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Meeting Minutes Transmittal - Approved

Unit Managers Meeting
304 CONCRETION FACILITY
FEDERAL BUILDING, RM 784-A
Richland, Washington

Meeting Held August 25, 1994
From 1:00 pm to 2:00 pm

Via video teleconference

The undersigned indicate by their signatures that these meeting minutes reflect the actual occurrences of the above dated Unit Managers Meeting.

for Date: 12/13/94
Randal N. Krekel, Unit Manager, RL

Not Present
Date:
Daniel L. Duncan, RCRA Program Manager, EPA Region 10

Date: 12/13/94
Scott E. McKinney, Unit Manager, Washington State Department of Ecology

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304 Concretion Facility, WHC Concurrence

Date: 12/13/94
Fred A. Ruck III, Contractor Representative, WHC

Date: 12/14/94
Ivan L. Metcalf Contractor Representative, WHC

Purpose: Discuss Permitting Process

Meeting Minutes are attached. The minutes are comprised of the following:
Attachment 1 - Agenda
Attachment 2 - Summary of Discussion and Commitments/Agreements
Attachment 3 - Attendance List
Attachment 4 - Action Items
Attachment 5 - Radiological Work Permit RWP NO. V-051
Attachment 6 - Hazardous Waste Operations Plan for 304 RCRA Decontamination, Rev. 0
Attachment 7 - Draft Workplan for 304 Closure Activities
Attachment 8 - Open DQO Issues

Attachment 1

Unit Managers Meeting
304 CONCRETION FACILITY
FEDERAL BUILDING, RM 784-A
Richland, Washington

Meeting Held August 25, 1994
From 1:00 pm to 2:00 pm

Via video teleconference

Agenda

1. Approval of Past UMM Minutes

2. Status Action Items

   - 7-15-94:1 NOD comments on Revision 2

3. Status Closure Activities

   - Documents for Closure Activities
   - Status of Ecology's Review of Closure Plan Revision 2
   - Develop schedule to support public review
   - Status of Decontamination/Sampling Activities
   - Status of Sampling Analysis Plan

4. New Business

5. Set Next Meeting Date

Attachment 2

Unit Managers Meeting
304 CONCRETION FACILITY
FEDERAL BUILDING, RM 784-A
Richland, Washington

Meeting Held August 25, 1994
From 1:00 pm to 2:00 pm

Via video teleconference

Summary of Discussion and Commitments/Agreements

1. Approval of Past UMM Minutes

No meetings were held in February 1994, March 1994, April 1994, and June 1994. The May 4, 1994 and July 15, 1994 meeting minutes are under review.

2. Status Action Items

- 7-15-94:1 NOD comments on Closure Plan Rev. 2 by August 1, 1994.

This action is open. Ecology did not provide NOD comments on the closure plan by August 1, 1994. Ecology's due date for the comments was changed to September 9, 1994.

3. Status Closure Activities

- Documents for Closure Activities

The following closure activities documents had been supplied directly to Ecology (S. E. McKinney) and are being entered into the administrative record: Radiological Work Permit RWP NO. V-051 (attachment 5), Hazardous Waste Operations Plan for 304 RCRA Decontamination, Rev. 0 (attachment 6), and Draft Workplan for 304 Closure Activities (attachment 7).

WHC (J. G. Adler and J. A. Remaize) stated that Ecology would be provided with a copy of the final Workplan plus the latest revisions of the other documents.

- Status of Ecology's Review of Closure Plan Revision 2

Ecology (S. E. McKinney) and RL (R. N. Krekel)/WHC (J. G. Adler) discussed the need to get NOD comments on the Closure Plan Rev. 2. Ecology did not supply any comments by August 1, 1994 (Action Item 7-15-94:1). By mutual agreement, the Ecology promised to provide NOD comments by September 9, 1994. These comments, when combined with the DQO information, will allow the revision of the closure plan so it will be ready for inclusion in the Hanford Facility Permit.

- **Develop schedule to support public review**

Ecology (S. E. McKinney) and RL (R. N. Krekel)/WHC (J. G. Adler) discussed the development of a schedule to support public review. The NOD comments need to be received before a schedule can be developed.

- **Status of Decontamination/Sampling Activities**

Ecology (S. E. McKinney) was updated by WHC (J. G. Adler, J. A. Remaize, and J. L. Wright) on the status of the decontamination activities at the 304 Facility. Initial set-up work started on August 11, 1994. The ceiling and east wall have been decontaminated. As stated in previous UMMs, the decontamination consists of vacuuming the surface to remove any loose materials, followed by a damp wipe down. Decontamination is expected to be completed by about September 2, 1994. RL/WHC invited Ecology to come out and view the decontamination. Ecology indicated interest in viewing the decontamination but that the schedule for next week still need to be firmed up.

The administrative barrier added for the decontamination and sampling effort was discussed. The administrative barrier consist of a plastic chain around the building with appropriate warning signs.

- **Status of Sampling Analysis Plan**

WHC (J. G Adler) updated Ecology (S. E. McKinney) on the status of the Sampling/Analysis Plan (SAP). The RL comments on the SAP are currently being incorporated. There are a few data quality objective (DQO) issues that need additional discussion prior to finalizing the SAP. (See "Additional discussion of the DQO Issues" in the New Business section.) The current schedule has the SAP being provided to Ecology on September 19, 1994.

WHC also informed Ecology that a quick turn-around and response from Ecology would be beneficial in getting the sampling started. Ecology stated that they understand RL/WHC's need and will provide a response as quickly as possible.

4. New Business

- **New RL Unit Manager**

RL (R. N. Krekel) stated that he is being replaced as the RL Unit Manager by E. M. Mattlin.

- **Status of Concrete VOA Procedure**

WHC (F. A. Ruck) updated Ecology (S. E. McKinney) on the status of the concrete volatile organics analysis (VOA) procedure. The concrete VOA procedure is intended to support both the 300 Area Solvent Evaporator (300 ASE) and the 304 Concretion Facility. (The 300 ASE Ecology Unit Manager is R. E. Cordtes.) The 300 ASE samples were analyzed and no volatile organics were detected. However, quality control samples run

to support the development of the procedure are not giving useful results. Work is continuing to validate the procedure. Ecology will be kept updated on the status of the development work.

- **End Date for Work at the 304 Concretion Facility**

Ecology (S. E. McKinney) asked when data from the sampling and analysis would be available to determine the extent of contamination and what actions would be required. WHC (J . G. Adler) responded that preliminary, un-validated data should be available in November, 1994. This would indicate the extent of contamination and what future actions need to be considered. RL/WHC would give Ecology a report at the UMM on the results. Validated data would be available about the end of January, 1995. The validated data would then be discussed at the February UMM. A copy of the validated data would then be made available to Ecology.

If the 304 Facility is shown to be clean, then the final report and certification would be completed in May, 1995. The delay from January 1995 to May 1994 is the time required to write the final reports, get the professional engineer's certification, and prepare the package for transmittal to Ecology.

- **Additional discussion of the DQO Issues**

A supplemental data quality objectives (DQO) discussion held as part of this UMM. The minutes to this meeting are included below.

A. Attendees:

J. G. Adler	WHC
J. K. Bartz	GSSC
K. E. Knox	WHC
E. M. Mattlin	RL
S. E. McKinney	Ecology (via video telecon)
J. L. Wright	WHC

B. The purpose of this meeting was to discuss several DQO issues that either were not covered or not covered in sufficient detail at the May 31 to June 1, 1994 DQO meeting. These issues need to be resolved before the 304 Facility Sample and Analysis Plan can be completed.

C. GSSC (J. K. Bartz) and WHC (J. G. Adler) discussed the Open DQO issues handout (attachment 8) with Ecology (S. E. McKinney). The handout presents information on the following topics: Data Validation level, data package requirements, depth of chip samples, solvent for use in wipe sampling, equipment and field blanks, trip blanks and the quality control samples for wipe samples, concrete core samples, asphalt core samples, soil samples, and concrete chip samples. GSSC and WHC explained each topic to Ecology's satisfaction.

D. On the handout's item 6, 2nd bullet, last sentence, the text was changed from "...if contamination from all sources is..." to read "if blank contamination is". This change was requested by Ecology (S. E. McKinney) and was made with the consent of GSSC (J. K Bartz) and WHC (J. G. Adler). This change is also included on the attachment 8 handout.

E. Ecology (S. E. McKinney) requested copies of *Data Validation Procedures For Radiological Analysis*, WHC-SD-EN-SPA-001, and *Data Validation Procedures For Chemical Analysis*, WHC-SD-EN-SPA-002. These items are identified on the handout and will be referenced in the 304 Concretion Facility Sample and Analysis Plan. WHC (J. G. Adler) stated that copies of these documents will be made and copies sent to Ecology.

F. Ecology (S. E. McKinney) indicated that there were no objections to the content of the handout. However, Ecology reserved the right to make additional comments on both the handout and on the Sampling and Analysis Plan. WHC (J. G. Adler) stated that RL and WHC understood Ecology's position.

G. The handout (with the agreed to change) and the minutes to this meeting will be added as a supplement to the May 31-June 1, 1994 DQO eeting minutes.

5. **Set Next Meeting Date**

The next Unit Manager's Meeting has be scheduled for September 20, 1994.

Attachment 3

Unit Managers Meeting
304 CONCRETION FACILITY
FEDERAL BUILDING, RM 784-A
Richland, Washington

Meeting Held August 25, 1994
From 1:00 pm to 2:00 pm

Via video teleconference

Attendance List

Name	Organization	Phone #
J. G. Adler	WHC	376-7513
R. N. Krekel	DOE-RL	376-4264
J. A. Remaize	WHC	372-1462
E. M. Mattlin	DOE-RL	376-2385
I. L. Metcalf	WHC	376-7675
J. L. Wright	WHC	376-1532
F. A. Ruck III	WHC	376-9876
E. A. Weakley	WHC	376-6122
J. K. Bartz	GSSC	372-2008
K. N. Knox	WHC	372-3596
via Teleconference:		
S. E. McKinney	Ecology	206-407-7146

Attachment 5

Unit Managers Meeting
303-K STORAGE FACILITY
FEDERAL BUILDING, RM 784-A
Richland, Washington

Meeting Held August 25, 1994
From 1:00 pm to 2:00 pm

Via video teleconference

TITLE - RADIOLOGICAL WORK PERMIT RWP NO. V-051

HANFORD RADIOLOGICAL WORK PERMIT

Contractor: WESTINGHOUSE HANFORD COMPANY

General [ ] / Job Specific [X]	Tech. Document No.	Location Code	EAN	RWP Number
	N/A	N/A	N/A	V-051

Start Date	End Date	Termination Date Extended To:	By
08/01/94	11/01/94		

Responsible Organization: NRFS

Job Location: 300 Area, 304 Building

Job Description and Type of Area: Decontaminate facility to remove suspect hazardous contamination using a HEPA vacuum, and soap/water and rags. All work is within a Surface Contamination Area.

Primary Isotope(s): [ ] MFP [ ] MAP [ ] Cs [ ] Sr [ ] H-3 [X] U [ ] Pu [ ] Other

Radiation Emitted	Estimated Dose Rates	Contamination Levels	Radiological Worker Training Req.
[X] Alpha	General Area: <0.5 mrem/hr	Beta-gamma: <50,000 dpm/100 cm^2	I [ ]
[X] Beta	Maximum Contact: <2 mrem/hr	Alpha: <3,000 dpm/100 cm^2	II [X]
[X] Photons			
[ ] Neutrons			

Internal Dosimetry Requirements (for routine work under this RWP, except those entering for observation only)
[X] Annual Whole Body Count [ ] Lung Count [X] Urinalysis Isotopes to Test for (if any):

MINIMUM RADIOLOGICAL PROTECTION REQUIREMENTS

HPT Coverage		Dosimetry	
X	Continuous	X	Multipurpose TLD
	Intermittent		Basic TLD
	Start of Job		Pocket Dosimeter
	End of Job		Electronic Dosimeter
	Self Survey (if qualified)		Finger Rings
X	HPT Survey Required		Time Keeping
	Auto. Survey Device	X	WRAM Access
X	See SI #2		See SI#

MINIMUM PROTECTIVE EQUIPMENT			
X	Coveralls		Shoe Covers
	Lab Coat	X	Canvas Boots
	Waterproof Suit	X	Rubber Overshoes
	Gortex Suit		Rubber Boots
	Cap		Full Face Respirator
X	Hood		PAPR
	Surgeon's Gloves		Supplied Air Respirator
	Leather Gloves		SCBA
X	Canvas & Surgeon's Gloves		
	Waterproof Gloves		
	No Personal Outer		Undressing Assistance
	Modesty Clothing		
	Other		See SI

SPECIAL INSTRUCTIONS (SI)

1. **GENERAL AREA HOLD POINT:**
   Removable Contamination: >50,000 dpm/100 cm^2 beta-gamma
   >3,000 dpm/100 cm^2 alpha
   Whole Body Dose Rates: >2 mrem/hr

   ACTION IF LEVELS EXCEEDED:
   a. Stop work and place work area into a safe condition.
   b. Notify Health Physics Manager.

2. Continuous coverage requires the HPT to be present in the work area while work is in progress.

3. A whole body survey shall be performed by the HPT at the exit from the SCA.

4. Contacts

Contacts	Phone	Page
HPT Office	6-3311	
Health Physics Manager	6-1135	85-8298
Operations	2-1462	

ALARA Review: Class 3 | Pre-Job Briefing: YES [X] NO [ ] | Post-Job ALARA Review Required YES [ ] NO [X]

RWP Prepared By: G. A. Davis		Phone: 376-5173	HPT Phone: 6-3311
Line Management: J. A. Remaize John A Remaize		Phone: 2-1462	Date: 7-29-94
Health Physics Supervisor: D. R. Ekstrom C R meineke for D. Ekstrom		Phone: 6-1135	Date
		Phone	Date

RWP Change Approvals:			Date:

Attachment 6

Unit Managers Meeting
303-K STORAGE FACILITY
FEDERAL BUILDING, RM 784-A
Richland, Washington

Meeting Held August 25, 1994
From 1:00 pm to 2:00 pm

Via video teleconference

TITLE - HAZARDOUS WASTE OPERATIONS PLAN FOR 304 RCRA DECONTAMINATION, REV. 0

1. Project Name 304 Concretion Facility RCRA Closure

Job Description Decontamination

Requested by J. L. Wright

Proposed Start-up Date 08-01-94 Rev. No. 0

APPROVALS - PRINTED NAME/SIGNATURE

Janet L Wright Date 7/26/94
J. L. Wright, Author

John A. Remaize Date 7-27-94
J. A. Remaize, Manager, Fuel Supply Shutdown

Jason G Adler Date 7-27-94
J. G. Adler, RCRA Closure

[illegible] for D.R Ekstrom Date 7-28-94
D. K. Ekstrom, Manager, 300 Area Health Physics

D B. Tullis Date 7/28/94
D. B. Tullis, Health and Safety Officer
Industrial Health and Safety

2. Project Description:

The closure strategy for the 304 Facility is to decontaminate the building to remove known or suspected hazardous contamination, followed by sampling for the constituents of concern. The closure criteria for the 304 Facility is to verify that potentially hazardous constituents treated, stored, or used are not present above action levels upon completion of this decontamination effort.

To facilitate closure, the 304 Facility will be divided into four components: the building, the floor, the storage pad (concrete and asphalt), and the soil. These four components will be evaluated separately for closure.

3. Location:

The 304 Facility is located within the 300-FF-3 (source) and 300-FF-5 (groundwater) operable units, as designated in the *Hanford Federal Facility Agreement and Consent Order* (Tri-Party Agreement) (Ecology et al. 1992). The 304 Facility is located in the northwest portion of the 300 Area, near an asphalt roadway. No 'legal' boundary exists for just the 304 Facility. However, for the purpose of this project, the boundary on the west, south, and east sides will be the median point between the adjoining buildings. On the north side, the boundary will be the edge of Gingko Street.

4. Facility/Work Site Description:

The 304 Facility was designed and constructed in 1952. In 1972, a change room was added. The main building is metal and measures approximately 26.3 feet by 48.2 feet. The ceiling has exposed steel trusses (girders). There are sliding metal doors at each end of the building and windows on the east side. The building has no interior insulation or wallboard. The floor area has a drainage trench, a floor drain (which has been plugged), and a sump area. The sliding metal doors are located in the north and south walls and a window is located on the east side of the change room. The change room is metal, with a concrete floor, and measures approximately 12.2 feet by 16.1 feet. The interior walls and ceiling of the change room are covered with wallboard and fiberglass insulation. In addition, there is an outside storage area on the north side of the 304 Facility. The storage area is a concrete pad surrounded by asphalt measuring approximately 22.7 feet by 19.5 feet.

5. Proposed Personnel and Job Functions:

Project Coordinator Jason Adler
Field Team Leader Janet L. Wright

Proposed Field Team	Job Function
D. B. Tullis	Health & Safety Officer
FSS Operators	Will Perform Decon Operations
HPT	Radiological Surveys
Samplers	Mobile Sampling

6. Confined Space Entry

Will this task require entry into any confined or partially confined space?
__ YES - Describe below
_X_ No

7. Cutting and Welding

Will this task involve use of a cutting torch or welding?
__ YES - Describe below
_X_ No

8. Other Potential Hazards

_X_ Chemical
_X_ Radiological
_X_ Heat Stress
_X_ Electrical
___ Fire/Explosion
_X_ Trips, Slips, Falls
___ Trenching/Shoring
_X_ Overhead Hazards
___ Unstable/Uneven Terrain
_X_ Other - Noise

9. Hazard Mitigation and Control

Chemical - The only chemicals of concern known to be in the 304 facility are lead, uranium, and asbestos. Other chemicals involved in this building were those involved in the repackaging of the 57 Spent Solvent Drums in 1988. No known spills were recorded during repackaging operations. MSDSs will be available at the site for all possible chemicals found in the 304 building. Upon inspections of the facility, no odors, appreciable stains or other indications of chemical contamination were noted.

Site workers must notify the Health & Safety Officer immediately in the event of any injury or any of the signs or symptoms of overexposure to hazardous substances identified below:

CHEMICAL HAZARD CATEGORIES

Substance	MSDS #	OSHA Exposure Limit	IDLH Level/ Excursion Limit	Target Organs	Health Effects
Asbestos	2252	0.2 fiber/cm^3 per 8 Hr.	1 fiber/cc per 15 minutes	Lung	Dyspnea, restricted pulmonary function.
Lead	1288	.15 mg/m^3	700 mg/m^3	GI Tract, CNS, kidneys, blood, gingival tissue	Weakness, fatigue, insomnia
Uranium ^{238}	2329	.2 mg/m^3	30 mg/m^3	Skin, bone marrow, lymphatic	Dermatitis

Asbestos - There is approximately 120 linear feet of asbestos on piping located inside the 304 building. The asbestos will be wrapped or removed before decon efforts commence.

Lead - Lead has been detected within the sump. Only two Operators will be involved in the vacuuming efforts within the sump. The duration of the job will be 10 to 20 minutes. The nature of the vacuuming activities will not disturb the lead, rather it will vacuum dust from the lead containing sump area. Due to the length and nature of the job, biological and area monitoring has been determined not to be appropriate. However the following personal protective equipment will be required; a minimum of full face Air Purifying Respirator with HEPA filters, non-porous, disposable coveralls, and Nitrile gloves (minimum of 5 mil). Following decontamination procedures in section 17, dispose of outer coveralls and nitrile gloves in a 6 mil plastic bag. Respirators must be wet wiped down.

Uranium/Radiological - Radiation Work Permit (RWP) V-051 has been provided for the 304 Deconning and sampling activities. The RWP will be followed for all activities, and may be modified as determined by Health Physics personnel. Each individual working in the facility shall read, and sign the RWP indicating understanding of the requirements.

Heat Stress - Workers may be exposed to high temperatures depending on weather conditions. When temperatures reach above 90 degrees F workers will follow work time limits established by the American Conference of Governmental Industrial Hygienists (ACGIH).

The ACGIH Heat Stress Threshold Limit Value (TLV) is the DOE standard for heat exposure for Hanford Operations. The Health and Safety Officer (HSO) will apply the ACGIH work-rest regimen. Deconning activities conducted within the 304 Building have been designated as a light to moderate work load. Drinking water will be provided in the support zone. At 90 degrees F dry bulb (standard thermometer), the HSO will implement ACGIH work-rest regimen. Engineered, Administrative and Personal Protective Equipment (PPE) controls which are in place to reduce heat stress include:

1) Work conducted within the 304 Building which provides solar shielding.
2) Building ventilation will be provided by maintaining north and south doors open during work shift.
3) Shift assignments which avoid work during the hottest portion of the day.
4) Use of breathable protective clothing.

Noise - The average sound level of an operating HEPA Vacuum is suspect for exceeding the 8 hour TWA of 85 decibels (Db). Hearing protection, with a minimum noise reduction rating of 26, shall be worn until WHC Health & Safety has performed a sound level meter reading to determine if noise levels are considered hazardous.

Electrical - All power sources that are inactive or non-energized will be locked out and tagged in accordance with WHC-CM-4-3, Standard G-1. All energized circuits will be dry wiped only.

Trips, Slips, Falls - Clean and orderly work areas must be maintained throughout the project to eliminate slipping and tripping hazards. Debris must be removed, walkways must be kept clear, and material must not obstruct the work area. While working with buckets of soap and water, care should be taken to avoid spilling water in work areas. If water is spilled, absorbent should be used immediately to avoid slipping on wet surfaces.

Overhead Hazards - While working on scaffolding to decon the ceiling area, care should be taken to avoid bumping into ceiling girders, hard hats shall be worn to protect workers.

10. Chemical/Radiological Hazard Evaluation

Waste Media	Hazardous Characteristics
___ Airborne Contamination	_X_ Ignitible
_X_ Surface Contamination	___ Corrosive
_X_ Contaminated Soil	___ Reactive
___ Contaminated Surface Water	_X_ Toxic (non-radiological)
_X_ Solid Waste	_X_ Radioactive
___ Liquid Waste	

Primary Hazard (Rate: neg, low, mod, high, ext) - All Negligible

Due to process knowledge of chemical constituents located within the 304 building, the hazard rating for chemical hazards are considered negligible. Upon inspections of the facility, no odors, appreciable stains or other indications of chemical contamination were noted.

11. Ambient Air/Site Monitoring Procedures

Wet Bulb Globe Temperature (WBGT) index monitoring has been conducted to evaluate heat stress conditions. These results were used to establish controls found in section 9.

12. Personal Monitoring

_____ Passive Dosimeter ____ Personal Air Sampling
_____ Other

13. Biological Monitoring/Medical Surveillance

No additional biological monitoring shall be required.

14. Action Levels

Radiological monitoring will be covered in section 22.

15. Onsite Control

Establishment of zone boundaries will be the joint effort of the Field Team Leader, Health & Safety Officer, and the Health Physics Technician (in radiation areas). Control of all zones with the exception of the Support Zone will be established by a physical barrier (chain, or rope). All Zone boundaries with the exception of the Support Zone will be clearly marked with temporary or permanent signs. The site control areas that have been established to control the spread of potential site contamination are described below.

ZONE DEFINITIONS

The Exclusion Zone is the area where hazardous/radiological contamination does or could occur. The Exclusion Zone is the entire inside of the 304 building. Access control points have been established at the periphery of the Exclusion Zone to regulate the flow of personnel and equipment into and out of the zone and to help verify that proper procedures for entering and exiting are followed. The access control point into the 304 Building has been established at the entrance to the building from the change room.

The Contamination Reduction Zone (CRZ) is the transition area between a contaminated area and a clean area where decontamination takes place. This zone is designed to reduce the probability that a clean support zone will become contaminated or affected by other site hazards associated with an Exclusion Zone. The CRZ will be sized as necessary to contain all decontamination activities. The CRZ for the 304 building is located just west of the Step Off Pad located in the change room.

The Support Zone is the location for administrative and other support functions needed to keep operations in the Exclusion and Contamination Reduction Zones running smoothly. The Support Zone is defined as any part of the site where workers should not be exposed to chemical or radiological hazards and where no personal protective equipment is required. The support zone is located in the Change Room adjoining the 304 building.

NOTE: *The HSO/FTL/HPT can, as necessary, make field modifications to the delineation of these zones. Potential reasons for change could be related to health and safety, environmental factors, or operational conditions. If operations dictate a change in the control zones, the health and safety of site personnel must be assessed before the changes are made.*

The FTL and/or HSO are designated to coordinate and control access on the work site during this task. No unauthorized person shall be allowed into any controlled work zone.

16. Personal Protective Equipment

Location	Job Function/Task	Initial Level of Protection
Exclusion Zone	Deconning and Sampling of Building Removing debris from sump area.	Level D Level C
Contamination Reduction Zone	Aid personnel exiting from the Exclusion Zone in doffing protective clothing and any Decon that is necessary.	Level D
Support Zone	Location for administrative and other support personnel. Location for Protective clothing and equipment storage, heat stress relief, etc.	Street Clothing is acceptable.
Rational: The main concern will be radiological. Per the RWP, level D protection, including 1 set of Anti-C coveralls, a hood, canvas and surgeon's gloves, canvas Boots, and rubber overshoes will be adequate for protection against any radiological concerns. During cleanout of the sump area level C protection, including an APR with a HEPA filter shall be worn to mitigate and concerns regarding inhalation of lead.		

List the specific protective equipment and material (where applicable) for each of the Levels of Protection identified above:

Level C

- X Full face canister Air Purifying Respiratory with HEPA Filter
- X Anti-C Coveralls
- X Hood
- X Safety glasses or face shield
- X Canvas Boots
- X Rubber Overshoes
- X Canvas gloves outer/inner surgical

Level D

- X Anti-C Coveralls
- X Hood
- X Safety glasses or face shield
- X Canvas Boots
- X Rubber Overshoes
- X Canvas gloves outer/inner surgical

* NO CHANGES TO THE SPECIFIED LEVELS OF PROTECTION SHALL BE MADE WITHOUT THE KNOWLEDGE AND APPROVAL OF THE HEALTH AND SAFETY OFFICER.

17. Decontamination

Personnel and equipment leaving the Exclusion Zone shall use the following decontamination procedures for removing Anti-C clothing. Allowed deviations from this procedure will be those determined necessary by the HSO and HPT:

1. Empty all pockets
2. Remove Hood
3. Remove rubber shoes
4. Remove canvas gloves
5. Remove ALL tape
6. Place thumbs in breast pockets - open velcro on coveralls
7. Pull coveralls down to below knees - pull arms through sleeves
8. Remove outer surgeon's gloves
9. Remove coveralls, handling only the inside surface
10. Remove canvas shoe covers - step on Step-Off-Pad
11. Remove inner surgeon's gloves
12. Remove cloth liners (if worn)
13. Request whole body survey from HPT

EMERGENCY DECONTAMINATION PROCEDURES:

Serious personal injury takes precedence over decontamination procedures. Do not attempt personal decontamination if the injury will be aggravated. An injured person should first be removed from immediate danger. Then, if determined necessary by the HSO and HPT, decontamination can take place prior to leaving the site for medical treatment. If the extent of personal injury is unknown, Emergency Medical Response Personnel (Fire Department) will make the decision to move the injured. The HPT may have to escort the injured to the hospital.

18. Radiological Conditions

Contamination Potentials; Exposure Rates Expected Average/Maximum:
(Rate-neg, low, med, high, ext)

LOW	Alpha	LOW	Beta/Gamma
NEG	Gamma	NEG	Neutron

Smearability/Fixed: Low Whole Body/Extremity: Low

19. Health Physics Technician Coverage

___ None ___ Intermittent _X_ Continuous ___ See RWP No. _____

HPT Coverage Required When: While personnel are in the Exclusion Zone.

Authorized Health Physics Technicians:

Chuck Compenstine
Bonnie Standley
Bernie St. George

20. Personal Protective Equipment for Radiological Hazards

_X_ See RWP No. V-051

21. Radiation Dosimetry

___ Basic TLD _X_ HMPD ___ Pencil
___ Finger Ring ___ PADI ___ Timekeeping
___ Other Known Or Suspected Isotopes: Uranium

22. Radiation Monitoring

The following instruments shall be used to monitor the work environment for radiation.

__ Dose Rate Inst.	30min.	hourly	other _____
_X_ Alpha Detection Instrument	30min.	hourly	other As Needed
_X_ Beta/Gamma Detection Instrument	30min.	hourly	other As Needed

NOTE: HPT will survey areas prior to start of vacuuming and as needed.

23. Training/Special Requirements

All team members working in the exclusion zone must have the following training:

* 40-Hr Hazardous Waste Worker/ 8-Hr Annual Refresher(as applicable)
* Radiation Worker II Training
* Hearing Conservation Training
* Hazardous Waste Worker Medical Exam
* Whole Body Count

In addition to training, a pre-job safety meeting shall be conducted each day to review the planned work, lessons learned, and appropriate safety requirements.

Contingency plans for emergencies are contained with the Facility Orientation and Building Emergency Plan.

24. Sanitation Requirements

Portable toilets required on work site? ___ Yes If Yes, how many? ___
_X_ No If No, location of nearest facilities. 333 Building

Temporary washing/shower facilities required at work site? ___ Yes
If yes, describe below. _X_ No
If no, state location of existing facilities. 333 Building

25. Emergency Procedures

Yes No
_X_ ___ On-site Communications Required?

Nearest Telephone 304 Change Room

Fire and Explosion

1. Notify emergency personnel by calling 911
2. Evacuate the area.
3. If possible, isolate the fire to prevent spreading.
4. Notify Fuel Supply Shutdown Manager of emergency.

Onsite Injury or Illness

In the event of an injury requiring more than minor first aid, or any employee reporting any sign or symptom of exposure to hazardous substances, immediately take the victim to the First Aid Station located at East end of the 3706 Building Phone 376-3315. In the event of life-threatening or traumatic injury, implement appropriate first-aid and immediately call for emergency medical assistance at 911. The nearest designated trauma center is located at Kadlec Hospital, Richland. Phone 946-4611. The HPT may be required to accompany the injured to the hospital, if radiation contamination is involved.

Designated Personnel Current in First Aid/CPR (Names)

Name	Function
Brad Tullis	HSO

Designated Back-Up Personnel

Chuck Compenstine, Bonnie Standley	HPT's

Emergency Response Authority:

Janet Wright and/or HSO is the designated Site Emergency Coordinator and has final authority for first response to on-site emergency situations. The FTL and HSO will be responsible to assure complete site evacuation during an emergency, if necessary. Emergency drills will be conducted periodically, as necessary. Upon arrival of the appropriate emergency response personnel, the

Site Emergency Coordinator shall defer all authority but shall remain on the scene if necessary to provide any and all possible assistance. At the earliest opportunity, the Health & Safety Officer or the Site Emergency Coordinator shall contact the WHC Project Coordinator.

Project Coordinator	Jason Adler	Phone	376-7513	
Field Team Leader	Janet Wright	Phone	376-1532	
Health and Safety Officer	Brad Tullis	Phone	376-5315	Pager 85-7211

Location of Emergency Equipment:

Fully charged ABC Class fire extinguisher - Located in change room.
Fully charged Met-L-X fire extinguisher - Located at North end, inside building.

26. Safety Briefing

All field team members and alternates shall attend a pre-job safety briefing prior to entry into the hazardous waste site. Evidence of the briefing may be on a Course Completion Roster (54-6400-063 6/91) for Hazardous Waste Site Facility Orientation (course #000057), or in the field log book. Site workers must notify the Health & Safety Officer immediately in the event of any injury or any of the signs or symptoms of overexposure to hazardous substances.

27. Field Procedures Change Authorization (FPCA)

The Field Team Leader, HSO, and HPT are authorized to make reasonable and appropriate changes in procedures designated in the HWOP, contingent upon verbal authorization from the Health and Safety Officer. Adequate justification for all FPCA's must be provided. Justification for changes include, changing field conditions related to radiological, chemical, and/or physical hazards, and environmental conditions.

All job site field team personnel must be briefed immediately on verbally authorized field changes and documented in the field logbook or site monitoring log sheet. Written authorization must follow within 48 hours of verbal authorization. In addition, all FPCA's shall be distributed to all official HWOP copy holders.

Field Procedures Change Authorization

Instruction Number to be changed: _____

Duration of Authorization Requested: Date:_____

___ Today only
___ Duration of Task

Description of Procedures Modification:

Justification:

Person Requesting Change:

Verbal Authorization Received From:

Name _____ Date _____ Time _____

Name _____ Title _____

Signature _____ Approved By _____

(Signature of person named above to be obtained within 48 hours of verbal authorization)

Attachment 7

Unit Managers Meeting
303-K STORAGE FACILITY
FEDERAL BUILDING, RM 784-A
Richland, Washington

Meeting Held August 25, 1994
From 1:00 pm to 2:00 pm

Via video teleconference

TITLE - DRAFT WORKPLAN FOR 304 CLOSURE ACTIVITIES

*** INFORMATION ONLY ***

J-1 WORK REQUEST (W110)

10:53:38 29 JUL 1994

DRAFT

1. Document Number 3C-94-00142/W *GENERIC WORK ITEM*
2. Work Item Title DECON 304 BUILDING FOR RCRA CLOSURE.

3. System N/A

4. Components

Component Number	Name
N/A	

Temporary Number	Name
N/A	

5. Location

Facility 3C *N FUELS WORK CONTROL CENTER*
Bldg/Rm 304 Other Other

6. Associated Components

Component Number	Name
N/A	

			Date	Organization
7. Originator Name	WRIGHT,JL		06/20/94	19800
Telephone No.	376-1532	MSIN L6-26		

8. Charge Code K32GM

9. Work Item Description

DECON 304 BUILDING BY VACUUMING THEN WIPING DOWN WITH SOAP AND WATER.

		Signature	Date
10. Operations Review	X	STEPHENSON,RL	06/20/94
11. Priority		2	
12. Phase Designator		2SB *BEGINNING OF SUMMER 6/20-7/19*	
13. Correct Maint. Assessment		N	
14. Personnel Safety Related		N	

15. Cognizant Engineer WRIGHT,JL
16. Cognizant Manager REMAIZE,JA

17. Reference Documents Type

18. Comments

J-1 WORK REQUEST (W110)

*** INFORMATION ONLY ***

DRAFT

1. Document Number 3C-94-00142/W *GENERIC WORK ITEM*
2. Work Item Title DECON 304 BUILDING FOR RCRA CLOSURE.

*** INFORMATION ONLY ***

J-4 RESOLUTION/RETEST (W140)

10:53:58 29 JUL 1994

1. Document Number 3C-94-00142/W *GENERIC WORK ITEM*
   Work Item Title DECON 304 BUILDING FOR RCRA CLOSURE.

2. Essential Systems N/A
3. Resolution
   SEE ATTACHED J-4A FOR RESOLUTION.

4. Impact Level/Approval Designators 3-S

5. Tech Spec/OSR Requirements/Reference
   N/A

6. Reference Documents Type

7. Comments

8. Retest Requirement N
9. Mode ANY
10. Retest

11. QC Involvement in Retest NONE

12. PIC WRIGHT,JL

13. PIC Org. N-FUELS

	Signature	Date
14. Resolution By		

15. Plant Forces Work Review Required N Number

16. Approvals	Signature	Date
Cognizant Engineer		
Cognizant Manager		
Environmental Assurance		
Health/Safety Assurance		
Quality Assurance		
Additional Approvals		

17. Resources Required

Res Code	Description	No.	Est Hrs	Act Hrs
800	Operations Personnel	3	80	

	Signature	Date
18. Field Work Complete		
19. Retest Satisfactory		
20. QC Verify Retest (If Required)		

1. Document Number 3C-94-00142/W *GENERIC WORK ITEM*
   Work Item Title DECON 304 BUILDING FOR RCRA CLOSURE.

DRAFT

DRAFT

Document Number 3C-94-00142/W *GENERIC WORK ITEM*
Work Item Title DECON 304 BUILDING FOR RCRA CLOSURE.

Resolution

304 BUILDING RCRA CLOSURE DECON
J-4A RESOLUTION

1.0 PURPOSE

THIS PROCEDURE DETAILS THE TASKS REQUIRED TO DECON THE 304 BUILDING TO COMPLY WITH THE RCRA CLOSURE. THE CLOSURE STRATEGY FOR THE 304 FACILITY IS TO DECONTAMINATE THE BUILDING TO REMOVE KNOWN OR SUSPECTED HAZARDOUS CONTAMINATION. THE CLOSURE CRITERIA FOR THE 304 FACILITY IS TO VERIFY THAT POTENTIALLY HAZARDOUS CONSTITUENTS TREATED, STORED, OR USED ARE NOT PRESENT ABOVE ACTION LEVELS UPON COMPLETION OF THIS DECONTAMINATION EFFORT.

THIS PROCEDURE IS NOT INTENDED TO GIVE A STEP-BY-STEP DETAILED DESCRIPTION OF THE DECONTAMINATION OPERATION INVOLVED, BUT IS MEANT TO OUTLINE THE WORK STEPS THAT MUST BE ACCOMPLISHED TO COMPLETE THE DESCRIBED TASK.

2.0 REFERENCES

2.1 DOE/RL-90-03, 304 CONCRETION FACILITY CLOSURE PLAN.

2.2 WHC-CM-4-3, INDUSTRIAL SAFETY MANUAL, STANDARD NO. G-9, "SCAFFOLDING SAFETY" STANDARD NO. PP, "PERSONAL PROTECTIVE EQUIPMENT".

2.3 DOE-RL-92-36, HANFORD SITE HOISTING & RIGGING MANUAL.

2.4 WHC-CM-4-3, INDUSTRIAL SAFETY MANUAL, VOL. 4, SECTION HWO-1, APP. B REV 0, "JOB SAFETY ANALYSIS".

3.0 PERSONNEL REQUIREMENTS

3.1 FUEL SUPPLY SHUTDOWN METAL OPERATORS WILL COMPLETE THE ACTUAL DECON WORK. A FULL TIME HPT, A SITE SUPERVISOR, AND A PROFESSIONAL ENGINEER WILL BE ON SITE.

4.0 PRECAUTIONS AND LIMITATIONS

4.1 REVIEW ALL APPLICABLE JOB HAZARD POSTING'S WHICH

1. Document Number 3C-94-00142/W *GENERIC WORK ITEM*
Work Item Title DECON 304 BUILDING FOR RCRA CLOSURE.

PORTABLE SCAFFOLDING WILL BE LOCATED WITHIN THE 304 BUILDING TO BE USED TO REACH THE CEILING AND GIRDERS

7.0 FALL PROTECTION PLAN

NOTE: THIS PLAN MITIGATES FALL HAZARDS OF TEN (10) FEET OR MORE.

7.1. THE FALL HAZARDS ASSOCIATED WITH THIS JOB ARE:

A) WORKING ON A SCAFFOLD WHILE DECONNING CEILING AND UPPER WALLS.

7.2. THE METHOD OF FALL ARREST OR FALL RESTRAINT TO BE PROVIDED CONSISTS OF:

ASSURING THAT THE HAND RAILS ARE IN A SECURED POSITION BEFORE DECONNING CEILING AND UPPER WALLS.

8.0 INSTRUCTIONS

ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH APPLICABLE STANDARDS OSHA/WISHA AND WHC-CM-4-3, INDUSTRIAL SAFETY MANUAL.

WHEN THE DECON OF THE BUILDING BEGINS, THE AREA AROUND THE PERIMETER SHALL BE ROPED OFF.

PORTABLE FIRE EXTINGUISHER SHALL BE LOCATED AT THE WORK LOCATION AT ALL TIMES.

A HAZARDOUS WASTE OPERATIONS PERMIT HAS BEEN PREPARED ACCORDING TO WHC-CM-4-3 VOL. 4, SECTION HWO-1, APP. B REV 0, AND SHALL BE REVIEWED AND ADHERED TO.

ALL WASTE SHALL BE DISPOSED OF AS INVESTIGATION DERIVED WASTE PER WHC-CM-7-7 SECTION EII, 4.2 AND SECTION EII, 4.3.

NOTE: ALL WORK SHALL BE LOGGED IN 304 RCRA CLOSURE FIELD LOG BOOK PER WHC-CM-7-7 SECTION EII, 1.5.

8.1 ROPE OFF AREA SURROUNDING THE 304 BUILDING AT AN APPROXIMATE FIVE FOOT DISTANCE FROM THE WALLS OF THE BUILDING. POST WITH SIGNS

STATING IT IS A RCRA CLOSURE SIGHT AND ALL UNNECESSARY PERSONNEL SHALL STAY OUT.

8.2 VACUUMING

8.2.1 BEFORE PLUGGING IN VACUUM, CHECK TO ASSURE HEPA FILTER IS IN PLACE AND THAT A NEW BAG HAS BEEN INSTALLED. CHECK TO SEE THAT THE VACUUM'S (DOS) CERTIFICATION IS UP-TO-DATE.

8.2.2 PLACE PLASTIC BAG INSIDE A 15-GALLON BUCKET, WITH LID, TO BE USED AS A RETAINER FOR HEPA VACUUM SAMPLE COLLECTION.

NOTE: SCAFFOLDING WILL NEED TO BE MOVED AROUND THE BUILDING TO COMPLETE STEPS 8.2 AND 8.3. THEREFORE, STEPS 8.2 AND 8.3 MAY BE WORKED TOGETHER WHILE SCAFFOLD IS SET IN EACH LOCATION.

HOLD POINT: HAVE HPT CHECK FOR RADIOACTIVE CONTAMINATION ON CEILING AND GIRDERS, EACH TIME SCAFFOLDING IS MOVED, BEFORE VACUUMING AREA.

8.2.3 SET SCAFFOLD AT SOUTHEAST END OF BUILDING. MOVE SCAFFOLD FROM EAST TO WEST AND SOUTH TO NORTH. VACUUM ALL CEILING AREAS, GIRDERS, LIGHT FIXTURES, ETC. ASSURE THAT ALL AREAS HAVE BEEN THOROUGHLY VACUUMED AND ARE FREE OF DUST.

8.2.4 REMOVE TRENCH COVER, USING SCOOP SHOVEL, REMOVE AS MUCH DEBRIS AS POSSIBLE. PLACE DEBRIS IN A 17-C, 55-GALLON GALVANIZED DRUM WITH 90-MIL LINER PLACED INSIDE. VACUUM REMAINING DEBRIS FROM TRENCH.

8.2.5 REPLACE TRENCH COVERS.

8.2.6 VACUUM ALL WALLS FROM TOP TO BOTTOM.

NOTE: WHEN BAG IS FULL, REMOVE A SAMPLE OF CONTENTS, PLACE IN SAMPLE COLLECTION BAG. TIE VACUUM BAG SHUT AND TAPE AND PLACE INSIDE A 55 GALLON DRUM.

HOLD POINT: HAVE HPT MONITOR BAG BEFORE REMOVING FROM

HEPA VACUUM AND AFTER BAG HAS BEEN REMOVED AND SECURED CLOSED.

8.2.7 VACUUM ENTIRE FLOOR AREA.

8.2.8 REMOVE LAST BAG FROM VACUUM, EXTRACT SAMPLE AND PLACE IN DRUM.

8.2.9 REPLACE BAG IN VACUUM WITH NEW BAG. MINIMUM OF A 6 MIL PLASTIC.

8.2.10 SET UP 6 MIL PLASTIC BAG FOR REMOVAL OF DISPOSABLE TYVEX SUITS AND GLOVES.

8.2.11 AFTER DONNING DISPOSABLE TYVEX SUITS OVER ANTI-C CLOTHING, NITRILE GLOVES AND FRESH AIR MASKS:

NOTE: ONLY PERSONNEL WORKING WITHIN THE SUMP AREA WILL BE ALLOWED IN THE EXCLUSION ZONE AT THE TIME THE SUMP AREA IS BEING DECONNED.

8.2.12 REMOVE COVER TO SUMP AREA, USING HEPA VACUUM. REMOVE ALL DEBRIS. BE EXTRA CAREFUL NOT TO STIR UP ANY DUST.

8.2.13 REMOVE HEPA FILTER FROM VACUUM, PLACE IN 6 MIL PLASTIC BAG. WIPE DOWN HEPA VACUUM WITH SOAP AND WATER TO DECON FOR ANY POSSIBLE LEAD CONTAMINATION.

8.2.14 IF DISPOSABLE TYVEX SUITS ARE STILL CLEAN, WIPE DOWN BOTTOM, SIDES AND TOP OF SUMP AREA WITH SOAP AND WATER. REPLACE LID OF SUMP. IF TYVEX SUITS ARE SOILED:

8.2.15 REMOVE DISPOSABLE TYVEX SUITS AND GLOVES, DISPOSE OF THEM IN THE 6 MIL PLASTIC BAG WITH HEPA FILTER. USING SOAP AND WATER, WIPE DOWN FRESH AIR MASKS.

8.2.16 PUT ON NEW TYVEX SUITS, GLOVES AND MASK. COMPLETE WIPE DOWN OF SUMP PIT AND LIDS. REMOVE TYVEX AND GLOVES, DISPOSE OF THEM IN THE 6 MIL PLASTIC BAG WITH OTHER DISPOSABLE CLOTHING. WIPE DOWN FRESH AIR MASKS.

8.2.17 PUT ON A NEW PAIR OF NITRILE GLOVES TO CLOSE BAG. TAPE 6 MIL PLASTIC BAG CLOSED. LABEL WITH "LEAD" CONTAINING WASTE AND PLACE IN A DRUM. DISPOSE OF

GLOVES IN BAG WITH RAG WASTE.

8.3 WIPE DOWN

8.3.1 PLACE PLASTIC BAG IN A 17-C, 55-GALLON GALVANIZED DRUM WITH 90-MIL LINER PLACED INSIDE, TO BE USED AS A RETAINER FOR USED RAGS.

8.3.2 MIX SOAP AND WATER INTO A BUCKET, PUT CLEAN RAGS IN BUCKET TO ABSORB WATER. THESE RAGS WILL BE USED FOR THE DECONNING.

NOTE: EACH RAG SHALL BE PUT INTO BUCKET WITH SOAP AND WATER ONLY WHILE IT IS CLEAN. ONCE THE RAG HAS BEEN REMOVED FROM THE BUCKET, DO NOT RETURN IT TO THE BUCKET OF SOAP AND WATER. THE RAG SHALL BE DISPOSED OF IN A PLASTIC BAG.

NOTE: SCAFFOLDING WILL NEED TO BE MOVED AROUND THE BUILDING TO COMPLETE STEPS 8.2 AND 8.3. THEREFORE, STEPS 8.2 AND 8.3 MAY BE WORKED TOGETHER WHILE SCAFFOLD IS SET IN EACH LOCATION.

8.3.3 STARTING AT THE SOUTH END OF THE BUILDING, AT THE CEILING, WIPE DOWN ALL INTERIOR SECTIONS OF THE BUILDING, CEILING, GIRDERS, LAMPS, ETC.

8.3.4 PROCEED WITH WIPE DOWN OF THE WALLS, STARTING FROM THE TOP AND WORKING DOWN.

CAUTION: CARE SHOULD BE TAKEN NOT TO SLOP SOAP AND WATER ON THE SCAFFOLDING OR THE FLOOR. IF THE AREA GETS SLIPPERY, BE SURE TO COVER SPILL WITH ABSORBENT. MAKE SURE ABSORBENT IS CLEANED UP AND PUT IN A 55-GALLON DRUM FOR PROPER DISPOSAL.

8.3.5 REMOVE TRENCH COVER, WIPE DOWN INTERIOR OF TRENCH AND FLOOR OF TRENCH. WIPE DOWN BOTTOM, SIDES, AND TOP OF TRENCH COVER. REPLACE TRENCH COVER.

8.3.7 STARTING AT SOUTH END OF BUILDING, WIPE DOWN FLOOR. CLEAN ENTIRE FLOOR, FINISHING AT STEP OFF PAD AREA. MOVE DRUMS, BUCKETS,

1. Document Number 3C-94-00142/W *GENERIC WORK ITEM*
Work Item Title DECON 304 BUILDING FOR RCRA CLOSURE.

SCAFFOLDING, ETC. AS NEEDED.

9.0	WORK COMPLETION CHECKLIST	INITIAL	DATE
	(All sign-offs to be completed by PIC unless otherwise noted.)		
9.1	AREA IS ROPED OFF AND SIGNS ARE POSTED.	____	____
9.2	CHECK HEPA FILTER ON VACUUM.	____	____
9.3	CHECK VACUUM DOS CERTIFICATION	____	____
9.5	PREPARE DRUM FOR RAG DISPSOAL.	____	____
9.6	PREPARE 15-GALLON DRUM FOR SAMPLING.	____	____
9.7	CEILING/WALLS VACUUMED.	____	____
9.8	VACUUM TRENCH.	____	____
9.9	VACUUM BAG SAMPLES TAKEN AND VACUUM BAGS CONTAINED.	____	____
9.10	SUMP AREA VACUUMED AND WIPED DOWN.	____	____
9.11	DEBRIS FROM CLEANING SUMP AREA BAGGED AND PROPERLY LABELED.	____	____
9.12	HEPA FILTER REMOVED AND CONTAINED.	____	____
9.13	FRESH AIR MASKS PROPERLY WIPED DOWN.	____	____
9.14	CEILING AREA WIPE-DOWN COMPLETE.	____	____
9.15	WALL WIPE DOWN COMPLETE.	____	____
9.16	TRENCH WIPE DOWN COMPLETE.	____	____
9.17	FLOOR WIPE DOWN COMPLETE.	____	____
9.18	USED RAGS CONTAINED.	____	____
9.19	304 DECON EFFORT COMPLETE.	____	____

Attachment 8

Unit Managers Meeting
303-K STORAGE FACILITY
FEDERAL BUILDING, RM 784-A
Richland, Washington

Meeting Held August 25, 1994
From 1:00 pm to 2:00 pm

Via video teleconference

TITLE - OPEN DQO ISSUES

Open DQO Issues

1. DATA VALIDATION LEVEL

Data validation will be conducted to Level D as defined in the *Data Validation Procedures For Radiological Analysis* (WHC 1993a) and *Data Validation Procedures For Chemical Analyses* (WHC 1993b), as appropriate. Level D validation consists of the following:

- verification of required deliverables
- verification of requested versus reported analyses
- verification of transcription errors
- evaluation and qualification of results based on analytical holding times
- matrix spikes
- laboratory control samples (radiological samples only)
- laboratory duplicates
- analytical method blanks
- chemical recoveries
- tracer recoveries
- surrogate recoveries
- initial and continuing instrument calibrations
- quench monitoring
- counting instrument resolution checks
- calculation checks.

2. DATA PACKAGE REQUIREMENTS

Data Packages will of the "stand-alone" type. There will be 100% validation due to the small size of the sample set and that similar types of samples (e.g., all wipe samples) can be batch analyzed at the analytical laboratory. The SAP will specify that the samples be batched.

3. DEPTH OF CHIP SAMPLES

Chip samples will be taken to a depth of approximately 3/8 inches. Rational: Work at 183-H showed that contamination was only in the top 1/4 inches of the concrete.

4. CHOICE OF TCLP EXTRACTION SOLUTION FOR WIPE SAMPLING

TCLP extraction fluid no. 2 has been specified in the SAP as the solvent for wipe sampling. The rational for selection of extraction fluid no. 2 over no. 1 is that extraction fluid no. 2 is the stronger of the two weak acid solutions. Extraction fluid No. 1 has a pH of 4.93 and extraction fluid No. 2 has a pH of 2.88. As a stronger acid, extraction fluid No. 2 would probably remove more contaminants. Neither is strong enough to significantly affect the substrate.

5. EQUIPMENT AND FIELD BLANKS

There are two possible media for use with the Equipment and Trip blanks:

- Certified Clean Silica Sand (representative of soil and concrete)
- Deionized Water (better sensitivity to contamination)

Recommend the use of deionized water.

6. TRIP BLANKS

Propose to eliminate trip blanks for volatile organics in soil:

- Neither sand nor DI water is a suitable medium for a trip blank for soil. Sand has little to no affinity for adsorbing volatile organics. Water absorbs organics, whereas soil primarily adsorbs organics; because the mechanism is different, water is not a suitable material.

- The field or equipment blanks will "trip" with the routine samples and will contain any volatile contamination that may be present. Because this is not a research-oriented project, there is no interest in determining the source of any possible contamination. We are aware that, if contamination ~~from all sources~~ is detectable, we will have to repeat sampling.

Change per verbal agreement JA Adler JK Banks SE McKinney

Blank

7. QC FOR WIPE SAMPLING

The following are the field quality control samples to be collected for the wipe samples:

- One duplicate wipe sample for inorganic analysis. The duplicate will be collected from a 100 cm^2 adjacent to the original sample, i.e. within the 1 m^2 sample grid. The sample will be collected from the random sample grid location shown in Figure 8.

- One equipment blank (clean filter paper with TCLP extraction fluid No. 2) for inorganic analysis per day of wipe sampling. This sample will remain sealed during the sampling event and the filter paper will not be handled in the field.

- At least one field blank (clean filter paper with TCLP extraction fluid No. 2) collected per day of wipe sampling or for each 20 samples. The filter paper will be removed from the container and exposed to air for the same amount of time required to collect a wipe sample.

In addition to the quality control samples listed above, one confirmatory wipe sample will be collected. This sample will only be taken once during the sampling of the 304 Concretion Facility.

- One confirmatory wipe sample for inorganic analysis. The confirmatory sample will be collected from the same 100 cm^2 area as the original wipe sample. The sample will be collected from the random sample grid location shown in Fig. 9.

8. QC FOR CONCRETE CORE SAMPLES

The requirements for the field blanks for the concrete core and asphalt core samples collected at the 304 Concretion Facility are as follows:

- One duplicate concrete core sample for inorganic analysis. The sample will be collected from the random sample location shown in Figure 3.
- One duplicate concrete core sample for volatile organic analysis. The sample will be collected from the random sample location shown in Figure 3.
- One equipment blank for inorganic analysis per day of sampling.
- If field decontamination procedures are used, collect at least one field blank collected per day of sampling or for each 20 samples

The cores will be collected as close to each other as possible.

9. QC FOR ASPHALT CORE SAMPLES

The requirements for the field blanks for the concrete core and asphalt core samples collected at the 304 Concretion Facility are as follows:

- One duplicate asphalt core sample for inorganic analysis. The sample will be collected from the same sample location as the asphalt core sample collected on the outside east of the building. See Section 5.6 of the SAP for details on the location.
- One equipment blank for inorganic analysis per day of sampling.
- If field decontamination procedures are used, collect at least one field blank collected per day of sampling or for each 20 samples

The cores will be collected as close to each other as possible.

10. QC FOR SOIL SAMPLES

The requirements for the field blanks for the soil samples collected at the 304 Concretion Facility are as follows:

- Three duplicate soil samples for volatile organic analysis. Duplicate soil samples will be collected at 0 to 6-inch, 6 to 18-inch, and 18 to 24-inch levels. This location has the greatest potential for volatile organics contamination. The samples will be collected from the sump sampling location shown in Figure 2.
- Three duplicate soil samples for inorganic analysis. Duplicate soil samples will be collected at 0 to 6-inch, 6 to 18-inch, and 18 to 24-inch levels. Each duplicate sample will be taken on a different sampling day. One of the duplicate soil samples will be collected from the floor drain sampling location shown in Figure 2. The other two dupicates will be taken from locations determined by the Sampling Field Team Leader and the locations will be recorded in the field logbook.

- One equipment blank for inorganic analysis per day of sampling.
- If field decontamination procedures are used, collect at least one field blank collected per day of sampling or for each 20 samples.

11. QC FOR CONCRETE CHIP SAMPLES

The requirements for the field blanks for the concrete chip samples collected at the 304 Concretion Facility are as follows:

- One duplicate concrete chip sample for inorganic analysis. The sample will be collected from the random sample grid location shown in Figure 5
- One equipment blank for inorganic analysis per day of sampling.
- If field decontamination procedures are used, collect at least one field blank collected per day of sampling.

Distribution:

J. G. Adler	WHC	H6-23
J. K. Bartz	GSSC	R3-82
R. M. Carosino	RL	A4-52
D. L. Duncan	EPA	Seattle - HW-106
A. B. Joy	RL	R3-81
P. J. Mackey	WHC	B3-15
E. M. Mattlin	RL	A5-15
S. E. McKinney	Ecology	Lacey
I. L. Metcalf	WHC	L6-26
D. C. Nylander	Ecology	Kennewick
S. M. Price	WHC	H6-23
D. E. Rasmussen	WHC	N1-47
J. A. Remaize	WHC	L6-26
F. A. Ruck III	WHC	H6-23
J. L. Waite	WHC	B2-35
E. A. Weakley	WHC	L6-26
J. L. Wright	WHC	L6-26
RCRA File/GHL	WHC	H6-23
Field File Custodian	WHC	H6-08

EDMC

ADMINISTRATIVE RECORD: 304 Concretion Facility, TS-3-2, [Care of EDMC, WHC (H6-08)]

Washington State Department of Ecology Nuclear and Mixed Waste, Hanford Files, P.O. Box 47600, Olympia, Washington 98504-7600

Environmental Protection Agency Region 10, Seattle, Washington 98101, Record Center, Mail Stop HW-074

Please send comments on distribution list to Kym D. Tartar (H6-23), (509) 373-4701