Sincerely,

Nolan R. Jensen, FFA/CO Project Manager
Department of Energy, Idaho Operations Office


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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
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 m³
  - 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 21st, 2019 through November 17th, 2019.
- Completed the TAN treatment injections on November 4th, 2019.
- Completed the TAN monthly sampling on November 11th, 2019.
- Transmitted the WAG 3 4th quarter FY 2019 status report to the agencies on November 12th, 2019.
- Completed the semi-annual WAG 3 perched water level measurement and data download on November 5th, 2019.
- Transmitted the FY 2019 WAG 3 perched water L&V report to the agencies on November 14th, 2019.
- Completed the FY 2020 WAG 7 vadose zone sampling on October 24th, 2019.
- Completed the FY 2020 WAG 2 groundwater sampling on October 21st, 2019.
- Transmitted the FY 2019 WAG 4 L&V report to the agencies on November 14th, 2019.
- Completed post-Sheep Fire survey of Institutional Control sites.
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.

<table>
<thead>
<tr>
<th>Total Cumulative</th>
<th>Total Current Month</th>
</tr>
</thead>
<tbody>
<tr>
<td>approximately 256,677 lb of TVOC</td>
<td>approximately 125 lb of TVOC</td>
</tr>
<tr>
<td>approximately 143,098 lb of CCl₄</td>
<td>approximately 29 lb of CCl₄</td>
</tr>
</tbody>
</table>

The cumulative below represents the entire volume per unit since the initiation of operations in January 1996.

<table>
<thead>
<tr>
<th>Cumulative</th>
<th>Current Month</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Unit D</strong></td>
<td></td>
</tr>
<tr>
<td>54,110 lb TVOC</td>
<td>66 lb TVOC</td>
</tr>
<tr>
<td>22,750 lb CCl₄</td>
<td>8 lb CCl₄</td>
</tr>
<tr>
<td><strong>Unit E</strong></td>
<td></td>
</tr>
<tr>
<td>73,958 lb TVOC</td>
<td>25 lb TVOC</td>
</tr>
<tr>
<td>42,965 lb CCl₄</td>
<td>8 lb CCl₄</td>
</tr>
<tr>
<td><strong>Unit F</strong></td>
<td></td>
</tr>
<tr>
<td>128,609 lb TVOC</td>
<td>34 lb TVOC</td>
</tr>
<tr>
<td>77,383 lb CCl₄</td>
<td>13 lb CCl₄</td>
</tr>
</tbody>
</table>

FFA/CO Documents:
- Transmitted draft NSI Part A for CPP-143, NSI-20641 on October 29th, 2019.

Support Activities:
- Conducted routine operations at the NPTF, processed 3.3M gallons of water between October 21st, 2019 and November 17th, 2019.
- Replaced the sump pump at the INTEC evaporation pond on November 12th, 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 1st quarter Tank Farm remedy component inspection.
- Submit VVET system annual report.
- Complete 1st 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 NSI Part B for CERCLA site CPP-142.
- Complete the FY 2019 OU 3-14 Operations and Maintenance Report.
- Complete annual letter report for OU 7-13/14 Operations and Maintenance -.
- 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.