SECTION C.14 – IDAHO CLEANUP PROJECT III (ICP-III)
ADDITIONAL WORKSCOPE

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The period of performance for contract Sections C.2 thru C.7 is through September 30, 2012.

The period of performance for contract Section C.8 is October 1, 2012 through September 30, 2015.

The period of performance for contract Section C.14 is October 1, 2015 through March 31, 2016.

C.14 – IDAHO CLEANUP PROJECT – III (ICP-III) - ADDITIONAL WORKSCOPE

If the cleanup scope in this Statement Of Work is accomplished earlier than the contract completion date and funds are available, the Department of Energy (DOE) may add work scope to support the Environmental Management (EM) mission at the Idaho site pursuant to Section I.81, Changes – Cost Reimbursement (AUG 1987), and Alternate I (APR 1984). The additional work to be performed, the estimated cost, and the associated fee will be negotiated and the contract will be modified prior to the Contractor commencing any such work. Funding must be available to cover the costs and negotiated fee for any additional work scope. Fee earned as a result of completion of the additional work scope will be subject to the any fee limits stipulated in Section B.26.

Section C.14 contains projected work scope to be completed by the Idaho Cleanup Project (ICP) Contractor beginning October 1, 2015, or earlier, and shall be completed no later than March 31, 2016. This extension period is herein referred to as ICP-III.

C.14.1 SPENT NUCLEAR FUEL (PBS ID-0012)

C.14.1.1 SPENT NUCLEAR FUEL STABILIZATION

Description of Materials and Facilities

Under the Idaho Cleanup Project (ICP), DOE’s Office of Environmental Management (EM) manages approximately 268 metric tons of heavy metal (MTHM) of spent nuclear fuel (SNF) in six storage facilities located at the Idaho Nuclear Technology and Engineering Center (INTEC) within the Idaho National Laboratory (INL), and at one offsite facility located in Platteville, Colorado. The SNF is managed under DOE Orders and procedures in four facilities, and the requirements of the Nuclear Regulatory Commission (NRC) licenses in two facilities.
On the INL Site, EM manages four dry storage facilities (one of which is NRC-licensed), and one wet storage facility.

The sixth facility, also an NRC-licensed facility, is located in Colorado.

The two NRC-licensed facilities are known as Independent Spent Fuel Storage Installations (ISFSI).

Exhibit C.14-1, *ICP Assigned Spent Nuclear Fuel Official Use Only (OUO)*, provides a high-level of the SNF and the associated storage facilities. Among the SNF inventory are seven unirradiated fuel items (by definition special nuclear materials). They are stored and managed within two of the SNF dry storage facilities.

**General Scope**

The Contractor shall manage all EM-owned SNF, and the associated facilities and records according to the established processes, procedures (both DOE and NRC), in an efficient, safe and secure manner while meeting the appropriate quality assurance regimen (DOE’s *Quality Assurance Requirements and Description, DOE/RW-0333P*, and NRC’s NQA-1) for the respective facilities.

The Contractor shall also be responsible for managing the SNF not owned by EM currently stored in the wet storage basins of CPP-666 (see Section C.14.1.4.2).

The Contractor will manage established projects for: 1) SNF receipts into the facilities; 2) transfers out to other facilities and locations; and 3) facility maintenance activities as determined necessary. These projects will be managed in a project-like fashion meeting DOE cost, schedule, and reporting requirements. In addition, the Contractor will provide tour support.

**C.14.1.2 NRC LICENSED SNF STORAGE (ID-0012B.03)**

The Contractor shall provide management of the NRC-licensed materials (intact SNF and SNF debris) and the associated storage facilities, in accordance with the license basis documents including commitments made to the NRC for: 1) the Three Mile Island (TMI) Independent Spent Fuel Storage Installation SNM-2508 located at INTEC, 2) the Idaho Spent Fuel Facility (ISFF) SNM-2512 to be located at INTEC, and 3) the Fort Saint Vrain (FSV) Independent Spent Fuel Storage Installation SNM-2504 located in Colorado.

This responsibility includes: 1) management and update (as required) of the licenses and related documents; 2) surveillance and maintenance (S&M), (3)
conduct of operations for the two operating facilities, and (4) security compliance as specified within the respective NRC licenses.

At the TMI ISFSI, protective security services are provided by the INL Management and Operations (M&O) contractor, Battelle Energy Alliance, LLC (BEA).

At the FSV ISFSI, the protective security force is provided by DOE-ID under a separate contract with Elite Universal Security (ELITE) as a Government Furnished Service and Item (GFSI). DOE-ID manages the protective force security contractor directly. The Contractor is responsible for surveillance and maintenance of security equipment and license required security documentation, S&M program. Roles and responsibilities between the three parties are defined and conducted under the terms of an Interface Agreement established between DOE-ID, CWI and ELITE. CWI will prepare a draft of the Interface Agreement for review and mutual agreement of all parties. The agreement will be finalized within the first two months of this contract extension.

The Contractor will support DOE-ID in its interactions with the NRC such as preparation of technical evidence to support license renewal and an aging management program for the TMI ISFSI, NRC inspections, and resolution to requests for information. The Contractor shall continue preparing the TMI license renewal application package. A draft of the TMI aging management program shall be completed by January 2016.

The Contractor shall support DOE-ID and its design and construction contractor in association with the security upgrade project at FSV. This will include: design review, construction surveillance and assistance (as required), and system acceptance testing of the security upgrades implemented at FSV. DOE-ID will remain as the Design Authority and assume all those responsibilities. The Contractor shall also support DOE-ID and its security contractor in training associated with the security upgrades and documentation turnover for the associated upgrades.

**C.14.1.3 SNF PROGRAMS (ID-0012B.02)**

**C.14.1.3.1 INTEC SNF STORAGE FACILITIES SURVEILLANCE AND MAINTENANCE (ID-0012B.02)**

The Contractor shall provide management of the SNF and facilities in accordance with the DOE Orders, procedures, and authorization safety basis documents. All INTEC SNF facilities are Nuclear Facility Hazard Category 2.
This responsibility includes: 1) management and update (as required) of the associated procedures and safety basis documents; and 2) surveillance and maintenance (S&M), and conduct of operations for the four operating facilities. S&M includes appropriate preventive maintenance adequate to support operations in accordance with the planned activities and projects schedule. It does not include security.

DOE may transfer SNF, SNF facilities, and associated resources from ICP (EM) to the INL M&O contractor (BEA) during the contract period. The Contractor shall support and participate in this transition. Facility transition and associated transfer costs, to include any facility upgrades or enhancements, will not be an element of the base cost, and if pursued will be ordered pursuant to Section I.81, Changes Clause.

In 2009, DOE found SNF stored in CPP-603 that was not included in the special nuclear material accountability inventory. The Contractor will complete all paperwork, analyses, and fabrication, and will complete the dry runs and drills preparatory to doing the assay.

C.14.1.4 SNF TRANSFERS

C.14.1.4.1 FOREIGN AND DOMESTIC SNF RECEIPTS (ID-0012B.02)

The Contractor shall maintain the capability (trained personnel, equipment, and procedures) to receive SNF within the Foreign Research Reactor (FRR) and Domestic Research Reactor (DRR) Programs for storage in CPP-603. Capability will also include appropriate contact with potential SNF shippers, and the FRR/DRR community for informational exchanges and technical support. Support to DOE in planning for receipts is included in the scope; however, no receipts are anticipated during the period of performance.

The Contractor shall update each of the documents associated with SNF receipts processes, procedures and requirements, to include: MCP-2861 and associated Forms 434, PLN-218, PLN-312, EDF-6293, and TFR-2524.

C.14.1.4.2 CPP-666 TRANSFERS (ID-0012B.02)

Experimental Breeder Reactor II (EBR-II) SNF and Advanced Test Reactor (ATR) SNF are two SNF types owned by the Office of Nuclear Energy (NE), but currently stored in the EM-managed wet storage basins of CPP-666. EBR-II SNF must be prepared and transferred from the basins to the INL M&O (BEA) for treatment at the Materials and Fuels Complex (MFC). ATR SNF will continue to be received for storage within the basins until NE determines an alternative storage plan.
The Contractor shall retrieve, load, and transfer EBR-II SNF to the MFC per a schedule to be negotiated with BEA. The Contractor shall receive ATR SNF for storage in the CPP-666 basin per a schedule to be negotiated with BEA.

C.14.1.4.2.1 EBR-II SNF TRANSFERS (ID-0012B.02)

The Contractor shall retrieve nine (9) shipments by March 31, 2016, of EBR-II SNF (described in Exhibit C.14-2, EBR-II Spent Nuclear Fuel (OUO)) for transfer from CPP-666 to MFC for dispositioning. Each shipment will contain sixteen (16) bottles and be loaded in a shipping cask for transfer. The associated transportation scope and costs will be borne by the INL M&O (BEA), and are not part of this contract. The rate of transfer is dependent on maintaining the Navy Fuel Returns schedule and also the capabilities of the receipt facility at MFC. These transfers must be coordinated with the receipt facility at MFC by the Contractor.

C.14.1.4.2.2 ATR RECEIPTS (ID-0012B.02)

The Contractor shall continue to receive SNF from the ATR into the CPP-666 basins, using existing chargers that carry 8-elements/load, at a rate that supports the ATR schedule. Assume 8 shipments for the extension period. These receipts must be coordinated with the shipping facility at ATR by the Contractor to maintain both the Navy Fuel Returns and EBR-II transfer schedules.

C.14.1.5 NAVAL NUCLEAR PROPULSION PROGRAM SPENT NUCLEAR FUEL (NNPP FUNDED)

Naval Spent Nuclear Fuel (NSNF) is currently stored in the CPP-666 pools at the Idaho Nuclear Technology and Engineering Center (INTEC) located at the Idaho National Laboratory (INL) Site. NSNF will be transferred to the Naval Reactors Facility (NRF), on the INL Site. The Contractor shall support the schedule established by the NSNF program and assume five (5) shipments for the contract extension period. NSNF covered by the Memorandum of Agreement (MOA) at INTEC will be removed by April 31, 2018, assuming adequate funding for scheduled delivery of materials, equipment, procedures, and operations.

C.14.2 REMOTE HANDLED (RH) TRANSURANIC(TRU) (PBS 13)

C.14.2.1 EM OWNED RH TRU

C.14.2.1.1 RH TRU DISPOSITION (ID-0013B.04)
NOTE: Mod 284 and 294 modified this section as a result of the WIPP closure impacts and the six month CPP-666 maintenance gap due to funding constraints for the Navy 102 cans scope.

The Idaho Settlement Agreement requires that RH-TRU generated prior to 1995 be shipped out of Idaho prior to December 31, 2018. The waste to be dispositioned by the Contractor, listed in Exhibit C.14-3, RH TRU Waste, is intended to maintain progress toward compliance with the Idaho Settlement Agreement. The Contractor shall perform all work necessary to place this waste into a configuration that meets the Waste Isolation Pilot Plant (WIPP) waste acceptance criteria (WAC). This may include: retrieval, repackaging, treatment, characterization, sampling/analysis, and provide compliant storage if WIPP is not available to receive waste and eventually load the waste into RH-72B casks for transport.

Transport of RH-TRU waste to WIPP and waste stream approval are government furnished services. For WIPP to accept RH-TRU shipments from the Contractor, the Contractor shall:

a. Utilize the services of the DOE Central Characterization Project (CCP) contractor to oversee the development of the waste certification data packages and assembly of the loads. Costs for the services of CCP shall be paid by the Contractor.

b. Support the development of the waste certification data packages to show compliance with the WIPP WAC, support the defense of the data packages, and support negotiations with the State of New Mexico and the Environmental Protection Agency.

c. The Contractor shall provide safe and compliant storage of RH TRU waste pending shipment to permanent disposal. If WIPP becomes available to receive waste, the Contractor shall maintain control of the shipment through loading and assembly of the cask, placement and securing the cask onto the transport trailer provided by the government, and inspection of the assembled load, truck, and trailer by the Idaho State Police (ISP). After the ISP has determined that the shipment has passed inspection, the Contractor will release the shipment, thereby transferring control to the WIPP transport contractor.

The Contractor shall disposition all RH-TRU waste generated from the containers listed in Exhibit C.14-3, RH TRU Waste, as described below. In addition, CH-TRU product drums that are returned to the AMWTP from the RH-TRU program will meet the Contractor’s contractual obligation for this waste at the time of the transfer.
a. With the exception of Lot 2b, all waste in Lots 1-9, including the concrete drum located at AMWTP, shall be retrieved, transferred to INTEC, repackaged, characterized, and placed in compliant storage for future shipment to WIPP, transferred to the AMWTP contractor as CH-TRU, or disposed of at an appropriate M/LLW disposal facility by the dates indicated in Exhibit C.14-3.

b. All waste in Lot 2b shall be placed into storage at INTEC for processing by March 31, 2016. The Contractor shall complete all required changes and be ready to perform startup activities for Lot 2b processing by March 31, 2016. Startup activities for Lot 2b shall be completed by June 30, 2016. The Contractor may repackage additional containers from Lot 2b as time allows.

c. Additional RH-TRU waste may be discovered at the AMWTP during the course of ongoing waste retrievals. Any RH-TRU from AMWTP is legacy waste that will require shipment out of Idaho before September 30, 2018, for Idaho Settlement Agreement compliance. Since the AMWTP contractor does not maintain an RH-TRU capability, any newly discovered RH-TRU will be transferred to the Contractor for repackaging and compliant storage pending future shipment to WIPP. This additional material will not be an element of the base cost but will be separately ordered pursuant to Section I.81, Changes Clause, as it is identified.

d. The Contractor shall continue to certify RH-TRU for shipment to WIPP and place it into compliant storage.

e. The Contractor shall continue working on the following activities in support of the NNPP 102 cans project:
   a. Initiate WM authorization basis evaluations and changes
   b. Initiate INTEC authorization basis evaluations and changes
   c. Initiate evaluations on restoring the transfer cart from the pool to the hot cell
   d. Continue supporting waste stream approval process

The Contractor shall continue with the RH TRU repackaging and waste characterization capabilities in CPP-659 and maintain proficiency for preparing RH 72Bs for shipment to WIPP.
The Contractor shall purchase new Interim Storage Containers during FY2016 as it deems necessary to support continued RH-TRU program work during FY2017.

The Contractor shall support the development and negotiation with the DEQ of the Remote Waste Disposition Project (RWDP) backlog schedule and alternatives evaluation activities per the required milestone in the INL Site Treatment Plan.

f. The Contractor shall complete the construction of a bulk argon supply system and storage pad to support RH-TRU operations in CPP-666. This system shall be operational by March 31, 2016.

C.14.2.1.2 ANALYTICAL LABORATORY OPERATION (ACL) (ID-0013B.04)

The Contractor will be responsible for ACL operations. ACL operations shall be fully functional to support the RH TRU program and the CH TRU program as needed.

C.14.2.2 GENERAL WASTE MANAGEMENT

The Contractor shall be responsible for compliance with the RCRA Post Closure Requirements for CPP-601/627/640 and the Waste Calcine Facility as identified in PER-112 “Volume 21 - HWMA/RCRA Post-Closure Permit for the INTEC WCF and CPP-601/627/640 at the INL” and the requirements found in PER-143 “Municipal and Industrial Wastewater Reuse Permit, LA-000130-05, Idaho Nuclear Technology and Engineering Center New Percolation Ponds”. In addition, the Contractor shall be responsible for sampling and reporting results for the drinking water systems at INTEC and RWMC; development of environmental reports; maintaining the ICP Environmental Surveillance Program and providing input to the Annual Site Environmental Report; and supplying compliant waste characterization activities sampling for the ICP.

The Contractor shall use all means practicable to minimize or eliminate any newly generated wastes. These wastes, including secondary wastes, shall not be generated unless it is necessary for the completion of the contract scope and must comply with all applicable Federal, State, and local environmental laws, regulations, and agreements. Newly generated wastes shall have a clear disposition path before they are generated. However, under certain conditions the Contractor may generate radioactive waste with no identified path to disposal, provided DOE approval, per Order 435.1, Radioactive Waste Management, has been obtained in advance. The Contractor shall consider and specify cleanup and demolition methods, alter existing plans, or propose alternative technical approaches to eliminate or
minimize newly generated waste. In addition, the Contractor shall pursue alternate approaches to reduce the cost of waste disposition, and for those wastes that currently have no established pathway for disposal, the Contractor shall aggressively pursue innovative approaches to treat or otherwise dispose of this waste.

C.14.2.2.1 INDUSTRIAL WASTE (ID-0013B.05)

The Contractor shall properly dispose of solid waste generated as a result of cleanup activities as of January 31, 2016, by March 31, 2016, excluding waste from AMWTP. The Central Facilities Area (CFA) landfill is available from the INL contractor.

C.14.2.2.2 HAZARDOUS WASTE (ID-0013B.05)

The Contractor shall properly dispose of solid waste generated as a result of cleanup activities as of January 31, 2016, by March 31, 2016, excluding waste from AMWTP. The Central Facilities Area (CFA) landfill is available from the INL contractor.

C.14.2.2.3 LOW LEVEL WASTE (LLW) AND MIXED LOW LEVEL WASTE (MLLW) (ID-0013B.05)

The Contractor shall be responsible for safe management and disposition of CH and RH LLW waste generated by the on-site EM generators, excluding waste from AMWTP as of January 31, 2016, by March 31, 2016. The Contractor shall also be responsible for safe management and disposition of RH LLW received from the NRF. Costs for containers, characterization, packaging, loading, and transportation of RH LLW to the Subsurface Disposal Area (SDA) will be borne by the generating contractor. The Contractor shall dispose of EM-owned MLLW that is stored on-site as of the contract takeover date and/or generated by EM activities performed under this contract, at either a commercial disposal facility or a government disposal facility, in accordance with waste acceptance criteria specified by the receiver site. The Contractor may provide this service at a negotiated price for waste generated by on-site INL contractor. Disposal costs shall be borne by the generating contractors. All targeted waste retrieved and packaged from the SDA under Operable Unit (OU) 7-13/14 activities that are assayed as LLW or MLLW, must be disposed of out of the state of Idaho.

The Contractor shall complete a hydrogen model and analysis and perform a disposal study to disposition the 171 U-233 waste containers currently stored at INTEC. The study shall be coordinated with the AMWTP Contractor and shall evaluate all potential commercial and Federal disposal paths, including AMWTP treatment. The Contractor shall make a
recommendation for the most cost effective approach to disposition the 171 containers of U-233 outside of the state of Idaho. The Contractor’s recommendation and study results shall be delivered to DOE by December 31, 2015. The Contractor shall plan to vent up to 8 containers of U-233 for disposal upon the completion of the U-233 study. Venting of these containers shall begin in January, 2016 and be complete by March 31, 2016. Pending availability of the DOE owned Type B cask, two of the vented containers shall be dispositioned outside of the State of Idaho by March 31, 2016.

C.14.2.4 WASTE GENERATOR SERVICES (ID-0013B.05)

For all waste streams generated by EM activities performed under this contract, excluding waste from AMWTP, the Contractor shall provide waste management services, with the exception of the mandatory landfill services provided by the INL contractor. The Contractor shall institute controls to confirm traceability of waste packages transferred or disposed, either on-site or off-site. Documentation shall include, as a minimum, the origin of the waste, content of the waste package, and results of characterization and sampling. The Contractor shall implement a waste minimization and pollution prevention program consistent with applicable Executive Orders and DOE Directives as listed in Section J, Attachment B. To the maximum extent practicable, the Contractor shall consolidate waste materials in as few locations as possible to effectively reduce the EM footprint liability on-site.

C.14.2.3 RWMC INFRASTRUCTURE (ID-0013B.07)

The Contractor shall maintain the physical and utility interfaces with the AMWTP site. This will include maintenance of the following:

- WMF-619 Communications and Alarm Building
- WMF-639 Firewater Pump House #2
- WMF-727 Firewater Tank
- WMF-603 Domestic Water Pump House
- WMF-738 Propane Tank
- WMF-637 Operations Control Building
- WMF-731 RWMC Sewer Lagoons
- WMF-704 Bridge
- WMF-710 Bridge

AMWTP maintains and utilizes three facilities in the balance of the Radioactive Waste Management Complex (RWMC) Area. The Contractor will maintain utility service to these buildings and provide the power at no
cost to the AMWTP contractor. The point of termination for maintenance by the Contractor shall be five feet from the exterior of the facilities. The facilities are:

- WMF-602 RWMC High Bay (AMWTP)
- WMF-611 Operations Support Facility (AMWTP)
- WMF-613 WMF Office Building & Operational (AMWTP)

C.14.2.4 REPACKAGING OF CH-TRU SLUDGE WASTE IN ARP V (ID-0013B.08)

The Contractor shall maintain a RCRA permit and Toxic Substances Control Act (TSCA) risk based disposal approval for Accelerated Retrieval Project (ARP) V to allow use of ARP V to treat waste stored at AMWTP. The Contractor shall maintain an agreement with the AMWTP Contractor to receive stored waste. Delivery of the waste to the Contractor at an acceptable rate is a government furnished service and will be performed by the AMWTP Contractor.

The Contractor shall treat up to 64 boxes of AMWTP solids by December 31, 2015. The Contractor shall treat up to an additional 650 drums of AMWTP solids waste by March 31, 2015. This will include the treatment and disposal of all secondary waste that is generated by the Contractor, including the original container carcasses. All necessary RCRA permit revisions will be completed prior to start of this work. The AMWTP contractor will provide all waste characterization and Acceptable Knowledge documentation revisions activities for the Contractor to perform this work prior to start of work; this will be a government furnished service. Additional solids containers may be added to this scope upon completion of regulatory approval. This scope will be added through the changes clause.

The Contractor shall develop, permit as necessary, and startup a process to disposition drums from AMWTP that contain unreacted roaster oxides by March 31, 2016.

The Contractor shall also develop, startup, and operate a project to treat up to 12 boxes of debris waste by March 31, 2016. The treatment would involve opening the legacy waste box, removing debris and packaging into a new box for shipment back to AMWTP, and removal of all large, dense items from the box for separate packaging and return to AMWTP. The large dense objects shall be unwrapped as necessary and decontaminated with simple hand-on decontamination methods where possible, with the intent of ensuring that the item assays as MLLW. All secondary waste would be boxed with the debris for return to AMWTP.
C.14.3 INTEC PROGRAM (PBS ID 14)

This PBS covers INTEC maintenance and infrastructure costs, as well as Calcine disposition and Tank Farm closure.

C.14.3.1 INTEC INFRASTRUCTURE (ID-0014B.O3)

The Office of Nuclear Energy (NE) owns several buildings within the INTEC fence that are segregated into a security area within proximity of INTEC. The Contractor shall coordinate with the INL contractor to allow efficient use of these buildings.

The Contractor shall operate and maintain the INTEC buildings and structures listed in Exhibit C.14-4, INTEC Structures, required for ongoing missions in accordance with the Contractor’s documented Integrated Safety Management System (ISMS) description (as required by DEAR 970.5223-1). DOE may request an estimate from the Contractor to support infrastructure upgrade projects performed by DOE prime small business contractors (funded separately by DOE), including coordination with the DOE prime small business contractors. Facilities that are no longer mission required shall be maintained in safe, inactive condition until demolished and/or transferred to another office for future missions. The Contractor shall efficiently use facilities to minimize the INTEC footprint and to minimize costs.

The Contractor shall support the transition of EM facilities to NE or another program office. Included in this transition, the Contractor will be required to perform facility maintenance and/or repairs to make the facility acceptable for transition. Facility transition, repairs and associated transfer costs will not be an element of base cost, but will be separately ordered pursuant to Section I.81, Changes Clause. Costs associated with the facility maintenance and/or repairs which are consistent with current usage will be from the Contractor’s facility maintenance program (PBS-14).

The Contractor shall operate and maintain utility systems for the INTEC area as described in Exhibit C.14-5, ICP Utility Systems. Utility services must provide adequate building protection including, but not limited to, fire protection (the INL contractor provides the site-wide Fire Department, but the Contractor must maintain fire protection within INTEC area), alarm systems, nuclear safety, and Life Safety Code requirements, specified in National Fire Protection Association 101. The Contractor shall notify the Contracting Officer (CO) in writing 30 days prior to the termination of any utility service. The Contractor shall also adhere to Section C.14.7, Utility/Infrastructure Services.
DOE is committed to resources conservation and pollution prevention. The Contractor shall develop yearly energy and water conservation goals that reflect reductions in energy and water consumption at INTEC.

C.14.3.2 CALCINE BIN MAINTENANCE (ID-0014B.O2)

The Contractor shall maintain calcine bin sets and RCRA storage permits for bin sets through the contract period.

C.14.3.4 MFC D&D (ID-0014B.05)

The Contractor shall continue with the current lease of trailers, including the necessary maintenance, through March 31, 2016. The Contractor shall continue to maintain utilities and power through service agreement with BEA.

The Contractor shall provide RCRA required surveillance and maintenance of MFC 766, 767.

The Contractor shall perform the following D&D scope for the six month contract extension:

- The Contractor shall complete demolition of MFC-766
- The Contractor shall complete RCRA closure activities and documentation including DEQ approval for MFC-766
- The Contractor shall initiate demolition of MFC-767 that can be safely completed within the six month contract extension.

C.14.3.5 TANK FARM CLOSURE (ID-0014B.O4)

C.14.3.5.1 TANK FARM RCRA/DOE O 435.1/NDAA 3116 CLOSURE (ID-0014B.O4)

There are four remaining 300,000 gallon tanks that require cleaning and closure under this process. The Contractor shall maintain capabilities to clean the four remaining tanks following the same process utilized for the previous seven 300,000 gallon tanks. The Contractor shall initiate these activities in coordination with the IWTU SBW processing plan.

C.14.3.5.2 IWTU OPERATIONS/SBW DISPOSITION (ID-0014B.O1)

The Contractor shall complete commissioning of the IWTU and commence processing of the liquid sodium bearing waste before
September 30, 2016 as required by the fifth modification to the Notice of Noncompliance Consent Order.

C.14.3.6 RCRA PART B PERMIT (ID-0014B.O2)

DOE-ID submitted the RCRA Part B Permit application for calcine retrieval, treatment and packaging in November 2012. The Contractor shall provide technical support in addressing the State of Idaho DEQ comments regarding the Part B permit regulatory evaluation process leading to approval of the permit. The Contractor shall continue evaluation of calcine retrieval. The Contractor shall provide support, as requested, to the DOE Calcine Disposition Project Independent Alternatives Assessment.

C.14.4 CERCLA REMEDIATION (PBS ID-0030)

The Contractor shall be responsible for compliance with the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) signed Records of Decision (RODs) listed below. The Idaho Site is subdivided into primary areas to be evaluated and remediated under CERCLA. The areas are referred to as Waste Area Groups (WAGs). Each WAG is further subdivided into Operable Units (OU), and each OU contains release sites. The WAG designations are as follows:

- WAG 1 – Test Area North (TAN)
- WAG 2 – Advanced Test Reactor Complex (ATRC)
- WAG 3 – Idaho Nuclear Technology and Engineering Center (INTEC)
- WAG 4 – Central Facilities Area (CFA)
- WAG 5 – Critical Infrastructure Test Range Complex (CITRC), the Auxiliary Reactor Area (ARA) and Power Burst Facility (PBF)
- WAG 6 – Experimental Breeder Reactor (EBR) I and Boiling Water Reactor Experiment (BORAX)
- WAG 7 – Radioactive Waste Management Complex (RWMC)
- WAG 9 – Material and Fuels Complex (MFC)
- WAG 10 – Balance of Site

All approved CERCLA documents can be found in the Administrative Record/Information Repository at ar.inel.gov. The bulk of the evaluation and remediation work has been completed. However, the Contractor will be responsible for final actions, Institutional Controls (IC), monitoring, operations and maintenance, CERCLA Five Year Reviews, and implementation of work that results from the five year reviews, the rebound study for WAG 1, implementation of the New Site Identification process, and maintenance of the Administrative Record website, the Environmental Data Warehouse and associated CERCLA LTST tracking systems.
C.14.4.1 OTHER CERCLA NECESSARY INFRASTRUCTURE (ID-0030B.05)

The Contractor shall be responsible for the maintenance of the ICP-assigned buildings/structures at TAN listed below:

- CWSU-1, CERCLA Waste Storage Unit 1
- CWSU-2, CERCLA Waste Storage Unit 2
- TAN-38 Well House
- TAN-39 Well House
- TAN-40 Well House
- TAN-26 Well House
- TAN-1611, Pump and Treatment Facility
- TAN-1614, In Situ Bioremediation Facility
- TAN Air Stripper Treatment Unit (ASTU)
- TAN-1860 Well House
- TAN-1861 Well House
- TAN-1755, TAN Demolition Landfill
- TAN-1756, WRRTF Demolition Landfill

The Contractor is not responsible for the operation and maintenance of the TAN-601 guard house, fire water system, potable water treatment and delivery system, and electrical distribution system to support all BEA and CWI activities within the TAN facility fence. The Contractor is not responsible for the operation and maintenance of the following structures within the TAN fence:

- TAN-601, TAN Guard House
- TAN-605, Substation Control House
- TAN-610, Firewater Pump House
- TAN-612, Deepwell Pump House #1
- TAN-613, Deepwell Pump House #2
- TAN-614, Water Pump House
- TAN-632, Pump House Well #1
- TAN-639, Pump House Well #2
- TAN-664, Automotive Service Attendant
- TAN-665, Water Pump House
- TAN-701, Water Storage Tank
- TAN-712, Propane Storage Tank
- TAN-748, Water Storage Tank
- TAN-1612, Fire Water Pump House
- TAN-1749, Water Tank

The Contractor shall maintain the TAN Demolition Landfill in accordance with the approved Closure Plan DOE/ID-11347.) The Contractor shall also adhere to
Section C.1.10, *Utility/Infrastructure Services* for the maintenance of the utilities and infrastructure associated with the TAN Demolition Landfill as well as the WRRTF Demolition Landfill.

C.14.4.2 IDAHO CERCLA DISPOSAL FACILITY (ICDF) (ID-0030B.05)

The Idaho CERCLA Disposal Facility (ICDF) is an on-site, engineered disposal facility located south of the INTEC fence. It is authorized to accept waste from Idaho Site CERCLA actions, including D&D debris generated under Non-time Critical Removal Actions. The facility was designed to receive, inspect, treat, and dispose of waste from Idaho Site CERCLA activities. The facility includes a landfill disposal cell, two evaporation ponds, and the Staging, Storage, Sizing, and Treatment Facility.

The Contractor shall operate the ICDF facility in accordance with the approved ICDF Complex Remedial Action Work Plan (DOE/ID-10984), the ICDF Complex Operations and Maintenance Plan (DOE/ID-11000), and the DOE Order 435.1, *Disposal Authorization Statement*. This will include the safe and compliant operations and disposal of CERCLA soil and debris into the landfill or ship offsite, as deemed appropriate, and of CERCLA waste liquids into the evaporation ponds. The Contractor shall maintain the level of liquids in the evaporation ponds at or below compliant levels.

C.14.4.2 CARGO CONTAINERS AND SOILS (ID-0030B.05)

The Contractor shall coordinate with the AMWTP contractor the receipt of retrieval soils and up to the 105 cargo containers (currently located at the AMWTP) to be disposed at ICDF. The containers will be loaded onto trailers, transported to ICDF, placed in the landfill, and filled with cement grout. The contractor should plan for the operation of the ICDF to support receipt of up to 15 cargo containers and 150 soil sacks during the first quarter of FY2016.

C.14.4.3 WAG 1 TAN GROUNDWATER REMEDIATION (ID-0030B.05)

The Contractor shall perform implementation of the Technical Support Facility Injection Well (TSF-05) ROD for WAG 1, OU 1-07B and associated ROD Amendment.

The Contractor shall operate and maintain the TAN groundwater remedial action to ensure remedial action objectives are obtained in accordance with the applicable Remedial Action Work Plan(s). This includes the operation of the Pump-and-Treat system used in the medial zone to treat volatile organic compounds (VOCs) to meet Remedial Action Objectives (RAO); the continuous monitoring of natural attenuation in the Monitored Natural Attenuation (MNA)
portion of the plume to ensure RAOs will be achieved and the conduct of the rebound test. The Agencies have concluded that two additional wells are needed to address the trichloroethene (TCE) source affecting TAN-28. The Contractor will revise the ISB Rebound Test Plan and associated documents to address any changes that are needed to support continued ISB injections and any other necessary changes once the wells are in place.

The Contractor shall plan, conduct, and document groundwater monitoring in accordance with approved OU 1-07b monitoring plan(s). Modifications to the monitoring plans may be required and are included in the scope.

The Contractor shall conduct Operations and Maintenance activities in accordance with the OU 1-07B Remedial Design/Remedial Action Work Plan Operations and Maintenance Plan(s).

The Contractor shall complete required periodic reports in accordance with the OU 1-07B Remedial Design/Remedial Action Work Plan(s), Rebound Test Plan, groundwater monitoring plan(s), and operations and maintenance plan(s).

C.14.4.4 WAG 3 CERCLA REMEDIATION

C.14.4.4.1 INTEC CERCLA REMEDIATION (ID-0030B.05)

The Contractor shall continue implementation of the RODs for WAG 3, OU 3-13 and 3-14, to ensure RAOs are obtained. The only remaining portion of the OU 3-13 ROD is the Group 2, Contaminated Soils under Buildings.

The Contractor shall conduct the ground water monitoring and reporting and take action to reduce anthropogenic water losses and recharge to the INTEC northern perched water zone in accordance with the OU 3-14 Remedial Design/Remedial Action Work Plan (DOE/ID-11333) and the Remedial Design/Remedial Action Work Plan Long-Term Monitoring Plan (DOE-ID-11334).

The Contractor shall conduct Operations and Maintenance activities including periodic reporting in accordance with the OU 3-14 Remedial Design/Remedial Action Work Plan Operations and Maintenance Plan (DOE/ID-11337).

The ICDF, discussed in Section C.14.4.2, is an element of WAG 3.
C.14.4.5 BURIED WASTE (ID-0030B.02)

The Contractor shall continue implementation of OU 7-13/14 ROD and Agreement to Implement Court Order, dated May 25, 2006.

C.14.4.5.1 EXHUMATION OF BURIED WASTE (ID-0030B.02)

The Contractor shall continue with the exhumation of targeted buried waste in ARP VIII in accordance with current Phase I Remedial Design/Remedial Action Work Plan for Operable Unit 7-13/14.

The Contractor shall maintain existing ARP structures, including the ARP IX foundation and design. The contractor shall support finalization and approval of the ARP IX fire exemption request.

C.14.4.5.2 CHARACTERIZATION AND DISPOSAL OF BURIED WASTE (ID-0030B.03)

The Contractor shall support completion of characterization and certification of exhumed CH-TRU waste by packaging and delivering the waste to the AMWTP contractor. The AMWTP contractor is responsible to provide all waste characterization and certification services including Acceptable Knowledge document revisions activities to the Contractor, including visual examination and to provide all waste handling and storage for ICP waste from the time that it is transferred to AMWTP for characterization until it is dispositioned to WIPP unless it is returned to the Contractor for rework. The services described above are provided by DOE-ID under a separate contract with Idaho Technology Group, LLDC (ITG) as a Government Furnished Service and Item (GFSI) and these services will be provided to the Contractor at no cost to the Contractor. The Contractor shall provide waste from SDA storage locations to AMWTP as jointly coordinated for preparation for shipment to WIPP.

All non-CH-TRU waste generated from exhumation will be dispositioned for treatment and disposal off the INL Site after sufficient characterization and waste-stream volume quantities accumulate for economical shipping and treatment.

The Contractor shall identify to DOE any previously generated ICP-1, 2, and 3, waste that will be transferred to the ICP Core contractor as a result of WIPP's closure.

C.14.4.5.3 REMAINDER OF OU 7-13/14 WORK (ID-0030B.05)

The Contractor shall continue implementation of the OU 7-13/14 ROD
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(DOE/ID-11359) of WAG 7, including required remediation actions, in accordance with current work plans.

The Contractor shall perform groundwater monitoring and Operations and Maintenance (O&M) of the monitoring wells.

The Contractor shall dispose of all waste generated by remedial actions at appropriate on-site and off-site locations.

The Contractor shall maintain the functions of the existing vacuum vapor extraction system to remove organic contaminants from the vadose zone (OCVZ).

C.14.4.6 WAG 10 BALANCE OF SITE REMEDIATION (ID-0030B.05)

The Contractor shall implement the WAG 10-08 ROD, and long-term management and control of INL institutionally controlled sites to ensure RAOs are obtained. The Contractor shall maintain Institutional Controls and Operations and Maintenance (IC & O&M) (DOE/ID-11042) through March 31, 2016.

C.14.4.6.1 WAG 10 BALANCE OF SITE REMEDIATION MAINTENANCE (ID-0030B.05)

The Contractor shall maintain the long-term management and controls program to integrate common tasks throughout the ICP including the Administrative Record website, databases, interfaces, site planning, and scope necessary to ensure that RAOs will be met.

The Contractor shall maintain CERCLA ICs and O&M for WAGs 1, 2, 3, 4, 5, 6, 7, 9, and 10 and ICDF in accordance with the Site-wide Institutional Controls and Operations and Maintenance Plan (DOE/ID-11042). In addition, the Contractor shall plan, conduct, and document groundwater, perched water, vapor gas, and soil moisture monitoring for WAGs 1, 2, 3, 4, 7, and 10 and ICDF in accordance with approved WAG specific monitoring plans. The Contractor shall maintain the current CERCLA well monitoring network. Drilling of new wells and abandonment of existing wells are not included in the scope and will be negotiated as new tasks pursuant to Section I.81, Changes Clause.

The Contractor shall complete the 5-year Review Report including addressing and resolving all questions and comments submitted by the Regulatory Agencies to support a final submittal to the Agencies by December 24, 2015.
The Contractor shall manage the INL Site new sites process. The Contractor shall complete the New Site Identification Form (NSID), Part A for all currently known (as of 9/30/2015) INL potential new sites by December 31, 2015, and shall complete the NSID Part A for all newly identified potential sites within 90-days of identification (defined as notification of the Agencies). The Contractor shall consult with DOE concerning any site with a Part A, Section 4B positive (yes or no) determination. New scope to complete FSPs or Part Bs may be added to the contract based on that consultation pursuant to Section I.81, Changes Clause.

The Contractor shall prepare and submit to the Agencies Field Sampling Plan (FSP) for the following new sites:

- TRA-82, Hot ant nest and soil contamination associated with the warm waste line
- TRA-61, Gamma Building (TRA-641) warm waste line to the catch tank vaults (TRA-630)

The Contractor may be asked to address additional new sites found in the future anywhere on the INL Site pursuant to Section I.81, Changes Clause and in compliance with the OU 10-08 ROD.

The remediation strategy for new sites will be negotiated at the 5-year review scheduled to be completed with resolution to agency comments in December 2015. Section I.81, Changes Clause may be used to commence a remediation of a new site.

C.14.5 FIRE PROTECTION ACTIVITIES

The Contractor shall conduct a comprehensive assessment of the existing firewater supply and distribution systems at RWMC (to include AMWTP) and INTEC to determine the extent of their estimated remaining useful life for providing reliable and adequate water supply and distribution for fire suppression, as required by DOE Order 420.1B and National Fire Protection Association codes and standards.

Additionally, the Contractor shall conduct a comprehensive assessment of the existing building Emergency Communications Systems, fire alarm systems and components to determine the extent of their remaining useful life for providing reliable fire alarm signaling and occupant notification, as required by DOE Order 420.1B and National Fire Protection Association codes and standards.
Based on the results of these analyses, CWI shall provide recommendations for corrective maintenance and system upgrades as appropriate, including rough order of magnitude estimates for cost and schedule.

The Advanced Mixed Waste Treatment Project (AMWTP) Contractor will be conducting a similar assessment for firewater distribution system components at the AMWTP. As necessary, CWI shall support the AMWTP Contractor’s assessment of the firewater distribution system components that are not under the purview of CWI.

C.14.6 OTHER CONTRACTOR SUPPORT TO DOE (FY2016 SCOPE OF WORK)

1. Developer Support/Wireless Service: Provide CWI software developer support and wireless service administrative support to DOE-ID. The software developer support involves providing the services of four Information Technology (IT) software engineers on a full time basis. The wireless service administrative support involves CWI and subcontracted labor, payment of monthly service charges, etc. from the wireless service provider, and miscellaneous material costs.

2. Records Management Support: Provide CWI records storage services to DOE-ID at the INL Site Record Center (ISRC), which encompasses the receipt, storage, management, retrieval, and disposition of DOE-ID records sent or currently housed at the ISRC. Provide CWI trained personnel who perform records management services, consulting services and other support as directed by DOE-ID.

3. Copier Services: Provide convenience copiers services to DOE-ID. Maintenance and service is provided through a service subcontract administered by CWI. Maintenance and service cost are based strictly on usage. CWI monthly administrative support (buying paper, ordering new equipment-three copiers per year, providing billing and usage reports) is also provided. Paper and new equipment is bought directly via DOE-ID funding/charge number.

4. Printing/Graphic Artist Services: Provide CWI graphic artist services to DOE-ID.

5. DOE Office Move Support: Provide office move services to DOE-ID as requested.

6. Portable Toilet Services at CFA: Provide one rented portable toilet and associated servicing at CFA.

7. DOE Training Support: Provide CWI training support to DOE-ID.

8. The Contractor shall maintain office space for 10 federal employees in the DOE building WMF-658 through 2016.
C.14.7 UTILITY/INFRASTRUCTURE SERVICES

The contractor shall ensure appropriate utility services are provided for all EM facilities commensurate with the mission need, condition of the facility and the planned schedule for demolition. Utility systems for the EM-owned facilities are summarized in Exhibit C.14-5 ICP Utilities.

Utility services must provide adequate building protection including, but not limited to, fire protection, alarm systems, nuclear safety, and Life Safety Code requirements, specified in National Fire Protection Association 101, prior to demolition. The contractor shall notify the CO in writing 30 days before terminating any utility service to an occupied facility. If the CO determines that the 30-day notification does not allow sufficient time to relocate all occupants, the CO will specify a longer time period in writing to the contractor. In no case shall that time period exceed six months from the date of the initial notification. Relevant infrastructure interfaces are identified in the descriptions of each geographic area in Section C.14.

Site Services (Exhibit C. 14-6) will be provided by the INL. The ICP contractor shall have a formal interface agreement in place with the INL contractor describing how the services list in Exhibit C.14-6 will be managed.

Until such time as they are no longer needed for the EM mission, the contractor shall maintain EM facilities, systems or structures located outside the INTEC fence that are connected to or considered to be part of INTEC operations. Examples include, but are not limited to, the new Percolation Ponds, Potable Water System and the ICDF. The contractor shall maintain perimeter roads that are integral to EM activities at INTEC, RWMC and TAN.

If the existing railroad system within an EM facility area is needed, the contractor shall maintain it in accordance with the same consensus standards specified by the INL contractor for rail lines outside EM-owned facility areas. Any site railroad system upgrades, whether inside or outside EM-owned facility areas, that are needed solely to support the EM mission are the responsibility of the ICP contractor.

For INTEC, RWMC and the EM-controlled portions of TAN (excluding the Specific Manufacturing Capability facilities), the contractor is responsible for general site maintenance to include, but not limited to, grass mowing, weed control, housekeeping, pest control and snow removal as appropriate. The contractor is also responsible for custodial services including, but not limited to, sanitation services, trash removal, recycling, cleaning of restrooms and drinking fountains, standard sanitation supplies in restrooms, and floor maintenance.

C.14-8 SAFEGUARDS, SECURITY AND COUNTERINTELLIGENCE
The contractor shall establish and maintain a security plan, as required by DOE directives, and coordinate regularly with the INL contractor to ensure appropriate levels of protection against: unauthorized access, theft, diversion, or loss of custody of nuclear materials; espionage; loss or theft of classified information or Government property; and hostile acts that may cause unacceptable adverse impacts on national security or the health and safety of DOE and contractor employees, the public, and the environment.

The contractor shall provide cogent and accurate input, as needed, to the INL contractor for applicable elements of the Site Safeguards and Security Plan and participate in safeguards and security drills and exercises as required by DOE directives.

The contractor shall promptly prepare and submit applications for security clearances, for adjudication by DOE-ID, as required for work under this contract. The contractor shall maintain the security-facilities infrastructure at RWMC and INTEC, including CPP-1674 that houses the site-wide Central Alarm Station. The contractor shall promptly adjust to the Security Condition determined by DOE. The contractor shall provide a Cyber Security Program to maintain ICP automated information systems, test systems and network interface; provide training; identify threats and vulnerabilities; assess risks to the systems; and oversee cleanup subcontractor computer security programs.

The contractor shall develop and maintain Nuclear Materials Control and Accountability Program, an Operations Security Program, a Classification Program, an Information Security Program, and a General Security Awareness Training Program as required by DOE directives.

To improve environmental cleanup work efficiency, the contractor shall evaluate and modify or eliminate protected area fences or modify other physical and administrative controls, provided the safeguards and security requirements, specified in federal regulations and DOE Directives, Section J, List of Applicable Directives, are satisfied.

Refer to Exhibit C.14-6, Site Services, for a description of services to be provided to the ICP contractor by the INL contractor, including additional interfaces regarding safeguards and security.

C.14-1 LIST OF EXHIBITS

C.14-1 ICP Assigned Spent Nuclear Fuel (OUO)
C.14-2 EBR-II Spent Nuclear Fuel (OUO)
C.14-3 RH-TRU Waste
C.14-4 INTEC Structures
C.14-5 ICP Utilities
C.14-6 Site Services