



Department of Energy

Idaho Operations Office
1955 Fremont Avenue
Idaho Falls, ID 83415

January 10, 2019

David Einan, Unit Manager
Environmental Protection Agency
825 Jadwin Avenue, Suite 210
Richland, WA 99352

Daryl F. Koch, FFA/CO Manager
Waste Management and Remediation Division
Idaho Department of Environmental Quality
1410 North Hilton
Boise, ID 83706-1222

SUBJECT: Transmittal of December 2018 Federal Facility Agreement and Consent Order
Monthly Report (CLN190504)

Dear Mr. Einan 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 2018 FFA/CO Monthly Report.

If you have any questions, please contact me at (208) 526-5793.

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: INL Federal Facility Agreement and Consent Order Monthly Report

cc: S. D. Lee, MFC
C. Henvit, NR-IBO
F. P. Hughes, Fluor Idaho
M. Jewett, Fluor Idaho
B. Meagher, Fluor Idaho

ID DISTRIBUTION:

CONCURRENCE:

Email to: ! DOE-ID EDMS Correspondence (ASC)

Email to: ! Records Management

Jensen, Nolan R.

Malmo, James A.

Natoni, Christian

Watson, Will

Zimmerman, John P

RECORD NOTES:

1. This correspondence record belongs to WDP RWMC.
2. This letter was prepared to transmit the December 2018 FFA/CO Monthly Report to the Agencies per the FFA/CO, Section 17.
3. This letter was prepared by Nolan Jensen.
4. This letter closes Zeus number: NA
5. The attached correspondence has no relation to the Naval Nuclear Propulsion Program.


N. Jensen, (WDP); J. Holt, 6-0301; January 9, 2019; O:\DOE-IDA\EM-ICP\WDP\RWMC\FY19
RWMC Letterlog\CLN190504 Transmittal of December 2018 FFA_CO Monthly Report

IDAHO CLEANUP PROJECT



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

December 2018

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 2018 ACCOMPLISHMENTS

- Waste received at the ICDF for the fiscal month December 2018:
 - Solid waste received at landfill: 768.57 m³
 - Liquid waste received at the evaporation ponds: 0 gal
- Continued ARP VIII waste exhumation.
- Continued ARP IX preparations.
- Completed WAG 7 Quarterly vapor sampling on December 11th, 2018.
- Maintained WAG 3 perched water telemetry system and performed isolations on INTEC's fire water system December 12th, 2018.
- The WAG 7 Vapor Vacuum Extraction and Treatment (VVET) system removed and treated approximately 174 pounds of total volatile organic compounds (TVOCs) from the vadose zone during the period from November 19th, 2018 to December 23rd, 2018.

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

| | |
|---|---|
| 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 255,477 lb of TVOC approximately 142,758 lb of CCl ₄ | approximately 174 lb of TVOC approximately 37 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 | |
|---|--------------------------------------|
| 53,543 lb TVOC 22,657 lb CCl ₄ | 97 lb TVOC 10 lb CCl ₄ |
| Unit E | |
| 73,692 lb TVOC 42,866 lb CCl ₄ | 29 lb TVOC 10 lb CCl ₄ |
| Unit F | |
| 128,242 lb TVOC 77,235 lb CCl ₄ | 48 lb TVOC 17 lb CCl ₄ |

FFA/CO Documents:

- Transmitted the WAG 7 annual letter report to the Agencies on December 3rd, 2018.
- Submitted the draft 90% Design Report to the Agencies December 6th, 2018.

Support Activities:

- Processed 4.1 M gallons of water at NPTF.
- Completed Pad A quarterly inspection on December 13th, 2018.
- Completed site CPP-142 utility locate in support of future remediation.

ISSUES

None

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.
- Continue ARP VIII exhumation operations.
- Compile and report targeted waste retrieval and shipment data.
- Maintain CERCLA data management systems.
- Operate NPTF during weekdays to reduce TCE concentrations.
- Operate the VVET system 7 days a week, 24 hours a day.
- Complete TAN quarterly sampling.
- Finalize the revised TAN monitoring plan.
- Conduct testing of new fire water booster pump flow meter at INTEC.
- Conduct maintenance and upgrades to the perched water telemetry system at INTEC.
- Transmit the draft CPP-142 FSP to the Agencies.

February

- 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.
- Maintain CERCLA data management systems.

- Operate NPTF during weekdays to reduce TCE concentrations.
- Operate the VVET system 7 days a week, 24 hours a day.
- Transmit the WAG 7 vadose zone sampling letter report to the Agencies.
- Transmit the draft FY18 IC and O&M report to the Agencies.
- Transmit the draft WAG 4 annual report to the Agencies.

March

- 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.
- Maintain CERCLA data management systems.
- Operate NPTF during weekdays to reduce TCE concentrations.
- Operate the VVET system 7 days a week, 24 hours a day.
- Complete ISB injection at TAN.
- Complete TAN monthly sampling.
- Complete annual WAG 3 perched water sampling.
- Complete WAG 7 quarterly vapor sampling.

Significant activities planned to occur in FY 2019:

- Perform annual institutional controls inspections.
- Continue operation of Environmental Data Warehouse and GIS Database.
- Perform site-wide groundwater monitoring as required by field sampling plans.
- Complete the FY 2018 OU 1-07B Annual Report.
- Complete the Annual Groundwater Monitoring Report for WAG 2.
- Complete remediation of site CPP-142.
- Complete the FY 2018 OU 3-14 Operations and Maintenance Report.
- Complete the Annual Groundwater Monitoring Report for WAG 4.
- Complete annual letter report for OU 7-13/14 Operations and Maintenance - **Complete**
- Complete the annual WAG 10 Annual Groundwater Monitoring Report.
- Complete the annual groundwater monitoring report for WAG 7.
- Complete the annual soil moisture monitoring and reporting for WAG 7.
- Complete the Westbay wells rehabilitation.
- Complete CERCLA O&M site inspections.
- Complete ISB injections at TAN.
- Complete the FY 2018 Annual INL Site-Wide Institutional Controls and Operations and Maintenance Report.
- Complete Part B determinations for sites PBF-39, TRA-83 and TRA-84.
- Complete the SDA cap design.