quarterly monitoring program. It was decided to delete this assumption because it is internal to WHC.
- #6.: Doug Sherwood stated that this assumption was inconsistent with what was planned for the purge water.

Vadose Activities - 4

- #1.: This assumption will be modified to read radioactive contamination.
- #2.: This assumption will be deleted.

Laboratory Activities - 5

- #1.: Both rad and nonrad analyses will take five months.
- #3.: This item assumes the samples will contain low level radiation.
- #1., #2., #3.: Doug Sherwood said assumptions 1 - 3 will not be accepted as schedule contentions by EPA. Mr. Sherwood suggested that workarounds be found for lab capacity. He said that missing the January 1992 major milestone for lab capacity until 1994 is unacceptable.

River Impact Study - 6

- #1.: Doug Sherwood and Larry Goldstein said that the schedule would probably have to be revised to define sediment sampling. Mr. Sherwood said seven aspects of river activities were agreed to and sediment sampling was one of these. Mike Thompson said a number of river samples will be identified and included in the schedule if possible.
- #2.: Merl Lauterbach will find out what the schedule is for installing the transducers in the wells near the river in the N Area.

Ecological Activities - 7

- #1., #2., #3.: Larry Goldstein asked if all the biotic sampling scheduled would be completed by the end of November. Steve Weiss (WHC) stated that it has been held up by the river level. Merl Lauterbach stated that if they are required to do all of the biotic sampling to support

the ecological risk assessment the schedule would be delayed because biotic sampling was not included in the planning baseline.

Risk Assessment - 8

- #1.: Qualitative risk assessments are planned. Mr. Lauterbach explained that the work plans do not accommodate biotic sampling. If this is changed, the risk assessment methodology may require additional, unplanned work scope. Mike Thompson said that it is not planned that the land use be limited at the 100 Area since it is not limited at the 1100 Area.
- #2.: Alan Krug said information is now being gathered for a 100 Area wide risk assessment but specific OU risk assessments will not be started until 1993.

Feasibility Studies - 9

- #3.: Larry Goldstein questioned why this assumption was included. Doug Sherwood said that treatability studies were necessary because a remedial action could not be chosen without demonstrating its ability to achieve the cleanup levels. Alan Krug said the assumption was included because a removal action is the preferred alternative and treatability studies are not needed.

Remediation Activities - 10

- #1.: Doug Sherwood stated that it was unlikely to have a source and a groundwater IRM plan remotely related. Alan Krug stated that the assumption will be rewritten to show that two IRM plans will be written for each reactor area. One IRM will address a source and one will address the groundwater.
- #5.: Mike Thompson stated that the budget was set for 1992 and it did not include any new ERAs. Doug Sherwood stated that the schedules and assumptions relate that there will be no remedial actions until 1996; but, it had been agreed that the remedial actions would be started after 1992. Mr. Sherwood and Chuck Cline (Ecology) stated that if the IRMs do not save any time then the standard RI/FS process should be implemented.

General Discussion

- 12. It was agreed that all parties would plan that all characterization work for the first 10 work plans would be completed in 1992 and 1993. Mike Thompson stated that DOE is constrained in the federal budget system and that a budget submittal will be made to support remediation in FY 1994.
- 13. Doug Sherwood stated that Paul Day (EPA) is working on resolving land disposal issues at Hanford with EPA Headquarters.

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Attachment #2

Attendance List

100 Areas, Special Session
September 19, 1991

Name	Organization\Responsibility	Phone
Erickson, Julie	DOE-RL Branch Chief	509-376-3603
Goodenough, Jim	DOE-RL 100 Areas O.U.	509-376-7057
Harris, Allan	DOE-RL Unit Manager	509-376-4339
Izatt, Ron	DOE-RL Dep. AME	509-376-5441
Shafer, David	DOE-RL Unit Manager	509-376-4670
Thompson, K. Michael	DOE-RL ER Programs	509-376-6421
Wisness, Steve	DOE-RL DOE AME	509-376-6798
Allender, Robert	BCC Ecology Support	206-244-7005
Cline, Chuck	Ecology U.M. Hydrogeo.	206-438-7556
Goldstein, Larry	Ecology Unit Manager	206-438-7018
Hibbard, Rich	Ecology Unit Engineer	206-493-9367
Kane, William F.	PMX Ecology Support	206-455-2550
Mullen, Richard	PMX Ecology Support	206-455-2550
Day, Paul	EPA Project Manager	509-376-6623
Drost, Brian	USGS EPA Support	206-593-6510
Einan, Dave	EPA Unit Manager	509-376-3883
Hofer, George	EPA FFSB	206-553-2803
Innis, Pamela	EPA Unit Manager	509-376-4919
Sherwood, Doug	EPA Unit Manager	509-376-9529
Shuster, Jerry	PRC EPA Support	206-624-2692
Staubitz, Ward	USGS EPA Support	206-593-6510
Fassett, Doug	SWEC GSSC	509-376-5011
Fryer, Bill	SWEC GSSC	509-376-9830
King, Joe	SWEC GSSC	509-376-5011
McClung, Bill	SWEC GSSC	509-376-1838
Shigley, Diane	SWEC GSSC	509-376-5038
Clark, Steven	WHC Tech. Coord.	509-376-1513
Day, Roberta	WHC 100-BC-1	509-376-7602
Green, Bill	WHC Tech. Coord.	509-376-3886
Krug, Alan	WHC 100 HID Areas	509-376-5634
Naiknimbalkar, N.M.	WHC 100-DR-1	509-376-8739
Patterson, Jim	WHC ER Prog. Office	509-376-0568
Roeck, Fred	WHC 100-K, -F	509-376-8819
Wintczak, Tom	WHC ER Programs	509-376-0902
Wojtasek, Rick	WHC ER Program Mgr.	509-376-7000

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Attachment #3

Commitments/Agreements Status List

100 Areas, Special Session
September 19, 1991

Item No.	Action	Status
IHR1.28	Determine when the topographic mapping will be available on HEIS, who is responsible for digitizing the mapping, and when it will be available. Action: Alan Krug (11/15/90)	Open: Remains open on the question of when the data will be in HEIS. (7/18/91)
IHR3.29	Provide regulators with information about the situation concerning the cooling-water discharge pipeline/vent pipes on the island opposite D reactor. Action: Jim Goodenough (11/15/90)	Open: WHC sent a letter to DOE requesting guidance on the extent of NEPA documentation required and is awaiting DOE's response. (7/18/91)
IHR3.32	Regarding the removal of the vent pipes, WHC will: 1) Determine the need for an ACE permit; 2) obtain a letter from ACE that gives approval to begin work before the need for the permit is determined; and, 3) draft letters on the matter to the Natural Resources Trustees. Action: A. Krug (1/15/90)	Open: Pending overall resolution (7/18/91)
INR.3	Provide to Ecology (and EPA if desired) the DOE guidance documents that are needed. Action: Larry Goldstein (7/18/91)	Open: Larry Goldstein will send a letter specifying exactly what supporting documents Ecology would like to receive. (7/18/91)
IAAMS.1	The 100 Area schedule assumptions presented by Merl Lauterbach are to be discussed with the regulators and resolved. Action: Doug Sherwood, Larry Goldstein, Mike Thompson (9/19/91)	Open

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100-AREA PAST PRACTICE STRATEGY MEETING

AGENDA

September 19, 1991, 1:00 - 4:00 PM

- 1. Purpose and Objectives of Meeting. (Jim Goodenough) ✓
- 2. Historical Overview (Where we started and where we are today). (Mike Thompson)
- 3. Restatement of the Specific Meeting Objectives. (Jim Goodenough)
- 4. Major Assumptions Used to Rescope the 100-Area OU Work Plan Schedules. (Merl Lauterbach)
- 5. Overview of the 100-Area Integrated Schedules. (Alan Krug and Fred Roeck)
- 6. EPA/Ecology Review, Comment Resolution, and Public Review Schedule. (Jim Goodenough)
- 7. EPA/Ecology approval to Proceed with Baseline Scope and Schedule Field Work for 100-DR-1, 100-HR-1, 100-HR-3, 100-BC-1, 100-BC-5. (Jim Goodenough)
- 8. Present Five-Day Notification to Start Vadose and Groundwater Drilling (Jim Goodenough)
- 9. Question and Answer Session (Jim Goodenough and Mike Thompson)

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**100-AREA PAST PRACTICE STRATEGY MEETING
AGENDA**

Page 2

10. Other Discussion Items:

- a. 100-NR-1 Operations and Shutdown/RCRA/CERCLA Integration
- b. 183-H Solar Basin RCRA/CERCLA Integration, Problem Identification
- c. 100-Area Reactor FEIS Status
- d. 100-NR-1 and NR-2/3 Comment Resolution Meeting Minutes
- e. Change Request Approval for 100-NR-1/2.
- f. Change Request For OU Designation of 100-FR-1, -2, -3.

11. Approval of August Unit Manager's Meeting Minutes

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100-AREA PAST PRACTICE STRATEGY

OBJECTIVES OF MEETING

1. Present RL's Interpretation of the Hanford Past Practice Strategy to Meet EPA's and Ecology's Intent to Obtain 30-Month ROD's
2. Present the Major Assumptions and Drivers That 100-Area OU Rescoped Work Plan Schedules are Based On
3. Obtain EPA and Ecology Approval to Proceed With Baseline Work Scope in Five 100-Area OU's As Presented in the "Draft" Rescoped Work Plans

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100 AREA SCHEDULE ASSUMPTIONS

SEPTEMBER 1991

GENERAL CONSIDERATION - 1

- 1. If assumptions are modified, milestone reassessment will be required, and milestone slips are expected.**
- 2. No expedited response actions (ERA) are included in the 100 Area schedule as a result of rescoping activities agreed to with the regulators.**
- 3. The formal workscope baseline is that identified in the September 30, 1991, issuance of the Draft Work Plans. DOE will proceed in "good-faith" with that baseline. Any changes to the baseline must be negotiated, agreed to, and documented pending formal approval of the work plans.**
- 4. The September 30, 1991, Draft Work Plan submittal constitutes the second submittal to the regulators.**
- 5. An interim Record of Decision (ROD) will be developed for priority sites within individual OUs. A final 100 Area ROD will be developed after the 100 Area priority sites have been investigated.**

- 7. These schedules do not include the additional wells that may be required to meet 100 Area wide groundwater needs.**
- 8. These schedules do not include intrusive characterization of low priority sites. This will be scheduled at a later time.**
- 9. NEPA documentation will be in-place to begin field work. The Information Bulletins concerning the N Area and wetlands are currently at DOE-HQ.**
- 10. The Nuclear Facility Safety Assessment will be in-place to begin field work by October 1, 1991.**
- 11. Schedules are based on currently available (9/19/91) resources.**
- 12. Rescoped work plans define all work needed to reach interim RODs.**

DOCUMENTS/REVIEWS - 2

- 1. A 90-day DOE-HQ review and incorporation period, per the "Draft" DOE-HQ Document review protocol, will be required of all primary documents except those identified by the TPA change package. These have a 30-day review and incorporation period.**

GW ACTIVITIES - 3

- 1. 25% of ground water (GW) borings will encounter contamination. (See item 2 under Laboratory Analyses).**
- 2. There is no contingency in the schedules for labor disputes or safety problems.**
- 3. All GW wells will be drilled using cable tool rigs.**
- 4. All GW wells will be drilled at the approximate locations indicated in the work plans.**
- 5. The quarterly monitoring task for GW OUs is scheduled to last until the completion of the IRM Plan Preparation.**
- 6. GW confirmation samples will be taken in the quarter following well completion.**

VADOSE ACTIVITIES - 4

- 1. 100% of vadose zone borings will encounter contamination. (See item 2 under Laboratory Activities).**
- 2. There is no contingency in schedules for labor disputes or safety problems.**

LABORATORY ACTIVITIES - 5

- 1. Commercial laboratory analysis will take five months.**
- 2. If screening results for vadose zone and groundwater samples exceed current offsite laboratory acceptance criteria, then a renegotiation of the analytical scope of work and associated TPA milestones will be required.**
- 3. All vadose and groundwater samples will go to commercial offsite labs for chemical analyses.**
- 4. A minimum of 10% of the total data will be validated within the 21 day commitment. If more than 10% of the total is validated then there will be a schedule/milestone impact.**

RIVER IMPACT STUDY - 6

- 1. The River Impact Study does not include river sediment sampling. If required in the future it will be treated as a change.**
- 2. River water levels will allow shoreline radiation surveys to be conducted from September to November of CY 1991.**

ECOLOGICAL ACTIVITIES - 7

- 1. The required written permission will be obtained by May 1992 from the U.S. Fish and Wildlife Service and Washington Department of Wildlife concerning negligible impact to threatened or endangered species.**
- 2. River water levels will be low enough during the months of September, October, and November of CY 1991 to conduct aquatic biota sampling.**
- 3. No additional biotic sampling beyond October/November 1991 will be required for risk assessment.**

RISK ASSESSMENT - 8

- 1. Work proposed in the work plans will be sufficient to meet risk assessment needs. (Per verbal EPA direction on 1100-EM-1).**
- 2. No OU specific risk assessment work will be performed in FY 1992.**

FEASIBILITY STUDIES - 9

- 1. No focused feasibility studies (FFS) will be performed in FY 1992.**
- 2. The 100 Area Feasibility Study does not require field work or testing to support the FFS.**
- 3. Treatability studies will not be required to support cleanup actions.**

REMEDATION ACTIVITIES - 10

- 1. One IRM plan (including source and groundwater) will be written per reactor area. Supplemental IRM plans for OUs within the reactor area will be included as an addendum if needed in the future.**
- 2. No IRMs are to be initiated prior to receiving an interim ROD for the entire OU.**
- 3. In FY 1992 planning for IRM demonstrations will be initiated as part of the macroengineering studies.**
- 4. Starting IRM demonstration projects within 15 months after approval of the interim RODs will satisfy the start up requirements as defined in the NCP.**
- 5. Removal actions will be conducted to clean close the waste sites.**
- 6. Adequate waste handling/storage/disposal facilities will be available to meet the first IRM schedule.**

DRILLING ASSUMPTIONS

- **A 10% contingency has been added to the duration of activities.**

- **Drilling priorities are:**
 - 1) 200-BP-1 Vadose Drilling**
 - 2) 183-H Vadose Drilling**
 - 3) 300-FF-5 Drilling**
 - 4) 300-FF-1 Drilling**
 - 5) 100 Areas Drilling**
 - 6) Well Remediation Projects**
 - 7) HWVP Vadose Drilling**

- **RCRA drilling has equal priority with CERCLA drilling**

- **No additional capital equipment will be procured in FY 1992 above that on order as of 8/30/91.**
- **Existing equipment may be supplemented with leased items or subcontracted equipment as required for drilling on sites with no surface radiation contamination and no known significant underground radiation contamination.**
- **Maximum cable tool rigs available:**

	Gov't.	Leased	Contr.	Total
Sept. 91	13	8	4	25
Oct. 91	17	4	5	26
Dec. 91	18	4	4	26
Jan. 92	20	4	3	27

- **The need for spare drill rigs is calculated using an 87% mechanical availability factor; i.e., if 21 rigs are required to be drilling, the total fleet should consist of 24 rigs. The project is currently operating with no spares, but additional rental rigs are being sought. Therefore, there is some additional schedule risk in the near term (October - November).**

- **Vadose Boreholes**

- **Scope - 62 boreholes average 55' deep**
- **Drilling - average 3'/day**
- **Start 5 holes in basins with auger rig - 2 weeks total to core, auger, and set casing in all 5 holes**
- **Backpulling - 15'/day**
- **Decon/Mob/Demob inside basins - 3 days per hole
outside basins - 2 days per hole**
- **Priority starts with D Area, followed by H, BC, K, N, and F Areas**
- **Plan to start 2 rigs October 1, 1991, add 3rd rig December 1, 1991, and 4th rig January 1, 1992**

- **Groundwater Wells**
 - **Scope - 59 wells average 80' deep**
 - **Drilling - average 5'/day**
 - **Completion and backpulling - average 7 days per hole with pump setting truck**
 - **Plan to start 1 rig October 1, 1991, add 3 more rigs January 1, 1992, and 5th rig February 25, 1992**
 - **Priority starts with D Area, followed by H, 600, BC, K, N, and F Areas**

CONCLUSION

- **Assumptions will be included in Chapter 6.0 of the 100 Area Work Plans. Deviations from these assumptions will be the basis for negotiating changes in work plan/TPA milestone schedules.**
- **Schedules will be statused at the monthly unit managers meetings.**

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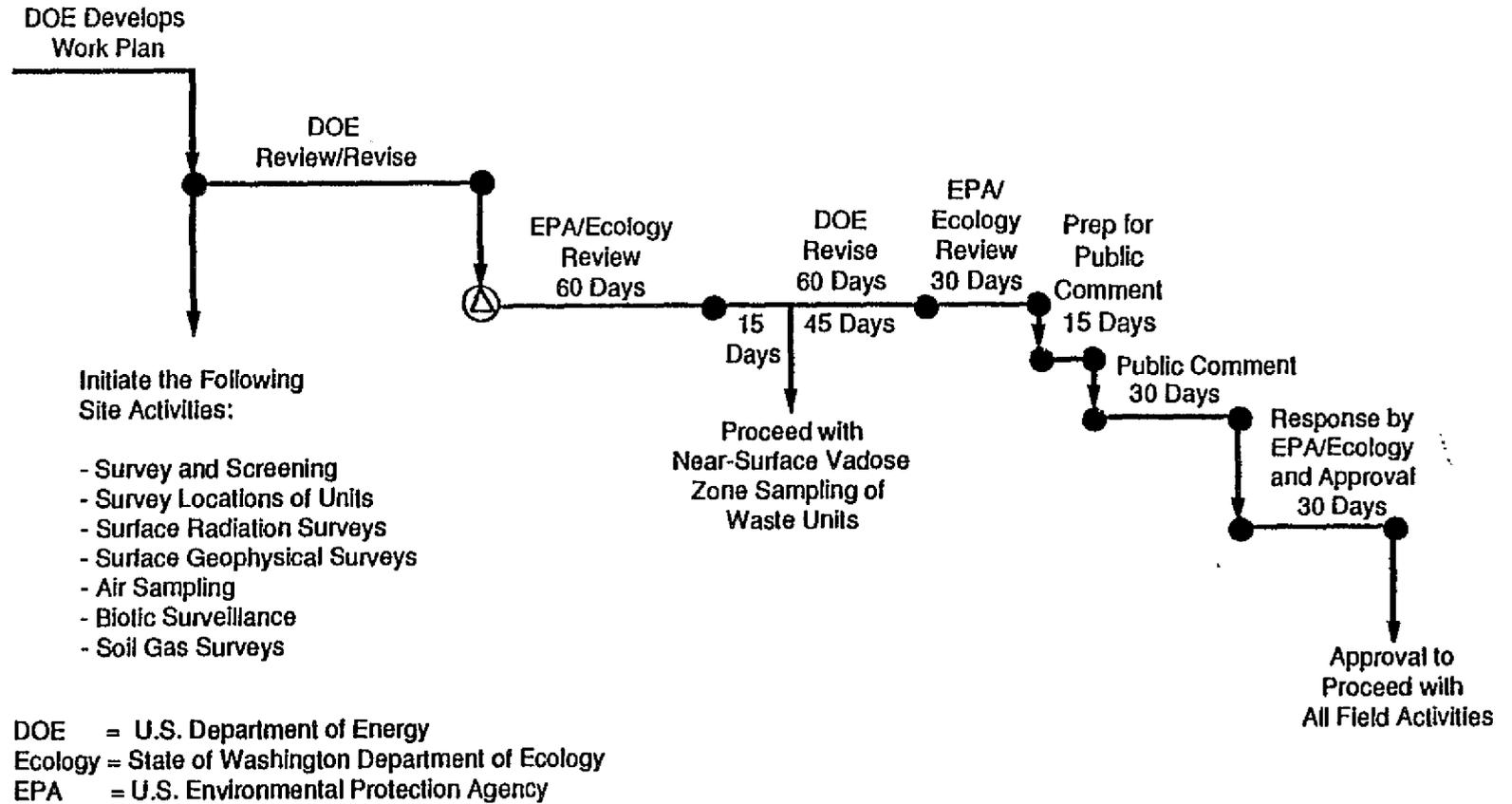


Figure 7-4. Remedial Investigation/Feasibility Study (Resource Conservation and Recovery Act Facility Investigation/Corrective Measures Study) Work Plan Review and Approval.

100-AREA WORK PLAN APPROVAL SCHEDULE

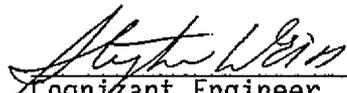
Operable Unit	Issue Date	Regulator Review	Prep For Public Comment	Public Comment	Responses to Public Comments	Approval To Proceed
Time Period/Planned		30 Days	+ 15 Days	+ 30 Days	+ 30 Days	+ 15 Days
100-HR-1	30 Sep 91	30 Oct 91	15 Nov 91	20 Dec 91	21 Jan 92	5 Feb 92
Actual						
100-HR-3	30 Sep 91	30 Oct 91	15 Nov 91	20 Dec 91	21 Jan 92	5 Feb 92
Actual						
100-DR-1	30 Sep 91	30 Oct 91	15 Nov 91	20 Dec 91	21 Jan 92	5 Feb 92
Actual						
100-BC-1	30 Sep 91	30 Oct 91	15 Nov 91	20 Dec 91	21 Jan 92	5 Feb 92
Actual						
100-BC-5	30 Sep 91	30 Oct 91	15 Nov 91	20 Dec 91	21 Jan 92	5 Feb 92
Actual						
100-FR-1	29 Oct 91	2 Dec 91	18 Dec 91	17 Jan 92	18 Feb 92	4 Mar 92
Actual						
100-FR-3	29 Oct 91	2 Dec 91	18 Dec 91	17 Jan 92	18 Feb 92	4 Mar 92
Actual						
100-KR-1	2 Dec 91	2 Jan 92	24 Jan 92	24 Feb 92	25 Mar 92	10 Apr 92
Actual						
100-KR-4	2 Dec 91	2 Jan 92	24 Jan 92	24 Feb 92	25 Mar 92	10 Apr 92
Actual						
100-NR-1	31 Dec 91	30 Jan 92	20 Feb 92	23 Mar 92	22 Apr 92	8 May 92
Actual						
100-NR-2	31 Dec 91	30 Jan 92	20 Feb 92	23 Mar 92	22 Apr 92	8 May 92
Actual						

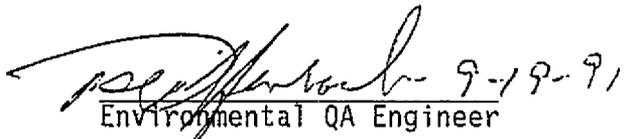
REF: Hanford Federal Facility Agreement and Consent Order (May 89), Figure 7.4

To: Dave Myers (IT Corp)
100-Area Shoreline Investigations Files
Date: September 19, 1991
Subject: Change in spring sampling procedure

While discussing the 100-Area shoreline spring sampling project with the Environmental Protection Agency and Washington Department of Ecology on August 1, 1991, the regulators requested temperature, pH, and conductivity trends before sampling begins. We have attempted doing this by taking these measurements every five minutes for one hour before taking any samples. The results so far have shown no significant changes: for instance, the temperature measurements have varied only by about 0.1 degree (C) over the hour. In addition, the river usually rises rapidly as the day progresses. In some cases, the hour spent in taking measurements has prevented later collection of samples.

We propose reducing the pre-sampling measurements to a 15-minute interval before sampling (four measurements, one every five minutes). Additional information on river bank storage will come from the results of Milestone M-30-04, which is specifically established to determine the interaction of the river and unconfined aquifer.


Cognizant Engineer


Environmental QA Engineer

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