



## Department of Energy

### Idaho Operations Office

1955 Fremont Avenue  
Idaho Falls, ID 83415

December 12, 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  
1410 North Hilton  
Boise, ID 83706-1222

SUBJECT: Transmittal of November 2019 Federal Facility Agreement and Consent Order  
Monthly Report (CLN200388)

Dear 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 November 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

Flohr, Connie

Jensen, Nolan R.

RECORD NOTES:

1. This correspondence record belongs to: WDP/RWMC
2. This letter was prepared to transmit the November 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 11, 2019; O:\DOE-ID\EM-  
ICP\WDP\RWMC\FY20 RWMC Letterlog\CLN200388 Transmittal of November 2019 FFA  
\_CO Monthly Report

**IDAHO CLEANUP PROJECT**



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

**November 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)

### November 2019 ACCOMPLISHMENTS

- Waste received at the ICDF for the fiscal month November 2019:
  - Solid waste received at landfill: 1,050.19 m<sup>3</sup>
  - Liquid waste received at the evaporation ponds: 3,575 gal
- Continued ARP IX exhumation.
- The WAG 7 Vapor Vacuum Extraction and Treatment (VVET) system removed and treated approximately 125 pounds of total volatile organic compounds (TVOCs) from the vadose zone during the period from October 21<sup>st</sup>, 2019 through November 17<sup>th</sup>, 2019.
- Completed the TAN treatment injections on November 4<sup>th</sup>, 2019.
- Completed the TAN monthly sampling on November 11<sup>th</sup>, 2019.
- Transmitted the WAG 3 4<sup>th</sup> quarter FY 2019 status report to the agencies on November 12<sup>th</sup>, 2019.
- Completed the semi-annual WAG 3 perched water level measurement and data download on November 5<sup>th</sup>, 2019.
- Transmitted the FY 2019 WAG 3 perched water L&V report to the agencies on November 14<sup>th</sup>, 2019.
- Completed the FY 2020 WAG 7 vadose zone sampling on October 24<sup>th</sup>, 2019.
- Completed the FY 2020 WAG 2 groundwater sampling on October 21<sup>st</sup>, 2019.
- Transmitted the FY 2019 WAG 4 L&V report to the agencies on November 14<sup>th</sup>, 2019.
- Completed post-Sheep Fire survey of Institutional Control sites.

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 256,677 lb of TVOC approximately 143,098 lb of CCl <sub>4</sub>	approximately 125 lb of TVOC approximately 29 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	
54,110 lb TVOC 22,750 lb CCl <sub>4</sub>	66 lb TVOC 8 lb CCl <sub>4</sub>
Unit E	
73,958 lb TVOC 42,965 lb CCl <sub>4</sub>	25 lb TVOC 8 lb CCl <sub>4</sub>
Unit F	
128,609 lb TVOC 77,383 lb CCl <sub>4</sub>	34 lb TVOC 13 lb CCl <sub>4</sub>

FFA/CO Documents:

- Transmitted draft NSI Part A for CPP-143, NSI-20641 on October 29<sup>th</sup>, 2019.

Support Activities:

- Conducted routine operations at the NPTF, processed 3.3M gallons of water between October 21<sup>st</sup>, 2019 and November 17<sup>th</sup>, 2019.
- Replaced the sump pump at the INTEC evaporation pond on November 12<sup>th</sup>, 2019.

**ISSUES**

None

**90-DAY LOOK AHEAD**

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.
- 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.
- Perform FY 2020 1<sup>st</sup> quarter Tank Farm remedy component inspection.
- Submit VVET system annual report.
- Complete 1<sup>st</sup> quarter FY 2020 Pad A inspection.
- Begin CERCLA Five Year Review.
- Continue Westbay well rehabilitation.
- Complete fall FY 2020 well maintenance activities.

## 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.
- Complete FY 2020 INTEC water system isolations.
- Continue Westbay well rehabilitation.
- Prepare draft CPP-142 NSI Part B.
- Transmit the revised EDF-10116, OU 2-14 Phase II 9-% Design Document for agency review.
- Prepare WAG 4 FY 2019 annual report.

## February

- 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.
- Submit draft WAG 3 FY 2019 annual report.
- Continue Westbay well rehabilitation.
- Submit 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.