

# START

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## Meeting Minutes Transmittal - Approved

Unit Managers Meeting  
4843 ALKALI METAL STORAGE FACILITY  
2440 STEVENS CENTER, RM 1600  
Richland, Washington

Meeting Held June 16, 1994  
From 2:30 pm to 4:00 pm

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

*Randall N. Krekel* Date: 8-23-94  
Randall N. Krekel, Unit Manager, RL

Not present. Date: \_\_\_\_\_  
Daniel L. Duncan, RCRA Program Manager, EPA Region 10

Alisa D. Huckaby Date: \_\_\_\_\_  
Alisa D. Huckaby, Unit Manager, Washington State Department of Ecology

4843 Alkali Metals Storage Facility, WHC Concurrence

*Fred A. Ruck III* Date: 8/23/94  
Fred A. Ruck III, Contractor Representative, WHC

*J. A. (Mickey) Seamans* Date: 8/23/94  
J. A. (Mickey) Seamans, 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 - Ecology letter of June 7, 1994
- Attachment 6 - Radiation Survey Report
- Attachment 7 - Photographs of drums in the 4843 AMSF.



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Attachment 1

Unit Managers Meeting  
4843 ALKALI METAL STORAGE FACILITY  
2440 STEVENS CENTER, RM 1600  
Richland, Washington

Meeting Held June 16, 1994  
From 2:30 pm to 4:00 pm

Agenda

1. Approval of Past UMM Minutes
2. Status Action Items
  - 7-14-93:1 Arrange for Ecology to attend radiation survey of 4843 AMSF
  - 7-14-93:2 Provide Ecology with copy of the radiation survey procedure
  - 2-18-94:1 Arrange and schedule the DQO meeting for 4843 AMSF.
  - 3-17-94:1 Provide aerial photographs of 4843 AMSF to Ecology.
  - 4-14-93:1 Add the information to the Administrative Record.
3. Status Closure Activities
  - Status of RL/WHC response to NOD Comments
  - Status on Drum Spacing
  - Status on Waste Removal
4. New Business
  - None
5. Set Next Meeting Date

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Attachment 2

Unit Managers Meeting  
4843 ALKALI METAL STORAGE FACILITY  
2440 STEVENS CENTER, RM 1600  
Richland, Washington

Meeting Held June 16, 1994  
From 2:30 pm to 4:00 pm

Summary of Discussion and Commitments/Agreements

1. Approval of Past UMM Minutes

The May 14, 1994 Unit Manager's Meeting (UMM) minutes were reviewed and approved.

2. Status Action Items

~~7-14-93:1 Arrange for Ecology to attend radiation survey of 4843 AMSF~~

Pending. Awaiting removal of waste from 4843 Alkali Metal Storage Facility (AMSF) and scheduling of the survey.

~~7-14-93:2 Provide Ecology with copy of the radiation survey procedure~~

Pending. Radiation survey documents will be provided once the date of the survey is determined. Copies of the Health Physics Procedures (WHC-IP-0718) and the WHC Radiological Control Manual (WHC-CM-1-6) were provided to Ecology at the December 14, 1993 UMM.

~~2-18-94:1 Arrange and schedule the DQO meeting for 4843 AMSF.~~

Pending. The data quality objective (DQO) meeting will be scheduled after completion of the 4843 AMSF radiation release survey.

~~3-17-94:1 Provide aerial photographs of 4843 AMSF to Ecology.~~

Pending. Work to collect the aerial photos is continuing.

~~04-14-93:1 Add the information to the Administrative Record.~~

Pending. The pertinent information has not yet been developed.

3. Status Closure Activities

~~Status of RL/WHC response to NOD Comments~~

A total of seven notice of deficiency (NOD) response table comments remain unresolved. The DQO meeting is expected to resolve three of them. One is a general comment. The remaining three have been discussed at past UMMs and during issue resolution meetings but remain unresolved.

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**- Status on Drum Spacing**

The spacing of the waste containers was discussed. At the May 14, 1994 UMM, Ecology (A. D. Huckaby) raised concerns over the lack of 30 inch aisle spacing the 4843 AMSF. Ecology also issued a letter (attachment 5) on June 7, 1994, indicating concern that the 4843 AMSF was not meeting "operational storage facility requirements." Ecology stated that the "operational storage facility requirements" were the lack of 30 inch aisle spacing and that the inspections performed could not have detected problems with the waste containers.

RL (R. N. Krekel) and WHC (J. G. Adler, J. A. Seamans, and J. P. Newman) discussed the activities at the 4843 AMSF with Ecology. A radiation survey report for the drums (attachment 6) had been completed on May 25, 1994. Ecology confirmed receipt of a copy via WHC RCRA Compliance Support. WHC discussed the radiation survey report with Ecology. Once the dose rates had been identified, WHC started reconfiguring the drum storage arrangement. This had been completed by June 3, 1994. The new configuration meets the requirement for 30 inch (or greater) aisle spacing. Three photographs (attachment 7) showing the increased aisle spacing were shown to Ecology. The photographs were taken on June 7, 1994 by WHC RCRA Compliance Support. The radiation zone for the new storage configuration in 4843 AMSF now extends over 2/3 of the floor space.

As a result of the discussion and photographs, Ecology indicated that, pending a reinspection (no date was specified), the 4843 AMSF appeared to be in compliance with the 30 inch spacing requirement and that the weekly WHC inspections should be adequate to detect any problems with the waste containers. RL and WHC asked is the Ecology concerns on this issue had been sufficiently addressed. Ecology stated that their concerns on the 30 inch aisle spacing and on the adequacy of inspections had been addressed.

**- Status on Waste Removal**

Ecology (A. D. Huckaby) had issued a letter (attachment 5) on June 7, 1994 the indicated concern that the Central Waste Complex (CWC) would not be able to accept the alkali metal mixed waste from the 4843 AMSF during June because the storage units were to be moved.

WHC (J. G. Adler) reported that during a safety analysis review, an Unresolved Safety Question (USQ) was raised concerning the storage of alkali metals among the other waste stored at the CWC. The solution to the USQ is to move the alkali metal waste to an isolated area about 1/4 mile south of the existing CWC complex. The storage pad has been completed. The anchors for the storage units need to be built and the storage units relocated. CWC has stated that this will be completed by the end of July and that they will be ready to accept the alkali metal mixed waste from the 4843 AMSF as of August 1, 1994.

Per Ecology's request, WHC (J. G. Adler) took an action item (6-16-94:1) to provide Ecology with a schedule of the move.

Relative to the waste itself, WHC indicated that the drum labeling should be completed today. Also, the remaining overpack container had

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arrived on site. The overpack will be used to ship some of the odd-sized sealed equipment to the CWC. It was expected that the drums would be shipped before the overpacks.

4. **New Business**

None.

5. **Set Next Meeting Date**

The next meeting has been set for July 14, 1994, for 2:30 pm in Richland, Washington.

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5  
5  
5



Attachment 4

Unit Managers Meeting  
4843 ALKALI METAL STORAGE FACILITY  
2440 STEVENS CENTER, RM 1600  
Richland, Washington

Meeting Held June 16, 1994  
From 2:30 pm to 4:00 pm

Action Items

<u>Action Item #</u>		<u>Description</u>
07-14-93:1	OPEN	Arrange for Ecology to attend radiation survey of 4843 AMSF. (WHC: J. G. Adler)
07-14-93:2	OPEN	Provide Ecology with copy of the radiation survey procedure. Current commitment is for a copy of an old radiation survey report. (WHC: J. G. Adler)
02-18-94:1	OPEN	Arrange and schedule the DQO meeting the 4843 AMSF. (WHC: J. G. Adler)
03-17-94:1	OPEN	Provide aerial photographs of the 4843 AMSF to Ecology. (WHC: J. G. Adler)
04-14-93:1	OPEN	Add the following to the Administrative Record: Field logbook(s); analytical results; PE's logbook; and the radiation survey results. (WHC: J. G. Adler)
06-16-94:1	NEW 6/16/94	Provide a schedule relative to relocating the CWC alkali metal waste storage unit. (WHC: J. G. Adler)

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Attachment 5

Unit Managers Meeting  
4843 ALKALI METAL STORAGE FACILITY  
2440 STEVENS CENTER, RM 1600  
Richland, Washington

Meeting Held June 16, 1994  
From 2:30 pm to 4:00 pm

TITLE - ECOLOGY LETTER OF JUNE 7, 1994

91320 00



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

7601 W. Clearwater, Suite 102 • Kennewick, Washington 99336 • (509) 546-2990

June 7, 1994

Mr. Rudolph Guercia  
Mr. R.G. Hastings  
Mr. Randall Krekel  
U.S. Department of Energy  
P.O. Box 550  
Richland, WA 99352

Dear Messrs. Guercia, Hastings, and Krekel:

Re: 4843 Alkali Metal Storage Facility Closure Status (S-4-1, M-20-14)

It is my understanding that the Central Waste Complex (CWC) may not be prepared to receive alkali metal waste from 4843 Alkali Metal Storage Facility (AMSF) storage unit during June 1994. On June 2, 1994, CWC representatives explained that the planned storage units at CWC would be moved to a new pad. If CWC does not receive the waste as planned, the 4843 AMSF closure will be delayed. Failure to begin closure activities as planned, may have serious scheduling repercussions on the closure activities of this RCRA storage unit. In addition, Steve Moore, a Compliance Inspector from my office has visited 4843 AMSF and informed me that a number of operational storage facility requirements are not being met. Mr. Moore informed me that waste management practices at 4843 AMSF will have to improve to the standards other Hanford facilities have achieved, if it is to continue to operate as a storage facility for sodium and lithium metal reactive mixed waste.

If you or your staff have any questions regarding this letter, please call me at (509) 736-3034.

Sincerely,

Alisa D. Huckaby  
Nuclear Waste Program

AH:sr

cc: Fred Ruck, WHC  
Jason Adler, WHC  
Steve Szendre, WHC

Doug Sherwood, EPA  
Dan Duncan, EPA  
Administrative Record

Attachment 6

Unit Managers Meeting  
4843 ALKALI METAL STORAGE FACILITY  
2440 STEVENS CENTER, RM 1600  
Richland, Washington

----- Meeting Held June 16, 1994  
From 2:30 pm to 4:00 pm

TITLE - RADIATION SURVEY REPORT

2011092  
91300 102



**RADIATION SURVEY REPORT**

Date **5-25-94** Time From **1500** To **2000 HRS.** Survey Number **No. 141123** FC **J** Page **2** of **2**

Biog **340 / 4843** Area **300 / 400** Room **~N/A~**

Description of Job  
**SURVEY OF WASTE DRUMS**  
**SEE ATTACHED SHEET**

RWP No **J-009** Location **4843 BLD.**  
Check (if appropriate) When checked, do not place unrelated information on this record  
 Personnel Contamination  
 CAM Radiation Alarm  
 Establish Dose Rates  
 Radiation Contamination Incident  
 High Radiation Level Work  
 "Special Survey"  
 Property Release  
 RAM Shipment

Item No	P E R (1)	Description of Work Performed, Radiation Controls, and Measurements	Meter Deflection		Dist	CF	DOSE RATE			CONTAMINATION LEVELS									
			W/O	W/K			beta (non pen) mrad/hr	gamma (pen) mR/hr	neutron mrem/yr	Direct (dpm)		Smear 100 cm <sup>2</sup>							
										beta	alpha	beta (d/m)	alpha (d/m)	mrad/hr					
1.	✓	Avg. DOSE RATE: IN WORK AREA	0.5	0.5	F	-	—	0.5	—	—	—	—	—	—	—	—	—	—	—
2.	✓	DUMP TANK CYLINDER # 95	4.0	4.0	C	-	—	<1.0	—	—	—	—	—	<1,000	<20	—	—	—	—
3.	✓	DUMP TANK CYLINDER # 96	4.0	4.0	C	-	—	<1.0	—	—	—	—	—	<1,000	<20	—	—	—	—
4.	✓	SMEAR: FLOOR AREA, DRUMS	N/A	—	—	-	—	—	—	—	—	—	—	<1,000	<20	—	—	—	—
5.	✓	MAX. DOSE RATE ON DRUMS - DRUM # 49	60	60	C	-	—	60	—	—	—	—	—	<1,000	<20	—	—	—	—
6.	✓	DRUM # 49 @ 18"	7	7	18"	-	—	7	—	—	—	—	—	<1,000	<20	—	—	—	—
7.	✓	PERSONNEL	~N/A	—	—	-	—	—	—	—	—	—	—	<D	<D	—	—	—	—

1 Check for personnel dose rate  Continued on supplemental report form

Instrument(s) Used	<input checked="" type="checkbox"/> CP	<input checked="" type="checkbox"/> G-M Pancake	<input checked="" type="checkbox"/> PAM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Serial No (s)	6591	1781 / 1558	2088			

Respiratory Protection Worn  
 Supplied Air  
 Filter  
 Other \_\_\_\_\_  
 None

ESTIMATED PERSONNEL DOSE RATES			
Phase of Work	Based on Measurement(s)	Average Dose Rate	Limit Applying
MOVE DRUMS & SET DOSE RATES ON DRUMS	1	0.5 mR/HR	(WBP) S E
			WBP S E
			WBP S E

R<sup>21</sup> Exposure **0** Work Location Code **~N/A~** Signed **S. P. MITZEL** PR No **S. P. Mitzel 55632**  
 Do you increase or reduce RWP requirements for this work?  No  Yes Explain on reverse side  
 Did you attend a pre job meeting for this work?  N/A  No  Yes  
 Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

5-26-1994-10:24

FROM 348 WASTE SERVICES

RADIATION SURVEY REPORT (cont.)

Survey Number

Nº 151301

FIC

X

Page

2 of 2

Further Descriptions, Data, and Comments

Surveyed several drums at 4834 sodium storage for dose rate and contamination.

DIAGRAMS OR SKETCHES

ADDITIONAL REPORTS COMPLETED

	Log No.
Radiological Problem Report	_____
Skin Contamination Survey	_____
Personnel Effects Contamination Report	_____
Radiation Survey Report	_____

	Log No.
Onsite Radioactive Shipment	_____
Offsite Radioactive Shipment	_____
Routine Radioactive Shipment	_____
Sample Counter Log	_____

P. 3  
5.26.1994 18:25  
FROM 340 WASTE SERVICES

9413288.1095

72 ✓ 1 MR/hv 5-24-94 RFF	70 ✓ 1 MR/hv 5-24-94 RFF	56 ✓ 15 MR/hv 5-24-94 RFF	57 ✓ 15 MR/hv 5-24-94 RFF	55 ✓ 17 MR/hv 5-24-94 RFF	4-10-56 54 ✓ Hot 20 MR/hv 5-24-94 RFF	53 ✓ 1 MR/hv RFF 5-24-94	51 ✓ 30 gal 5-24-94 RFF
68 ✓ 1 MR/hv 5/24/94	73 ✓ 1 MR/hv 5/24/94 RFF	59 ✓ 10 MR/hv 5-24-94 RFF	47 ✓ 11-15-87 20 MR/hv 5-24-94 RFF	58 ✓ 16 MR/hv 5-24-94 RFF	30 gal 5-12-87 50 20 MR/hv 5-24-94 RFF	44 ✓ 1 MR/hv RFF 5-24-94	76 ✓ 20 MR/hv 5-24-94 RFF
69 ✓ 10.5 MR/hv RFF 5-24-94	71 ✓ 1 MR/hv RFF 5-24-94	42 ✓ 10 MR/hv 5-25-94 30 gal 5-13-87	41 ✓ 10 MR/hv 5-25-94 30 gal 5-13-87	52 ✓ 15 MR/hv 5/25/94 A.M.	61 ✓ 3 MR/hv LD 5/25/94 A.M.	74-1 ✓ 1 MR/hv LD 5/25/94 A.M.	75-1 ✓ 1 MR/hv LD 5/25/94 A.M.
67 ✓ 10.5 RFF 5-24-94	66 ✓ 10.5 RFF 5-24-94	63 ✓ 1 MR/hv LD 5/25/94 A.M.	65 ✓ 10 MR/hv LD 5/25/94 A.M.	64 ✓ 1 MR/hv LD 5-25-94 A.M.	62 ✓ 1 MR/hv LD 5-25-94 A.M.	75-2 ✓ 1 MR/hv LD 5-25-94 A.M.	74-2 ✓ 1 MR/hv LD 5-25-94 A.M.
89 ✓ 20.5 RFF	90 ✓ 60 MR/hv 5-24-94 RFF	94 ✓ 7 MR/hv 5/25/94 A.M.	94 ✓ 7 MR/hv 5/25/94 A.M.	93 ✓ 15 MR/hv 4 5-25-94 LD A.M.	92 ✓ 15 MR/hv 4 5-25-94 LD A.M.	91 ✓ 15 MR/hv 4 5-25-94 LD A.M.	90 ✓ 15 MR/hv 4 5-25-94 LD A.M.
88 ✓ 10.5 5-24-94 RFF	87 ✓ 1 MR/hv 5/24/94 RFF	92 ✓ 1 MR/hv LD 5/25/94 A.M.	93 ✓ 1 MR/hv LD 5/25/94 A.M.	94 ✓ 1 MR/hv LD 5/25/94 A.M.	95 ✓ 1 MR/hv LD 5/25/94 A.M.	96 ✓ 1 MR/hv LD 5/25/94 A.M.	97 ✓ 1 MR/hv LD 5/25/94 A.M.

Drum #52 is a  
repack of 41+43.

C. Deen  
4-5-91

Rope  
<D> REPRESENTS: SMEARABLE (EXT. SURFACE) OF DRUM(S):  
BETA, alpha

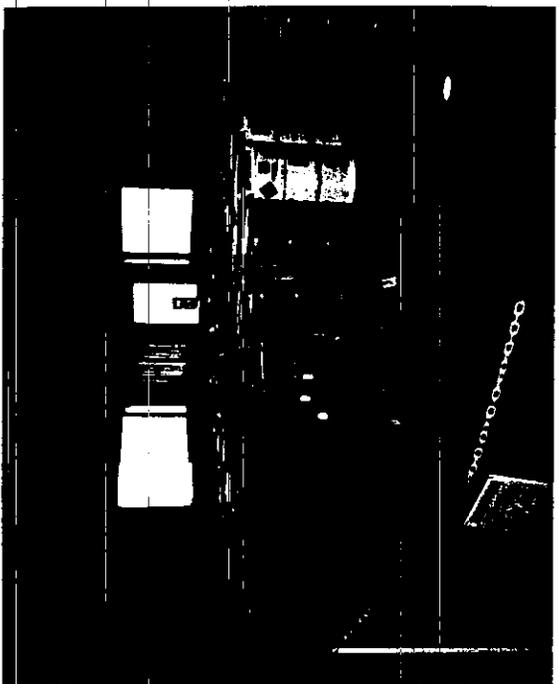
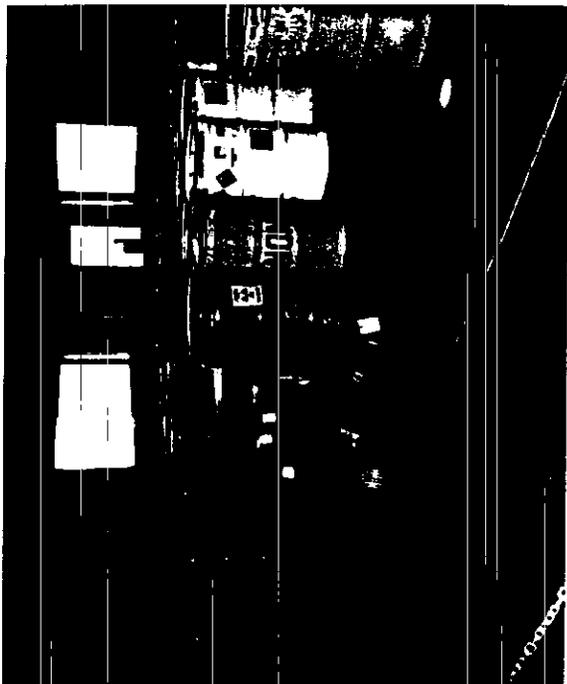
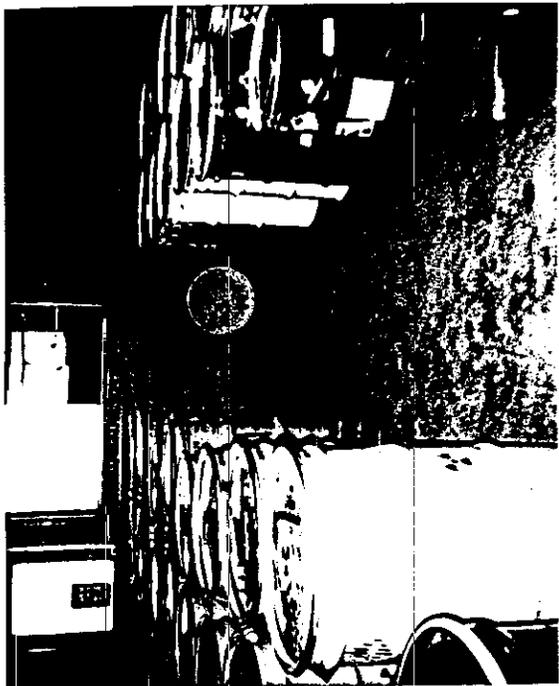
Attachment 7

Unit Managers Meeting  
4843 ALKALI METAL STORAGE FACILITY  
2440 STEVENS CENTER, RM 1600  
Richland, Washington

Meeting Held June 16, 1994  
From 2:30 pm to 4:00 pm

TITLE - PHOTOGRAPHS OF DRUMS IN THE 4843 AMSF

0128.000



9413288, 1097

Distribution:

J. G. Adler	WHC	H6-23
J. K. Bartz	GSSC	B1-42
R. M. Carosino	RL	A4-52
D. L. Duncan	EPA	HW-106 (Seattle)
O. A. Farabee	RL	N1-39
R. G. Hastings	RL	N1-39
A. D. Huckaby	Ecology	B5-18
R. N. Krekel	RL	A5-15
P. J. Mackey	WHC	B3-15
S. M. Price	WHC	H6-23
F. A. Ruck-III	WHC	H6-23
J. A. Seamans	WHC	N2-04
S. A. Szendre	WHC	H6-30
J. L. Waite	WHC	B2-35
RCRA file/GHL	WHC	H6-23
Field File Custodian	WHC	H6-08

ADMINISTRATIVE RECORD: 4843 ALKALI METAL STORAGE FACILITY (S-4-1) [Care of EPIC, WHC (H6-08)]

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

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(509) 373-2083.

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