



Department of Energy

Idaho Operations Office
1955 Fremont Avenue
Idaho Falls, ID 83415

November 18, 2013

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 2013 Federal Facility Agreement and Consent Order
Monthly Report (WDP-RWMC-13-053)

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 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-13-053

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 October 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 relates to the Naval Nuclear Propulsion Program in the following manner:
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

October 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)

October 2013 ACCOMPLISHMENTS

- Waste received at the Idaho Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (ICDF) this month include the following:
 - 1.12 m³ of WAG 2 purge water disposed of in the ponds.
- Continued waste exhumation of the balance of ARP III.
- Completed water level measurements at WAG 2 and WAG 3 monitoring wells.
- Completed the annual groundwater monitoring event for WAG 2.
- Completed excavation and backfill of site ANL-65 on October 10, 2013.
- The WAG 7 Vapor Vacuum Extraction and Treatment (VVET) system removed and treated approximately 89 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 239,849 lb of TVOC approximately 137,907 lb of CCl ₄	approximately 89 lb of TVOC approximately 17 lb of CCl ₄
The cumulative below represents the entire volume per unit since the initiation of operations in January 1996	
Cumulative	Current Month
Unit D	
48,077 lb TVOC 21,378 lb CCl ₄	33 lb TVOC 3 lb CCl ₄

Unit E	
69,109 lb TVOC 41,302 lb CCl ₄	26 lb TVOC 6 lb CCl ₄
Unit F	
122,663 lb TVOC 75,227 lb CCl ₄	30 lb TVOC 8 lb CCl ₄

FFACO Documents:

- The final revised OU 3-14, Tank Farm Soil and INTEC Groundwater, Remedial Design/Remedial Action Work Plan was submitted to the Agencies on October 7, 2013.
- The final revised WAG 2 Groundwater Monitoring Plan was submitted to the Agencies on October 16, 2013.
- The final Field Sampling Plan for the Mass Detonation Area Disposal Crater was submitted to the Agencies on October 10, 2013.

Support Activities:

- Completed the in-situ bioremediation (ISB) and New Pump and Treat Facility (NPTF) monthly sampling on October 16, 2013.
- Completed monthly and quarterly OCVZ vapor sampling and analysis October 2, 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

November

- Continue ICDF operations and maintenance as required.
- Receive and dispose of waste in the ICDF.
- Continue ARP facility minimum required maintenance.
- Continue exhumation of the area under the ARP II vestibule.
- Complete the WAG 7 Phase 3 RD Work Plan.
- Complete WAG 7 groundwater sampling.
- Complete characterization sampling at the Mass Detonation Area.
- Complete first semi-annual WAG 7 vadose zone sampling.
- 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.
- Complete exhumation of the area under the ARP II vestibule.
- Begin ARP VIII Exhumation Operations.
- Submit the ANL-65 pre-final inspection checklist.
- 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.
- Complete the remedial action completion report for site ANL-65
- Transmit the FY 2013 OCVZ annual letter 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.

Significant activities planned to occur in FY 2014:

- Develop and maintain long-term stewardship functions
- 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 Mass Detonation Area Disposal Crater and complete sampling
- 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