



## Department of Energy

### Idaho Operations Office

1955 Fremont Avenue  
Idaho Falls, ID 83415

November 13, 2019

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

Pete Johansen, FFA/CO Program Supervisor  
Waste Management and Remediation Division  
Idaho Department of Environmental Quality  
1410 North Hilton  
Boise, ID 83706-1222

SUBJECT: Transmittal of October 2019 Federal Facility Agreement and Consent Order  
Monthly Report (CLN200196)

Dear Mr. Einan and Mr. Johansen:

In accordance with Section XVII, Reporting of the Federal Facilities Agreement and Consent Order (FFA/CO), transmitted herewith are copies of the October 2019 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  
Erik Whitmore, Fluor Idaho

**ID RECORD PAGE**

*[This page and concurrence notes/emails for internal distribution only]*

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Malmo, James A.  
Natoni, Christian  
Watson, Will  
Zimmerman, John P  
Jensen, Nolan R.

RECORD NOTES:

1. This correspondence record belongs to: WDP/RWMC
2. This letter was prepared to transmit the October 2019 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; November 13, 2019; O:\DOE-ID\EM-  
ICP\WDP\RWMC\FY20 RWMC Letterlog\CLN200196 Transmittal of October 2019 FFA\_CO  
Monthly Report

**IDAHO CLEANUP PROJECT**



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

**October 2019**

## 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 2019 ACCOMPLISHMENTS

- Waste received at the ICDF for the fiscal month October 2019:
  - Solid waste received at landfill: 608.82 m<sup>3</sup>
  - Liquid waste received at the evaporation ponds: 793.5 gal
- Continued ARP IX exhumation.
- The WAG 7 Vapor Vacuum Extraction and Treatment (VVET) system removed and treated approximately 73 pounds of total volatile organic compounds (TVOCs) from the vadose zone during the period from October 1<sup>st</sup>, 2019 through October 20<sup>th</sup>, 2019.
- Completed the TAN treatment injections on October 8<sup>th</sup>, 2019.
- Completed the TAN quarterly sampling on October 17<sup>th</sup>, 2019.
- Transmitted the TAN 4<sup>th</sup> quarter FY 2019 summary report to the agencies on October 3<sup>rd</sup>, 2019.
- Transmitted the TAN 4<sup>th</sup> quarter FY 2019 L&V report to the agencies on October 17<sup>th</sup>, 2019.
- Completed the WAG 3 annual FY 2020 aquifer water level measurements on October 9<sup>th</sup>, 2019.
- Transmitted the FY 2019 4<sup>th</sup> quarter Pad A inspection report to the agencies on October 3<sup>rd</sup>, 2019.
- Completed the O&M activities and radiological survey for Institutional Control sites on October 16<sup>th</sup>, 2019.

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 256,552 lb of TVOC<br>approximately 143,067 lb of CCl <sub>4</sub>                                   | approximately 73 lb of TVOC<br>approximately 20 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   |  |
| 54,044 lb TVOC<br>22,741 lb CCl <sub>4</sub>   | 37 lb TVOC<br>6 lb CCl <sub>4</sub>                                    |
| Unit E   |  |
| 73,993 lb TVOC<br>42,956 lb CCl <sub>4</sub>   | 15 lb TVOC<br>5 lb CCl <sub>4</sub>                                    |
| Unit F   |  |
| 128,575 lb TVOC<br>77,370 lb CCl <sub>4</sub>  | 21 lb TVOC<br>9 lb CCl <sub>4</sub>                                    |

FFA/CO Documents:

- Transmitted final NSI Part As for NSI-26038, NSI-26039, and NSI-26040 on October 15<sup>th</sup>, 2019.

Support Activities:

- Conducted routine operations at the NPTF, processed 604,998 gallons of water between October 1<sup>st</sup>, 2019 and October 20<sup>th</sup>, 2019. Note that the NPTF was offline between October 1<sup>st</sup>, 2019 and October 14<sup>th</sup>, 2019.

**ISSUES**

None

**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 IX exhumation.
- 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 treatment injections at TAN-1860.
- Complete TAN monthly sampling.
- Perform FY 2020 1<sup>st</sup> quarter Tank Farm remedy component inspection.
- Complete the FY 2020 annual WAG 7 vadose zone sampling.
- Submit VVET system annual report.
- Complete FY 2020 WAG 2 groundwater sampling
- Begin CERCLA Five Year Review.

- Continue Westbay well rehabilitation.
- Support the CAB meeting for SDA cap design presentation on October 24<sup>th</sup>, 2019.
- Complete survey and inspections at CERCLA sites impacted by the Sheep Fire.

#### December

- Continue ICDF operations and maintenance as required.
- Receive and dispose of waste in the ICDF.
- Continue ARP facility minimum required maintenance.
- Continue ARP IX 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 monthly sampling
- Complete TAN ISB injection at TAN-1860.
- Complete fall FY 2020 well maintenance activities.
- Continue Westbay well rehabilitation.
- Prepare draft CPP-142 NSI Part B.

#### January

- Continue ICDF operations and maintenance as required.
- Receive and dispose of waste in the ICDF.
- Continue ARP facility minimum required maintenance.
- Continue ARP IX 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.
- Submit draft WAG 3 FY 2019 annual report.
- Transmit the revised EDF-10116, OU 2-14 Phase II 9-% Design Document for agency review.
- Submit VVET system mass removal report.
- Continue Westbay well rehabilitation.
- Prepare draft FY 2019 IC and O&M report.

#### Significant activities planned to occur in FY 2020:

- 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 2019 OU 1-07B Annual Report.
- Complete the FY 2020 Annual Groundwater Monitoring Report for WAG 2.
- Complete NSI Part B for CERCLA site CPP-142.
- Complete the FY 2019 OU 3-14 Operations and Maintenance Report.
- Complete the FY 2019 Annual Groundwater Monitoring Report for WAG 4.
- Complete annual letter report for OU 7-13/14 Operations and Maintenance -.
- Complete the FY 2019 WAG 10 Annual Groundwater Monitoring Report.

- Complete the annual FY 2020 groundwater monitoring letter 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 2019 Annual INL Site-Wide Institutional Controls and Operations and Maintenance Report.
- Complete the WAG 7 groundwater monitoring five-year review report.
- Complete the WAG 7 operations and maintenance five-year review report.
- Submit the draft CERCLA five-year review report.