START

0026136

MEETING MINUTES

SUBJECT: 618-11 ERA Environmental Monitoring/Interface Meeting

TO: Distribution BUILDING: WPPSS PFS

FROM: C. D. Kramer CHAIRMAN: C. D. Kramer CK

Dept-Operation-Component	Area	Shift	Meeting Dates	Number Attending
Environmental Engineering	RCHN	Day	February 4, 1993	22

PURPOSE: Provide a forum for establishing an integrated approach to environmental monitoring for potential remedial actions at the 618-11 Burial Ground.

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Administration

The meeting commenced at approximately 1:05 pm. Two attendance rosters were circulated while attendees made introductions (attachments 1 & 2). A current Fiscal Year 1993 Expedited Response Action (ERA) schedule was distributed (attachment 3). Meeting minutes for the prior meeting, (December 10, 1992), were distributed at the end of the meeting. No date/time was established for the next interface meeting. The meeting concluded at approximately 2:35 p.m.

ERA Process Description

Mr. W. L. Johnson, Westinghouse Hanford Company (WHC), provided an overview of the ERA process. Upon recommendation of the U.S. Environmental Protection Agency (EPA) and the State of Washington Department of Ecology (Ecology), the U.S. Department of Energy, Richland Field Office (RL) has begun preparing a formal ERA proposal and an Engineering Evaluation and Cost Analysis (EE/CA) to address removal of potential hazards associated with releases from waste disposed at the 618-11 Burial Ground. ERAs are conducted pursuant to provisions of the Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement), the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as amended, and the National Contingency Plan (NCP). As non-time critical removal actions, ERAs may have a planning period in excess of 6-months prior to initiation of on-site removal actions. ERAs attempt to identify and address potential hazards due to releases of hazardous substances a site. A variety of response alternatives are examined including a no action alternative. If a physical removal action is selected for 618-11, there may be a limited demonstration of equipment and procedures at similar units in the 618-10 Burial Ground prior to full-scale implementation at 618-11. An EE/CA including the ERA proposed action is subject to a public review and comment period of not less than 30 days. EPA and Ecology consider public opinion in arriving at an Action Memorandum decision. Once a decision is reached, RL may pursue funding, detailed design, procurement, etc. to implement the selected action.

FEB 1993 RECEIVED EDMC

The Washington Public Power Supply System (WPPSS) posed questions regarding the potential liability, including that of the remedial action contractor. WPPSS noted developmental work immediately adjacent to WPPSS facilities is a risk.

Mr. W. L. Johnson (WHC) emphasized expedited response actions were to utilize existing technologies to the fullest extent possible. Dialogue with WPPSS will provide one mechanism for influencing further 618-11 ERA development.

Washington Department of Health noted that the project may be subject to NESHAPS permitting and monitoring requirements.

ACTION - Mr. R. G. McLeod, RL, will find out who in RL will address questions WPPSS may have regarding potential liability. The point-of-contact will be provided to Mr. M. J. Davidson and Ms. A. C. Marzette of WPPSS. Mr. McLeod may be contacted, on behalf of RL, for other questions regarding the 618-11 project.

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Historical Data

Ms. C. R. Webb, WHC, provided information regarding the history of the disposal site. Several photographs were presented. An unpublished 1982 study marked pipe caisson locations and made an aerial photograph of the 618-11 Burial Ground. Other photos showed transport casks, the truck for transporting waste to the pipe and caisson units, waste in 200W caissons and aerials of the 618-11 Burial Ground. Most waste appears to have been paper, plastics, glass, rubber, steel, aluminum cans, concrete, etc. Metallic sodium and potassium (NaK), beryllium residues, contaminated lead metal shielding, technetium oxide, promethium oxide, zirconium cladding material, Sr-90, Pu-238, Np-237, Pu-239, U-235, U-233, Am-241, Cm-244, Cs-147, Pm-147, C-14, Co-60, Ru-103 and other fission products are suspected to have been disposed as well. Several copies of a Pacific Northwest Laboratory (PNL) study entitled, "*Characterization of the Hanford 300 Area Burial Grounds*," PNL-2557, (January 1980) were distributed to WPPSS, EPA, Ecology, WDOH and RL personnel. The study encompassed 618-11 as well as other 300 area burial grounds.

Wells

Mr. C. D. Kramer, WHC, presented results of a search of the Hanford Environmental Information System (HEIS) database concluded on February 4, 1993. Information was sought concerning chemical and/or radiological analyses associated with wells within Hanford plant coordinates N17500, N5500, W6500, and E6500. (Plot plan H-6-930 lists the approximate NW corner of 618-11 as N12478, W3562; the SE corner as N12103, W2562). The search focused on wells listed on Attachment 4 of these minutes. (Other wells are <u>known</u> to have existed in the area. All <u>known</u> wells specifically deleted from the search were seismic shot holes with very little possibility of any associated soil and/or groundwater analytical sampling data). The search produced year of the

sample, analytical class, and number of results per class. The *total* number of results associated with each well are shown below. Some of the data is historical and not validated equivalent to current practice. Wells not shown may have data, but it is not available in this major database. Wells names reflect their location. An explanation of well names and details such as coordinates, casing diameter, drill depth, screen intervals, etc. may be found in the PNL publication *Hanford Wells*, PNL-6907 (McGhan 1989).

WELL NAME	COUNT	YEAR
699-11-1A	4	1973
699-12-4B	246	1984-1988
699-13-1A	99	1973-1981
699-13-1B	85	1973-1981
699-13-1C	74	1980-1992
699-14-E6P	69	1966-1982
699-14-E6Q	83	1967-1981
699-14-E6R	60	1967-1981
699-14-E6S	62	1967-1981
699-14-E6T	101	1966-1988
699-17-5	587	1951-1992
699-9-E2	571	1958-1987

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Status of Monitoring

Mr. J. W. Schmidt, WHC, stated WHC has not yet started special environmental monitoring at either 618-10 or 618-11. Ms. C. J. Card, WPPSS, stated WPPSS has established TLDs around the perimeter of 618-11, taken some ionization chamber readings and collected some surface soil samples.

Around the Table-News/Issues/Concerns

Nothing significant to report.

USRADS Field Demonstration

The Ultrasonic Ranging and Data System (USRADS) is a computerized field data collection system capable of recording geographic location with radiological survey or other data. Current surveys are performed with either count rate or dose rate meters. Results of these spatially distributed variables can be output as plots or exported into other software packages for expanded graphical illustration.

USRADS surveys initiated February 4, 1993, at 618-11 Burial Ground. At their option, participants proceeded to the 618-11 site boundary where the USRADS units could be viewed in use.

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Attachment 1

Attendance Rooster

9413096.0531

ATTENDENCE ROSTER
618-11 EXPEDITED RESPONSE ACTION
ENVIRONMENTAL MONITORING/INTERFACE MEETING
February 4, 1993
WPPSS Conference Rm

NAME	ORGANIZATION	PHONE	MSIN or MAILING ADDRESS
John Schmidt	EES/WHC	373-2116	T1-30
Larry Gadbois	EPA	376-9884	B5-01
Ron Boom	EEM/WHC	373-4456	T1-30
NANCY LIZIEMBLO	WA ST. DEPT ECOLOGY	736-3014	7601 W. Clear Water Kennewick 99336
Allan Danielson	WDOH	545-2209	2 South 45th Ave Yakima, WA 98902
FRED ZWIESLER	WDOH	545-2209	" "
Conan Wade	WHC HP	3763770	N1-06
Hal Downey	WHC-ER Program	376-0568	
BOB McLEOD	DOE-RL	372-0096	A5-19
Wayne Johnson	WHC-Environ	376-1721	H4-06
Chris Smith	WHC-HP	376-3323	N1-06
Rodger Woodruff	PNL Env. Surveillance	376-7887	K6-13
Catherine J Card	WPPSS	377-8066	PSF, P.O. Box 968
Chris Kramer	WHC	376-4186	H6-04
Chris Webb	WHC	372-3204	H6-04
ANDREA MARTETTE	SS	372-5489	3000 GW Way MD 130
Murray Davidson	SS	372-5107	LEGAL-294
Tom Ericks	WA DOH	(206) 586-3306	OLYMPIA 98504
Vern Shockley	SS	377-8375	PO Box 968 MD 1020
Terry Christler	SS	377-8300	" "

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Attachment 2

Attendance Rooster

9413096.0533

9413096.0534

COURSE TITLE	
DATE	
LESSON CODE	
EXAM CODE	
INSTRUCTOR(S)	

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

EMERGENCY TRAINING ATTENDANCE RECORD

CLASS HOURS
STUDENT HOURS
PREP TIME
INSTRUCTOR TIME

☐ INITIAL ☐ MAILOUT
☐ REFRESHER ☐ PHASE

	STUDENT NAME (PRINT)	SIGNATURE	SOC. SEC. NO.	EMERGENCY POSITION	S/U	INSTRUCTOR USE
1	[illegible]					
2	DANIEL S. McGARVEY	[illegible]		JOHNSON + HIGGINS		
3	ANDREA C MARZETTE	Andrea C Marzette		SUPPLY SYSTEM		
4	John W. Schmidt	[illegible]		Westinghouse		
5	Larry Gadbois	Larry Gadbois		EPA		
6	Tom [illegible]	[illegible]		WESTINGHOUSE		
7	Allan Danielson	Robert A. Danielson		DEPT OF HEALTH		
8	John Erickson	John L. Erickson		DEPT OF HEALTH		
9	Catherine J. Card	Catherine J. Card		WPPSS		
1	MELINDA T DANIELSON	[illegible]	533-64-7506	ATTORNEY/SS		
2	Kris A. Smith	[illegible]		WHC Health Physics		
3	S.L. Demery	[illegible]		WHC Health Physics		
4	C.D. Wade	C.D. Wade		" " "		
5	F. ZWIESLER	[illegible]		WDOH		
6	NANCY UZIEMBLO	Nancy Uziembło		WA State Dept. Ecology		
7	Hal Downey	H.D. Downey		WHC		
8	BOB McLEOD	[illegible]		DOE		
9	Wayne Johnson	[illegible]		WHC		
10	Gary E. Christen	[illegible]		Supply System		
11	Chris Webb	Chris Webb		WHC		
12						
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21						

Attachment 3

Fiscal Year 1993 ERA Schedule

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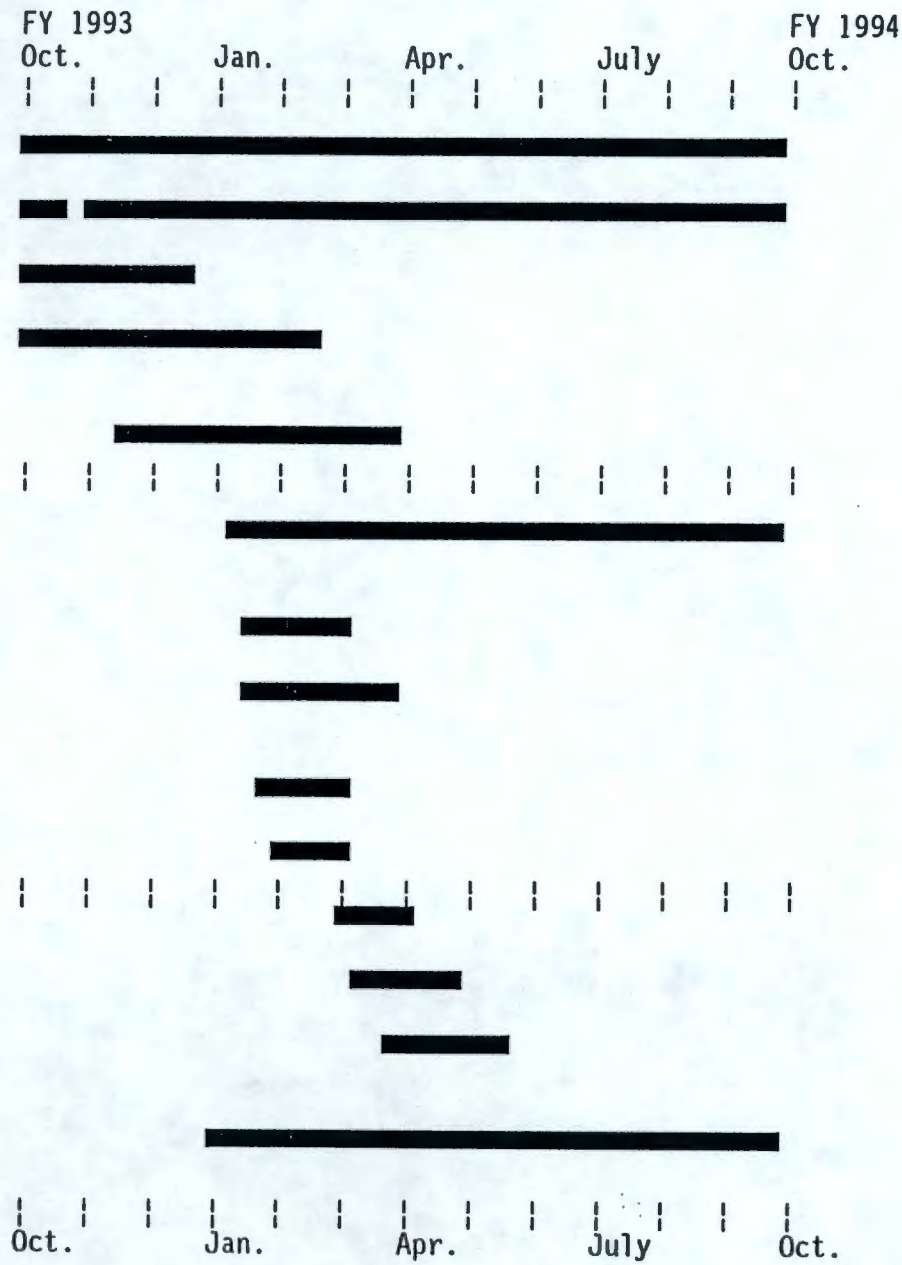
618-11 Burial Ground ERA FY93

Printed: February 1, 1993



Attachment 4

Focus List of Wells for HEIS Data Query

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FOCUS LIST OF WELLS FOR HEIS DATA QUERY

NAME	ZONE MONITORED	FORMER NAME (Hanford Wells 1989)
699-6-2		
699-6-2A	Upper Unconfined	BH-137
699-9-E2	Upper Unconfined	6-9-E4
699-9-E4A	Upper Unconfined	DB-18
699-9-E5A		BH-138 OR 6-9-E5
699-10-1	Upper Unconfined	B-24
699-10-2	Upper Unconfined	B-23
699-10-3A	Upper Unconfined	B-36
699-10-3B	Upper Unconfined	1A-SP-8
699-10-3C	Upper Unconfined	
699-10-3D	Upper Unconfined	
699-10-3E	Upper Unconfined	
699-10-3F	Upper Unconfined	
699-10-5A		
699-10-5B		
699-10-E3A	Destroyed	DB-3
699-10-E3B	Destroyed	DB-11
699-10-E3C	Upper Unconfined	DB-17
699-10-E4A	Upper Unconfined	DB-4
699-10-E4B	Upper Unconfined	1B-SP-13
699-10-E4C	Upper Unconfined	DB-7
699-10-E4D	Destroyed	DB-8
699-10-E4E	Destroyed	DB-8A
699-10-E4F	Destroyed	DB-8A Redrill
699-10-E4G	Upper Unconfined	DB-9
699-10-E4H	Destroyed	DB-10
699-10-E4J	Destroyed	DB-10A
699-10-E5A	Shot Hole	(DB-19)
699-10-E5B	Destroyed	1C-SP-6
699-11-0A	Upper Unconfined	CONS#3WPPSS2
699-11-0B	Destroyed	B-16
699-11-1A	Upper Unconfined	CONS#2WPPSS2
699-11-1B	Upper Unconfined	B-14
699-11-1C	Upper Unconfined	B-15
699-11-1D	Destroyed	B-19
699-11-1E	Upper Unconfined	B-22
699-11-1H	Upper Unconfined	B-33
699-11-1J	Destroyed	B-34
699-11-1K	Upper Unconfined	B-17
699-11-2	Destroyed	B-21
699-11-3	Upper Unconfined	B-18
699-11-E3A	Destroyed	DB-13
699-11-E3B	Destroyed	DB-13A
699-11-E3C	Destroyed	DB-15
699-11-E3D	Destroyed	DB-12
699-11-E4C	Destroyed	DB-14
699-11-E4D	Destroyed	DB-16
699-11-E4E	Destroyed	DB-1, BH-140
699-12-1A	Upper Unconfined	B-12, CONS.#1 WPPSS 2
699-12-1B	Destroyed	B-1
699-12-1C	Destroyed	B-2
699-12-1D	Destroyed	B-3
699-12-1E	Destroyed	B-4
699-12-1F	Destroyed	B-5
699-12-1G	Destroyed	B-6
699-12-1H	Destroyed	B-7
699-12-1J	Destroyed	B-8
699-12-1K	Destroyed	B-9
699-12-1L	Destroyed	B-10
699-12-1P	Destroyed	B-29
699-12-1Q	Destroyed	B-30
699-12-1R	Destroyed	B-31
699-12-1S	Destroyed	B-32
699-12-2A	Upper Unconfined	B-SP-6, 6-12-2
699-12-2B	Shot Hole	(B-13)
699-12-4A	Shot Hole	(6-12-4)
699-12-4B	Shot Hole	(1D-SP-3)
699-12-4D	Upper Unconfined	
699-12-E3	Upper Unconfined	CB-16
699-13-1A	Upper Unconfined	WPPSS2 #1
699-13-1B	Upper Unconfined	WPPSS2 #2
699-13-1C		

2/4/93 MEETING MINUTES--ATTACHMENT 4

NAME	ZONE MONITORED	FORMER NAME (Hanford Wells 1989)
699-13-2A	Upper Unconfined	
699-13-2B	Upper Unconfined	B-35
699-13-2C	Destroyed	1D-SP-5
699-13-E2A	Destroyed	CB-5
699-13-E2C	Upper Unconfined	CB-14
699-13-E2D	Destroyed	
699-13-E3A	Destroyed	CB-3
699-13-E3B	Destroyed	CB-3AA
699-13-E3C	Destroyed	CB-3A
699-13-E3D	Upper Unconfined	CB-4
699-13-E3E	Destroyed	CB-8
699-13-E3F	Destroyed	CB-11
699-13-E3G	Destroyed	CB-12
699-13-E3H	Upper Unconfined	CB-15
699-13-E3J	Upper Unconfined	CB-17
699-13-E4A	Upper Unconfined	CB-18
699-13-E4B	Upper Unconfined	1C-SP-10
699-13-E4C	Destroyed	1C-SP-17
699-14-1A	Upper Unconfined	
699-14-E2A	Upper Unconfined	CB-7
699-14-E2B	Upper Unconfined	CB-6
699-14-E3A	Destroyed	CB-2
699-14-E3B	Destroyed	CB-9
699-14-E3C	Destroyed	CB-10
699-14-E3D	Upper Unconfined	CB-19
699-14-E3E	Upper Unconfined	CB-1, BH-142
699-14-E6P		
699-14-E6Q		
699-14-E6R		
699-14-E6S		
699-14-E6T		
699-15-0	Upper Unconfined	B-SP-9
699-15-3	Upper Unconfined	R2-SP-6
699-15-4	Upper Unconfined	R2-SP-7
699-15-E3A		BH-144, 6-15-E3
699-16-E3A	Upper Unconfined	1C-SP-14
699-16-E4A	Upper Unconfined	BH-139A, 6-16-E4
699-17-3	Shot Hole	B-20
699-17-5	Upper Unconfined	USGS NO.9 17.4-4.5

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