



## Department of Energy

Idaho Operations Office  
1955 Fremont Avenue  
Idaho Falls, ID 83415

November 13, 2014

Dennis Faulk  
Environmental Protection Agency  
309 Bradley Blvd., Suite 115  
Richland, WA 99352

Daryl F. Koch, FFA/CO Manager  
Waste Management and Remediation Division  
Idaho Department of Environmental Quality  
1410 North Hilton  
Boise, ID 83706-1255

SUBJECT: Transmittal of the October 2014 Federal Facility Agreement and Consent Order  
Monthly Report (WDP-RWMC-14-026)

Dear Mr. Faulk and Mr. Koch:

In accordance with Section XVII, Reporting of the Federal Facilities Agreement and Consent Order (FFA/CO), transmitted herewith are copies of the October 2014 FFA/CO Monthly Report.

If you have any questions, please contact me at (208) 526-4392.

Sincerely,



Nolan R. Jensen, FFA/CO Project Manager  
Department of Energy, Idaho Operations Office

Enclosure

cc: S. D. Lee, MFC  
C. Henvit, NR-IBO  
T. J. Dieter, CWI  
M. E. Brown, CWI  
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UFC: 6102.RWMC.11  
Disposition Authority: ENV1-a  
WDP-RWMC-14-026

ID DISTRIBUTION:

Email to: ! DOE-ID Admin Support  
Jensen, Nolan R.  
Malmo, James A.  
Bass, W. G.  
Zimmerman, John P.

CONCURRENCE:

RECORD NOTES:

1. This letter was prepared to transmit the October 2014 FFA/CO Monthly Report to the Agencies per the FFA/CO, section 17.
2. This letter was prepared by Nolan Jensen.
3. This letter/memo closes Pegasus number N/A
4. The attached correspondence has no relation to the Naval Nuclear Propulsion Program.

N. Jensen (WDP-RWMC), J. Holt, 6-0301, November 12, 2014, O:\DOE-ID\EM-  
ICP\WDP\RWMC\RWMC Letters 2014\WDP-RWMC-14-026 Transmittal of October 2014  
FFA\_CO Montly Report.docx 

# **IDAHO CLEANUP PROJECT**



## **IDAHO NATIONAL LABORATORY FEDERAL FACILITY AGREEMENT AND CONSENT ORDER (FFA/CO) MONTHLY REPORT**

**October 2014**

## FFA/CO Report

### SCOPE

The Department of Energy – Idaho Operations Office (DOE-ID) through their contractors have responsibility for regulation-compliant characterization, assessment, and remediation of identified release sites listed in the Idaho National Engineering and Environmental Laboratory (INEEL) *Federal Facility Agreement and Consent Order (FFA/CO)*. Planned cleanup activities include excavation, removal, treatment, stabilization, containment, long-term monitoring, and institutional controls, as required to meet regulatory commitments. Activities are structured to effectively and efficiently conduct characterization, assessment, and remediation of all Waste Area Groups (WAGs) and identified release sites listed in the FFA/CO for the Idaho National Laboratory (INL).

The environmental cleanup is structured along the following administrative units:

1. WAG 1 – Test Area North (TAN) Remediation
2. WAG 2 – Reactor Technology Complex (RTC) Remediation (formerly Test Reactor Area –[TRA])
3. WAG 3 – Idaho Nuclear Technology and Engineering Center (INTEC) Remediation
4. WAG 4 – Central Facilities Area (CFA) Remediation
5. WAG 5 – Power Burst Facility/Auxiliary Reactor Area (PBF/ARA) Remediation
6. WAG 7 – Radioactive Waste Management Complex (RWMC) Remediation
7. WAG 8 – Naval Reactors Facility (NRF)
8. WAG 9 – Materials and Fuels Complex (MFC) (formerly Argonne National Laboratory-West ANL-W)
9. WAG 6/10 – Miscellaneous Soil Areas and Groundwater and Long-term Stewardship (LTS)

### October 2014 ACCOMPLISHMENTS

- Waste received at the ICDF for the fiscal month October 2014:
  - Solid LLW received at landfill: 652.42 m<sup>3</sup> (ITG cargos)
  - Liquid MLLW received at evaporation ponds: 5,737 gal (well purge water)
- Continued ARP VIII waste exhumation
- Completed quarterly TAN groundwater and NPTF sampling.
- Completed the WAG 2 water levels measurements and groundwater monitoring per Groundwater Monitoring Plan for the Advanced Test Reactor Complex Operable Unit 2-13.
- The WAG 7 Vapor Vacuum Extraction and Treatment (VVET) system removed and treated approximately 119 pounds of total volatile organic compounds (TVOCs) from the vadose zone.

Note: Summary totals may not agree with the sum of unit totals due to rounding

OU 7-08 Organic Contamination in the Vadose Zone Remedial Action. Since the beginning of operations in January of 1996, the following amounts of VOCs have been removed and treated.	
Total Cumulative	Total Current Month
approximately 241,524 lb of TVOC approximately 138,241 lb of CCl <sub>4</sub>	approximately 119 lb of TVOC approximately 18 lb of CCl <sub>4</sub>
The cumulative below represents the entire volume per unit since the initiation of operations in January 1996	
Cumulative	Current Month
Unit D	
48,796 lb TVOC 21,454 lb CCl <sub>4</sub>	47 lb TVOC 4 lb CCl <sub>4</sub>

<b>Unit E</b>	
69,559 lb TVOC 41,410 lb CCl <sub>4</sub>	34 lb TVOC 6 lb CCl <sub>4</sub>
<b>Unit F</b>	
123,169 lb TVOC 75,377 lb CCl <sub>4</sub>	38 lb TVOC 8 lb CCl <sub>4</sub>

**FFACO Documents:**

- Transmitted the final Post-Record of Decision Groundwater Monitoring and Field Sampling Plan for Operable Unit 10-08 to Agencies for review on October 28, 2014
- Transmitted a draft revision of the INL Site-Wide Institutional Controls and Operations and Maintenance Plan for CERCLA Response Actions to the Agencies for review on October 07, 2014.

**Support Activities:**

- Performed weekday operation of the NPTF.
- Completed monthly OCVZ vapor sampling and analysis October 2, 2014.
- 100% run time for OCVZ units at WAG 7.

**ISSUES**

No issues identified for this reporting period.

**90-DAY LOOK AHEAD**

**November**

- Continue ICDF operations and maintenance as required.
- Receive and dispose of waste in the ICDF.
- Continue ARP facility minimum required maintenance.
- Continue ARP VIII exhumation operations.
- Complete the WAG 7 annual groundwater sampling event.
- Complete the WAG 7 annual vadose zone sampling event.
- Submit the final Phase 1 Interim Remedial Action Report for Operable Unit 7-13/14 Targeted Waste Retrievals (Rev 3) to the Agencies.
- Submit the final IC/O&M Plan to the Agencies.
- Submit the draft field sampling plan for TRA-80 to the Agencies for review.
- Compile and report targeted waste retrieval and shipment data.
- Operate NPTF during weekdays to reduce TCE concentrations.
- Complete monthly NPTF performance sampling.
- Continue operations and maintenance of the vapor vacuum extraction system in the Subsurface Disposal Area.
- Complete the OCVZ monthly well sampling and transmit monthly report to the Agencies.
- Complete NSI forms as necessary.

**December**

- Continue ICDF operations and maintenance as required.
- Receive and dispose of waste in the ICDF.
- Continue ARP facility minimum required maintenance.

- Continue ARP VIII exhumation operations.
- Complete the ICDF semi-annual groundwater sampling event.
- Compile and report targeted waste retrieval and shipment data.
- Operate NPTF during weekdays to reduce TCE concentrations.
- Complete monthly NPTF performance sampling.
- Continue operations and maintenance of the vapor vacuum extraction system in the Subsurface Disposal Area.
- Complete the OCVZ monthly well sampling and transmit monthly report to the Agencies.
- Complete NSI forms as necessary.

#### January

- Continue ICDF operations and maintenance as required.
- Receive and dispose of waste in the ICDF.
- Continue ARP facility minimum required maintenance.
- Continue ARP VIII exhumation operations.
- Compile and report targeted waste retrieval and shipment data.
- Submit the draft revised OU 1-07B Rebound Test plan to the Agencies for review.
- Complete quarterly TAN groundwater and NPTF sampling.
- Submit the final field sampling plan for TRA-80 to the Agencies.
- Operate NPTF during weekdays to reduce TCE concentrations.
- Complete monthly NPTF performance sampling.
- Continue operations and maintenance of the vapor vacuum extraction system in the Subsurface Disposal Area.
- Complete the OCVZ monthly well sampling and transmit monthly report to the Agencies.
- Complete NSI forms as necessary.

#### Significant activities planned to occur in FY 2015:

- Deploy the new Long Term Stewardship Tracking System - **Complete**
- Perform annual institutional controls inspections
- Complete the Operable Unit 10-08 Monitoring Report for Fiscal Year 2014
- Continue operation of Environmental Data Warehouse and Geographic Information Database – Ongoing.
- Perform site-wide groundwater monitoring as required by agreements - Ongoing
- Complete required well maintenance
- Complete the Post-Record of Decision Groundwater Monitoring and Field Sampling Plan for Operable Unit 10-08 – **Complete**
- Complete the field sampling plan for TRA-80
- Complete the field sampling plan for CPP-139
- Complete the Part B NSID for TRA-75
- Complete the Part B NSID for TSF-61
- Complete the Part B NSID for ANL-67
- Complete the Part B NSID for CPP-138
- Complete the revised OU 1-07B Rebound Test Plan
- Complete the FY 2014 OU 1-07B Annual Report
- Complete the Annual Groundwater Monitoring Report for WAG 2

- Complete the FY 2014 OU 3-14 Operations and Maintenance Report
- Complete the Annual Groundwater Monitoring Report for WAG 4
- Complete the revised INL Site-Wide Institutional Controls and Operations and Maintenance Plan for CERCLA Response Actions
- Complete the Annual INL Site-Wide Institutional Controls and Operations and Maintenance Report
- Continue operations and maintenance of the vapor vacuum extraction system in the Subsurface Disposal Area - Ongoing
- Complete the revised Phase 1 Interim Remedial Action Report for Operable Unit 7-13/14 Targeted Waste Retrievals
- Complete the WAG 7 five year O&M report
- Complete the annual groundwater monitoring report for WAG 7
- Complete the annual soil moisture monitoring and reporting for WAG 7
- Submit a draft Five-Year Review of CERCLA Response Actions at the INL Site - Fiscal years 2010-2014 for Agency review