



Department of Energy

Idaho Operations Office
1955 Fremont Avenue
Idaho Falls, ID 83415

August 11, 2014

Dennis Faulk
Environmental Protection Agency
309 Bradley Blvd., Suite
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 July 2014 Federal Agreement and Consent Order Monthly Report
(WDP-RWMC-14-017)

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 July 2014 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 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
F. Webber, CWI
B. Meagher, CWI

UFC: 6102.RWMC.11
Disposition Authority: ENV1-a
WDP-RWMC-14-017

ID DISTRIBUTION:

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

CONCURRENCE:

RECORD NOTES:

1. This letter was prepared to transmit the July 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.
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**

July 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)

July 2014 ACCOMPLISHMENTS

- Waste received at the ICDF for the Fiscal month July 2014:
 - Solid LLW received at landfill: 144.98 M³ (ITG cargos)
 - Liquid MLLW received at evaporation ponds: 541 gal (ER purge water)
- Continued ARP VIII waste exhumation
- Completed the replacement of well pumps for two INTEC wells, USGS-47, and ICPP-1831.
- The WAG 7 Vapor Vacuum Extraction and Treatment (VVET) system removed and treated approximately 96 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 241,151 lb of TVOC approximately 138,168 lb of CCl ₄	approximately 96 lb of TVOC approximately 22 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	
48,659 lb TVOC 21,438 lb CCl ₄	33 lb TVOC 4 lb CCl ₄

Unit E	
69,449 lb TVOC 41,387 lb CCl ₄	29 lb TVOC 7 lb CCl ₄
Unit F	
123,043 lb TVOC 75,343 lb CCl ₄	34 lb TVOC 11 lb CCl ₄

FFA/CO Documents:

- Transmitted the draft Operable Unit 7-13/14 Five-Year Monitoring Report for Fiscal Years 2010-2014 to the Agencies for review June 25, 2014.
- Transmitted the Draft Part B of the New Site Identification Form for Site TRA-75 to the Agencies for review on July 17, 2014.

Support Activities:

- Completed the in-situ bioremediation (ISB) and New Pump and Treat Facility (NPTF) quarterly sampling on July 16, 2014.
- Performed weekday operation of the NPTF.
- Completed monthly OCVZ vapor sampling and analysis July 1, 2014.
- 100% run time for OCVZ units at WAG 7.

ISSUES

No issues identified for this reporting period.

90-DAY LOOK AHEAD

August

- 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 FY 2013 WAG 2 annual GW monitoring report to the Agencies.
- Submit the final Operable Unit 7-13/14 Five-Year Monitoring Report for Fiscal Years 2010-2014 to the Agencies.
- Complete the WAG 4 annual groundwater sampling event.
- Submit the final OU 10-04 Phase IV Remedial Action Report to the Agencies.
- Submit the draft IC/O&M Plan 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.

September

- 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 final FY 2013 WAG 2 annual GW monitoring report to the Agencies.
- Submit the draft Phase 1 Interim Remedial Action Report for Operable Unit 7-13/14 Targeted Waste Retrievals (Rev 3) to Agencies for review.
- Complete the ICDF semi-annual groundwater sampling event.
- Submit the final IC/O&M Plan 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.

October

- 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 WAG 2 annual groundwater sampling event.
- 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 - Ongoing
- Perform annual institutional controls inspections - **Complete**
- Complete Part B of the New Site Identification form for TRA-75
- Complete the field Sampling Plan (FSP) for TRA-80
- Complete the 10-04 Phase IV Remedial Action Report
- Complete the Operable Unit 10-08 Monitoring Report for Fiscal Year 2013 - **Complete**
- 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**
- 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**
- Complete the Annual Groundwater Monitoring Report for WAG 2
- Complete the OU 3-14 Operations and Maintenance Report - **Complete**
- Complete the Annual Groundwater Monitoring Report for WAG 4 - **Complete**
- Complete the Annual INL Site-Wide Institutional Controls and Operations and Maintenance Report - **Complete**
- 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**
- Complete revision to the operable Unit 7-13/14 Operations and Maintenance Plan - **Complete**
- Complete the WAG 7 five year monitoring report
- Complete the annual groundwater monitoring report for WAG 7 - **Complete**
- Complete the annual soil moisture monitoring and reporting for WAG 7 - **Complete**
- Complete the OU 7-13/14 Phase 3 Remedial Design Work Plan - **Complete**