

Meeting Minutes Transmittal

300 Area Project Meeting
 Project Managers Meeting
 337 Building, Mt. Rainier Room (3rd Floor North)
 Richland, Washington

August 7, 1997
 9:00 a.m. to 9:30 a.m.



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

Maple A. Barnard

Date: 9/11/97

Maple A. Barnard, Project Manager, RL

Jeanne J. Wallace

Date: 9/11/97

Jeanne J. Wallace, Project Manager, Washington State Department of Ecology

300 Area Project Meeting, PNNL Concurrence

David B. Crossley

Date: 9/11/97

David B. Crossley, Contractor Representative, PNNL

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 - ATG Corrective Action Plan
- Attachment 5 - PNNL WMOC Program - FY 1997 Performance Summary

Attachment 1

**300 AREA PROJECT MEETING
337 Building, Mt. Rainier Room
Richland, Washington**

**August 7, 1997
9:00 a.m. to 9:30 a.m.**

Agenda

1. Approval of Past 300 Area Project Managers Meeting Minutes.
(Ecology/DOE-RL/PNNL) (J. McAtee)
2. Efficiency Issues (Ecology/DOE-RL) (A. Barnard)
3. Status of 314 Building Issues (Ecology/DOE-RL/PNNL) (M. Burandt/
E. Mattlin)
 - Letter from EPA
 - DOE Submittal
4. Status of 331 NPDES (T. Lazarski)
5. Status of Action Items (Ecology/DOE-RL/PNNL)
 - 04-03-97:3 PNNL will proceed with closure of the 332 Storage
Facility stamp "CLOSED".
ACTION: H. Tilden (PNNL)
CLOSED
 - 05-01-97:1 Status of the Low Level Waste Drum guidance from Bob
Wilson (Ecology).
ACTION: J. Wallace (Ecology)
 - 05-01-97:2 PNNL will proceed with closure of the 324 Pilot Plant
stamp "CLOSED".
ACTION: H. Tilden (PNNL)
CLOSED
 - 06-05-97:1 Corrective Action Plan on the ATG Rejection ONO to
J. Wallace (Ecology)
ACTION: S. Warren (PNNL)
CLOSED
 - 06-05-97:2 Letter on 324 Sodium Pilot Plant
ACTION: G. Davis (Ecology)
CLOSED
6. General Discussion (Ecology/DOE-RL/PNNL)
 - Waste Management Assessment (A. Barnard)
 - Drum Over pressurization ONO, 305B (M. Riess)
7. New Action Items
8. Status of Budget Issues (Ecology/DOE-RL/PNNL) (J. Fulton/H. Harris)

Attachment 1

**300 AREA PROJECT MEETING
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Agenda

9. Schedule Variance and Funding (Ecology/DOE-RL/PNNL) (J. Fulton)
10. Next Project Managers Meeting (Ecology/DOE-RL/PNNL)
 - Next Meeting
September 4, 1997, 9:00am
337 Building, Mt. Rainier Room, 3rd Floor North
Richland, Washington
 - Proposed topics may be submitted to J. D. McAtee, e-mail
jaralyn.mcatee@pnl.gov, 372-4183, 372-6089 (fax).

300 AREA PROJECT MEETING
337 Building, Mt. Rainier Room
Richland, Washington

August 7, 1997
9:00 a.m. to 9:30 a.m.

1. Approval of Past 300 Area Project Managers Meeting Minutes

The June 5, 1997 minutes were approved. The July 1997 PMM was canceled.

2. Efficiency Issues

There were no efficiency issues to address.

3. Status of 314 Building Issues

- Letter from EPA

J. Wallace (Ecology) stated that she received a letter from D. Duncan (EPA Region 10), and the issue has been resolved. EPA does not consider the 314 site subject to the PCB Toxics Substances Control Act (TSCA).

- DOE Submittal

J. Wallace (Ecology) reported that PNNL's draft response to Ecology's compliance letter has been received. J. Wallace stated that the response package appears to be adequate; however, Ecology will be posing a few questions regarding analytical methods, etc. J. Wallace stated that PNNL's certification letter for the compliance action can be submitted to DOE-RL as soon as it is approved by Ecology.

4. Status of 331 NPDES

T. Lazarski (PNNL) provided a status regarding the 331 National Pollutant Discharge Elimination System (NPDES) permit. The 331 Facility has a NPDES outfall under the Hanford Site NPDES Permit. The Hanford Site NPDES permit contains several outfalls under one permit, which are operating under an existing permit that has been in effect since 1980.

D. Ragsdale (EPA Region 10) is coordinating the reopening of the 300 Area Treated Effluent Disposal Facility (TEDF) and the Hanford Site NPDES permit. T. Lazarski stated that he will be involved with the permit renewal and the possible combining of any remaining outfalls under one permit. The 300 Area 331 facility operates a aquaculture facility (fish raising) which falls below the production and feed rates, and therefore the NPDES permit for this facility has been proposed for exemption.

There are issues involving noncontact cooling water, rooftop storm water, and source water. These issues were identified to the EPA within the permit reapplication submittal.

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T. Lazarski (PNNL) provided a status regarding the Hanford Site General Baseline Storm Water Permit, which was issued to DOE in 1992. DOE has submitted a Notice of Intent (NOI) to the EPA for renewal of the storm water permit, which expires in September 1997. T. Lazarski stated that PNNL does not fall under the requirements of the storm water permit. PNNL operates under the Standard Industrial Classification (SIC) Code 8731, which is not regulated under the storm water program. PNNL has provided DOE justification/certification that the storm water requirements do not apply.

EPA is in the process of approving a new set of storm water requirements, which may place the Hanford Storm Water Permit into the Multi-Sector Permit.

5. Status of Action Items

04-03-97:3 PNNL will proceed with closure of the 332 Storage Facility stamp "closed."

J. Wallace (Ecology) stated she received the document, and this action item was **CLOSED**.

05-01-97:1 Status of the Low Level Waste Drum guidance from Bob Wilson.

M. Riess (PNNL) indicated that B. Wilson was not planning to issue Low Level Waste Drum guidance. This action item was **CLOSED**.

05-01-97:2 PNNL will proceed with closure of the 324 Pilot Plant stamp "closed."

J. Wallace (Ecology) stated she received the document, and this action item was **CLOSED**.

06-05-07:2 Letter on 324 Sodium Pilot Plant.

A letter was received from G. Davis (Ecology) (Attachment 4). This action item was **CLOSED**.

6. General Discussion

- Waste Management Assessment

M. Jarvis (DOE-RL) reported that the Waste Management assessment has not been scheduled. This item will be tracked until the assessment is scheduled.

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- Drum Overpressurization ONO, 305B

M. Riess (PNNL) reported that the ONO is in draft form. J. Wallace (Ecology) stated that she had seen the initial ONO regarding the acid waste placed in a metal container, which caused gas pressurization. B. Wilson and S. Moore (Ecology) performed an initial investigation at 305B, and their follow-up report will be available within a month. M. Riess noted that B. Wilson has been provided copies of analytical information and corrosion testing of the container. In response to a question from J. Wallace, M. Riess stated that the waste originated in the 324 building, but resulted from PNNL research activities in a leased portion of the building rather than B&W activities.

M. Riess (PNNL) stated that the waste has been cleaned up, repackaged and relabeled. 305B has gone through an internal review for restart-up. J. Wallace (Ecology) stated that she would request B. Wilson (Ecology) to contact the 305B Facility. G. McNair (PNNL) noted that B. Wilson is due for a site visit to the 331 Building today. M. Riess stated that he would discuss the issue with him. M. Riess stated that all of the operations with the exception of bulking operations are ready for restart.

M. Riess (PNNL) also noted that the contingency plan requires the 305B Facility to notify Ecology regarding the incident. J. Wallace (Ecology) indicated that she would contact the Ecology inspectors, who are responsible for contingency plan notification.

J. Wallace (Ecology) inquired about the past use of a pipe located between the 324 and 325 buildings. T. McKarns (DOE-RL) reported that through historical reviews and interviews, he determined that the pipe had been used during the '78 - '79 time frame to ship liquid samples.

7. New Action Items

There were no new action items.

8. Status of Budget Issues

J. Fulton (PNNL) distributed a handout outlining the FY 1997 performance summary through July 1997. The limited guidance update to the project baseline summaries for FY99 budgeting process has been completed and will be resubmitted to DOE Headquarters 8/8/97. All of the units of analysis are prevailing in priority except for the newly proposed legacy waste unit of analysis, which is of concern to PNNL. The waste needs to be identified, characterized and assessed, and lack of funding

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places PNNL further behind in gaining control of those activities. PNNL plans to work with the Assistant Manager for Technology (AMT) within DOE-RL to address the issue from a site perspective priority setting process. J. Fulton noted that the legacy waste unit of analysis is also unfunded for FY98.

All of FY97 activities are fully funded, with some additional activities expected to be funded.

J. Wallace (Ecology) inquired about funding for the 325 RLWS upgrade for the duration of the project (completion date of 9/98). J. Fulton (PNNL) stated that one million dollars was received for FY97, and PNNL anticipates using \$600,000 this fiscal year. PNNL plans to commit for the procurement of the tank delivery in FY98.

9. Schedule Variance and Funding

J. Fulton (PNNL) reported that the cost and schedule variances have significantly improved. J. Fulton projected that PNNL will end FY97 within minimal and acceptable levels of uncosted carryover, and there will be minimal amounts of uncompleted work that will be deferred to FY98. FY98 baseline planning process is ongoing. The multiyear work plan is due to be signed by DOE and the various contractors on or about September 26, 1997.

10. Next Project Managers Meeting (Ecology/DOE-RL/PNNL)

- Next Meeting

September 11, 1997
337 Building/Mt. Rainier Room
10:00am - 10:30am

- Proposed topics may be submitted to J. D. McAtee, e-mail jaralyn.mcatee@pnl.gov, 372-4183, 372-6089 (fax).

Attachment 4

300 AREA PROJECT MEETING
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August 7, 1997
9:00 a.m. to 9:30 a.m.

ATG Corrective Action Plan

**Corrective Action Plan
for the Management of Radioactive Wastes at the
Pacific Northwest National Laboratory**

June 19, 1997

Over the past 18 months, several shipments of radioactive waste failed verification tests and were subsequently rejected by Rust Federal Services of Hanford, Inc. (RFSH) for noncompliance with the Hanford Site Waste Acceptance Criteria (WHC-EP-0063, Rev. 5). Three general issues have resulted in verification test or profile review failures:

- improper segregation of waste
- waste packages that have resulted in chemical compatibility questions due to long-term storage requirements
- submittal of incomplete portfolio data to RFSH for review.

This corrective action plan will describe the root cause of these issues and will outline the corrective actions that the Pacific Northwest National Laboratory's (Pacific Northwest's) Environmental Management Services (EMS) Department have taken to ensure that all future radioactive waste containers are managed and packaged in compliance with WHC-EP-0063.

Improper Segregation of Waste

Radioactive waste at Pacific Northwest has historically been packaged in the field by waste generators. All low-level waste (LLW) packages that failed verification tests were the result of improper segregation of wastes (e.g., prohibited articles, such as batteries, light bulbs, or free liquids, packaged in LLW containers; insufficient filler material used for packaging). The root cause of these failures is insufficient waste generator knowledge to properly package radioactive wastes. To address this insufficient knowledge, the waste generator training courses have been revised and Field Service Representatives have been deployed to oversee or perform all radioactive waste packaging in the field.

Waste Packages That Have Resulted in Chemical Compatibility Questions Due to Long-Term Storage Requirements

In the last 12 months, two containers of radioactive mixed wastes (RMW) have failed verification testing due to questions associated with chemical compatibility. Two issues are associated with this item:

- packaging wastes in containers that will not withstand 20-year storage requirements at the Central Waste Complex
- packaging wastes that are potentially incompatible in the same drum.

No specific container criteria are provided in WHC-EP-0063, Rev. 5. to meet the 20-year storage term for RMW. To resolve this issue, Pacific Northwest recently requested that RFSH provide specific container criteria for long-term storage to ensure that all future shipments will meet container compatibility requirements. In addition, Pacific Northwest recently implemented a mandatory internal review of all RMW packing lists for compatibility before packaging. Since this review was implemented in late April, no issues or questions have yet been identified that are associated with RMW chemical compatibility.

Submittal of Incomplete Portfolio Data to RFSH for Review

The last issue that did not result in rejection of waste but has generated significant questions in profile review is the provision of incomplete or insufficient information in the portfolio. Problems related to this issue most frequently include noted box dimensions in the incorrect order, inconsistent weight notations, and reporting thermal powers that are inconsistent with Solid Waste Information Track System (SWITS) calculations. In a recent single instance, the greater than Class C calculation information was not provided for a waste container. The root cause for this issue is a lack of formal document review before the information is transmitted to RFSH. Pacific Northwest has implemented a formal process to review radioactive waste paperwork before shipment, including obtaining a peer review and supervisory review. EMS has also requested that RFSH provide the calculations used in the SWITS database to resolve minor reporting inconsistencies.

The above sections provide a summary of the verification test failures that have occurred, root causes, and a brief explanation of the general corrective actions that have and are being implemented. Below is a detailed listing of the corrective actions that have been and will be implemented and their dates of implementation.

Corrective Actions Implemented July 1996:

- “LLW Generator Training” and “LLW Packager Training” were revised to include hands-on waste documentation exercises, as well as citing recent lessons learned.
- Facility-specific LLW generator training courses were provided to staff who are associated with LLW disposal.
- Field Service Representatives (or equivalent positions) received documented training from EMS staff on LLW characterization, segregation, and packaging requirements.
- Signs that list commonly encountered prohibited wastes were posted in areas where unsealed LLW containers are filled.
- Visual inspection by EMS staff (or equivalent) or Real-Time Radiography was required on 5 percent of all LLW packaged after July 25, 1996.
- EMS staff began field screening 5 percent of the liquid waste containers before shipment.

Corrective Actions Implemented August 1996:

- Clear bags used for collecting LLW replaced opaque yellow bags to allow for visual inspection of waste.
- Visual verification of containers were performed by EMS staff during generator assistance walkthroughs.
- The Waste Inventory Sheet was revised to include a section for listing nonstandard items that are added to waste containers. In addition, a section has also been added for the initials and date of the waste generator who is responsible for packaging the waste and the EMS staff who verify the contents of containers

Corrective Actions Implemented April 1997:

- A packaging list review system was implemented for all RMW before packaging.
- Clarification was requested from RFSH on 20-year container compatibility requirements.

Corrective Actions Implemented June 1997:

- A formal review system was implemented for all radioactive waste shipment documentation.
- Before loading any waste into a box or sea-land container, the waste must be staged and visually verified by the Field Service Representative.
- Two checklists were prepared to proceduralize the inspection of containers that hold compatible and noncompatible LLWs.
- Packaging of all LLW containers is performed by or overseen by EMS staff.
- All LLW wood and metal boxes are locked to ensure that only appropriate waste is added. Keys for all locks are maintained only by the Field Service Representative.
- Any questionable waste is segregated and not loaded until all questions are resolved.
- Bags that contain radioactive laboratory waste are not added as filler to boxes that contain compatible waste. The contents of these bags have resulted in several verification failures.
- Once the waste container is full, the Field Services Representative places a tamper-resistant seal on the lid to indicate that the contents of the container have been verified and not tampered with. The Field Services Representative's initials and date are placed on the container when sealed for control purposes.

- The Field Services Representative also reviews and signs the Waste Inventory Sheet for each container they verify
- All backlog waste is opened, and EMS staff verifies the contents by visual inspection or by x-ray machine (see July 1997 section) before shipment. Visual examination is limited to
 - containers that have dose rates < 20 mR/hr
 - containers that have removable contamination levels < 100 times the Table 2-2 limits for Contamination Areas as found in the *Hanford Site Radiological Control Manual* (and replicated in PNL-MA-26, *PNL Radiological Control Implementing Procedures*)
 - containers that do not hold highly dispersible radiologically contaminated materials.

Corrective Actions to be Implemented by July 1997:

- Pacific Northwest has obtained capital funds to purchase an x-ray machine that will be installed in the 325 Building, Room 50. The bags from all backlog waste containers that have not been visually inspected will be verified by this x-ray machine. The x-ray machine operates similarly to Real-Time Radiography and allows the operator to determine what the waste bag contains without opening the bag. This examination is limited to bags with dose rates < 20 mR/hr.
- All drummed compactable waste generated in the future that meets the above criteria will be verified by this x-ray machine before compaction.

Effective June 6, 1997, the above corrective actions, with the exception of the x-ray verification process, have been fully implemented by EMS staff. These actions will bring all Pacific Northwest radioactive waste packages into compliance with the Hanford Site Waste Acceptance Criteria.

Field guidelines for the management of LLW

By Environmental Field Services Representatives

The following guidelines provide steps to be taken by Environmental Field Services Representatives (FSR's) to ensure the proper verification and control of any LLW streams generated by their designated facilities. Any variances to these guidelines should first be approved by the Lead FSR.

These guidelines, if followed, will allow for the disposal of the waste without a Waste Operations verification via x-ray or visual. However, until our 100% verification rate is reduced by Rust Acceptance Services, all waste will need to be verified by a RUST representative. For sealand containers and boxes, it would be most cost effective to stage the material that is to be disposed of. At that time, verify the contents, and prior to placing them in either the box or the sealand container, contact the Waste Operations LLW coordinator and request that a RUST representative be present during the loading to perform their verification.

If the RUST verification cannot be performed at that time, the verification of the sealand will have to take place during unloading operations at ATG and the box will be required to be x-rayed prior to acceptance.

Management of Sealand containers:

1. The sealand container must have a lock on it. The key shall remain in the custody of the Field Service Representative (FSR) at all times. The FSR will not allow any other person to have access to the container. The only exception is if it is a high radiation waste which must, per RadCon, be under the jurisdiction of the RCT.
2. The FSR will perform a visual verification of all waste articles to be placed into the sealand container utilizing the inspection checklist provided by Waste Operations.
3. Entries on the Waste Inventory Sheet (WIS) shall be completed by the FSR or under the FSR's direct supervision. If it is completed under the direct supervision of the FSR, the FSR must still sign the form indicating they verified all contents. The WIS shall remain in the FSR's custody.
4. A sign shall be posted on the Sealand Container indicating the contact for any information about the container contents and a warning not to tamper with it. (Form LLW.FSR.97)
5. No lab LLW bags are to be placed into the sealand container, not even as a filler.

6. Once the sealant is full, a seal will be placed across the opening with the name of the verifier, the date and a seal number noted on it. This same seal number shall be written on the WIS.
7. Submit a chemical disposal/recycle request (cdrr) to Waste Operations and enter its # on WIS.

Management of LLW Boxes:

1. The box shall remain locked if there is to be sporadic loading. The key shall remain in the custody of the FSR at all times. The FSR will not allow any other person to have access to the container. The exception to this is if it is a high radiation waste stream. In this case RadCon dictates that the RCT shall have custody.
2. The FSR will perform a visual verification of all waste articles to be placed into the LLW box, utilizing the inspection checklist provided by Waste Operations.
3. Entries on the WIS shall be completed by the FSR or under the direct supervision of the FSR. If it is completed under the direct supervision of the FSR, the FSR must still sign the form indicating they verified all contents. The WIS shall remain in the FSR's custody.
4. A sign shall be posted in the LLW box indicating the contact for any information about the container's contents and a warning not to tamper with it. (Form LLW.FSR.97)
5. No lab LLW bags are to be placed into the LLW boxes, not even as a filler.
6. Once a LLW box is full and all contents have been verified, the FSR will place a seal across the opening with the name of the verifier, the date the box was closed, and a seal number noted on it. This same seal number shall be written on the WIS.
7. Submit a cdrr to Waste Operations and enter the # on the WIS.

Management of LLW Drums:

1. Place clear LLW bags with Magenta trifoils in all LLW drums under FSR control.
2. Place a WIS on top of the drum for the generator to complete when adding waste.

3. Monitor the drum and when it is ½ full, remove it from the drum and inspect the contents utilizing the inspection checklist. Verify that all contents listed on the WIS match the contents of the bag and that all contents are acceptable per the checklist provided by Waste Operations. Then seal the bag by “horsetailing” it.
4. Sign the WIS verifying all of the contents.
5. Assign a bag tracking number to the bag and write it on the outside of the bag with a heavy black permanent marker. Write the same tracking number on the WIS. (The tracking number shall be the FSR’s initials followed by the year (97,98 etc) followed by a series of numbers starting with 1. For example SLW-97-1,2,3,4,5,6,7, etc.)
6. Take the bag from the generators location and place it in a designated collection area inside of a drum or a LLW box.
 - If drums are to be used for storage, place a seal, with your name, date, and a seal number across the opening of the drum upon closing it.. Also place a LLW.FSR.97 sign on the drum to prevent any tampering with its contents. Assign the drum a number and enter that number on the WIS to track where the bags are located. (The bag tracking number matches the WIS to the bag, but does not track where you put it after pulling it from the lab.)
 - If boxes are to be used for storage, keep them locked at all times except when adding waste. Place a LLW.FSR.97 sign on the box to prevent any tampering. Assign the box a number to track which waste bags were placed in I and put that number on the WIS. When it is fully loaded, place a seal on it with the FSR’s name, the date, and the seal number across the opening.
7. Once you have filled the box with lab waste or have a sufficient number of drums, submit a cdrv to Waste Operations. The waste will be transported to the 325 facility for compaction and replaced with rotating LLW containers.

Generator: _____

Container Location: _____

NON-COMPACTIBLE LLW CHECKLIST
(Rev.0)

	YES	NO
1. Have all liquids been drained and absorbed from equipment?	_____	_____
2. Have all suspect items been removed prior to loading?	_____	_____
4. Is the box/sealand free of laboratory waste bags (i.e. step off pad waste)?	_____	_____
5. Is lead solder present on equipment to be loaded?	_____	_____
6. Is there absorbent added to container(s) that previously held liquids?	_____	_____
7. Have all fume hoods been emptied?	_____	_____
8. Do fume hoods contain any regulated metals from prior laboratory work?	_____	_____
9. Do fume hoods contain any lead sheets?	_____	_____
10. Have the contents been removed from all glove boxes?	_____	_____
11. Is there any equipment that contains light bulbs?	_____	_____
12. Are there any batteries or items that could contain batteries present?	_____	_____
13. Have all sharp articles been taped/padded to prevent damage to inner liner?	_____	_____

Box/Sealand

14. Has the box been locked and has an FSR maintained access control at all times? _____

Notes: _____

Inspected by: _____ Date: _____

DO NOT OPEN THIS CONTAINER OR
ATTEMPT TO BREAK ANY SEAL IN
PLACE WITHOUT FIRST
CONTACTING ENVIRONMENTAL
FIELD SERVICES:

@_____ or(pager)_____

ALL INTERNAL VERIFICATIONS
MUST BE REPEATED IF THIS
CONTAINER IS TAMPERED WITH.

FOR CONTENT INFORMATION
CONTACT THE ABOVE PERSON

SEAL NUMBER: _____

Attachment 5

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August 7, 1997
9:00 a.m. to 9:30 a.m.

PNNL WMOC Program - FY 1997 Performance Summary

**PNNL WMOC Program
FY 1997 Performance Summary
Thru July
1997**

8/6/1997

Info as of July end 1997: Rev 1 Baseline					BCWS	BCWP	ACWP	SV	CV
Subactivity	Type	SubAcct	Funds	BAC	FYTD	FYTD	FYTD	FYTD	FYTD
8400-00-DA / Waste Management Operations 8410-00-JA	OP	17629C 15337E	4,171,279	4,171,000	3,406,000	3,173,018	3,241,149	-232,982	-68,131
8400-00-DA / Effluent Management 8410-00-JA	OP	19173A	2,071,000	2,071,000	1,699,000	1,372,000	1,239,202	-327,000	132,799
8400-00-NA Essential ES&H Drawings	OP	21275A	435,000	435,000	356,000	343,000	342,716	-13,000	284
8400-00-UA / WM Operations Compliance PM 8410-00-IA	OP	19958B	760,000	760,000	615,000	549,315	443,196	-65,685	106,119
8400-00-FB S&M Misc Facilities	OP	18698B	99,000	99,000	81,000	81,000	30,033	0	50,967
8400-00-FB / 325 S&M/patrol/RLWS 8410-00-GA	OP	22547A 27549A	2,891,000	2,891,000	2,281,000	2,281,800	2,231,895	800	49,905
8400-00-FB RLWS	GPP	24276A 24277A	950,000	400,000	242,000	184,000	208,151	-58,000	-24,151
8400-00-HB EC Technical Support Services	OP	26165A	1,478,000	1,478,000	1,205,500	1,083,200	1,007,993	-122,300	75,207
8400-00-HB / Environmental Compliance Projects 8410-00-EA	OP	19177C	288,000	288,000	255,000	240,200	239,912	-14,800	288
Total			13,143,279	12,593,000	10,140,500	9,307,533	8,984,246	-832,967	323,287

PNNL WMOG Program FY 1997 Performance Summary Through July 1997

Subactivity	Title	SV		CV	
8400-00-DA/ 8410-00-JA	Waste Management Operations	-\$233K	due to early funding uncertainty; expect to make up variance by year end	-\$68K	result of higher labor overhead rates; \$114K spent on 314 cleanout (seeking alternate sources for 314 cleanout); increased costs w/ implementation of LLW tracking database; increased verification requirements from disposal facility (offset by efficiencies using vehicles in handling Hazardous waste.)
8400-00-DA/ 8410-00-JA	Effluent Management	-\$327K	delay in revisions to Facility Effluent Monitoring Plans to comply with 10CFR834; delay in completion of air chemical emissions database work due to unavailability of programming support; delay in EMSL emissions and stack measurements due to lab occupancy being less than 75%; loss of staff member	\$133K	\$102K cost accrual reversal and \$12K G&A credit (lowered from 42% to 40.5%)
8400-00-NA	Essential ES&H Drawings	-\$13K	due to early funding uncertainty; expect to make up variance by year end.	\$.3K	N/A
8400-00-UA/ 8410-00-IA	WM Operations Compliance PM	-\$66K	delay in MYWP guidance for implementation; variance from expected PBS completion cycle	\$106K	lower than expected effort on LOE activities
8400-00-FB	S&M Misc Facilities	\$0K	N/A	\$51K	no significant repairs or maintenance activities needed to date in inspected buildings
8400-00-FB/ 8410-00-GA	325 S&M / patrol / RLWS (OE)	\$.8K	N/A	\$50K	lagging laundry charges; less than expected preventative maintenance costs; \$20K extra assessment with patrol.
8400-00-FB	RLWS (GPP)	-\$58K	RLW loadout: delay start in design effort due to late receipt of project authorization; longer than anticipated period for initial design criteria information gathering; recoverable by adding resources to impacted disciplines -subcontracting some of mechanical design; anticipate 5 week delay in completion of design effort which is not expected to impact construction as activities not needing full design (primarily field run piping) have started as well as completion of preliminary demo activities. 204 AR: slow start on design due to delays with RLW loadout.	-\$24	higher than expected costs for RCT support of construction activities.
8400-00-HB	EC Technical Support Services	-\$122K	due to early funding uncertainty with limited resource availability when funding became available; TSCA behind due to delayed promulgation of 10CFR834 and delayed permit applications by research organizations	\$75K	efficiencies in NEPA and P2/WM.
8400-00-HB/ 8410-00-EA	Environmental Compliance Projects	-\$15K	decreased performance during budget resolution during beginning of FY; all milestones have been submitted on or ahead of schedule.	\$.3K	N/A

Distribution:

M. A. Barnard	RL	K8-50
M. E. Burandt	RL	K8-50
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