



## Department of Energy

Idaho Operations Office  
1955 Fremont Avenue  
Idaho Falls, ID 83415

January 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 December 2013 Federal Facility Agreement and Consent Order  
Monthly Report (WDP-RWMC-14-001)

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 December 2013 FFA/CO Monthly Report.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Nolan R. Jensen".

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

Enclosure

cc: S. D. Lee, MFC  
C. Henvit, NR-IBO  
T. J. Dieter, CWI  
M. E. Brown, CWI  
F. Webber, CWI  
B. Meagher, CWI

UFC: 6102.RWMC.11  
Disposition Authority: ENV1-a  
WDP-RWMC-14-001

ID DISTRIBUTION:

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

CONCURRENCE:

RECORD NOTES:

1. This letter was prepared to transmit the December 2013 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.
5. The attached correspondence has no relation to the ARRA stimulus funding.

**IDAHO CLEANUP PROJECT**



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

**December 2013**

## 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)

### December 2013 ACCOMPLISHMENTS

- No waste was received at the Idaho Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Disposal Facility (ICDF) this month.
- Completed waste exhumation for the balance of ARP III
- Initiated ARP VIII waste exhumation
- Completed quarterly inspection of the OU 3-14 drainage system.
- Completed the water level measurement and “Soak Ease” replacement for WAG 2 monitoring well PW-13.
- The WAG 7 Vapor Vacuum Extraction and Treatment (VVET) system removed and treated approximately 153 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.	
<b>Total Cumulative</b>	<b>Total Current Month</b>
approximately 240,141 lb of TVOC approximately 137,961 lb of CCl <sub>4</sub>	approximately 153 lb of TVOC approximately 28 lb of CCl <sub>4</sub>
The cumulative below represents the entire volume per unit since the initiation of operations in January 1996	
<b>Cumulative</b>	<b>Current Month</b>
<b>Unit D</b>	
48,215 lb TVOC 21,390 lb CCl <sub>4</sub>	75 lb TVOC 6 lb CCl <sub>4</sub>
<b>Unit E</b>	

69,183 lb TVOC 41,320 lb CCl <sub>4</sub>	36 lb TVOC 9 lb CCl <sub>4</sub>
<b>Unit F</b>	
122,743 lb TVOC 75,251 lb CCl <sub>4</sub>	42 lb TVOC 13 lb CCl <sub>4</sub>

FFA/CO Documents:

- Transmitted the Fiscal Year 2013 Annual Letter report for OU 7-13/14 O&M to the Agencies November 20, 2013.
- Transmitted the ANL-65 Prefinal Inspection Checklist and Limitations and Validation Report for September 2013, Operable Unit 10-08 to the Agencies December 17, 2013.

Support Activities:

- Completed the in-situ bioremediation (ISB) and New Pump and Treat Facility (NPTF) monthly sampling on December 10, 2013.
- Completed monthly and quarterly OCVZ vapor sampling and analysis December 4, 2013.
- 100% run time for OCVZ units at WAG 7.
- Performed weekday operation of the NPTF.

**ISSUES**

No issues identified for this reporting period.

**90-DAY LOOK AHEAD**

January

- Continue ICDF operations and maintenance as required.
- Receive and dispose of waste in the ICDF.
- Continue ARP facility minimum required maintenance.
- Resume ARP VII waste exhumation operations
- Continue ARP VIII exhumation operations
- Compile and report targeted waste retrieval and shipment data.
- Submit the draft FY 2013 WAG 10 monitoring report to the Agencies for review.
- 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.

#### February

- Continue ICDF operations and maintenance as required.
- Receive and dispose of waste in the ICDF.
- Continue ARP facility minimum required maintenance.
- Continue ARP VII waste exhumation operations
- Continue ARP VIII exhumation operations
- Compile and report targeted waste retrieval and shipment data.
- Complete the remedial action completion report for site ANL-65
- Submit the draft FY 2013 IC Annual O&M Report to the Agencies for review.
- Submit the final FY 2013 WAG 10 monitoring report 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.

#### March

- Continue ICDF operations and maintenance as required.
- Receive and dispose of waste in the ICDF.
- Continue ARP facility minimum required maintenance.
- Continue ARP VII waste exhumation operations
- Continue ARP VIII exhumation operations
- Compile and report targeted waste retrieval and shipment data.
- Submit the draft FY 2013 OU 1-07B annual report to the Agencies for review.
- Submit the draft FY 2013 OU 3-14 O&M report to the Agencies for review.
- Submit the draft FY 2013 WAG 4 annual GW monitoring report to the Agencies for review.
- 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 and quarterly well sampling and transmit monthly report to the Agencies.
- Complete NSI forms as necessary.

#### Significant activities planned to occur in FY 2014:

- Develop and maintain long-term stewardship functions - Ongoing
- Perform annual institutional controls inspections
- Complete Part B of the New Site Identification form for TRA-75
- Complete the field Sampling Plan (FSP) for TRA-80
- Complete the WAG 10 Phase IV Remedial Action Report
- Complete the final revised OU 3-14, Tank Farm Soil and INTEC Groundwater, Remedial Design/Remedial Action Work Plan - **Complete**
- Complete the revised WAG 2 Groundwater Monitoring Plan - **Complete**

- Complete the ANL-65 remedial action completion report
- Complete the FSP for the MDA disposal crater and complete sampling - **Complete**
- Continue operation of Environmental Data Warehouse and Geographic Information Database – Ongoing.
- Perform site-wide groundwater monitoring and prepare associated reports as required by agreements - Ongoing
- Complete required well maintenance
- Continue the OU 1-07B rebound test – Ongoing
- Complete the FY 2013 OU 1-07B annual report
- Complete the Annual Groundwater Monitoring Report for WAG 2
- Complete the OU 3-14 Operations and Maintenance Report
- Complete the Annual Groundwater Monitoring Report for WAG 4
- Continue operations and maintenance of the vapor vacuum extraction system in the Subsurface Disposal Area - Ongoing
- Complete revision to the WAG 7 vadose zone FSP
- Complete the WAG 7 five year monitoring report
- Complete the annual groundwater monitoring report for WAG 7
- Complete semi-annual soil moisture monitoring and reporting for WAG 7
- Complete the OU 7-13/14 Phase 3 Remedial Design Work Plan - **Complete**