

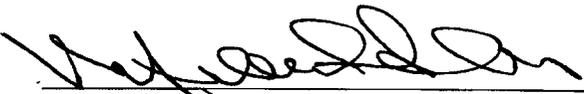
Meeting Minutes Transmittal

**T Plant Complex, Low Level Burial Grounds,
Central Waste Complex, Waste Receiving and Processing
Project Managers Meeting
825 Jadwin / Room 540S
Richland, Washington**

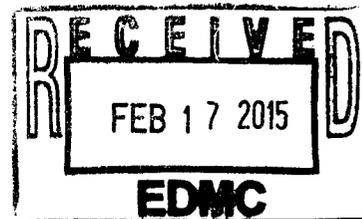
December 4, 2014

The undersigned indicate by their signatures that these meeting minutes reflect the actual occurrences of the above dated Project Managers Meeting. Signatures denote concurrence with the content only and are not intended to imply agreement to any commitments.


Project Manager Representative, Ecology Date: 2/2/15


Project Manager Representative, RL Date: 26 Jan 15

Central Waste Complex Admin Record	H6-08
LLBG Administrative Record	H6-08
T Plant Complex Admin Record	H6-08
Waste Receiving and Processing Admin Record	H6-08
JV Borghese	H8-43
MS Collins	A6-38
BJ Dixon	T4-09
PE Eberlein	H0-57
LC Fearon	H0-57
RH Engelmann	H8-45
SK Johansen	T1-41
PW Martin	H8-45
LC Petersen	T4-06
DG Singleton	H0-57
LC Tuott	H8-43



T PLANT/LLBG/CWC/WRAP
Project Managers Meeting Minutes
825 Jadwin/Room 540S/700 Area
Richland, Washington

December 4, 2014

- I. The August 28, 2014, Project Managers Meeting (PMM) Minutes were approved by RL and Ecology representatives and submitted to Administrative Record (AR). The September 25, 2014, and October 30, 2014, PMM minutes were approved by RL and Ecology representatives today and will be submitted to the AR. There were no November PMMs.

- II. Operational Status

Linda Petersen (CHPRC) provided the operational status (see handout). Ms. Petersen noted that Box 231ZDR-11 is scheduled for lifting and overpacking during the week of December 15, 2014. Deborah Singleton (Ecology) requested photo documentation of the lifting and overpacking process since it is associated with the agreed order (AO). Steve Lowe (Ecology) requested an email notification the day before Box 231ZDR-11 is to be lifted and the approximate time. Ms. Petersen agreed to send Mr. Lowe an email, but she noted that the entire area will be cleared and there will be no access.

Ms. Singleton requested documentation of the roof repairs for the 2403 series buildings at CWC. Ms. Singleton stated that the information would be shared with Ecology's compliance team. Mike Collins (RL) responded that the work package and pictures could be provided as documentation. Ms. Petersen stated that a work package could be provided, but pictures may not have been taken while the roof repairs were being done and it would require putting people on the roof to take photos. Ms. Singleton stated that it was too cold and slippery to send people on the roof to take pictures, and that the work package documenting the work would be sufficient. Mr. Collins stated that he would ensure that pictures are taken of the roof repairs done in the future. Ms. Singleton also requested a listing of all the roof repairs that needed to be done, what roofs have been completed, and what roofs are remaining to be repaired.

Mr. Lowe inquired about the staff responsibility at the Low Level Burial Grounds (LLBG). Stephanie Johansen (CHPRC) responded that in anticipation of the ETF facility being transitioned, all of the responsibilities associated with the burial grounds were transitioned with the LLBG personnel, with the exception of loading the tanker truck off and taking it, which will be done in concert with the ETF personnel. Ms. Petersen stated that all of the daily inspections are now done by the Solid Waste Operations Complex (SWOC) personnel. Mr. Lowe asked who loads the tanker and samples the leachate. Ms. Petersen responded that SWOC personnel are responsible for both of those activities. Mr. Lowe asked if the sample results come back to SWOC personnel. Ms. Petersen responded that the sampling is done for waste acceptance at ETF, and that ETF receives the sampling results.

Mr. Lowe referred to a discussion in August 2014 regarding the addition of some analytical parameters that reflected the waste in trenches 31 and 34. Mr. Collins stated that he didn't recall the discussion, but it could have occurred. Ms. Singleton stated that RL and Ecology did have that discussion, and there was no action taken. Ms. Singleton added that Ecology will be addressing the additional analytical parameters as a permit action. Ms. Petersen stated that she

would confirm who is performing the sampling and provide the information at the next PMM. Mr. Lowe stated that his interest in who is taking the samples and where the results are going is to ensure that SWOC personnel are looking at the samples, and that the sampling and analyses are being done under the correct parameters.

Mr. Lowe referred to recoating of the floor in the 2336W WRAP building, and asked if the activity is to be done during warmer weather. Mr. Collins responded that a lower temperature paint was found, but it's only good between 21 and 50 degrees. Mr. Collins stated that currently the floors are too cold for the paint to stick, so the recoating is pending warmer weather.

Mr. Lowe referred to a discussion at an earlier PMM about shutting down the process area with the gloveboxes in WRAP and keeping the load out area open for WIPP shipments. Mr. Collins stated that there was discussion about closing the process area and keeping the load out area up and running, and that there also was a question about whether CCP would send mobile units or whether the WRAP NDE/NDA units would be used, or both. Mr. Collins added that the process area with the gloveboxes has been shut down.

Ms. Petersen reported that there was no change in the waste package inventory in the CWC outside storage areas, with the exception of two newly generated waste containers in outside storage area A. Ms. Petersen stated that they are containers of waste generated from activities associated with Box 231ZDR-11, and the containers will be removed after the Box 11 activities are completed. Ms. Petersen explained that in preparation for overpacking Box 11, some of the lifting guides and bales from the top of the container were removed and the weather enclosure was moved out of the way. Ms. Petersen added that there were some other activities that generated waste, including activities associated with the temporary cover over the box and the bottles for collecting liquid that were removed. Mr. Lowe mentioned surveying the ground underneath Box 11 after it's lifted. Mr. Collins stated that the ground will be surveyed and there will be records of the survey results.

Ms. Singleton asked if the two additional containers in the CWC outside storage area A are in agreement with the AO. Ms. Johansen responded that the AO talks about receipt of waste containers into the area, and both the Consent Agreement and Final Order (CAFO) and the AO state "receipt of." Ms. Johansen stated that the two containers were generated in the area and would be considered newly generated waste, which is different from receipt of waste from the dangerous waste management units. Ms. Petersen added that the two containers will not remain in outside storage area A for a long duration, and are being kept there while the additional activities associated with Box 11 are being done. Mr. Collins pointed out that the amount of waste hasn't changed, but it's the number of containers that the waste is in that has changed. Ms. Singleton stated that the explanations are logical, but that the compliance team may not view it in the same way. Mr. Lowe asked if it would be correct to state that the additional containers of waste generated from Box 11 will go into one of the storage buildings as soon as the Box 11 operation is completed, which would be within a reasonable amount of time. Mr. Collins responded that Mr. Lowe's statement was correct. Ms. Johansen noted that the two additional containers are to facilitate the overpacking of Box 11, and in future years, as other container movement activities are done, the same situation may be encountered where some secondary waste is generated. Ms. Petersen added that if remediation is to be done after Box 11 is removed, that activity could generate another container or containers.

III. Status of Previous Agreements and Commitments

A. There were no previous agreements or commitments to discuss.

IV. New Agreements and Commitments

A. There were several new commitments identified: 1) RL/CHPRC will provide Ecology with documentation of roof repairs, including the work package for the four roofs in the 2403 series (inquiry will be made to roof subcontractor about whether pictures were taken), a list of the total roofs being repaired with the status, and photos of future roof repairs; 2) RL/CHPRC will provide Ecology confirmation on who performs the periodic sampling that is required by ETF that is associated with the LLBG leachate collection and removal system, and who receives the results; 3) RL/CHPRC will provide Ecology an email notification prior to the overpacking and lifting of the 231ZDR-11 box.

V. Near Term Schedules and Ongoing Activities

A. Agreed Order – Implementation

Ms. Johansen noted that the 231ZDR-11 waste box was discussed under operational status.

see 0-126(15)
Ms. Johansen stated that RL/CHPRC are working on a response to Ecology's letter regarding training (AO, 462). Ms. Singleton stated that there is a meeting scheduled today to discuss the acceptable knowledge (AK) package for the next box that is being sent, and that information will need to be documented as part of the AO.

B. Hanford Facility RCRA Permit Rev. 9 Update

Ms. Singleton noted that in regards to Mr. Lowe's questions about the leachate sampling for LLBG trenches 31/34, there had been previous discussions with RL about groundwater monitoring around the mixed waste trenches, and Ecology and RL had agreed to install an additional monitoring well. Ms. Singleton stated that the EPA representative has made a decision that the groundwater monitoring needs to be done at the point of compliance. Ms. Singleton stated that with the inclusion of the pump and treat wells that are in, installing a well at the point of compliance would seriously impact the data coming off any of the groundwater monitoring wells in the vicinity. Ms. Singleton noted that the groundwater section of the regulations states that if the data for the groundwater monitoring wells is not acceptable, then the monitoring well does not provide much value. Ms. Singleton stated that she and Dib Goswami (Ecology) discussed the issue with EPA and their hydrogeologist on the west side of the state, and EPA was not in agreement with Ecology. Ms. Singleton noted that over the last couple of years, EPA appears to be merging with Ecology's view about the opportunity to sample the leachate to get a better understanding of what is under the mixed waste trenches could be utilized versus putting in monitoring wells. Ms. Singleton stated that the purpose of Mr. Lowe's inquiries regarding the identification of other analytical parameters for trenches 31/34 was due to EPA's position regarding groundwater monitoring wells. Ms. Singleton indicated that there will likely be some permit conditions written to address the concern regarding the lack of regulatory-required groundwater monitoring around the mixed waste trenches. Ms. Singleton stated that EPA is coming full circle to say that looking at additional analytical parameters may be an acceptable approach.

Ms. Singleton stated that a review was done of all of the parameters that were previously established when the liner was put in the mixed waste trenches, and Ecology's chemist has indicated that there are about four other parameters that RL may want to consider. Ms. Singleton added that the additional parameters would provide a better understanding of what is going on under the mixed waste trenches without having to install monitoring wells that

wouldn't provide much value. Ms. Singleton noted that there are already injection and extraction wells close to the mixed waste trenches. Ms. Singleton reiterated that Ecology is not in agreement with EPA's position that installing wells at the point of compliance would provide any valid data. Mr. Collins stated that the groundwater team would be responsible for commenting on EPA's position. Ms. Singleton noted that there have been discussions with RL's groundwater team. Deb Alexander (Ecology) stated that this subject will involve modifications to the groundwater monitoring plan in the permit. Ms. Singleton responded that there have been discussions with EPA regarding a permit modification to the groundwater monitoring plan, and the discussion needs to be started up again.

C. 8C Updates, Closure Plans, Part B Application

Ms. Singleton stated that as discussions occur with RL/CHPRC regarding modifications and closure plans for the current permit (8C), there have been discussions with EPA and the permit coordinators regarding units that have not received waste in the last year. Ms. Singleton indicated that there is a concern about whether those units need to move towards closure or whether the 610 regulations need to be referenced. Ms. Singleton stated that there is a section in 610 that talks about the permittee making a statement about continuing with a particular dangerous waste management unit because there is future use for it. Ms. Singleton stated that if RL does not plan to move towards closure with a particular dangerous waste management unit that has not received waste in the last year, a submittal needs to be provided to Ecology with language citing the regulation about future use for the unit.

D. Conceptual Agreement Packages

Joel Williams, Jr. (CHPRC) noted that one CAP (security) has been received from Ecology. Ms. Singleton stated that there are other CAPs that have been drafted, and the next step is to go through internal workshops with the permit writers on their specific CAPS. Ms. Singleton indicated that the schedule for completing the CAPS has been pushed out a few months.

E. Sludge Storage at T Plant

Ms. Johansen stated that the most recent interaction with Ecology regarding sludge storage involved a tour of the Maintenance and Storage Facility (MASF) on Monday (12/1/14). Elis Eberlein (Ecology) stated that he attended the tour, which provided information about how the sludge is removed from the K Basin. Mr. Eberlein noted that there was no mockup to demonstrate how the sludge would be moved to T Plant, and asked if there will be a mockup in the future. Mr. Collins responded that the K Basin sludge will be moved to T Plant in the same manner that the NLOP sludge was moved. Mr. Collins stated that preparations for moving the sludge will consist of a readiness process to demonstrate that the sludge can be moved, which includes lifting the cover blocks and backing the truck into the tunnel. Mr. Collins stated that the readiness process will include demonstrating all the purging that is needed with the cask and the sludge transportation and storage containers (STSCs), then lifting, moving and placing the STSCs into the cell racks, and putting the cover blocks back on over the cell. Mr. Collins stated that readiness preparations for moving the sludge will also include training and procedures and the safety basis. Mr. Collins noted that the safety basis is probably already covered since it is reviewed annually, although there may be some changes during the readiness preparations.

Mr. Lowe asked if there is a schedule for the sludge storage activity at T Plant. Ms. Johansen responded that sludge storage at T Plant requires initial staffing up, and currently there is no funding in FY15 to do the staffing. Ms. Johansen stated that as long as there is

no staffing being done, there won't be very many physical activities in the near future. Mr. Lowe commented that it could be stated that nothing is planned this fiscal year for T Plant with regard to sludge storage. Ms. Johansen responded that there has been planning, but no funding to do the activities. Mr. Collins noted that K Basin is moving ahead with activities like design, and that RL is being kept apprised of the activities. Mr. Collins stated that RL will be reviewing designs and other documentation, but those activities are paid for by the K Basins group. Mr. Lowe stated that at some point Ecology will need to be involved in the design. Ms. Johansen agreed that Ecology will need to be involved, and there are some permitting activities on the schedule, but RL/CHPRC are not prepared to discuss that with Ecology at this time.

Brian Dixon (CHPRC) stated that at the last PMM, RL/CHPRC committed to holding a technical meeting in January 2015 to address Ecology's questions and concerns regarding sludge storage at T Plant. Mr. Lowe compared the sludge storage at T Plant to the vitrification plant construction activities where designs are completed and then Ecology reviews the designs. Ms. Johansen stated that there will be physical changes made to T Plant to accommodate the sludge storage activities, but the sludge is not a dangerous waste. Ms. Johansen added that Ecology's review of the T Plant design will be from the perspective of whether it affects other dangerous waste management activities in T Plant, but not the sludge storage. Mr. Lowe responded that the design does affect the dangerous waste management unit, including secondary containment. Ms. Alexander stated that the sludge storage will not be a dangerous waste management unit, but it will be adjacent to dangerous waste management units in one case.

Ms. Johansen suggested that the technical meeting scheduled in January with Mr. Dixon would be a better time for the discussion on sludge storage at T Plant. Ms. Singleton noted that the canyon deck at T Plant has been identified as a containment building, and Mr. Lowe's questions and comments are more directed toward the impacts to the containment building.

VI. Approved Changes signed off in Accordance with TPA Section 12.2

A. There were no approved changes to sign.

VII. General Discussion

A. Mr. Williams reported that two inspection visits were done by Ecology. The first visit was at the Integrated Disposal Facility (IDF) at trench 94, and the second visit involved the SWOC facilities (T Plant, WRAP and CWC). Mr. Williams noted that the SWOC visit resulted in the list that Ecology is compiling of units that have not received waste for the past year and includes units that RL/CHPRC have identified (see discussion under 8C). Mr. Williams stated that information requested by Ecology has been provided for SWOC and IDF at trench 94. Mr. Williams stated that there was the visit at MASF to view the STSCs, and that EPA was present. Mr. Williams stated there was some discussion about T Plant and the crane operations inside T Plant during the visit.

VIII. Actions

Unit	Description of Action	Status	Date
CWC	RL will schedule a meeting with Ecology by the end of September 2014 to discuss disposition of tank D-10.	New Action	6/26/14
		Mr. Collins (RL) will schedule the meeting regarding tank D-10. Ms. Singleton (Ecology) stated that EPA needs to be involved in the discussion.	7/24/14
		Mr. Collins will schedule the meeting to be held before the December 4, 2014, PMM.	9/25/14
		Mr. Collins sent Ecology information regarding tank D-10 in lieu of scheduling a meeting. Ecology will notify Mr. Collins if the information is satisfactory or if a meeting needs to be scheduled.	10/30/14
		Ecology is still evaluating the information that was provided.	12/4/14

IX. Documents for Submittal to the Administrative Record.

A. The September 25, 2014 and October 30, 2014 PMM minutes were identified for submittal to the AR. Ms. Singleton stated that the AK packages that are being reviewed should be submitted to the AR since they are associated with the CAFO and AO. Mr. Williams stated that about four AK packages have been submitted that were associated with an inspection. Mr. Collins stated that RL/CHPRC will go back to January 24, 2014, the date of the AO, to identify the AK packages for submittal to the AR.

X. Next Project Managers Meeting

A. The next PMM was scheduled for January 22, 2015.

Badbada, P S (Sharon)

From: Williams, Joel F Jr
Sent: Tuesday, December 09, 2014 9:55 AM
To: Engelmann, Richard H
Cc: Badbada, P S (Sharon); Petersen, Linda C; Collins, Michael S
Subject: FW: Response to ECY regarding MWBT 31/34 leachate sampling

Rick

See Mike Collins email below...the below email meets the request from Ecology (Deborah Singleton) during the SWOC PMM on December 4, 2014 for information on Trenches 31/34 leachate.

Thanks – Joel ☺

From: Collins, Michael S
Sent: Tuesday, December 09, 2014 9:51 AM
To: Singleton, Deborah
Cc: Williams, Joel F Jr
Subject: FW: Response to ECY regarding MWBT 31/34 leachate sampling

Hi Deborah – Response to questions on Trenches 31/34 leachate sampling/analysis from last week's PMMs. Feel free to call if you have any questions. MSC

From: Petersen, Linda C
Sent: Tuesday, December 09, 2014 8:23 AM
To: Collins, Michael S; Williams, Joel F Jr
Cc: Seaver, Jennie R; Johansen, Stephanie K
Subject: Response to ECY regarding MWBT 31/34 leachate sampling

At the December 4, 2014 SWOC PMM, Debra Singleton asked that we confirm “who takes leachate samples, who gets the sample results, and how the sample results are used”. I confirmed that:

- SWSD currently obtains the leachate samples
- LERF/ETF personnel previously obtained leachate samples (through January 2014)
- Leachate sample results are sent to LERF/ETF (Mark Bowman) and to the SWSD Engineering TA (Rick Rosser)
- Mark Bowman uses the sample results to demonstrate compliance with LERF/ETF waste acceptance criteria and to facilitate LERF/ETF disposal of secondary waste (e.g., spent filters, powder)
- Rick Rosser uses the sample results to track and control the fissile material concentration in the leachate collection system

Waste Disposition Performance

Facility	Status
CWC	<ul style="list-style-type: none"> • Lifting & overpacking 231ZDR-11 waste box scheduled for week of 12/15/2014 • Performing waste storage activities • Continuing to monitor Box 231ZDR-11 in outdoor storage area A • Updating procedures to reflect AO requirements is ongoing • Mining, segregating, and overpacking watch list drums is ongoing <ul style="list-style-type: none"> • All Priority 1 drums have been overpacked • Continuing to receive waste from onsite and offsite generators • Completed roof repairs for 2403-WA, 2403-WB, 2403-WC, and 2403-WD • Shipment of large FRP box to PFNW scheduled on 12/13/2014
LLBG	<ul style="list-style-type: none"> • Continuing receipt of waste shipments at Trench 31/34. • Continuing leachate collection & removal system operation at Trenches 31 & 34. • Continuing housekeeping activities* for Trench 94 and for burial grounds 4B, 4C, 3A, and 12B.
WRAP	<ul style="list-style-type: none"> • Completed roof repairs for 2336W; completion of repairs to 2404-WB roof are pending • Continuing surveillance and maintenance activities. • Continuing floor maintenance activities at 2404-WB when resources & weather permit. No mixed waste containers with free liquids will be stored in this building without replacement secondary containment until the floor is repaired.
T Plant	<ul style="list-style-type: none"> • Continuing surveillance and maintenance activities.

* Housekeeping in LLBGs includes tumbleweed monitoring & removal, control of vegetation growth, contamination control and (in trench 94) activities necessary to meet Navy, DOE, and contractor expectations.

RCRA-Regulated Container Inventory

of Containers and Volume

as of 12-2-2014

Facility	Drum/Small Container ¹	Medium Container/Box ²	Large Container ³	Total Volume
CWC (Oct)	5495 (1327 m ³)	469 (804 m ³)	384 (6684 m ³)	8,815 m ³
CWC (Dec)	5491 (1327 m ³)	475 (815m ³)	384 (6684 m ³)	8,826 m ³
T-Plant (Oct)	5 (1 m ³)	3 (4 m ³)	2 (44 m ³)	49 m ³
T-Plant (Dec)	5 (1 m ³)	3 (4 m ³)	2 (44 m ³)	49 m ³
WRAP (Oct)	5 (1 m ³)	0 (0 m ³)	0 (0 m ³)	1 m ³
WRAP (Dec)	6 (1 m ³)	0 (0 m ³)	0 (0 m ³)	1 m ³

Footnotes regarding volumes:

1. 0.485 m³ (110 gallons; 17.1 ft³) or less
2. Greater than 0.485 m³ (110 gallons; 17.1 ft³) & less than 1.812 m³ (64ft³) (Standard Waste Box)
3. Greater than 1.812 m³

Waste Package Inventory in CWC Outside Storage Areas				
CWC DWMU ^[1]	Number of Waste Packages in storage (1/24/2014)	Number of Waste Packages in storage (10/27/2014)	Number of Waste Packages in storage (12/2/2014)	Notes/Comments in Inventory Change from Previous Month
Outside Storage Area A	173	165	165 + 2	2 containers of waste generated from activities associated with box 231ZDR11; these containers will be removed after Box 11 activities are completed
Outside Storage Area B	11	11	11	
Tank D-10 Outside Storage Area	1	1	1	
East Outside Storage Area	0	0	0	
Shipping and Receiving Area	0	0	0	
Total =	185	177	177 + 2	

[1] DWMUs are based on those listed in the Agreed Order, exhibit B.

**T PLANT, LLBG, WRAP, AND CWC
Project Managers Meeting
825 Jadwin / Room 540S
Hanford, Washington**

December 4, 2014

ATTENDEE LIST

Name	Organization	Phone Number
1. Ben Vannagh	DOE	376 9623
2. Jane V. Borghesi	CHPRC	373-3804
3. LINDA Petersen	CHPRC	373-4200
4. Steve Lowel	Ecology	372-7894
5. Elis Eberlein	Ecology	372-7906
6. Deborah Sington	Ecology	372-7923
7. Michael Collins	DOE - RL	376 6536
8. Brett Barnes	CHPRC	376-3840
9. Joel F. Williams J.	CHPRC	376-4782
10. Ah Farabee	DOE	376-8089
11. Stephanie Johansen	CHPRC	373-1031
12. Kathy Knox	Knox Court Reporting	946-5535
13. Sharon Baddada	CHPRC	373-9792
14. Brian Dixon	CHPRC	—
15. Deb Alexander	Ecology	372-7896
16.		
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T PLANT, LLBG, WRAP, AND CWC PROJECT MEETING

825 Jadwin / Room 540S

Hanford, Washington

December 4, 2014

10:00 a.m. to 11:00 a.m.

Agenda

- I. The August 28, 2014, Project Managers Meeting (PMM) Minutes were approved by RL and Ecology representatives and are submitted to the Administrative Record (AR). The September 25, 2014 (revision in progress), and the October 30, 2014, PMM Minutes are pending review and approval by RL and Ecology representatives and will be submitted to the AR on approval.
- II. Operational Status
- III. Status of Previous Agreements and Commitments
- IV. New Agreements and Commitments
- V. Near Term Schedules and Ongoing Activities
 - A. Agreed Order - Implementation
 - B. HF RCRA Permit Rev. 9 Update
 - C. 8C updates, closure plans, Part B application
 - D. Conceptual Agreement Packages
 - E. Sludge Storage at T Plant
- VI. Approved Changes Signed Off in Accordance with TPA Section 12.2
- VII. General Discussion
- VIII. Actions

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- IX. Documents for Submittal to the Administrative Record
- X. Next Project Managers Meeting