

2. AMENDMENT/MODIFICATION NO. 0310	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
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6. ISSUED BY Idaho Operations U.S. Department of Energy Idaho Operations 1955 Fremont Avenue Idaho Falls ID 83415	CODE 00701	7. ADMINISTERED BY (If other than Item 6) Idaho Operations U.S. Department of Energy Idaho Operations 1955 Fremont Avenue MS 1221 Idaho Falls ID 83415	CODE 00701
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8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) BATTELLE ENERGY ALLIANCE, LLC Attn: Dana Storms P.O. BOX 1625 IDAHO FALLS ID 834150001	(x)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	x	10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC07-05ID14517
		10B. DATED (SEE ITEM 13) 11/09/2004
CODE 152020629	FACILITY CODE	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended. is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
See Schedule

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: See Block 14
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not. is required to sign this document and return 1 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
Tax ID Number: 68-0588324
DUNS Number: 152020629
Modification Authority:

FAR 43.103(a)(3), Mutual Agreement of both Parties, Contract Clauses H.36, DEAR 970.1907-1 Small Business Plans "Subcontracting Plan Requirements" and Contract Clause C.3 "Deliverables."

PURPOSE OF THIS MODIFICATION IS TO: Update Section H, Contract Clause H.36, adding paragraph (c); update Introduction Page Part III Section J - Attachment F, delete and RESERVE Attach F-1 "Cost Tables," update Attach F-2 "Memorandum for the Record Between the Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Suzette M. Olson
15B. CONTRACTOR/OFFEROR <i>(Signature of person authorized to sign)</i>	15C. DATE SIGNED
16B. UNITED STATES OF AMERICA Signature on File <i>(Signature of Contracting Officer)</i>	16C. DATE SIGNED 07/23/2014

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
DE-AC07-05ID14517/0310

PAGE OF
2 2

NAME OF OFFEROR OR CONTRACTOR
BATTELLE ENERGY ALLIANCE, LLC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>Pittsburgh Naval Reactors Office and the Idaho Operations Office," update Attach F-3 "Interagency Agreement Between the Idaho Operations Office and the United States Geological Survey, update Attach F-4 "Interagency Agreement Between the Idaho Operations Office and the National Oceanic and Atmospheric Administration," update Attach F-5 "Scope of Work for Contract DE-AC07-00ID13658 Between the S.M. Stoller Corp. and the Idaho Operations Office," update Attach F-8 "Radiological and Environmental Sciences Laboratory," and update Attach F-9 "Memorandum of Understanding Between the Department of Army (DA) and Department of Energy (DOE);" update Part III Section J - Attachment J "Small Business Subcontracting Plan Fiscal Year 2014;" update Part III Section J - Attachment L "Employee Management Program Advanced Understanding," Part 7, "Travel and Relocation" Paragraphs D.1 and D.1(a) with new Temporary Assignments language; update Introduction Page Part III Section J - Attachment M "Other Site Agreements," update Attach M-3 "INL Site Treatment Plan," and update Attach M-6 "Agreement-in-Principle Between the Shoshone-Bannock Tribes and the United States Department of Energy."</p> <p>All other terms and conditions remain unchanged. Payment: OR for Idaho U.S. Department of Energy Oak Ridge Financial Service Center P.O. Box 4368 Oak Ridge TN 37831 Period of Performance: 11/09/2004 to 09/30/2019</p>				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES 1 2
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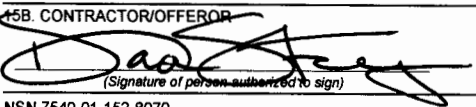
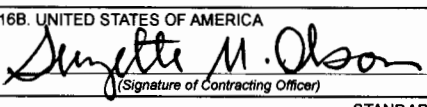
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Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) Dana M. Storms, Manager		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Suzette M. Olson	
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED 07/23/14	16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	16C. DATE SIGNED 7/23/14

The purpose of this modification is to incorporate changes/updates to Part I, Section H, Special Contract Requirements; and Part III Section J, List of Documents, Exhibits and Other Attachments, as follows:

- (1) Contract Clause H.36, adding paragraph (c);
- (2) Part III Section J – Attachment F “Tenant Agreements”
 - a. Introduction, (update);
 - b. Attachment F-1, Cost Tables, (Delete and RESERVE);
 - c. Attachment F-2, Memorandum for the Record Between the Pittsburgh Naval Reactors Office and the Idaho Operations Office, (update);
 - d. Attachment F-3, Interagency Agreement Between the Idaho Operations Office and the United States Geological Survey, (update);
 - e. Attachment F-4, Interagency Agreement Between the Idaho Operations Office and the National Oceanic and Atmospheric Administration, (update);
 - f. Attachment F-5, Scope of Work for Environmental Surveillance, Education, and Research (ESER) Program with S.M. Stoller Corporation and the Idaho Operations Office, (update);
 - g. Attachment F-8, Radiological and Environmental Sciences Laboratory, (update);
 - h. Attachment F-9, Memorandum of Understanding Between Department of Army and Department of Energy, Idaho Operations Office, (update);
- (3) Part III Section J – Attachment J “Small Business Subcontracting Plan, Fiscal Year 2014,” (update);
- (4) Part III Section J – Attachment L “Employee Management Program Advanced Understanding,” dated June 26, 2014, (modify Part 7, “Travel and Relocation” paragraphs D.1 and D.1(a) with new Temporary Assignments language);
- (5) Part III Section J – Attachment M “Other Site Agreements”
 - a. Attachment M-3, “INL Site Treatment Plan, (update);” and
 - b. Attachment M-6, “Agreement in Principle Between the Shoshone-Bannock Tribes and DOE,” dated December 18, 2012, (update).

**Part I Section H
Special Contract Requirements**

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H.36 Legal Management Plan

- (a) The Contractor shall submit a Legal Management Plan in accordance with 10 CFR Part 719, and include the items set forth in 10 CFR 719.10 to the Contracting Officer for approval within sixty (60) days of contract award date.
- (b) The Plan shall describe the Contractor's practices for managing legal costs and matters for which it procures the services of retained legal counsel. Once approved by the Contracting Officer, the Plan, as well as applicable regulations and contract provisions forms the basis for approvals by the Contracting Officer to reimburse litigation and other legal expenses. The Plan may be revised from time to time to conform to legal management rules or policies established by DOE.
- (c) The Legal Management Plan shall be the vehicle for compliance with Clause 1.54, Contractor Purchasing System, for legal cost management and agreements.

Section J, Attachment F-1 – RESERVED

Part III Section J, Attachment F

Tenant Agreements

The INL Contractor shall provide the services and interfaces to all tenants in accordance with the agreement(s)/statement(s) of work included in this section.

Part III Section J Attachment F - Tenant Agreement Hyperlinks	
Section J Attachment F-1	RESERVED
Section J Attachment F-2	Memorandum for the Record Between the Pittsburgh Naval Reactors Office and The Idaho Operations Office
Section J Attachment F-3	Interagency Agreement Between The Idaho Operations Office and the United States Geological Survey
Section J Attachment F-4	Interagency Agreement Between The Idaho Operations Office and the National Oceanic and Atmospheric Administration
Section J Attachment F-5	Scope of Work for Contract DE-AC07-00ID13658 Between the S. M. Stoller Corp. and the Idaho Operations Office
Section J Attachment F-6	Blanket Master Agreement for Services in Support of Battelle Energy Alliance, LLC & CH2M-WG Idaho, LLC Contracts at DOE's Idaho National Laboratory
Section J Attachment F-7	RESERVED
Section J Attachment F-8	Radiological And Environmental Sciences Laboratory
Section J Attachment F-9	Memorandum of Understanding Between the Department of Army (DA) and Department of Energy (DOE)

**ADDENDUM 4 to the
MEMORANDUM FOR THE RECORD
between
THE IDAHO OPERATIONS OFFICE
and
THE NAVAL REACTORS LABORATORY FIELD OFFICE
(Formerly the Pittsburgh Naval Reactors Office)**

1. BACKGROUND

1.1. The subject Memorandum for the Record (MFR) documents the relationships and agreements between the Naval Reactors Laboratory Field Office (NRLFO) and the U.S. Department of Energy's Idaho Operations Office (DOE-ID), collectively the "Parties," with respect to the Naval Reactors Facility (NRF) located on the Idaho National Laboratory (INL). Addenda 1, 2, and 3 to the MFR provide detailed information for coordination of environmental and Freedom of Information Act affairs.

2. PURPOSE AND SCOPE

2.1. The purposes of this Addendum are to (a) clarify the meaning of the "administratively controlled area" (ACA) currently occupied by NRF; (b) identify the boundaries of the ACA; and (c) describe, in general terms, coordination of non-routine activities in the ACA by DOE-ID or its contractors.

2.2. This Addendum is not intended to change the established programmatic responsibilities of the Parties, but rather, to memorialize the relationships and understandings currently in effect by prior agreement and/or practice.

3. AGREEMENT

The Parties agree that:

3.1. Definition of ACA

3.1.1. "ACA" means the approximately 4371 acres occupied by NRF for use in support of the Naval Nuclear Propulsion Program.

3.2. Boundaries of the ACA

3.2.1. The boundaries of the ACA are described as follows:

Sections 19, 20, and 30 of Township 4 North, Range 30 East of the Boise Meridian, Idaho.

The Northwest portion of Section 29 of Township 4 North, Range 30 East of the Boise Meridian, Idaho, beginning 100 feet Northwest of the centerline of Lincoln Boulevard.

Portions of Sections 8, 9, 16, 17, and 18 of Township 4 North, Range 30 East of the Boise Meridian, Idaho, beginning 1776.11 feet bearing S 89° 27' 29" E from the South center of Section 18, then bearing

8004.13 feet at N 24° 35' 33" E, then bearing 4450.00 feet at S 89° 24' 27" E, then bearing 8000.00 feet at S 24° 35' 33" W.

A portion of Section 31 of Township 4 North, Range 30 East of the Boise Meridian, Idaho, beginning 776.68 feet bearing N 89° 29' 33" W from the northeast corner of Section 31, then bearing 646.00 feet at S 00° 00' 02" E, then bearing 1861.44 feet at N 89° 29' 33" W, then bearing 761.26 feet at N 00° 30' 27" E.


Sections 24 and 25 of Township 4 North, Range 29 East of the Boise Meridian, Idaho.

- 3.2.2. The boundaries of the ACA are more particularly described by Drawing No. "NRF," which was certified by John P. Barnes of MK-Ferguson of Idaho Company, a prior DOE-ID contractor, on December 17, 1991. Drawing No. NRF is attached as Exhibit 1.

3.3. Notification and Coordination

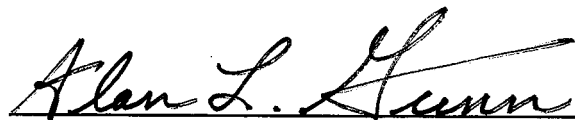
- 3.3.1. Close coordination and good faith are necessary to effectively carry out the activities covered by the MFR and subsequent Addenda.
- 3.3.2. Before DOE-ID or its contractors enter the ACA to perform non-routine activities not authorized by prior oral or written agreement, DOE-ID or its contractors will notify and obtain approval from the Idaho Branch Office of NRLFO or cognizant NRF contractor representatives at NRF.
- 3.3.3. Before either Party or its contractors make a third-party agreement or change its facilities, operations, or procedures in a manner which would significantly affect the other Party, it will first coordinate with the other Party.

Approved:



ELIZABETH D. SELLERS
Manager, Idaho Operations Office
U.S. Department of Energy

Date 1/12/09



ALAN L. GUNN
Field Representative
Naval Nuclear Propulsion Program
Manager, Finance and Administration
Idaho Branch Office
Naval Reactors Laboratory Field Office

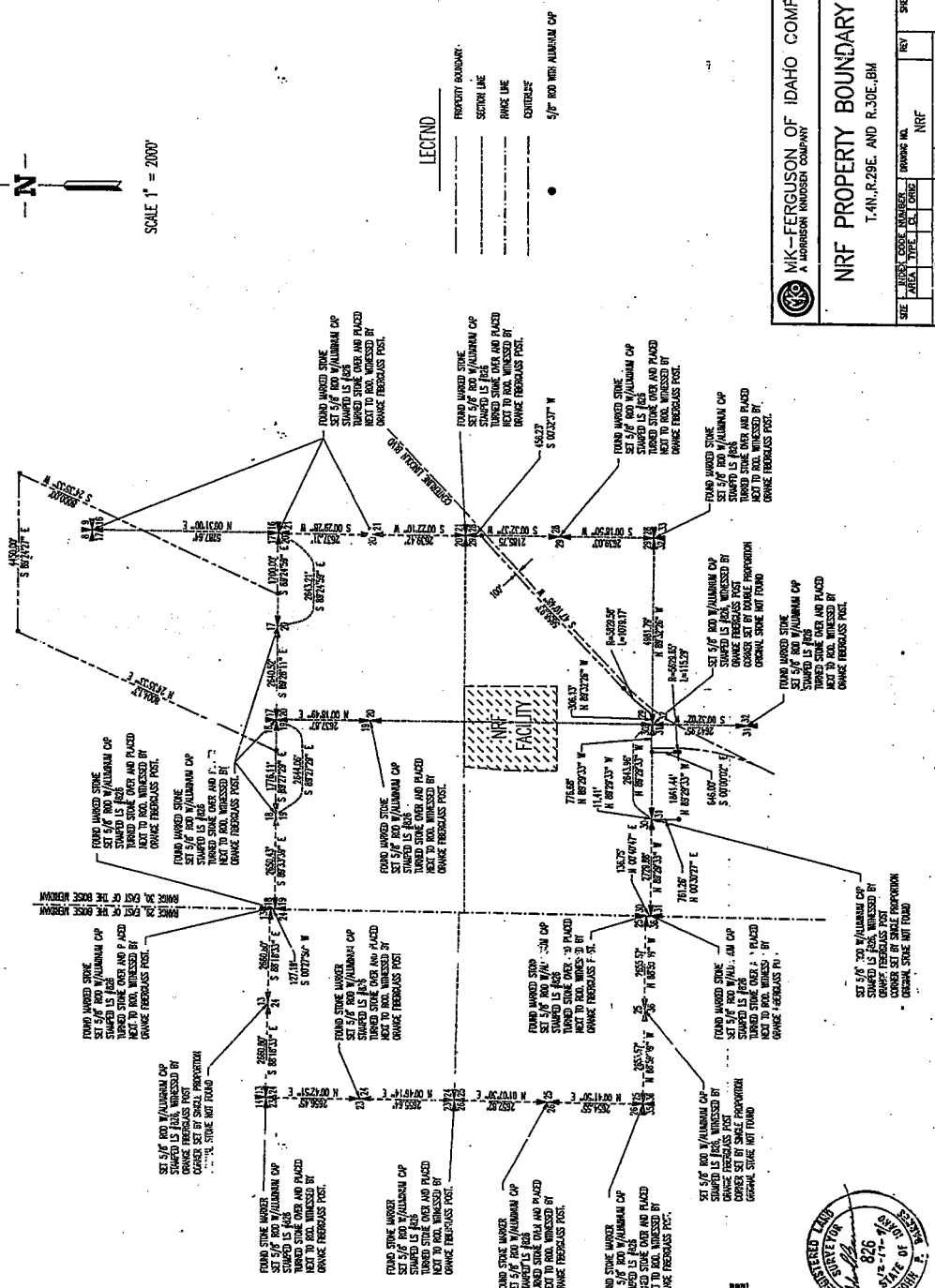
Date 1/15/09

IDAHO NATIONAL ENGINEERING LABORATORY NAVAL REACTORS FACILITY PROPERTY BOUNDARY TOWNSHIP 4 NORTH, RANGE 20 AND 30 EAST OF THE BOISE MERIDIAN, IDAHO



SCALE 1" = 2000'

BASIS OF BEARING
IDAHO STATE PLANE COORDINATE SYSTEM
NORTH AMERICAN DATUM OF 1927
MONUMENTS AEC AND STATE



LEGEND

---	PROPERTY BOUNDARY
---	SECTION LINE
---	RANGE LINE
---	COUNTIES
●	5/8" ROD WITH ALUMINUM CAP

MK-FERGUSON OF IDAHO COMPANY
A GEORGIN INSIGN COMPANY

NRF PROPERTY BOUNDARY
T-4N, R-20E, AND R-30E, 1B4

DATE	AREA	CODE	NUMBER	DRAWING NO.	REV	SHEET NO.
						1

SCALE 1" = 2000' SHEET NO. 1

SURVEYOR CERTIFICATE
I, JOHN P. BARNES, A REGISTERED LAND SURVEYOR
IN THE STATE OF IDAHO, DO HEREBY CERTIFY THAT THIS
SURVEY TO BE MADE AND CERTIFY THAT IT IS
TRUE AND ACCURATE.



Section J, Attachment F-3 – Statement of Work FY 2013 – 2017 USGS Interagency Agreement

1. Background

The Eastern Snake River Plain (ESRP) aquifer of Southeastern Idaho, a part of which underlies the Idaho National Laboratory (INL) Site is an important resource to both the State of Idaho and the U.S. Department of Energy (DOE). The entire water supply for the INL (including drinking water) is obtained from the aquifer. At the INL, the aquifer is part of an extensive geohydrologic system that also includes a thick, overlying unsaturated zone, perched groundwater zones, and intermittent streams, playas, and water-diversion areas.

Some parts of the ESRP aquifer, unsaturated zone, and perched groundwater zones contain low-level radioactive- and chemical-aqueous wastes generated by activities at the INL. From 1952 to the present, aqueous wastes were either injected directly into the aquifer through disposal wells, or were discharged to infiltration ponds. Ponded wastewater infiltrates the soil and underlying rock units and eventually percolates downward to the aquifer. Perched groundwater zones have formed in places where the downward movement of wastewater is impeded because of a decrease in vertical hydraulic conductivity. As wastewater reaches the aquifer, it moves downgradient toward the southern boundary of the INL Site.

Because of continuing concern about water pollution and data needs derived from the INL Groundwater Monitoring Plan and the Idaho Completion Project, the U.S. Geological Survey (USGS) has designed and implemented an extensive geohydrologic, hydraulic, chemical, and radiochemical data collection network under previous inter-agency agreements (IAAs) with the Department of Energy, Idaho Operations Office (DOE-ID). The USGS has been providing support to DOE-ID and its predecessor agencies since the land area now known as the INL Site was first used for nuclear research.

2. Request for Proposal

The USGS has extensive knowledge and capabilities associated with their long-term work at the INL Site. DOE-ID desires to maintain the long standing relationship with USGS and continue to utilize the knowledge and capabilities of the USGS by establishing a five (5) year IAA. Work under the IAA will be negotiated annually for each fiscal year based on DOE-ID technical needs for subsurface characterization related to contaminant transport, facility siting and impact determinations, and natural hazard phenomenon determinations as well as available funding in the following areas:

2.1. Geohydrologic Studies and Monitoring

Horizontal and vertical migration of solutes in the subsurface, and the resultant dispersion, dilution, sorption, and radioactive decay are a result of complex physical and chemical processes that need to be evaluated by continual water quality monitoring. Similarly, stresses on the geohydrologic system must be evaluated and monitored to describe the variation in processes and to estimate the sensitivity of waste migration and water availability to natural conditions.

Work in this area may include:

- Amount and timing of potential recharge to the aquifer from the infiltration of stream flow
- Geologic framework of the ESRP aquifer
- Hydraulic characteristics of the aquifer
- Geochemical processes

2.1.1. Hydrologic Monitoring

Design and perform hydrologic monitoring that supports DOE-ID environmental surveillance needs and understanding of groundwater contaminant and water level changes. Monitor surface streams to understand potential impacts to INL Site Facilities and groundwater characteristics. Data collected from hydrologic monitoring activities are added to the USGS NWIS database.

2.1.2. Geologic Framework

Refine the USGS geologic framework understanding of the INL Site to support DOE-ID. The USGS should consider, but not be limited to, the following areas to support DOE-ID's needs:

- Paleomagnetic Characterization of Basalt Stratigraphy
- Petrologic and Geochemical Characterization of Basalt Stratigraphy
- Basalt Radiometric Dating

2.1.3. Subsurface Visualization

Refine the 3-D model of the INL Site hydrogeologic framework by adding new data as it becomes available. Develop presentations or other means that the subsurface visualization can be used to communicate the hydrogeologic conditions related to contaminant transport, facility siting and impact determinations, and natural hazard phenomenon of the INL Site to DOE-ID stakeholders.

2.1.4. Hydrochemistry

Continue sufficient studies and investigations in hydrochemistry as necessary to ensure understanding of impacts to and from the INL Site including early detection of potential for wastes moving past the INL Site boundary.

2.1.4.1. Geochemical Modeling

Investigate the natural geochemistry of the INL Site in order to ensure the understanding of the fate and transport of wastes in the aquifer including the interaction of natural and man-caused processes and their impact on waste migration. This includes the geochemistry and geochemical evolution of source water (recharge) to the aquifer at the INL that includes infiltrating surface water and irrigation return flows, groundwater from tributary valleys and the northeast, industrial waste discharges, and geothermal water.

2.1.4.2. Vertical Water-Quality Sampling

Increase understanding of the vertical distribution of constituents in the ESRP aquifer with multilevel monitoring systems (MLMS) to acquire water-chemistry data. Continue to sample the existing MLMS and determine the benefit of installing additional MLMS systems.

2.1.5. Hydraulic Properties

2.1.5.1. Unsaturated Zone

Quantify subsurface water flow and contaminant transport in the unsaturated zone at the INL Site. Continued development of large-scale simulations of water and contaminant transport and correlations between perched well water levels, weather, and fluctuating inputs at the land surface to assess their sensitivity to preferential-flow behaviors. Consider further development of the source-responsive model that demonstrates that a simple approach can be applied to quantify the effects of preferential flow at the INTEC.

2.1.5.2. Saturated Zone

Better define the geologic layers and hydraulic properties used to validate the groundwater-flow models by increasing understanding of the vertical movement of water and contaminants in the aquifer using the data collected from MLMS.

2.1.6. Groundwater Flow and Contaminant Transport Models

Work is needed to continue the comprehensive long-range study to improve the groundwater flow and advective transport model published in 2010 (available at: <http://pubs.usgs.gov/sir/2010/5123/>) and the solute-transport model that was constructed in the early 1970s (see bibliography: http://id.water.usgs.gov/projects/INL/INL_Bibliography.pdf).

A 50-plus year history of waste disposal associated with nuclear-reactor research and nuclear-fuel processing at the INL has left measurable concentrations of radioactive and chemical contaminants in the ESRP aquifer. A thorough understanding of the movement and fate of these contaminants in the subsurface is needed by the DOE and the state of Idaho to minimize health and safety risks and to plan effectively for remediation should this become necessary. To achieve this goal, the groundwater flow and contaminant transport models are being used to determine the long-term risks associated with contaminants that are present in the aquifer today or might be present in the future from additional, slow releases of residual contamination present in the unsaturated zone. The models will also be used to determine the risks to the aquifer associated with the selection of sites and operation of future nuclear research facilities.

2.1.6.1. Present Groundwater Flow And Contaminant Transport Models

Continue validation of the conceptual model that identifies the important features, processes, and events controlling fluid flow and contaminant movement in the aquifer. The model should also consider water availability predictions at the INL Site and potential for use in natural phenomena determinations as well as providing qualitative description of how water and contaminants move through the aquifer.

2.2. Site Support Services

The USGS provides on-call video- and geophysical-logging services to DOE contractors and core-sampling and analysis support to contractor personnel and local and national researchers.

2.2.1. Borehole Logging

Provides on-call video and geophysical logging services to support borehole construction, borehole instrumentation, well-maintenance, unsaturated- and saturated-zone monitoring, and interpretative studies to characterize the geologic and hydrologic controls on water movement in the unsaturated-zone and the ESRP aquifer beneath the INL Site. During drilling operations at the INL Site, these services are available on a 24- hour, 7-day-per-week basis. Maintain an inventory of about four borehole video cameras, 12 geophysical logging tools, and two logging vans.

2.2.2. Core Storage Library

Operate the INL Lithologic Core Storage Library and Core Library Annex to provide a centralized area to store, examine, and sample drill core. The Core Storage Library also provides a laboratory with standard rock and sediment processing equipment for use by USGS, DOE, and contractor personnel.

Develop and maintain documentation for each core; the documentation should be appropriate for the purpose for which it was drilled. The following basic information should be documented for every core:

- Location and unique identifier for the well or borehole from which the core was obtained
- Altitude of the land surface at the well or borehole
- Interval cored
- General rock types included in the core
- Parts of a core that have been destructively analyzed
- Record of the types of analyses that have been performed on selected sections of the core
- References to the publication in which analyses are contained when identified.

Continue to enter new core, and consider existing core, using the USGS INL Project Office standardized procedure to digitally catalog core data, to produce lithologic, geophysical, and geochemical logs, and to produce high-resolution core photographs.

2.3. Databases

Maintain the following databases, both locally and nationally, to ensure the integrity and availability of the geophysical-log, water-level, and water-quality data the USGS collects.

2.4. Publications

Prepare hydrogeologic-data and interpretive reports that provide documentation of field conditions at the INL and include groundwater-level measurements, water-quality analyses, streamflow measurements, and other site information needed to document hydrologic conditions. Prepare interpretive reports to describe the geohydrologic conditions at the INL and how those

conditions relate to DOE-ID operations and concerns. Reports should be published by the USGS and provided to the DOE and its contractors; other federal, state, and local agencies; and the general public. The data and interpretive reports should provide information that is critical to the long-term management and use of the ESRP aquifer by the INL and the state of Idaho.

2.5. Technical Support and Outreach

As part of the general scope of the Interagency Agreement in support of characterization studies at the INL, the USGS INL Project Office staff should provide technical support to DOE and its contractors and provide outreach to the scientific community and the general public.

2.6. Budget

DOE-ID expects to have \$1.375M to fund the work performed by the USGS through the INL Project Office for FY 2013. Funding for FY 2014 is expected to be at approximately the same level. Funding for FY 2015 – FY 2018 is expected to be no less than \$1.375M. However, the funding for each fiscal year will be based on the negotiated scope of work and the availability of funds.

Section J, Attachment F-4 – NOAA/INL Meteorological Research Partnership Interagency Agreements Statement of Work Calendar Years 2013-2017

This Statement of Work (SOW) describes work to be accomplished in a new 5-year Interagency Agreement (IAG) that will operate under the umbrella of the Memorandum of Agreement (MOA) between DOE-ID and NOAA for the NOAA/INL Meteorological Research Partnership.

The current IAG (DE-AI07-08ID14898) is set to expire in December 2012. This SOW covers the period of January 2013 through December 2017. It is based on recent discussions with DOE-ID and INL contractor Emergency Management personnel, the DOE Meteorological Coordinating Council's 2010 INL Meteorological Program Follow-up Assist Visit report, and the 1989 guidance document entitled "Modernization of the INEL Meteorological Monitoring and Emergency Response Capability: A General Design." The regulatory guidance and DOE orders followed in preparing this SOW include: 1) the Clean Air Act, 2) DOE Order 458.1, 2) DOE Order 151.1C and associated Guides, 3) DOE Guide EH-0173T, 4) ANSI/ANS-3.11 (2005), and other general industry practices and standards.

NOAA's Air Resources Laboratory Field Research Division (ARLFRD) will support the NOAA/INL Meteorological Program through five tasks that are given in bullet form below. These tasks include: 1) management and reporting of the program, 2) operation of the NOAA/INL Mesonet (including data quality assurance), 3) NOAA/INL Mesonet data dissemination, 4) INL weather forecasting and EOC support, and 5) modeling and research in support of INL activities. The task list is not all-inclusive, but provides most of the details for the proposed effort.

Support of the Partnership, based on the aforementioned discussions and documents, requires the annual effort of approximately 6 NOAA full-time equivalents (FTEs). However, this effort is spread over all ARLFRD employees, so specific employees are not matched by name to each of the tasks in this SOW. Instead, the effort has been divided according to the occupational categories required to complete the various tasks. A given task might require the skills mix of several employees. The ARLFRD Director, at his discretion, will assign the work load and ensure the accomplishment of the various tasks. In addition to the labor effort, full support of the Partnership requires additional monies for equipment and supplies.

It is envisioned that the major tasks of this SOW will remain constant during the life of the IAG, but that some subtasks will become obsolete while new subtasks will, of necessity, be created. This process will occur under the direction of the ARLFRD Director, who will adjust manpower loads to maintain the current FTE level of effort in consultation with DOE-ID. Should new requirements arise that are not within this framework, an analysis will be performed to identify the impacts of complying with the new requirements and, if needed based on the results of the analysis, a new level of effort and compensation would be negotiated. As examples, new requirements could include regulatory compliance; creation or modification of existing DOE Orders; and INL Site-specific operational requirements. NOAA and DOE-ID will discuss and negotiate contraction or expansion of the specific scope contained within the five tasks of this IAG and mutually agree to the associated necessary modifications to the level of effort and compensation as appropriate.

TASK LIST

1. Partnership Oversight and Reporting

- Provide planning, management, and oversight of ARLFRD personnel in support of the NOAA/INL Meteorological Research Partnership.
- Maintain and oversee ARLFRD's portion of the NOAA/INL Meteorological Research Partnership budget.
- Prepare and submit quarterly progress reports to designated DOE-ID personnel.
- Ensure that ARLFRD activities comply with all applicable Occupational Safety and Health Administration, U.S. Department of Commerce, and NOAA safety regulations.
- Respond to DOE-ID management requests for meteorological expertise and advice.
- Participate as requested in DOE-ID public outreach programs and meetings.
- Participate as a member of the INL Monitoring and Surveillance Committee, the INL Emergency Management Workgroup, and other appropriate INL environmental and emergency management organizations.
- Respond to recommendations stemming from the 2010 DMCC Meteorological Program Follow-up Assist Visit at INL. ARLFRD will address the recommendations as appropriate, given the limitations imposed by funding and the current size of the ARLFRD staff.

2. NOAA/INL Mesonet Operation

- Operate and maintain the existing 36-station NOAA/INL Mesonet, including radio repeaters and associated meteorological, telemetry, and data recording systems.
- Ensure that the NOAA/INL Mesonet data recovery equals or exceeds the required 90% minimum.
- As part of the NOAA/INL Mesonet, operate and maintain the 6 Idaho Environmental Monitoring Program (IEMP) meteorological towers. Coordinate data collection and dissemination with the other IEMP participants.
- Operate and maintain the NOAA/INL remote sensing systems that provide vertical profiles of wind, temperature, and turbulence above the INL. Currently, this includes a radar wind profiler with radio acoustic sounding system (RASS) and a high-resolution minisodar.
- Operate and maintain the meteorological flux station at Grid 3 for direct measurement of atmospheric turbulence and stability near the surface.
- Provide on/off control at ARLFRD for collocated high-volume air samplers installed and maintained by INL contractor at various NOAA/INL Mesonet towers.
- Acquire appropriate supporting meteorological and nuclear radiation data (without additional cost to DOE-ID) to enhance the NOAA/INL Mesonet database, such as pressurized ionization chamber data from the state of Idaho, the INL contractor, and the Environmental Surveillance, Education, and Research (ESER) Program.
- Archive all NOAA/INL Mesonet data and maintain archive redundancy.
- Establish and periodically contribute to a NOAA/INL Mesonet data archive in the INL EDMS.
- Provide continuous automated quality control of NOAA/INL Mesonet data. In addition, provide timely manual review and quality control of NOAA/INL Mesonet data to ensure compliance with best practices.

- Provide 2-deep quality assurance capability within the ARLFRD staff.
- Perform semiannual calibrations on all meteorological equipment.
- Perform periodic system accuracy calculations as needed.
- Conduct physical and safety audits at tower locations according to the NOAA/INL Mesonet quality assurance plan. Perform maintenance as needed.
- Annually review and update the NOAA/INL Mesonet quality assurance plan and procedures.
- Collect additional meteorological data of interest to INL to enhance forecasting and other efforts, such as weather radar data and images, meteorological satellite images, lightning detection data, fire weather observations, and the NOAA National Centers for Environmental Prediction forecast model numerical and visual output.

3. NOAA/INL Mesonet Data Distribution

- Distribute real-time NOAA/INL Mesonet data to INL clients through various Internet services such as HTTP. This includes observations from the towers and the remote sensors.
- Maintain and improve the browser-based NOAA/INL Mesonet display client as the primary distribution method for Mesonet data.
- Provide training to DOE-ID and contractor personnel on an as-needed basis for the browser-based NOAA/INL Mesonet display client.
- Distribute real-time NOAA/INL Mesonet data to non-INL clients to foster good public relations and to assist with the creation of severe weather watches and warnings. These clients include, but are not limited to, the local National Weather Service Weather Forecast Office in Pocatello, the University of Utah MesoWest, and NOAA's Meteorological Assimilation Data Ingest System (MADIS).
- Maintain the telephone teller system to provide 24/7/365 telephone access to real-time NOAA/INL Mesonet data.
- Provide support during normal working hours for live NOAA/INL Mesonet data telephone requests.
- Provide targeted monthly and annual NOAA/INL Mesonet climatological statistics to DOE-ID, INL, and outside agency personnel.
- In response to one-time requests, provide specialized data sets from archived climatological data to DOE-ID and INL users. If the generation of a specialized data set will require more than 4 man-hours of effort, additional funding will be requested from the requester.
- Provide the climatological data required to develop dose assessments in the annual National Emission Standards for Hazardous Air Pollutants (NESHAP) report.
- Complete a new edition of the INL Climatology incorporating NOAA/INL Mesonet data through 2015.

4. INL Weather Forecasts and EOC Support

- Maintain and improve the current INL forecast system for the three different local climate zones at INL.
- Provide support during normal working hours for specialized INL weather forecast requests, as requested.
- Maintain and improve the NOAA/INL Weather Center web page to provide a central

access point for all INL forecast and data products generated by ARLFRD.

- Issue notices of significant weather events such as thunderstorms, lightning danger, blizzards, and high winds to WCC and other designated INL entities during normal ARLFRD business hours. These notices will also be posted on the NOAA/INL Weather Center web page.
- Provide specialized forecasts to DOE-ID contractors in support of seasonal construction activities and other special needs, as requested.
- Provide an on-call 24/7 emergency response meteorologist to staff the EOC who will operate the INL transport and dispersion model and provide interpretations of the model output, and who will provide weather nowcasts and short-term forecasts.
- Provide 4-person deep meteorological expertise to the EOC emergency response organization.
- Ensure proper operation of EOC computers operated by NOAA personnel.
- Participate in all suggested EOC drills, exercises, and training sessions.
- Provide custom meteorological data sets for EOC drills and exercises when requested.
- Coordinate all EOC plans and activities with the INL emergency management organization.
- Review and update NOAA EOC checklist procedures annually.

5. Modeling and Research in Support of INL Activities

- Operate and update, as appropriate, a mesoscale numerical forecast model to provide high-resolution weather simulations utilizing NOAA/INL Mesonet data for the region around INL.
- Maintain and operate the NOAA EOC HYSPLIT dispersion modeling system to provide emergency dispersion nowcasts based on NOAA/INL Mesonet data and dispersion forecasts based on the simulated winds from the mesoscale model.
- Provide ARLFRD dispersion model training to DOE-ID and contractor personnel on an as-needed basis.
- Provide atmospheric dispersion model output for the annual INL Site Environmental Report.
- When applicable, conduct applied research activities of common interest to NOAA and INL to improve understanding of boundary layer processes. These may include dispersion studies for improved dispersion modeling products or surface flux studies to improve estimates of the contribution of the sagebrush steppe ecosystem to the global CO₂ balance.
- Test, characterize, and evaluate new weather instruments, data loggers, radio transmitters, measurement methods, etc., as appropriate to improve or replace outdated methodologies and instruments.

MANPOWER AND BUDGET

The manpower matrix for the tasks outlined above is shown below. The values in the table represent FTEs or portions thereof. The project will require the skills of a supervisory meteorologist, an administrative officer, meteorologists, computer scientists, and electronic technicians. The total manpower requirement equals 5.85 FTE annually for each year of the agreement.

Task	Supervisory Meteorologist	Administrative Officer	Meteorologist	Computer Scientist	Electronic Technician	Total
1	0.25	0.50	0.05			0.80
2			0.10	0.50	1.40	2.00
3			0.30	0.50		0.80
4			0.65	0.50		1.15
5			0.90	0.20		1.10
Total	0.25	0.50	2.00	1.70	1.40	5.85

All skills categories are comprised entirely of federal employees with the exception of the electronic technician, which is comprised entirely of contract employees. Overhead costs include leave and benefits that apply to federal employee labor at the average rate of 1.57 in FY12. Overhead rates vary from year to year and there has been a slight upward trend. No leave and benefits overhead is applied to contract employees. A general and administrative (G&A) amount is applied to each FTE to cover expenses such as building rent, communications, electricity, office supplies, etc. The cost per FTE is \$14,600 in FY12.

The first calendar year allotment for the CY13-17 IAG is scheduled to be approximately \$1,172,080. Funding increases will occur annually thereafter. Since NOAA is a federal government agency, it must comply with all laws and executive orders pertaining to federal salary increases and inflationary project costs. Therefore, each annual funding increase is anticipated to be identical to the federal salary adjustments provided by Congress or the President. Based upon anticipated Federal salary adjustments of 3.5% to 4.5% per year over the term of this IAG, the annual increase in funding for this IAG will not exceed 4% per year. DOE- ID's annual budget will be an important criterion in determining the annual funding increase. DOE-ID will take necessary steps and use their best efforts to obtain timely funding to meet the commitments under this IAG.

The cost breakdown for CY13 is as follows:

\$ 1,017,987.00 Federal Labor
 \$ 122,820.00 Contract Labor
 \$ 11,850.00 Transportation
 \$ 19,423.00 Leases/Supplies/Materials
 \$ 1,172,080.00 Total

It is understood that requests for large meteorological data sets that require extensive effort to construct, modeling efforts in excess of those described above, or other services that require extensive labor are not included in this statement of work. These costs are to be paid for separately by the requesting agency or group. Extensive effort is considered to involve employee time greater than four hours. However, this limit can be waived or adjusted at the discretion of the local NOAA Director in order to accomplish the spirit and intent of this statement of work.

OTHER DIRECT AND INDIRECT EXPENSES

Activities, services, and supplies in addition to the labor costs listed above are utilized and required by NOAA in support of the IAG. As required by federal regulations, expenses incurred by NOAA for these services will be fully reimbursed by DOE-ID. DOE-ID provides for these services through additional indirect funding. Services and supplies may be purchased from or through the INL contractor or from another commercial source. NOAA will determine each supplier on a case-by-case basis using economic and technical criteria to ensure the Government receives the best value available. In FY12, the support account was funded at \$200,000. This amount is expected to increase at the rate of the increase in the Consumer Price Index (CPI).

NOAA operates 36 meteorological and radio repeater stations in support of the IAG. Land leases and electrical power costs for many of these stations are additional expenses paid for by indirect funding. Twelve of the stations are on the INL. Therefore, NOAA bears no direct or indirect land lease or electricity costs for these stations. Responsibilities for leases and electricity for the stations located offsite are listed in Appendix 1 (by lessee) and Appendix 2 (by location).

Of the remaining 24 stations, land for 9 of the meteorological/repeater stations is leased directly by NOAA through the leasing authority of NOAA Real Estate. Six of these 9 stations are no-cost leases, while three leases require periodic lease payments. Copies of NOAA lease documents are attached in Appendix 3. Electricity to power three of these 9 stations is paid from indirect funding. Copies of electric bills for these three stations are also attached in Appendix 3. Electricity to power the remaining six stations is either paid by the landlord (3), participating partners (e.g., state of Idaho Oversight Program, 2), or it is a solar powered station (1).

Seven additional meteorological station land leases are provided by and maintained through the INL contractor. The rent for these stations is paid from indirect funding. Copies of INL contractor lease documents are attached in Appendix 4. Electricity to power four of these 7 stations is paid from indirect funding. Copies of electric bills for these four stations are also attached in Appendix 4. Electricity to power the remaining three stations is either paid by participating partners (e.g. ESER Program contractor, 2), or it is a solar powered station (1).

DOE-ID maintains an access and license agreement with the City of Idaho Falls for the meteorological station in Idaho Falls (Appendix 5). Electricity for this station is paid by the City. DOE-ID also maintains a no-cost access agreement with the Bureau of Land Management for Cox's Well. Electricity for this station is provided by solar power.

Gonzales-Stoller Surveillance maintains leases for three of the meteorological stations located at middle schools that are part of the Community Monitoring Program and Blue Dome. Electricity for these stations is paid by the host school or by Gonzales-Stoller Surveillance. Documentation for the leases and electricity are on file with Gonzales-Stoller Surveillance.

Land for the remaining four stations is provided by state, federal, or tribal organizations. Electricity for two stations is paid by the landlord; the other two stations are solar powered.

Another cost incurred by NOAA is for a rental vehicle that is used to service the meteorological stations. NOAA leases a GSA utility truck to carry parts, equipment, and personnel to the various meteorological stations. This vehicle is used almost exclusively for support of the IAG.

An Interconnection Service Agreement (ISA) between NOAA and DOE-ID, dated August 11, 2011, specifies that DOE-ID through the INL contractor will provide NOAA with a connection to the Internet (Appendix 6). This connection will assist NOAA in accomplishing the purposes of this statement of work, such as NOAA/INL Mesonet data distribution. In addition, the ISA provides for management of the NOAA firewall by the INL contractor. The ISA further states that “adequate funding has been allocated by (DOE-ID) means of this contract to support the necessary work required for implementation and ongoing maintenance and operation (M&O) supporting the NOAA firewall, remote access/registration, and Internet connectivity.” DOE-ID provides funding to the INL contractor to perform the services identified in the ISA, which are estimated to cost approximately \$15,000 per year. This will be a recurring annual cost for the duration of the IAG and is funded and tracked separately from the other services provided by the INL contractor.

Access to the NOAA building has been managed by the INL contractor for at least 28 years. This service has been provided entirely without cost to NOAA and includes: 1) building key control, 2) after-hours door alarms monitored by WCC, and 3) occasional patrols of the parking lot by INL security. This service helps to secure sensitive NOAA equipment that is critical for the execution of this agreement. Furthermore, this security posture has been approved in regular building security audits and site visits required and provided by the NOAA Office of Security (OSY). This statement of work formalizes and continues NOAA building access as described for the life of the interagency agreement.

Scope of Work for
Contract DE-AC07-00ID13658
Between the S.M.
Stoller Corp. and
the
Idaho Operations Office

Introduction

The Environmental Surveillance, Education, and Research (ESER) Program manages the offsite surveillance program, collecting various environmental samples near the INL. This program is managed by a contractor, currently S.M. Stoller Corporation, under the direct oversight of NE-ID. The samples are analyzed at offsite laboratories, including Idaho State University, thereby maintaining independence from the Management and Operations contractor. A major product of the ESER Program is the Site Environmental Report—published annually in compliance with DOE Order 231.1A. This report summarizes INL environmental monitoring activities and environmental compliance status and includes data from all INL contractors. The ESER program also manages other tasks, including land management support, public environmental education, ecological risk assessment, and ecological/radioecological research. NE-ID expects the M&O and ESER contractors to have a reciprocal relationship for provision of data at minimal or no expense.

All INL ecological and radioecological research is performed and/or managed by the ESER Program, except those projects funded through the Laboratory-Directed Research and Development program or Idaho Completion Project. The ESER Program manages the National Environmental Research Park, which was conveyed upon the INL in 1975. This entails publicizing the availability of the Park, providing standards and requirements to outside entities that perform research at INL, and coordinating research locations and security/access needs. The ESER Program also manages the Protective Cap/Biobarrier Experiment facility at the Experimental Field Station and as such all newly contemplated activities at the Experimental Field Station should be coordinated with the ESER Program contractor.

These tasks, in part, supplement work performed by the M&O contractor and other INL contractors. The ESER Program also depends upon the M&O contractor to provide various unique services needed to perform the aforementioned tasks and the M&O contractor has occasion to directly contract with ESER to perform additional discrete tasks. As such, it is critical that the relationship between the ESER and M&O contractors is positive and cooperative. It is NE-ID's expectation that the M&O contractor will be mindful of the ESER Program's unique roles and responsibilities at the INL and will make every effort to ensure that there is minimal discord and no duplication of effort. The ESER Program should not be viewed as a competitor but rather as a partner in accomplishing INL's missions. To this end, NE-ID expects the INL and ESER contractors to establish an interface agreement that will identify how the two entities will work together, including but not limited to: support/facility services, security and site access requirements, electronic access to INL procedures, field worker notification/plan of the day, and other activities.

The following pages contain the actual scope of work from contract DE-AC07-00ID13658 between DOE and the S. M. Stoller Corporation.

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PART I - THE SCHEDULE

SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

STATEMENT OF WORK

C.1 ENVIRONMENTAL SURVEILLANCE, EDUCATION, AND RESEARCH

1.0 INTRODUCTION

The U.S. Department of Energy, Idaho Operations Office (DOE-ID) is required by DOE Orders to maintain an environmental monitoring program on and around the Idaho National Engineering and Environmental Laboratory (INEEL). Responsibilities under the National Environmental Policy Act and the Resource Conservation and Recovery Act require DOE-ID to characterize the INEEL Site in regard to the existing environmental conditions and environmental contaminants. Land stewardship functions are also required by DOE Orders and as good management practices. Specific functions are to be performed under this Statement of Work by an independent contractor.

The INEEL is located on 890 square miles in the upper Snake River Plain in southeast Idaho. The INEEL is a large, complex, multi-program DOE site. Within the INEEL Site are eight major applied engineering, waste management, and research and development facilities. Activities at the INEEL have covered most parts of the nuclear fuel cycle. Over the past 50 years, 52 nuclear reactors operated. Environmental restoration (cleanup) and interim storage of waste has replaced reactor safety research and nuclear fuel reprocessing. Research into a wide range of fields, including energy efficiency, renewable energy, technology development, and systems engineering, continues to be important at the INEEL.

It is critical that the contractor maintains independence from the DOE-ID and the INEEL Management and Operating (M&O) contractor. The contractor shall provide independent environmental surveillance data and analysis to satisfy the concerns of key stakeholders such as the State of Idaho, the U.S. Environmental Protection Agency, The Shoshone-Bannock Tribes, and the general public in Idaho. The importance of the contractor building and maintaining trust among these stakeholders in evaluating the effect of the INEEL operations on the natural environment within and surrounding the INEEL cannot be overemphasized.

2.0 GENERAL QUALIFICATIONS AND SCOPE

In general, the tasks described in this Statement of Work are environmental surveillance (offsite), ecological support, environmental education, ecological risk assessment, and radioecology and ecology research.

The contractor must maintain an adequately staffed office in southeast Idaho in order to provide ready access to the INEEL site, DOE customers, and other associates who reside in southeast Idaho.

The offsite environmental surveillance program is a well-established program. As such, the sample locations, procedures, sample analyses, reporting, and quality assurance functions are well defined. However, competent and conscientious technicians are required to collect and process the samples, highly accurate and reliable laboratory analyses are needed, and

knowledgeable staff are required to interpret the results for reports and for verification that INEEL processes are operating properly.

DOE-ID requires ecological support on specific tasks related to ongoing site management and cleanup activities. DOE-ID programs such as Waste Management, Environmental Restoration, Spent Nuclear Fuel, High Level Waste, and Infrastructure require special expertise in areas such as environmental regulations, site ecology, and site characterization. The work requires an in-depth knowledge of wildlife management and INEEL ecosystems. The personnel under this contract provide technical advice to DOE-ID on a wide variety of land management issues including revegetation of disturbed areas, wildlife depredation, threatened and endangered species, noxious weeds, wildlife population dynamics, bio-contaminants, and ecosystem management.

DOE also requires the contractor to conduct a public education and outreach program. A person with expertise in this area is required. Ecological risk assessment, another requirement, requires special skills and experience.

The technical tasks below include research that is of a continuing nature or will not be completed before the current contract expires. The contractor may propose innovative or new research to the Contracting Officer's Representative (COR) within the broad guidelines from year to year. Research that stems from this basic Statement of Work will be considered on a case by case basis, as funds are available. Good ecological research requires biological expertise, research management skills, and the ability to get the information published in peer-reviewed journals.

DOE also encourages the development of students in academic disciplines of value to DOE, through education and training of scientists and graduate students in environmental sciences. The contractor will encourage participation of regional universities located in the states of Colorado, Idaho, Montana, Oregon, Utah, Washington, and Wyoming in performing this Statement of Work. Participation of universities within the state of Idaho is to be emphasized.

Research should also further DOE's needs for information and the development of new research tools. Encouragement of interest in environmental science in grade schools and high schools is desirable. Good information dissemination and methods transfer is important and will be aided by reporting of results in technical journals, press releases, presentations, displays, and regular reports.

The work will be divided into five tasks that are aligned with the program funding sources above. The contractor shall maintain an accounting system that tracks the costs in each of the five tasks. This Scope of Work, however, is arranged by general categories of work to be performed. The most important of these is the offsite environmental surveillance program. Support for land management issues, for environmental education, for ecological risk assessment, for radioecology research, and for ecology research are also included.

A summary of major activities in this Statement of Work is presented in Attachment C-B at the end of the Statement of Work.

This Statement of Work may be periodically modified by mutual agreement of the parties to incorporate changes in research needs and annual budget variations.

3.1. OFFSITE ENVIRONMENTAL

The contractor shall conduct an offsite environmental surveillance program. This program shall include collection of samples of air, offsite drinking water, animal tissues, precipitation, milk, wheat, potatoes, lettuce, and soil. Ambient radiation levels shall be measured with thermoluminescent dosimeters. Tissue samples shall be obtained from game animals killed accidentally onsite. The program is described in the Idaho National Engineering and Environmental Laboratory Site Environmental Report for Calendar Year 1997 [DOE/ID-12082 (97)]. Refer to Attachment C-A for web link to this document. Attachment C-C summarizes the program.

3.1.1. Air Sampling. The locations of the air samplers are shown in the INEEL Offsite Environmental Surveillance Program Report: Fourth Quarter 1997 [ESRF-021 (4QT97)], Figure 1, Weekly Air Sampling, and the program is outlined in Appendix A, Table A-1, Summary of the Foundation's Environmental Surveillance Program. Refer to Attachment C-A for web link to this document. Attachment C-B summarizes the program. There are ten offsite air samplers, two replicate samplers, two community monitoring stations, and three onsite air samplers (to provide overlap with the M&O contractor onsite air sampling program).

Air filters shall be changed at each station each week. Air filters shall be analyzed weekly for gross alpha, gross beta, and iodine-131 (charcoal cartridge). The filters from each station shall be composited quarterly and the seventeen composites analyzed for gamma emitting nuclides by gamma spectrometry. All composites shall be weighed with a sensitive balance, before and after use, to determine the weight of suspended particulate on the filter. On a regular rotating schedule, five or six of the composites shall be analyzed for strontium-90 and five or six of the composites analyzed for plutonium-238, plutonium-239/240, and americium-241. Air samples shall be collected and prepared for analysis of tritium in air moisture at four locations, with samples collected one to four times per quarter, depending on the amount of atmospheric moisture present.

The contractor shall operate three high-volume air samplers that collect particles smaller than 10 microns in diameter. The filters shall be run every sixth day and weighed on a special laboratory balance to determine the mass of the particles collected. The payment for some leases and electricity, approximately \$3,000 per year, for the offsite air sampler locations shall be the responsibility of the contractor, which will be reimbursed by the Government.

3.1.2. Precipitation Sampling. Precipitation samples shall be collected and analyzed for tritium weekly, if available, at the Experimental Field Station, monthly at the Central Facilities Area and in Idaho Falls.

3.1.3. Water Sampling. Fourteen drinking water samples and five surface water samples shall be collected semiannually at the offsite locations listed in Appendix A, Table A-1, Summary of the Foundation's Environmental Surveillance Program of ESRF-021 (4QT97). The samples shall be analyzed for gross alpha, gross beta, and tritium.

3.1.4. Animal Sampling. Six sheep, four that have spent time grazing on the INEEL site and two control sheep, shall have liver and muscle tissues analyzed for gamma-emitting nuclides and thyroids analyzed for iodine-131 each year. Any big game animals accidentally killed on INEEL roads will be similarly sampled.

3.1.5. Food Sampling. The contractor shall obtain milk samples from a local milk supplier once each week. The samples shall be analyzed for iodine-131. The contractor shall also collect eight other milk samples monthly from commercial dairies and single-family cows. Locations are listed in Appendix A, Table A-1, Summary of the Foundation's Environmental Surveillance Program, of ESRF-021 (4QT97). The samples shall be analyzed for iodine-131. One sample from each location shall be analyzed each year for strontium-90 and one sample from each location for tritium. Some analysis for iodine-129 in late summer or early fall is highly desirable.

The contractor shall obtain samples annually of potatoes (5), wheat (11), and lettuce (9) each year from the locations shown in Appendix A, Table A-1, Summary of the Foundation's Environmental Surveillance Program, of ESRF-021 (4QT97). The samples shall be analyzed for gamma-emitting nuclides and strontium-90.

3.1.6. Soil Sampling. The contractor shall collect soil samples from each of twelve locations once every two years. The samples shall be collected in calendar year 2000. The samples shall be collected with the same procedure used in previous years to maintain consistency of the data. The samples shall be analyzed for gamma-emitting nuclides, strontium-90, plutonium-238, plutonium-239/240, and americium-241. Samples for gamma-emitting nuclides shall be collected at two depths. The locations of the permanently marked plots are given in Appendix A, Table A-1, Summary of the Foundation's Environmental Surveillance Program, of ESRF-021 (4QT97). The locations consist of a site boundary group and a distant group.

3.1.7. Environmental Radiation Measurement. Thermoluminescent environmental dosimeters shall be placed at fourteen offsite locations, thirteen as shown in Appendix A, Table A-1, Summary of the Foundation's Environmental Surveillance Program, of ESRF-021 (4QT97) and the Community Monitoring Station at Mountain View Middle School in Blackfoot. The dosimeters shall be changed every six months.

Readings with a pressurized ion chamber shall be taken at the two Community Monitoring Station locations.

3.1.8. Sample Analysis. The contractor shall arrange for the analysis of the samples by a qualified laboratory with concurrence from the COR. A real-time blind quality assurance program using blanks and spiked samples shall be maintained with the laboratory. The sensitivity of the analyses shall be sufficient to obtain the approximate minimum detectable concentrations stated in Appendix A, Table A-2, Summary of Approximate Minimum Detectable Concentrations for Radiological Analyses, of ESRF-021 (4QT97). The contractor shall be responsible for tabulating, analyzing, and reporting the results.

3.1.9. Other Sampling. Additional samples shall be collected as directed by DOE after unusual events that may produce radioactivity in the atmosphere. Additional samples will normally be air, precipitation, or vegetation samples, collected infrequently, for a short time period. The last time these types of samples needed to be collected was after the Chernobyl accident in 1986.

An IMPROVE air sampler shall be operated on the INEEL at the Central Facilities Area (CFA). The sampler is supplied by the University of California at Davis (U.C. Davis) and operated every sixth day. The U.C. Davis analyzes the filters. The contractor shall pay for the analyses of the filters by U.C. Davis for the station at the Craters of the Moon National Monument as well as the station on the INEEL site (\$23,000 in 1998).

The contractor shall participate in the EPA Environmental Radiation Ambient Monitoring System program by operating a high-volume air sampler in Idaho Falls. Filters are to be changed twice a week and sent to the EPA for analysis. Precipitation samples are shipped monthly. Water samples from Idaho Falls are shipped to EPA monthly.

3.1.10. Reporting. The contractor shall prepare a quarterly report on the results of the offsite surveillance program that discusses trends and interprets the results. The contractor shall establish methods to keep the DOE-ID COR informed of the results of the environmental surveillance program in advance of the quarterly report. The information should be timely, with important or unusual results reported within 10 working days. The method of reporting may be by e-mail, telephone, or written communication is at the discretion of the contractor.

The contractor shall have the primary responsibility for the preparation of the Annual Site Environmental Report (ASER) under DOE-ID direction. DOE-ID shall provide the information for the Environmental Compliance Summary and some of the information for the Environmental Program Information, Chapters 2 and 3, respectively. The contractor shall summarize and analyze the data produced from the offsite environmental surveillance program described above. The contractor shall be responsible for obtaining additional information from other INEEL contractors. The contractor shall prepare an offsite dose assessment and a population dose assessment for inclusion in the report. The report shall be prepared according to DOE Order 5400.1 and annual guidance usually issued by letter by DOE Headquarters early in the calendar year following the year of the report. A draft of the report shall be provided for DOE-ID review by July 1 of each year. DOE-ID shall have fifteen working days to provide comments. A final, printed report shall be ready for distribution by September 15 of each year. The contractor shall distribute the report to DOE, DOE contractors, other federal and state agencies, The Shoshone-Bannock Tribes, and the public. Approximately 700 copies are required. One trip to Washington, DC for an annual workshop on the ASER is optional.

3.1.11. Community Monitoring Stations. The contractor shall continue to operate the two Community Monitoring Stations at Mountain View Middle School in Blackfoot and Madison Middle School in Rexburg. Operation of the stations includes the collection of data on radioactivity and particulates in air and ambient radiation levels as noted above. A weather station shall also be maintained. A local display of the data collected shall be provided. The contractor shall work with a teacher at each school to be trained and paid as the station operator. The teacher and the contractor shall cooperate in exploring ways the station and its data can be included in the school's curriculum.

3.2. ECOLOGICAL SUPPORT FOR LAND MANAGEMENT ISSUES

The contractor shall provide ecological support to DOE-ID for land management issues. Assistance shall include support from the contractor's staff and from various universities with which the contractor maintains contractual relationships. The contractor shall assess the impacts of natural phenomena (such as fire, drought, and cyclical weather patterns) on the INEEL Site and provide advice concerning possible mitigation and appropriate land management practices. Recommendations on how to manage and whether to revegetate disturbed areas shall be provided. Preventive measures to lessen the chances of range fires resulting in property damage at INEEL facilities shall be recommended. Long-term vegetation trends on the INEEL shall be evaluated, including the invasion of a fire-susceptible exotic grass on the INEEL. Two permanent vegetation transects shall be surveyed for vegetative abundance about once every five years. The last survey was in 1995, therefore a survey is due to be

conducted in 2000. The contractor shall provide expertise and advice to DOE-ID personnel or as directed by the COR for other land management issues, such as animal damage control and depredation prevention, noxious weed control, threatened and endangered species protection, wetlands issues, and reclamation of disturbed areas. The contractor shall coordinate and administer National Environmental Research Park activities on the INEEL Site. The contractor may be asked to provide technical assistance to DOE-ID and other cooperating agencies for the recently designated Sagebrush Steppe Ecosystem Reserve at INEEL. A press release describing this effort and the DOE Secretarial Proclamation can be found in Attachment C-A.

3.2.1. Wildlife Surveys. Wildlife population levels and trends shall be monitored. Semiannual big game surveys shall be conducted in January and June to estimate wintering and summering populations of elk, deer, and pronghorn antelope with sufficient accuracy to assess trends. Ground-based survey methods may be substituted for aerial surveys when the accuracy of the ground-based methods is sufficiently close to the aerial surveys to meet INEEL needs to forecast population increases that may result in significant depredation of agricultural areas surrounding the INEEL.

Midwinter raptor counts shall be conducted on and around the INEEL Site in conjunction with the Midwinter Bald Eagle Count. Three to four teams of two people shall participate from the contractor staff for one day in January of each year. Fourteen breeding bird surveys, using the protocol of the U.S. Geological Survey, Biological Resources Division, shall be conducted around INEEL facilities (short routes), at CFA to evaluate the effects of irrigating with sewage wastewater and at five remote locations (25 miles each). Data on breeding bird surveys shall be maintained, trends examined, and a summary report prepared every three to five years.

Data shall also be reported to the Biological Resources Division. We anticipate that the surveys will be performed by contractor personnel and by a university student assistant or temporary employee. A brief report of the data will be provided annually.

3.2.2. National Environmental Policy Act (NEPA) Support. The contractor shall provide NEPA assistance through onsite surveys of proposed surface-disturbing activities on the INEEL and possible impacts on vegetation, wildlife, critical habitat, wetlands, and threatened and endangered species. Environmental checklists that identify those impacts shall be investigated and an evaluation provided to the INEEL Operating Contractor and the DOE-ID NEPA Compliance Officer within, in most cases, ten days. The number of field evaluations may vary from year to year (20 to 45). The evaluations conducted in 1997 may be found in Table 4, NEPA Field Evaluations conducted by the Environmental Science and Research Foundation during 1997 in the Environmental Science and Research Foundation Annual Technical Report to DOE-ID: Calendar Year 1997 (ESRF-027). Advice shall be given to the Operating Contractor regarding revegetation of disturbed areas. The contractor shall provide information and reviews as requested for environmental assessments and environmental impact statements related to INEEL projects.

3.2.3 Contacts with Other Agencies. The contractor shall be the point-of-contact for the exchange of technical information with state and Federal land management and wildlife agencies and Native American Tribes. The contractor shall not engage in policy or other decision-making discussions with those entities. They include the U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Geological Survey (Biological Resources Division), Idaho Department of Fish and Game, U.S. Forest Service, U.S. National Park Service, and U.S. Animal Plant and Health Inspection Service (APHIS). The contractor shall reimburse APHIS \$2,000 per year for predator control on the INEEL Site.

3.3. ENVIRONMENTAL EDUCATION

The contractor shall provide information and educational services relating to environmental surveillance and wildlife use of the INEEL in cooperation with the Communications Division of DOE-ID.

Environmental education activities will include:

- a) Periodic information releases about environmental research and surveillance projects, wildlife, vegetation and other environmentally related topics from the INEEL to Idaho newspapers, TV, and radio stations;
- b) Presentations to a wide variety of audiences including tour, school, and professional groups;
- c) Self-explanatory interpretative signs at several study sites, such as the biobarrier demonstration site, to assist contractor, DOE and others to explain projects to visitors, program reviewers, etc.;
- d) Interpretative brochures;
- e) Portable photo interpretative displays for schools, meetings, airports, etc.;
- f) Operation of the traveler's radio station at the intersection of highways 20 and 26; g) Share information with the INEEL M&O contractor, Idaho Department of Fish and Game, Bureau of Land Management, The Shoshone-Bannock Tribes, etc. as requested by DOE;
- h) Editing of university press releases prior to submittal to DOE for approval;
- i) Guidance, training, and access assistance to university personnel and other scientists requesting permission to conduct studies on the INEEL; and
- (j) Other activities directed by DOE.

A level of effort of 0.5 man-years per year by an Environmental Educator is anticipated.

3.4. ECOLOGICAL RISK ASSESSMENT SUPPORT

The contractor shall assist in the development and review of ecological risk assessment (ERA) documents. The contractor shall support Department-wide initiatives in ecological risk assessment modeling, document preparation, document review and travel to meetings on these topics. The contractor shall also investigate a tiered approach for future ecological monitoring. Travel may involve two trips to the East Coast of two or three days duration each year. The contractor shall perform other functions related to ecological risk assessment on the INEEL. A level of effort of 0.5 man-years per year by a qualified research scientist is anticipated.

3.5. RADIOECOLOGY AND ECOLOGY RESEARCH

A description of the research performed by the incumbent contractor, the Environmental Science and Research Foundation (ESRF), may be found in the Annual Technical Reports. The Environmental Science and Research Foundation Annual Technical Report to DOE-ID: Calendar Year 1997 (ESRF-027). Refer to Attachment C-A for web link to this document.

3.5.1. Protective Cap/Biobarrier Experiment. The Protective Cap/Biobarrier Experiment was started in 1993. It has included tests of a demonstration biobarrier for environmental restoration areas or waste management areas compared to an EPA design. The Protective Cap/Biobarrier Experiment (PC/BE) facility determined the effectiveness of different designs which use natural materials in preventing water intrusion, erosion, and bio-intrusion, including small mammals, ants and vegetation. The various experimental plots were subjected to various intensities and frequencies of simulated precipitation (supplemental irrigation). Neutron hydroprobes and time

domain reflectometry were used to monitor soil moisture, and vegetation development and survival were monitored. The contractor shall prepare a final report in Fiscal Year 2000 on the effects of the biobarrier on soil water storage.

In addition, tests to determine the impacts of small mammals burrowing on different waste cover designs were conducted. Burrowing mammals, (ground squirrels and kangaroo rats) introduced onto the PC/BE plots in Fiscal Year 98 were monitored to determine colonization and use rates for each vegetation and cover type on the PC/BE. Burrowing depths were evaluated by analyzing excavated soils for the presence of colored gravel and chemical tracers placed at various depths during construction of the PC/BE and by analyzing data from previous foam injection and excavation experiments. A final report shall be prepared in FY-2000.

Research was conducted on the effect of ants on infiltration of water into and through the PC/BE. A final report shall be prepared in FY-2000.

3.5.2. Other Ecology Research. Population trends of endangered, threatened, and sensitive species of wildlife shall be followed. Specific studies of those populations shall be periodically conducted, such as current studies of Townsend's big-eared bats and pygmy rabbits. As long as the incumbent continues these two studies, they shall not be the responsibility of the contractor, but shall remain the responsibility of the ESRF since they are joint studies by agreements the ESRF has with other agencies. The joint agency study on monitoring of amphibian and reptile populations and the joint project on impacts from fire on habitat fragmentation on shrub-steppe birds shall also remain the responsibility of the ESRF. These research projects are representative examples of the types of research projects the contractor should propose.

The contractor shall continue research on movement patterns of elk that may cause depredation damage of surrounding farm crops, examine various management practices to control elk depredation, and characterize elk habitat use. Movements of radio-collared elk shall be monitored. The FY-99 subcontractor costs for this research were about \$22,000.

The contractor shall continue to investigate the ecological impacts of irrigating native vegetation with sewage wastewater and determine the changes in vegetation, wildlife use, trace metal contamination, and deep percolation of water due to land application of wastewater. This research has been performed in-house by the incumbent contractor.

3.5.3. Radioecology Research. The contractor shall continue the research on the fate of radionuclides in liquid effluents released to two plastic-lined evaporation ponds at the Test Reactor Area. The research, begun in 1994, shall continue to assess the buildup of radionuclides in the pond system and possible transport to humans from waterfowl using the ponds. This research has been performed in-house by the incumbent contractor.

4.0 DELIVERABLES

INEEL Annual Site Environmental Report--draft on July 1 of each year; final on September 15 of each year.

Special reports on specific topics--as requested with due dates negotiated. Research reports--as specified when new projects are proposed.

General progress reports--to be included in the Monthly Technical Progress Report and the Annual Technical Report. Monthly reports shall be due on the 20th of the month following end of the reporting month. Annual Technical Reports shall be due within six months after the end of the calendar year.

Financial reports--A Cost Plan shall be submitted at the beginning of each Fiscal Year, showing the anticipated costs by month, by business category (salaries, benefits, overhead, supplies, support, research, equipment, etc.), and by each of the five tasks listed in the annual statement of work.

A monthly Cost Report shall be submitted to DOE-ID by the 20th day of each month. The cost report shall list costs for the month by business category in each task.

The monthly reports are also identified in the Reporting Requirements Checklist in Section J of the contract. This checklist identifies frequency, number copies and addressees for the reports.

5.0 SPECIAL CONSIDERATIONS

5.1 Environment, Safety, and Health and Security Compliance. The contractor shall follow the federal, state and DOE requirements for environment, safety and health when operating on the INEEL Site. The contractor shall follow federal, state and local requirements for environment, safety and health when operating off the INEEL Site. The contractor shall observe certain necessary INEEL procedural requirements when operating on the INEEL Site such as badging, emergency training, site communications and notification, radiation training, additional facility access requirements, security (including restrictions on foreign nationals), and NEPA documentation for projects. For unescorted access into INEEL site facilities, the following training is required at minimum of the following: RadCon Training (General Employee Radiation Training, Radiation Worker I or II), Health and Safety Access Training (Environment, Safety and Health Training), and Site Access Training (varies by facility).

The following INEEL procedural requirements, when applicable, shall be observed: shipping, hazardous material training, hazardous waste, waste minimization, aviation safety, cultural resources, and planning and scheduling for use of site contractor support services. The contractor shall use the guidance in the "Environmental Regulatory Guide for Radiological Effluent Monitoring and Environmental Surveillance," DOE/EH-0173T (see Attachment C-A), and general industry standards for the environmental surveillance program.

5.2 Other Compliance Issues. DOE and INEEL requirements germane to the activities in this Statement of Work are listed in Sections 5.1 and Attachment C-A of this document. Additionally, during the period of performance, the contractor may be requested to comply with other DOE orders and requirements. Any requests for compliance will follow the processes outlined in either the "Technical Direction" or the "Changes" clause in the contract.

Two programs that will have implications for the contractor's on-site operations are the Voluntary Protection Program and the Integrated Safety Management System. These programs are at different stages of implementation at INEEL and deal with various aspects of environment, safety, and health management. The contractor should become familiar with these two programs, and how its activities are governed by the programs. Information on these two programs can be reviewed by referring to Attachment C-A.

5.3 Equipment Maintenance. The contractor shall be responsible to maintenance of all equipment associated with conducting the activities in the Statement of Work, including Government Furnished Equipment.

5.4 Quality Assurance Plan. The contractor shall prepare a quality assurance plan and submit it to the DOE Technical Representative for approval. The quality assurance program shall be consistent with DOE Order 414.1 or succeeding documents.

5.5 Health and Safety Plan. The contractor shall prepare a Health and Safety Plan and submit it to the DOE Technical Representative for approval.

5.6 Site Cooperation. The contractor shall establish and maintain cooperative working relationships with the INEEL M&O contractor and other Site residents, including Argonne National Laboratory-West and the Naval Reactors Facility. The contractor may be called upon periodically to provide data and other assistance to these groups as deemed necessary by DOE-ID.

Attachment C-A: References

1. Reynolds, T.D., and Warren, R.W., Environmental Science and Research Foundation Annual Technical Report to DOE-ID: Calendar Year 1997, ESRF-027
2. Evans, R. B., et al., Idaho National Engineering and Environmental Laboratory Site Environmental Report for Calendar Year 1997, DOE/ID-12082 (97)
3. ESRF-021(4QT97), INEEL Offsite Environmental Surveillance Program Report: Fourth Quarter 1997.
4. DOE/EH-0173T, Environmental Regulatory Guide for Radiological Effluent Monitoring and Environmental Surveillance.
5. DOE Order 414.1, Quality Assurance (see also 10 CFR 830.120)
6. DOE Order 5400.1, General Environmental Protection
7. DOE Order 5400.5, Radiation Protection of the Public and the Environment
8. DOE Order 231.1, Environment, Safety, and Health Reporting
9. DOE Idaho Operations Office Homepage
10. INEEL M&O Solicitation
11. DOE Integrated Safety Management Program
12. DOE Voluntary Protection Program
13. Agreement in Principle between The Shoshone-Bannock Tribes and DOE.
14. DOE News Release, July 17, 1999 - Energy Department, Bureau of Land Management Create Sagebrush Steppe Reserve at INEEL.
15. Proclamation of the DOE Secretary of Energy Designating the INEEL Sagebrush Steppe Ecosystem Reserve, July 17, 1999.

Attachment C-B: TABLE 1: Summary of Major Activities.

SOW Reference Section	Key Activities	Frequency/Due Date	Description	Notes
3.1 Offsite Environmental Surveillance	Sampling of air, water, precipitation, food, animal tissues, and environmental radiation	Varied – see Attachment C-C or Section 3.1 of SOW	Collect, tabulate, analyze, interpret, report on samples	1) Assume leasing and electricity expenses (approx. \$3,000/year) for some air samplers; 2) Pay for analyses of IMPROVE air filters (currently \$23,000); 3) Arrange for analysis of samples by a qualified laboratory
3.1.10 Reporting	Surveillance Report	Quarterly	Report results of offsite surveillance, trends, interpretation of results	Quarterly Report to DOE-ID
	Annual Site Environmental Report	Annually: Draft to DOE-ID 1 July Final distributed by 15 September	Report summary of data, analyses, and results of routine environmental surveillance programs at INEEL	Annual Report widely distributed (approximately 700 copies needed)
3.1.11 Community Monitoring Stations	Operation of Community Monitoring Stations	Varied	Collection of data on radioactivity and particulates in air and ambient radiation levels; maintenance of weather station; train and pay local teacher as station operator; cooperate with station operator on incorporation into curriculum	Train and pay local teacher as station operator
3.2 Ecological Support for Land Management Issues	Land Management Issues	As needed	Provide ecological support	
	Vegetation Transects	Approximately once every five years	Survey for vegetative abundance	
	Natural Phenomena Impact Assessments	As needed	Assess impacts of fire, drought, cyclical weather patterns, etc., and advise on mitigation and land management practices	
	Range Management	As needed	Provide advice on revegetation of burned areas and how to prevent range fires; evaluate vegetation trends	
	Other Land Management Issues	As needed	Provide expertise/advice on animal damage control, depredation prevention, noxious weed control, threatened/endangered species, wetlands, etc.	
3.2.1 Wildlife Surveys	Big Game Surveys	Semiannually: January and June	Estimate wintering and summering populations of elk, deer, pronghorn antelope; investigate methods of increasing winter forage	

SOW Reference Section	Key Activities	Frequency/Due Date	Description	Notes
	Breeding Bird Surveys	Annually: June	Conduct 14 breeding bird surveys; maintain data on breeding birds, trending, and prepare a periodic summary report	
	Raptor Counts	Annually: January	Conduct midwinter raptor counts throughout the INEEL site	
3.2.2 National Environmental Policy Act (NEPA) Support	NEPA Assistance	As needed	Provide on-location surveys and opinions of proposed surface-disturbing activities and impacts to wildlife, critical habitat, wetlands, and threatened/endangered species; review EA/EIS as requested	
3.2.3 Contacts with Other Agencies	Technical Advisor to DOE	As needed	Serve as technical advisor in support of DOE's interactions with other land management and wildlife agencies	APHIS, \$2,000 per year for predator control
3.3 Environmental Education	Outreach	As needed	Provide information and educational services related to environmental surveillance and wildlife use	
3.4 Ecological Risk Assessment Support	Ecological Risk Assessment Support	As needed	Support complex-wide initiatives in ecological risk assessment modeling, document preparation and review, and travel to meetings on these topics	
3.5.1 Protective Cap/Biobarrier Experiment	Protective Cap/Biobarrier Experiment	Final report FY-00	Continue tests of cap/barrier demonstration and prepare reports on effects of soil water storage, on impacts of small mammal burrowing, and on the effects of ants on water infiltration	Assume responsibility for PC/BE
3.5.2 Other Ecology Research	Select Population Trending	Periodically	Study and trend populations of endangered, threatened, and sensitive species of wildlife	
	Study Elk Population	Periodically	Study movements of radio-collared elk that may cause depredation, examine management practices to control the depredation, and characterize elk habitat use	Assume responsibility for Elk depredation studies
	Investigate Impacts of Wastewater Land Application		Investigate ecological impacts resulting from irrigation of native vegetation with sewage wastewater	Assume responsibility for wastewater study
3.5.3 Radioecology Research	Liquid Effluents Research		Research on fate of radionuclides in liquid effluents at TRA ponds; assess buildup of radionuclides in pond system and potential transport to humans	Assume responsibility for research on TRA ponds

SOW Reference Section	Key Activities	Frequency/Due Date	Description	Notes
4.0 Deliverables	Special Reports	As requested	Reports on specific topics as requested	
	Research Reports	As requested	Reports on research conducted as proposed	
	Technical Progress Reports	Monthly: 20 th of each month	Summary of technical progress	
	Technical Report	Annually: within six months after end of calendar year	Report of all activities conducted under this scope of work in each calendar year	
	Cost Report	Monthly: 25 th of each month	Includes monthly invoice and lists costs by business category in each task	
5.4 Quality Assurance Plan	Quality Assurance Plan	Within 30 days after award date; modified as needed	Submit quality assurance plan for approval	
5.5 Health and Safety Plan	Health and Safety Plan	Within 30 days after award date; modified as needed	Submit health and safety plan for approval	

Attachment C-C: TABLE 2: Summary of Offsite Environmental Surveillance Program.

Medium Sampled	Type of Analysis	Number of Samples and Frequency		SOW Reference Section
		Onsite	Offsite	
Air (low-volume)	gross alpha gross beta gamma particulate matter ⁹⁰ Sr ²³⁸ Pu ^{239/240} Pu ²⁴¹ Am	3 weekly 3 weekly 3 quarterly 3 quarterly 1-2 quarterly 1-2 quarterly 1-2 quarterly 1-2 quarterly	14 weekly ^a 14 weekly ^a 14 quarterly ^a 14 quarterly ^a 4 quarterly 4 quarterly 4 quarterly 4 quarterly	3.1.1 Air Sampling
Air (charcoal cartridge)	¹³¹ I	3 weekly	14 weekly ^a	3.1.1 Air Sampling
Air (atmospheric moisture)	³ H	None	4, 1-4 quarterly	3.1.1 Air Sampling
Air (high-volume)	particulate (PM ₁₀)	None	3, weekly	3.1.1 Air Sampling
Air (precipitation)	³ H	1, weekly 1, monthly	1, monthly	3.1.2 Precipitation Sampling
Air (IMPROVE)	H, Na thru Pb, PM _{2.5}	1, weekly	1, weekly	3.1.9 Other Sampling
Air (high-volume, EPA)		None	1, twice weekly	3.1.9 Other Sampling
Air (precipitation, EPA)		None	1, monthly	3.1.9 Other Sampling
Water (drinking)	gross alpha gross beta tritium	None	14, semiannually 14, semiannually 14, semiannually	3.1.3 Water Sampling
Water (EPA)		None	1, monthly	3.1.9 Other Sampling
Water (surface)	gross alpha gross beta tritium	None	5, semiannually 5, semiannually 5, semiannually	3.1.3 Water Sampling
Animal Tissue (sheep)	gamma (liver/muscle) ¹³¹ I (thyroid)	4, annually	2, annually	3.1.4 Animal Sampling
Animal (Game, Road-killed)	gamma (liver/muscle) ¹³¹ I (thyroid)	As available	as available	3.1.4 Animal Sampling
Food (Milk) - Local supplier - Commercial/Family - Local/Commercial/Family - Local/Commercial/Family	¹³¹ I ^b ¹³¹ I ^b ⁹⁰ Sr ³ H	None None None None	1, weekly 8, monthly 9, annually 9, annually	3.1.5 Food Sampling
Food (potato)	Gamma ⁹⁰ Sr	None	5, annually 5, annually	3.1.5 Food Sampling
Food (wheat)	Gamma ⁹⁰ Sr	None	11, annually 11, annually	3.1.5 Food Sampling
Food (lettuce)	Gamma ⁹⁰ Sr	None	9, annually 9, annually	3.1.5 Food Sampling
Soil ^c	Gamma ⁹⁰ Sr ²³⁸ Pu ^{239/240} Pu ²⁴¹ Am	None None None None None	12, biennially 12, biennially 12, biennially 12, biennially 12, biennially	3.1.6 Soil Sampling
Radiation (thermoluminescent dosimeter)	Ionizing Radiation	None	14, semiannually	3.1.7 Environmental Radiation Measurement
Radiation (pressurized ion chamber)	Ionizing Radiation	None	2, continuous	3.1.7 Environmental Radiation Measurement

^a Two of the 14 samples are taken from replicate samplers used for quality control

^b Analysis for ¹²⁹I in late summer or early fall is also encouraged.

^c Soil samples collected in even numbered calendar years.

**TENANT USE AGREEMENT
BETWEEN FACILITY
MANAGEMENT, RESEARCH AND
EDUCATION CAMPUS (REC)
AND THE DEPARTMENT OF
ENERGY-ID (DOE-ID)
RADIOLOGICAL AND
ENVIRONMENTAL SCIENCES
LABORATORY (RESL) AT THE
INL RESEARCH COMPLEX
(IRC) IF-683 AND IF-601
FACILITIES**



The INL is a U.S. Department of Energy National Laboratory
operated by Battelle Energy Alliance.

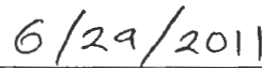
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SIGNATURES AND APPROVALS

The INL REC Facility Services Division Director (FSDD) and the respective programs have negotiated this agreement in good faith regarding the INL Research Complex (IRC) IF-601 and IRC IF-683 to clarify responsibilities and authorities for the Tenants. All parties agree to abide by the requirements of this agreement. Signature of the respective Tenant is the acceptance of this TUA. Signature of the REC FSDD ensures agreement to perform the facility manager responsibilities outlined in this TUA and is the approval for this TUA. Signature of this document does not establish payment obligation by either party.



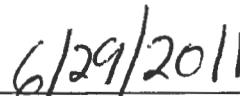
Anita R. Bhatt, DOE-ID, Laboratory Director
Radiological and Environmental Sciences Laboratory



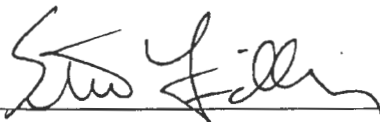
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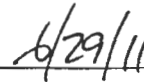
William F. Hamel, DOE-ID, Assistant Manager
Infrastructure Support



Date



Steve Lindberg, Facility Services Division Director
Research and Education Campus



Date

Idaho National Laboratory

TENANT USE AGREEMENT BETWEEN FACILITY MANAGEMENT, RESEARCH AND EDUCATION CAMPUS (REC) AND THE DEPARTMENT OF ENERGY-ID (DOE-ID) RADIOLOGICAL AND ENVIRONMENTAL SCIENCES LABORATORY (RESL) AT THE INL RESEARCH COMPLEX (IRC) IF-601 AND IRC IF-683 FACILITIES	Identifier: IAG-IF-683	Page: 4 of 37
	Revision: 0	
	Effective Date: 06/29/2011	
INL Research Center	Tenant Use Agreement	eCR Number: 593947

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1. INTRODUCTION

The Radiological and Environmental Sciences Laboratory (RESL) is a Government-Owned and Government-Operated (GO/GO) facility located at the Idaho National Laboratory (INL) Research Complex (IRC). RESL is a Division of the Department of Energy’s Office of Nuclear Energy (NE) Idaho Operations Office (DOE-ID). The RESL Director Reports directly to DOE-ID. As a key DOE Reference Laboratory, RESL programmatic operations directly support the DOE’s missions. RESL’s key mission capabilities are associated with analytical chemistry and radiation measurements and calibrations.

2. PURPOSE

This Tenant Use Agreement (TUA) establishes the basic interface, understanding, boundaries of responsibility and accountabilities between the INL Maintenance and Operations (M&O) Contractor, Battelle Energy Alliance (BEA) Facility Management (FM) Division, and the Department of Energy (DOE-ID) RESL at the Research and Education Campus (REC). It identifies the basic required documentation between DOE-ID and FM, relating to interfaces and necessary maintenance and operational support services for the area occupied by the RESL program at IRC IF-601 and IRC IF-683.

3. SCOPE

This TUA defines the processes invoked at the REC IRC IF-601 (the portions occupied by RESL) and IF-683 facilities that designate occupant use for these facilities. These include the physical attributes that support the defined work scope and mission, the operational boundaries that govern building/space usage, the definition of responsibilities for the delivery of core facility services, and pertinent matters associated with administration of this TUA.

4. ROLES AND RESPONSIBILITIES

This section summarizes the roles and responsibilities between the REC Facility Services Division Director (FSDD) and the Tenant line management organization at IF-601 and IF-683. This agreement implements the requirements of Contract No. DE-AC07-05ID14517 between DOE-ID and BEA LLC for Maintenance and Operations of the INL properties, INL procedure LWP-9901, “Tenant Use Agreements” and PDD-21000, “Facilities and Services Management System” to ensure work activities and associated hazards, and facility physical capabilities and operational safety limits and controls will not be compromised.

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All FM activities at RESL will be coordinated with RESL management and comply with DOE policy, plans, and procedures requirements. Specifically, unless incorporated by reference, into RESL work control documents, FM policies, procedures and directives do not apply directly to RESL operational activities managed by the RESL Director. The applicability of procedures as well as specific training requirements and other special conditions will be identified in this or other referenced agreements. All issues and concerns directly related to RESL processes and activities will be addressed in accordance with DOE-ID and RESL procedures or other applicable DOE requirements documents.

Functional Area	REC Facility Services Division Director	DOE Tenant Mgr
Operating Envelope	Facility Services Division Director (FSDD) will establish and maintain the operating envelope base, including safety analysis documents, permits, allocations, and other limiting documents for the facility.	The RESL Director will develop and maintain the programmatic operational requirement documents such as Permits, Integrated Safety Management System, and Radiation Protection Program for RESL operations.
Safety Document Ownership	FSDD will establish and maintain overarching facility safety documentation to demonstrate compliance with OSHA, International Building Code (IBC), and NFPA standards for RESL utilities, ventilation, and the chemical storage room	Tenant will establish and maintain implementation safety documents for the program activities as required, ensuring there are no conflicts with overarching facility safety documentation. Tenant will ensure equipment and chemicals use in the facility meet OSHA, IBC, and NFPA standards.

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Functional Area	REC Facility Services Division Director	DOE Tenant Mgr
<p>Radiological Materials Control (RadCon)</p>	<p>FSDD will NOT maintain overall radiological inventories for the RESL occupied areas.</p> <p>Specific details are outlined in Appendix A of this agreement.</p>	<p>Tenant will be responsible for maintaining RAD inventories within the facility RAD limits and verifying inventory limits before receipt of additional radioactive materials. In accordance with DOE-EA-1555.</p> <p>Tenant is responsible for designating a custodian for any Materials Balance Area(s) (MBA).</p> <p>Specific details are outlined in Appendix A of this agreement.</p>
<p>Radiological Waste</p>	<p>RESL Rad waste will be comingled with IRCs waste and included in the INL Nevada National Security Site (NNSS) certification</p> <p>FSDD will provide INL-WGS to manage and dispose of low-level radioactive waste (LLW) generated in IF-683.</p>	<p>RESL Rad waste will be comingled with IRCs waste and included in the INL Nevada National Security Site (NNSS) certification</p> <p>Will provide INL-WGS with radiological characterization for the LLW generated in IF-683. RESL will provide an RMA for the accumulation of LLW within IF-683.</p>
<p>Radiological Protection Program (RPP)</p>	<p>FSDD will implement the INL RPP for work performed by INL and INL subcontracted staff in IF-683 facility, to include surveys, RWPs, dosimetry, and RCTs.</p> <p>FSDD will provide RPP staff support, trained to the INL RPP, for RESL operational activities in the facility at the request and funding of RESL operations.</p>	<p>RESL will establish and maintain a RPP for the operational activities performed by DOE in the IF-683 labs.</p> <p>RESL has the option to contract INL to RPP staff under the INL program or contract an independent source for this activity.</p>

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Functional Area	REC Facility Services Division Director	DOE Tenant Mgr
<p>Environmental Discharges</p>	<p>FSDD will maintain sewer, water, ventilations and HVAC systems in proper working order.</p> <p>FSDD will maintain premise protection cross-connection (i.e. backflow prevention) control for IF-683. FSDD will provide Tenant with routine cross-connection control inspections and recommendations of the Tenant's connections at DOE's request.</p>	<p>Tenant will be responsible for controlling wastewater discharges and air emissions from RESL in compliance with Federal, State, and local limits and for reporting any non-compliance to DOE. In accordance with DOE-EA-1555.</p> <p>Tenant is responsible for cross-connection control when connecting to the potable water system provided in RESL.</p> <p>Tenant is responsible for local, point-of-use cross-connections control when connecting to the potable water system within IF-683 and IF-601 south end</p>
<p>Hazardous Waste Management</p>	<p>FSDD will monitor IRC and RESL hazardous waste generation rates and inventory in storage to ensure compliance with RCRA Small Quantity Generator (SQG) limits for the entire IRC.</p> <p>FSDD will notify RESL if the combined RESL-IRC generation rates are projected to exceed SQG limits.</p>	<p>RESL will be responsible for the management, characterization, tracking and reporting of Tenant hazardous waste generated and storage volumes in IF-683 labs. INL-WGS will perform these functions and report to the FSDD monthly, for RESL operations, to support the combined RESL-IRC compliance with SQG limits.</p> <p>INL-WGS will also inspect and manage the SAA (s) in IF-683 labs for RESL operations.</p> <p>Tenant will adjust hazardous waste generation activities in cooperation with the IRC generation as necessary to ensure compliance with SQG limits.</p>

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Functional Area	REC Facility Services Division Director	DOE Tenant Mgr
<p>Chemical Inventory & Operations</p>	<p>FSDD will maintain, control, and monitor overall inventories for the RESL facility.</p> <p>FSDD will provide a chemical coordinator to interface with the tenant to address chemical inventory issues (order, receive, track) and to monitor and routinely report on chemical inventory.</p>	<p>Tenant will be responsible for controlling their chemical inventory to established control limits and provide information and funding to the FSDD designated facility chemical coordinator. INL-WGS will report this data to the FSDD monthly, for RESL operations,</p> <p>Tenant will coordinate with chemical coordinator for ordering chemicals to ensure facility limits will not be exceeded.</p>

5. GENERAL INFORMATION

Tenant/Facility Name(s)	Radiological and Environmental Sciences Laboratory (RESL)
Inclusive Dates of Agreement	2011 – until vacated
DOE-ID RESL Laboratory Operations Director	Anita R Bhatt
DOE-ID RESL Laboratory Operations Lab Space Coordinator	L. Wylie Browning
BEA Research and Education Campus Facility Services Division Director	Steve Lindberg
BEA Research and Education Campus Building Supervisor	Doug Hilde

6. OPERATING ENVELOPE

This TUA bounds the Tenant to utilize the facility as designed. All RESL work activities will be controlled by DOE-ID laboratory processes & procedures. All INL facility work activities will be controlled by FM management processes & procedures.

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The facility operating envelope and the associated action levels are defined in Appendix A. Action levels are based either on allowable inventory or level of acceptable risk. If or when action levels are achieved, Tenants must evaluate whether additional controls are needed to operate at the higher levels. A change in any action level will require a formal change to this TUA in accordance with LWP-9901.

7. REVISIONS

This agreement becomes effective upon signing by all parties. Modifications will be mutually agreed upon.

8. GENERAL DESCRIPTION

Table 1. General description of the facility design, uses, capabilities, and associated documents.

Facility Area, Building Number	REC IF-601, partial occupant (54%), office space REC IF-683, Laboratories
Facility Hazard Classification	The RESL laboratories are classified as LTHC3 facilities.
FIMS Design Use	Laboratories (Radiological, Chemical)
General Description	IF-601 Office space IF-683 Laboratory space
Final Disposition Date	2011 until vacated.
Fire Suppression System	As described in respective facility technical basis in Appendix C.
Facility Support Utilities/Systems	Information is available at http://fandmprod.inl.gov
Special Environmental Controls & Permits	RESL Lab Air Permit Applicability Determination (APAD) # INL-09-0914 or #DOE-EA-1555 RESL Lab Storm Water Pollution Prevention Plan (SWPPP) with Notice of Intent (NOI) RESL Lab NESHAP Rad Materials Inventory (LTHC3) (683 Inventory is stand alone for Rad inventory tracking purposes. Not to be included in IRC as a whole) NESHAPs annual report for IRC. RESL will provide list of each radionuclide and its emission quantity (in curies) emitted to air (RESL is part of the IRC and as such has to be

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<p>Primary documents associated with the operation of these facilities.</p>	<p>included in the annual NESHAP report)</p> <p>Fire Safety Assessment</p> <p>DOE/EA-1555-Environmental Assessment for the Proposed Consolidation and Expansion of Idaho National Laboratory Research and Development - Research & Education Campus</p> <p>Environmental Checklist - INL-09-073, "RESL Relocation Project"</p> <p>Air Permitting Applicability Determination – INL-09-014, "DOE-ID Radiological & Environmental science Laboratory"</p> <p>Contract No. DE-AC07-051D14517 between DOE-ID and BEA LLC for Maintenance and Operations of the INL properties</p> <p>PLN-114 The INL Emergency Plan/RCRA Contingency Plan</p>
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9. APPENDIXES

Appendix A, Facility Classification Limits

Appendix B, Functional Responsibilities

Appendix C, Technical Basis

Appendix D, Facility Equipment Responsibilities

Appendix E, Special Conditions

Appendix F, Acronym List

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Appendix A

Facility Classification Limits

Facility Classification Limits for REC IF-601 Offices and IF-683 Laboratories for DOE-ID RESL Program

1.0 SPECIAL ENVIRONMENTAL LIMITATIONS

FSDD is responsible to handle process and/or store hazardous waste in the appropriate Temporary Accumulation Area (TAA).

Tenant is responsible to handle process and/or store hazardous waste in the appropriate Satellite Accumulation Area (SAA) in the IF-683 labs in accordance with Federal and State hazardous waste regulations. The IRC (including RESL) is currently classified as a RCRA Small Quantity Generator (SQG) with reduced regulations. RESL will be responsible for the tracking and reporting of Tenant hazardous waste generated and storage volumes in IF-683 labs. INL-WGS will report this data to the FSDD monthly to support the combined RESL-IRC compliance with SQG limits. Waste Generator Services (WGS) personnel will operated to INL Manual 17, "INL Waste Management" and track the Tenant's hazardous waste generation rates and the volume of waste in storage. WGS will report this information to the FSDD monthly to ensure compliance with SQG limits.

2.0 SPECIFIC RADIOLOGICAL LIMITATIONS

2.1 Tenant RAD Inventory Control & Coordinator. The Tenant will designate a custodian to maintain control of Tenant radiological material at, or below, the inventory levels designated by the RESL APAD (# INL-09-0914) and LTHC3 facilities.

RESL will be part of the annual NESHAP report for the IRC. The Tenant must track radiological emissions to demonstrate compliance with the limits specified in the APAD. The Tenant must report emissions to the INL for rollup in the annual IRC NESHAP report for the IRC to demonstrate radiological compliance. RESL will provide the annual emissions in curies for each radionuclide emitted to the air during the year.

2.2 Tenant ensures that the total radiological inventory for the area does not exceed the Sum of the Ratio (SOR) value of less than one for a Less than Hazard Category 3 (LTHC3) Radiological Facility, as published in DOE STD 1027. Controls material inventories shall be maintained in accordance with DOE M 470.4-6 Chg. 1, Nuclear Material Control and Accountability requirements for

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receipt, storage, use, and transfer of special nuclear materials. Tenant will establish a Radioactive Material Area (RMA) within IF-683 for the accumulation of low-level radioactive waste (LLW) prior to off-site disposal by INL-WGS. LLW in the RMA shall be characterized, labeled, and inventoried by Tenant in accordance with INL Manual 17 procedures.

- 2.3 Tenant shall maintain less than 15 grams of fissile material or establish and maintain Criticality Control Areas (CCAs) or Mass Balance Area (MBAs) in accordance with DOE requirements.

3.0 SPECIFIC CHEMICAL LIMITATIONS

3.1 Chemical Inventory Tracking & Management

Control of chemicals to the limits listed below is the responsibility of the Tenant with the support of the designated chemical coordinator, which will provide inventory quantity management for the Tenant and FSDD. The chemical coordinator will provide ordering, tracking and inventory support to the Tenant to ensure facility limits will not be exceeded.

The INL identified the National Fire Prevention Association (NFPA) and International Building Code (IBC) levels used as action levels and are per fire zone for this government owned facility.

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Occupancy: B – office, F1 – factory, per IBC 302.1

Construction Type: II-B per IBC 601 & 683

The facility limits per control area according to the IBC and International Fire Code are:
SPRINKLER PROTECTED IBC TABLE 307.7 (1) & (2)

TYPE	MATERIAL	MAXIMUM QUANTITY	MAXIMUM QUANTITY WHEN STORED IN APPROVED STORAGE CABINETS, GAS CABINETS, EXHAUSTED ENCLOSURES OR SAFETY CANS
CL2	COMBUSTIBLE LIQUIDS (CLASS II)	240 gal	480 gal
CL3A	COMBUSTIBLE LIQUIDS (CLASS IIIA)	660 gal	1,320 gal
CL3B	COMBUSTIBLE LIQUIDS (CLASS IIB)	NL	NL
F1A	FLAMMABLE LIQUIDS (CLASS IA)	60 gal	120 gal
F1B/C	FLAMMABLE LIQUIDS (CLASS IB AND 1C)	240 gal	480 gal
F1A, B, C	FLAMMABLE LIQUIDS (CLASS IA, IB, AND 1C)	240 gal	480 gal
FLG	FLAMMABLE GAS(Gaseous)	2,000 cf	4,000 cf
FLG	FLAMMABLE GAS (Liquefied)	60 gal	120 gal
OXG	OXIDIZERS GAS (Gaseous)	3,000 cf	6,000 cf
OXG	OXIDIZERS GAS (Liquefied)	30 gal	60 gal
CRY	CRYOGENIC FLAMMABLE	90 gal	90 gal
CRY	CRYOGENIC OXIDIZERS	90 gal	90 gal
	EXPLOSIVES SOLID Division 1.1	1 lb	2 lb
	EXPLOSIVES SOLID Division 1.2	1 lb	2 lb
	EXPLOSIVES SOLID Division 1.3	5 lb	10 lb
	EXPLOSIVES SOLID Division 1.4	50 lb	100 lb
	EXPLOSIVES SOLID Division 1.4G	250 lb	500 lb
	EXPLOSIVES SOLID Division 1.5	1 lb	2 lb
	EXPLOSIVES SOLID Division 1.6	1 lb	2 lb
	EXPLOSIVES LIQUID Division 1.1	(1) lb	(2) lb
	EXPLOSIVES LIQUID Division 1.2	(1) lb	(2) lb
	EXPLOSIVES LIQUID Division 1.3	(5) lb	(10) lb
	EXPLOSIVES LIQUID Division 1.4	(50) lb	(100) lb
	EXPLOSIVES LIQUID Division 1.4G	NA	NA
	EXPLOSIVES LIQUID Division 1.5	(1) lb	(2) lb
	EXPLOSIVES LIQUID Division 1.6	NA	NA
FLS	FLAMMABLE SOLIDS	250 Lb	500 Lb
	ORGANIC PEROXIDES UNCLASSIFIED SOLID	1 lb	2 lb
	ORGANIC PEROXIDES UNCLASSIFIED	(1) lb	(2) lb

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	LIQUID		
OP1	ORGANIC PEROXIDES SOLID (CLASS I)	10 lb	20 lb
OP1	ORGANIC PEROXIDES LIQUID (CLASS I)	(10) lb	(20) lb
OP2	ORGANIC PEROXIDES SOLID (CLASS II)	100 lb	200 lb
OP2	ORGANIC PEROXIDES LIQUID (CLASS II)	(100) lb	(200) lb
OP3	ORGANIC PEROXIDES SOLID (CLASS III)	250 lb	500 lb
OP3	ORGANIC PEROXIDES LIQUID (CLASS III)	(250) lb	(500) lb
OP4	ORGANIC PEROXIDES SOLID (CLASS IV)	NL	NL
OP4	ORGANIC PEROXIDES LIQUID (CLASS IV)	NL	NL
OP5	ORGANIC PEROXIDES SOLID (CLASS V)	NL	NL
OP5	ORGANIC PEROXIDES LIQUID (CLASS V)	NL	NL
OX4	OXIDIZERS SOLID (CLASS 4)	1 lb	2 lb
OX4	OXIDIZERS LIQUID (CLASS 4)	(1) lb	(2) lb
OX3	OXIDIZERS SOLID (CLASS 3) ^K	20 lb	40 lb
OX3	OXIDIZERS LIQUID (CLASS 3)	(20) lb	(40) lb
OX2	OXIDIZERS SOLID (CLASS 2)	500 lb	1,000 lb
OX2	OXIDIZERS LIQUID (CLASS 2)	(500) lb	(1,000) lb
OX1	OXIDIZERS SOLID (CLASS 1)	4,000 lb	8,000 lb
OX1	OXIDIZERS LIQUID (CLASS 1)	(4,000) lb	(8,000) lb
OXG	OXIDIZERS GAS (LIQUEFIED)	30 gal	60 gal
PYROPH	PYROPHORIC SOLID	4 lb	8 lb
PYROPH	PYROPHORIC LIQUID	(4) lb	(8) lb
PYROPH	PYROPHORIC GAS	50 cf	100 cf
UR4	UNSTABLE (REACTIVE) SOLID (CLASS 4)	1 lb	2 lb
UR4	UNSTABLE (REACTIVE LIQUID (CLASS 4)	(1) lb	(2) lb
UR4	UNSTABLE (REACTIVE GAS (CLASS 4)	10 cf	20 cf
UR3	UNSTABLE (REACTIVE) SOLID (CLASS 3)	10 lb	20 lb
UR3	UNSTABLE (REACTIVE LIQUID (CLASS 3)	(10) lb	(20) lb
UR3	UNSTABLE (REACTIVE GAS (CLASS 3)	50 cf	100 cf
UR2	UNSTABLE (REACTIVE) SOLID (CLASS 2)	100 lb	200 lb
UR2	UNSTABLE (REACTIVE LIQUID (CLASS 2)	(100) lb	(200) lb
UR2	UNSTABLE (REACTIVE GAS (CLASS 2)	500 cf	1000 cf
UR1	UNSTABLE (REACTIVE) SOLID (CLASS 1)	NL	NL
UR1	UNSTABLE (REACTIVE LIQUID (CLASS 1)	NL	NL
UR1	UNSTABLE (REACTIVE GAS (CLASS 1)	NL	NL
WR3	WATER REACTIVE SOLID (CLASS 3)	10 lb	20 lb
WR3	WATER REACTIVE LIQUID (CLASS 3)	(10) lb	(20) lb
WR2	WATER REACTIVE SOLID (CLASS 2)	100 lb	200 lb
WR2	WATER REACTIVE LIQUID (CLASS 2)	(100) lb	(200) lb
WR1	WATER REACTIVE SOLID (CLASS 1)	NL	NL
WR1	WATER REACTIVE LIQUID (CLASS 1)	NL	NL

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COR	CORROSIVES SOLID	10,000 lb	20,000 lb
COR	CORROSIVES LIQUID	1,000 gal	2,000 gal
CORG	CORROSIVES GAS	1,620 cf	3,240 cf
HTX	HIGHLY TOXICS - SOLID	20 lb	40 lb
HTX	HIGHLY TOXICS - LIQUID	(20) lb	(40) lb
HTX	HIGHLY TOXIC GAS	NP	20 cf
TOX	TOXICS - SOLID	1,000 lb	2,000 lb
TOX	TOXICS - LIQUID	(1,000) lb	(2,000) lb
TOXG	TOXICS - GAS	1,620 cf	3,240 cf

For SI: 1 cubic foot = 0.023 m³, 1 pound = 0.454 kg, 1 gallon = 3.785 L.
 NA = Not applicable
 NL = Not limited
 NP = Not permitted
 UD = Unclassified detonable
 () = Liquids in pounds

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Appendix B

Functional Responsibilities

Functional Responsibilities for REC IF-601 Offices and IF-683 Laboratories for DOE-ID RESL Program

Facility Management and Tenant/Program Functional Responsibilities

Functional Area	REC Facility Services Division Director	Tenant
<p>Work Management</p>	<p>FSDD will develop, maintain, and approve work management documents for work performed by facility personnel.</p> <p>FSDD will provide a contact to submit, review and approve work requests to support facility and Tenant activities.</p> <p>FSDD will provide RESL director or designee a schedule of facility work packages for review</p> <p>FSDD will provide personnel trained on the facility hazards and Chemical Hygiene Plans for IF-683 as required by INL and Tenant procedures.</p>	<p>Tenant will use appropriate FSDD work control processes for activities affecting facility configuration or systems.</p> <p>Tenant will use appropriate RESL work control processes for RESL operational activities.</p> <p>Tenant will ensure that appropriate RESL work management processes are applied to vendors and subcontractors hired to work on tenant equipment.</p> <p>Tenant will review scheduled work to ensure that RESL programmatic requirements are adequately addressed and that building specific hazards have been identified and mitigated.</p> <p>RESL will provide facility specific and Chemical Hygiene Plan and training as necessary to INL personnel performing maintenance, waste management, ES&H support, RadCon, and chemical management services in IF-683.</p>

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Functional Area	REC Facility Services Division Director	Tenant
<p>Facility Modifications</p>	<p>All facility related modifications are the responsibility of the FSDD and will require FSDD approval.</p> <p>Tenant requested modifications to the facility will require FSDD approval and be at the tenant's expense.</p> <p>At the tenant's request, FSDD will install, maintain, and calibrate program-specific equipment (e.g., gas monitoring systems, liquid nitrogen and other gas distribution systems, and laser interlocks). Landlord and tenant will agree on funding prior to installation.</p>	<p>The Tenant is responsible for work performed on Tenant equipment including maintenance and calibrations.</p> <p>The Tenant authority/responsibility starts after the first receptacle connection within the facility, such as wall outlets, light switches, connections for gas, air, water, sewage and telephone lines. Note: The tenant is not authorized to reset or modify electrical circuits without prior approval from the FSDD.</p> <p>Tenant will identify, request and fund installation and/or modification of program-specific equipment, and facility equipment and systems that support program needs.</p> <p>Tenant requested modifications to the facility will require FSDD approval and be at the Tenant's expense.</p>
<p>Industrial Wastewater Agreements</p>	<p>n/a</p>	<p>Discharge only allowable materials in accordance with City of Idaho Falls and RESL wastewater agreement.</p>

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Functional Area	REC Facility Services Division Director	Tenant
Environment, Safety, Health, and Quality (ESH&Q) Support	<p>Interface with ESH&Q staff to ensure the level of safety and environmental compliance is appropriate and maintained for the facility, including consistent codes, standards, and OSHA interpretations.</p> <p>FSDD will provide ESH&Q staff support to RESL program upon request and funding from the tenant.</p>	<p>Tenant provides own ESH&Q support and ensure the level of safety and environmental compliance is appropriate for the Tenant activities, including consistent codes, standards, and OSHA interpretations and facility safety envelope is not compromised.</p>
Emergency Management (EM)	<p>Provide EM support with Tenant individuals trained as emergency points of contacts (EPOCs).</p> <p>Interface with EM for drills/exercises and area warden identification.</p> <p>Minimize impact of drills to Tenants.</p>	<p>Provide area wardens, area warden coordinators, and EPOC trained to INL PLN-114 as requested.</p> <p>Provide information on Tenant activities to IRC Emergency Management Planner for training/planning purposes and to the ERO personnel during emergencies and drills, as requested.</p>
Outages	<p>Coordinate and inform the Tenant of planned outages according to company outage procedure. Ensure conditions associated with the outage will not adversely impact Tenant activities.</p>	<p>Plan for effects of outage on Tenant activities and implement controls, work stoppage, or other actions.</p> <p>Request outages for Tenant activities, when needed.</p>

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Functional Area	REC Facility Services Division Director	Tenant
Routine inspection of Safety Equipment	<p>Schedule and conduct inspections of facility equipment including fire extinguisher, safety showers, eyewashes, fume hoods and other local ventilation, fire door, etc. according to periodic requirement with the Laboratory Space Coordinator (LSC) or designee.</p> <p>Provide inspection support for program controlled equipment at the request and funding of the RESL director.</p>	<p>Facilitate access to controlled lab areas for requested inspections.</p> <p>Inspect RESL program safety equipment, or request and fund FSDD personnel to perform inspections according to safety requirements.</p>
Program-requested maintenance and repair	<p>Act as a steward for tenants' requests and services for all issues. Provide a periodic summary of request status with assigned priorities to tenant.</p>	<p>Provide requests for repairs, improvements, or other services as necessary to the FSDD.</p> <p>LSC assists in resolving conflicts and work needs.</p> <p>Review periodic updates of status and inform FPM when a backlog or delay will impact tenant activities.</p>
Plan of the Day/Plan of the Week (POD/POW)	<p>Inform Tenant of requirements to support POD/POW and include Tenant activities on POD/POW, if requested.</p>	<p>Provide POD/POW information to FSDD personnel, as needed or as required.</p> <p>Notification to the REC scheduler needs to be made whenever the Tenant/program brings a vendor into the building to perform maintenance, repairs or installations, affecting the facility.</p> <p>Attend POD/POW meetings when appropriate and required for Tenant activities.</p>

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Functional Area	REC Facility Services Division Director	Tenant
<p>Janitorial Service</p>	<p>FSDD has overall responsibility for providing service for the IF-601 building until the janitorial contract in effect at the time of signing this TUA expires. .</p> <p>FSDD will provide janitorial service to the IF-601 and IF-683 labs upon request and funding from the tenant.</p>	<p>RESL has responsibility for providing janitorial services for the IF-601 office (after expiration of present contract – anticipated February 2012) and IF-683 labs.</p> <p>FSDD will provide this service for IF-601 and IF-683 if requested and funded.</p>
<p>Facility Maintenance</p>	<p>FPM ensures that maintenance practices are effective in maintaining safe and reliable facility operation.</p> <p>Ensure that maintenance of facility systems, components, and equipment is performed.</p> <p>Schedule pending maintenance activities with affected LSCs or line managers that may impact ongoing tenant operations and accommodate tenant schedule, if possible.</p> <p>If facility activities result in damages or negative impact on tenant systems, equipment, components, fixtures, or structures, arrange for repair or restoration to original or improved condition.</p>	<p>Maintenance of programmatic equipment will be the financial responsibility of RESL.</p> <p>FSDD can provide resources to perform maintenance and repairs at the Tenants request and funding for services on facility and/or program related equipment. FSDD approval is required for all facility related work performed.</p> <p>Review periodic updates of status and inform FPM when a backlog or delay will impact Tenant activities.</p> <p>If Tenant activities result in damages or negative impact on facility systems, equipment, components, fixtures, or structures, provide a funded work request to the FPM for repairs or restoration to original or improved condition.</p>

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Functional Area	REC Facility Services Division Director	Tenant
Facility Preventive Maintenance (PM) Routines	Ensure that routine PM maintenance of facility systems, components, and equipment is scheduled and performed as required including fire extinguisher, safety showers, eyewashes, fume hoods and other local ventilation, fire door, etc.	FSDD will provide resources to perform PM maintenance on Tenant-owned equipment per vendor and/or FCE recommendations at the Tenant's request and funding.
LockOut/TagOut (LOTO), Out of Service (OOS), and Temporary Service tags (TS)	Maintain logs for the facility. Perform LOTO/OOS/TS activities according to Tenant request, including maintenance of log entries.	Manage LOTO/OOS/TS program for Tenant equipment or request LOTO/OOS/TS services from the FSDD.
Building Grounds	FSDD has overall responsibility for building grounds upkeep and maintenance. Responsibilities may include such activities as, snow removal, insect and rodent control, or other services to meet specific needs of the facility and Tenant.	Report any deficiencies to FSDD personnel that impact the Tenant activities or personnel. Provide escort for services, insect and rodent control, or other services as needed.

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Functional Area	REC Facility Services Division Director	Tenant
Security	<p>Responsible for the interface with Safeguards and Security to ensure the level of property protection and access control is appropriate for the facility security plan.</p> <p>Ensure facility features and modifications are compliant with protection of Sensitive, Classified, and/or Special Nuclear Material interests.</p> <p>In conjunction with Security, determine issuance of facility security keys and authorize access to non-Tenant areas.</p>	<p>Comply with the PLN-1466, <i>INL General Physical Plan</i>, and LWP-11301, <i>INL Access Controls</i> and control access to laboratories or other Tenant space.</p> <p>Interface with the Physical Security Systems (PSS) Department to ensure the level of property protection and access controls is appropriate for the facility, to include security keys.</p> <p>Ensure Tenant personnel have appropriate clearances and are badged in accordance with INL access control requirements.</p> <p>Working with the PSS Department, each Tenant shall determine and put in place, as necessary, unique security requirements for their program and create and maintain a program Physical Security Plan, if necessary.</p>
Operational Security	<p>FSDD is responsible for protection of sensitive facility information and will interface with security as needed.</p>	<p>Tenant is responsible for protection of sensitive Tenant information and will interface with security, as needed.</p>

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Functional Area	REC Facility Services Division Director	Tenant
<p>Excess</p>	<p>FSDD is responsible to coordinate the disposal of excess equipment and materials owned by FSDD. The FSDD will interface with Property Management personnel to pick up and remove excess equipment for Tenants, if requested.</p> <p>The FSDD is responsible for maintaining safe working conditions within common-use facilities at INL and will dispose of abandoned equipment and materials, as necessary, to prevent blocking of egress or buildup of materials that create fire or other safety hazards.</p>	<p>Tenants are responsible for disposing of excess Tenant owned equipment and materials.</p> <p>The FSDD will interface with Property Management on the Tenant's behalf to support disposal of excess.</p> <p>Provide request and funding for the removal of excess equipment as needed.</p> <p>Before pickup, arrange for equipment to be uninstalled and materials to be properly packaged for disposal.</p>
<p>Regulated Waste Disposal</p>	<p>Responsible for standard industrial waste disposal.</p> <p>Responsible for establishing contracts for recycling, hazardous waste treatment and disposal, and radioactive waste disposal which the Tenant may utilize if characterization, segregation, and packaging meet INL procedural requirements.</p>	<p>Arrange for permitting and removal of regulated or hazardous waste and radioactive waste and provide information and funding, as needed, to complete disposition.</p>

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Functional Area	REC Facility Services Division Director	Tenant
Event and Issue Reporting	<p>FSDD will assist RESL as requested in making Initial Notification Reports (INR) generation and ORPS categorization following any event in the RESL.</p> <p>Provide qualified personnel to assist RESL in Occurrence Reporting and Processing System (ORPS) reporting .</p> <p>Arrange for trained personnel to address Tenant ORPS issues on request and receipt of funding from Tenant.</p>	<p>Tenant is responsible for ORPS initial notifications and ORPS reports.</p> <p>Note: PAAA does not apply to RESL, GO/GO elements of DOE.</p>
Assessments/Self-Assessments	<p>FSDD is responsible to schedule and conduct assessments of facility equipment and operating processes.</p> <p>At the Tenants request and expense provide support for Tenant related assessments.</p>	<p>Interface with FSDD personnel for facility-related assessments and other reviews, as required.</p>
Space Planning	<p>Facilities & Site Services (F&SS) is responsible for overall management of space at INL.</p> <p>The FSDD will interface with F&SS Office of Campus Development (OCD) organization to optimize use of available space and support Tenant(s) in identifying and obtaining space, as needed.</p>	<p>Use allocated space efficiently and informs the space utilization organization when any space is no longer needed, additional space is needed, or changes in space allocation are required.</p> <p>Provide requests to the FSDD for changes to occupied space, support equipment or services.</p>

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Appendix C

Technical Basis

**Facility Technical Basis for REC IF-601 Offices
 Laboratories for DOE-ID RESL Program**

1.0 Physical Description and Operating Design Limits of the Building.

IF-601 is primarily a single story office complex with a small support electronic laboratory. (A Prefabricated/modular structure).

1.1 Power Supply and Capacity

Supplied from a government owned 300 kVa transformers, IF-601 12.5Kv-480/277V transformer is fed by a 12.5 KV line. Power (480/277V) is provided to two 400 amp panels (M-1 and M-3) and one 120 amp panel (M-2). Power (225 Kva of 120/208V) is provided from two transformers fed from panel M-1 to panels A, B, and C.

1.2 Emergency Power

N/A

1.3 HVAC Capacity and Controls

The building has (6) air handling unit (AHU) with 7.5 ton air conditioners cooling capacity for each AHU. There are 25kW electric resistance heaters in each AHU. There a 4 air handlers in the RESL portion of the building and 2 in the BEA portion of the building.

All air handlers in the building utilize a Carrier direct digital control system that is part of an IRC/REC control system. IRC FPM controls time schedules and set point through this system and REC has on staff a full time Controls Specialist which supports this direct digital control system.

1.4 Compressed Air

N/A

1.5 Steam and Condensate

N/A

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1.6 Potable Water

Four-inch diameter connects to the IRC Potable water system via IF-703.

1.7 RO/DI Water

N/A

1.8 Manifold Gas Supply and Capacity

N/A

1.9 Vacuum System

N/A

1.10 Fire Protection

Wet Pipe (1) – 20,000 sq ft, overhead sprinklers entire building with a six-inch diameter dual systems. The primary system is connected directly to the city water that goes through an underground electric fire pump station (IF-703) north and west of IF-601. A backup system is connected to building IF-635 and the stored water tank there.

1.11 Effluent Management and Controls Systems

N/A

1.12 Air and Liquid Sampling and Monitoring

N/A

1.13 Floor Load

250 PSF

1.14 Cranes/Hoists/Lifts

N/A

1.15 Rollup Doors and Pits

N/A

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1.16 Hood

N/A

1.17 Eye Wash and Emergency Shower

N/A

1.18 Fire Zone Defined

The building is outfitted with fire extinguishers, pull alarms and a fire alarm system. The fire alarm alarms concurrently in the building and at CF.

1.19 Chemical Limits

Refer to Appendix A. Contact the Facility Fire Protection Engineer and the Chemical Custodian for detailed chemical limits.

1.20 Communication & Security Systems

This building has a standard public announcement and paging system. There are currently 3 key card exterior doors that can be used to access the building. BEA personal have access to the northwest door and the east door. DOE employees have access to all three doors. There is an interior keycard door that separates the north portion (BEA) and south portion (DOE) of the building. DOE will have access to the north portion of the building.

1.21 Other

Restrooms are in the north portion of the building (BEA area). Restrooms will be utilized by all building occupants.

1.22 Confined Space Table

N/A

1.23 Waste – Sanitary

A 4-inch sewer line feeds the 8-inch line that goes directly into the Idaho Falls city sewer system.

1.24 Telephone Service

Data network (175 pairs) is supplied from IF-602.

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**Facility Technical Basis for REC IF-683
 Laboratories for DOE-ID RESL Program**

1.0 Physical Description and Operating Design Limits of the Building.

1.1 Power Supply and Capacity

Power is supplied from a government owned 750 kVA transformer. IF-683 12.5Kv-480/277V transformer is fed by a 12.5 KV line. 480/277V power is provided A 1200 amp, 480/277 volt distribution panel identified as MCC-A. This building main electrical distribution panel feeds all air handlers, fans, air compressor, UPS as well as a 300kVA 480v delta to 120/208v step down transformer that supplies 120/208 volt powers to 9 electrical panels in the building.

1.2 Emergency Power

A 40 kVA UPS is installed in room 127 that supplies power to electrical panels PP-8 and PP-9. Wiring for a future generator is in place.

1.3 HVAC Capacity

AHU-1 is one primary 25 ton DX cooling AHU which provides cooling and heating to the building. It utilizes natural gas for heating and the heating is supplemented by SCR duct heaters for individual labs and rooms in the building. Three other AHUs provided conditioned make-up air to the building. These units (AHUs 1, 2 and 3) have 20 ton cooling capacity, natural gas heat as well as supplemental SCR heaters. AHUs 5,6,7 and 8 provide cooling to rooms 127, 139, 140 and 142.

1.4 Compressed Air

Air cooled Kaaeser model AS20 ,20 HP, 480 volt compressor with a discharge pressure of 160 psi with a capacity of 77 cfm. There is a 100 gallon receiver tank which supplies an 1 ½” line leaving the mechanical room to piping throughout the labs in IF683

1.5 Steam and Condensate

N/A

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1.6 Potable Water

There is a 3” potable water line that connects to the IRC 6” potable water main just west of the transformer enclosure for IF-638. This water enters the building in room 112 (mechanical room). The inlet line then splits into two lines, one for potable water and one for lab water (non-potable), each line has it’s own isolation valve and backflow preventer.

1.7 RO/DI Water

A 1-1/2 in. demineralized water trunk line provides 10 gpm to labs in the facility. This system is supported by soft water conditioner, deionization tanks, carbon filtration, and a 220 gal storage tank.

1.8 Manifold Gas Supply and Capacity

There is a 250 gallon propane tank located on the south side of IF-601 from which a 1” line is routed into IF-683 on the southeast side of the building. This propane is distributed to labs throughout the building.

1.9 Vacuum System

A vacuum system is installed and piped to labs throughout the building

1.10 Fire Protection

A 10 in. fire main is provided from the city to the wet pipe sprinkler system installed throughout the IRC. A 6” fire line supplies the fire riser to this building. A series of 6 in. fire hydrants are located around the perimeter of the IF-683. The IRC fire water system consists of two diesel driven fire pumps, IF-731 supplied by the city water main and IF-732 supplied by four 50,000 gal underground water storage tanks. A complete supervised fire alarm system with both audible and visual alarm devices is installed throughout the facility.

1.11 Effluent Management and Controls Systems

None – There is a pit approximately 3’ x 3’ x 3’ located in room 127 through which exposed lab effluent piping is routed. Samples can be taken at this location.

1.12 Air and Liquid Sampling and Monitoring

N/A

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1.13 Floor Load

Typical concrete slab is 6" thick over granular material reinforced with #3 rebar at 16"o.c. Reference structural dwg 765741

1.14 Cranes/Hoists/Lifts

N/A

1.15 Rollup Doors and Pits

No Rollup doors. One pit in room 127 for effluent sampling

1.16 Hoods

There are 16 hoods designed for perchloric acid use located in labs 129 through 136 (2 ea per lab) and 5 hoods in labs 104, 105, 109, 111. These hoods are controlled by individual Trietek fume hood controllers which are monitored and accessed through the Carrier direct digital control system that is part of an IRC/REC control system. REC has on staff a full time Controls Specialist which supports this direct digital control system.

1.17 Eye Wash and Emergency Shower

Safety showers are located in most labs throughout the building.

1.18 Fire Zone Defined

The building is outfitted with fire extinguishers, pull alarms and a fire alarm system.

1.19 Chemical Limits

Refer to Appendix A. Contact the Facility Fire Protection Engineer and the Chemical Custodian for detailed chemical limits.

1.20 Communication & Security Systems

A standard public announcement / paging system is installed. This building has key-card access locks on the two doors. Door alarms alarm at the IF-683.

1.21 Other

N/A

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1.22 Confined Space Table

N/A

1.23 Waste – Sanitary

There is a separate sanitary waster system and process water system for IF683. A 4” sanitary line and a 4” process waste line converge just outside the southwest corner of the building. This line drains to a wastewater manhole just east of IF605 that connects to the city wastewater system east of IF731.

1.24 Telephone Service

New 100 pair cable installed from IF602 (IRC main dial room) for IF683. There is an existing 175 pair cable for IF601.

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Appendix D

Facility Equipment Responsibilities

Facility Equipment Responsibilities for REC IF-601 Offices and IF-683 Laboratories for DOE-ID RESL Program

Equipment Description	Facility	Comments
Gantry Material Hoist		
Deionizer / Water (used for sample preparations)	X	
Demineralization / Soft Water	X	
Potable Water	X	
Eyewash Station	X	
Industrial Drains	X	
Sanitary Waste Drains	X	
UPS Power Distribution/System	X	
Communications and Alarm System	X	
Oxygen Distribution/Monitoring System	X	
Fire Sprinkler System and Potable Extinguishers	X	
Instrument Air System	X	
Electrical System	X	
Diesel Generator for Backup Power		
HVAC System	X	
Steam and Condensate System		
Cooling Water System		
Manifold Gas System		
Effluent Management and Control System		
Alarm System	X	
Fume Hoods	X	
Building Structures and Systems	X	
Laser System Interlocks		
Tenant Owned/Leased Equipment		
Bottled Gas Systems		

Idaho National Laboratory

Conformed thru Modification 310

<p>TENANT USE AGREEMENT BETWEEN FACILITY MANAGEMENT, RESEARCH AND EDUCATION CAMPUS (REC) AND THE DEPARTMENT OF ENERGY-ID (DOE-ID) RADIOLOGICAL AND ENVIRONMENTAL SCIENCES LABORATORY (RESL) AT THE INL RESEARCH COMPLEX (IRC) IF-601 AND IRC IF-683 FACILITIES</p>	<p>Identifier: IAG-IF-683 Revision: 0 Effective Date: 06/29/2011</p> <p style="text-align: right;">Page: 34 of 37</p>
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Equipment Description	Facility	Comments
Liquid Nitrogen		
Propane Distribution System	X	
Plant Air and Vacuum System	X	
Building Natural Gas System	X	
Argonne Distribution System	X	Tenant responsible to fund & fill Tank FCDD responsible to maintain tank and system.

Note: Tenant responsibility begins downstream of electrical outlets or disconnect switch on electrical systems, valves or shutoffs on piping systems, and dampers and flexible duct connections on venting/vacuum/exhaust systems.

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Appendix E

Special Conditions

Special or Unique Tenant Conditions Needed for REC IF-601 Offices and IF-683 Laboratories for DOE-ID RESL Program

Special Tenant needs/considerations, operating boundaries	Check all applicable areas
Structure	
Electrical / GFCI, Process Ground Tester	
Need for Backup Power	
Work Space Environment	
Waste Disposal	
Shipping/Receiving	
Security / Secret NSI	
Redundancy/Backup	
Permits/Authorization Agreements / Explosive Use Permit, Explosive Site Plan (EC)	
Hazards Inventory/Explosives	
Extraordinary ESH&Q Support / Explosives Subject Matter Experts	
Pressurized Systems	
Mechanical	
Steam	
Air	
Sewer/Sanitary	
Water, Potable	
Water, Service	
Water, DI	
Fire Protection	
Data, Communications and Alarms / Secured Network	
HVAC	
Warm and Cold Drains	
Furnishings and Support Equipment	
Tenant-Installed Equipment, Systems and Components	
Fume Hoods	
Other (specify) – Metal Dumpsters	

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<p>TENANT USE AGREEMENT BETWEEN FACILITY MANAGEMENT, RESEARCH AND EDUCATION CAMPUS (REC) AND THE DEPARTMENT OF ENERGY-ID (DOE-ID) RADIOLOGICAL AND ENVIRONMENTAL SCIENCES LABORATORY (RESL) AT THE INL RESEARCH COMPLEX (IRC) IF-601 AND IRC IF-683 FACILITIES</p>	<p>Identifier: IAG-IF-683 Revision: 0 Effective Date: 06/29/2011 Page: 36 of 37</p>
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Appendix F

Acronyms

BEA	Battelle Energy Alliance	INR	Initial Notification Report
CCA	Criticality Control Area	IRC	Idaho Research Center
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	LOTO	LockOut/TagOut
CFR	Code of Federal Regulations	LLW	Low Level Waste
DI	Dematerialized	LTHC3	Less than Hazard Category 3
DOE-ID	Department of Energy – Idaho	LSC	Lab Space Coordinator
EM	Emergency Management	LU	Laboratory Unit
EPOC	Emergency Management Point of Contact	LWA	Laboratory Work Area
FIMS	Facility Information Management System	LWP	Laboratory-wide Procedure
F&SS	Facility and Site Services	M&O	Management and Operations
FSDD	Facility Services Division Director	MBA	Mass Balance Area
FM	Facility Management	NE	Nuclear Energy
FPM	Facility Project Manager	NEPA	National Environmental Policy Act of 1969
GOGO	Government-Owned and Government-Operated	NFPA	National Fire Protection Association
HAD	Hazard Assessment Document	NNSS	Nevada National Security Site
HC3	Hazard Category 3	OCD	Office of Campus Development
HVAC	Heating Ventilating Air Conditioning	OOS	Out of Service
IBC	International Building Code	ORPS	Occurrence Reporting and Processing System
ICARE	Issue Communication and Resolution Environment	OSHA	Occupational and Safety Health Administration
INL	Idaho National laboratory	PAAA	Price-Anderson Amendments Act
		PDD	Program Description Document

Idaho National Laboratory

<p>TENANT USE AGREEMENT BETWEEN FACILITY MANAGEMENT, RESEARCH AND EDUCATION CAMPUS (REC) AND THE DEPARTMENT OF ENERGY-ID (DOE-ID) RADIOLOGICAL AND ENVIRONMENTAL SCIENCES LABORATORY (RESL) AT THE INL RESEARCH COMPLEX (IRC) IF-601 AND IRC IF-683 FACILITIES</p>	<p>Identifier: IAG-IF-683 Revision: 0 Effective Date: 06/29/2011</p> <p style="text-align: right;">Page: 37 of 37</p>
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- POD Plan Of the Day
- PM Preventive Maintenance
- REC Research and Education Campus
- RESL Radiological and Environmental Sciences Laboratory
- RMA Radiological Material Area
- RO Reverse Osmosis
- RPP Radiological Protection Program
- RWP Radiological Work Permit
- SAA Satellite Accumulation Area
- SAD Safety Assessment Document
- SAR Safety Analysis Report
- SME Subject-Matter Expert
- SQG Small Quality Generator
- TAA Temporary Accumulation Area
- TST Temporary Service Tags
- TUA Tenant Use Agreement
- WGS Waste Generator Services



Department of Energy

Idaho Operations Office
1955 Fremont Avenue
Idaho Falls, ID 83415

June 5, 2014

Product Manager Abrams
SFAE-GCS-ABCT-A (H. Brad Hodge, Lt. Colonel)
6501 E. 11 Mile Road, Bldg. 229
Warren, MI 48397-5000

SUBJECT: Addendum 8 to the Memorandum of Understanding (MOU) Between Department of Army (DA) Product Manager (PM) Abrams and Department of Energy Idaho Operations Office (DOE-ID) on the Operations of the Specific Manufacturing Capability (SMC) (PS-SMC-14-009)

Dear Lt. Col. Hodge:

My staff prepared an update to the MOU for the "Workscope for the Heavy Armor Program" between the DA PM Abrams and the DOE Idaho Operations Office. This MOU has been coordinated with members of your staff for completeness for this review and approval process. I concur that the updated Addendum 8 is sufficient to delineate responsibilities and authorities between our two organizations to carry out the work scope for the SMC facilities. The Addendum 8 will represent the current working relationship between the DOE-ID and PM Abrams and does not change the responsibilities stated in the original MOU. I am enclosing a signed copy of the Addendum 8 for your review and approval.

If you have any questions, please call Jeff Shadley of my staff on (208) 526-5005.

Sincerely,

A handwritten signature in black ink, appearing to read "R. Provencher".

Richard B. Provencher
Manager

Enclosure

cc: Michael Martell, PM Abrams
Rose Ketchum, PM Abrams

Interagency Agreement Between
the
U. S. Department of the Army
Product MangerAbrams
and the
U. S. Department of Energy
Idaho Operations Office

I. PURPOSE

This Agreement, upon acceptance by the Department of Army (DA) Product Manager Abrams (PM ABRAMS) and the Department of Energy (DOE), Idaho Operations Office (the Parties), becomes Addendum 8 to the Memorandum of Understanding effective on February 5, 1985, and hereby revises, replaces and supersedes Addendum 7 dated December 2009. Addendum 8 becomes effective, in its entirety, upon the date of execution by both Parties. The Parties hereby agree, except to the extent addressed and carried forward in Addendum 8, that all tasks previously identified in Addendum 7 and its modifications, have been fully funded and have been completed to the satisfaction of the Parties.

II. AUTHORITY

Authority to enter into this Agreement is the Economy Act of 1932, as amended, (31 U.S.C. 1535).

III. SCOPE OF WORK

For the period as hereinafter set forth, the PM ABRAMS and the DOE shall furnish all the items necessary for, or incident to, the performance of the specific tasks herein identified and established by mutual consent of the Parties or added by written modifications to this Agreement.

A. Specifically, the Department of the Army, Product Manager ABRAMS will:

1. Provide the necessary funding to DOE for accomplishment of all activities related to the Abrams Tank Armor Program at the Idaho National Laboratory. These activities include, but are not limited to, the Specific Manufacturing Capability (SMC) Project for armor production (product, facilities, and equipment), engineering/design support for the DA at SMC or other DA/PM ABRAMS facilities, decommissioning and decontamination of facilities and equipment, contract termination, close out, disposal of program related information scrap and waste, and environmental cleanup and liabilities resulting from Army dedicated use facilities, and joint use facilities to the extent that Army work is a causal factor.

Such funding shall be on a full cost recovery basis, excluding depreciation.

Interagency Agreement No.
DE-AI07-89ID12865

ADDENDUM 8

DATED: May 2014

TO THE

INTERAGENCY AGREEMENT

TITLED

“MEMORANDUM OF UNDERSTANDING BETWEEN

THE

DEPARTMENT OF ARMY (DA) AND DEPARTMENT OF ENERGY (DOE)”

DATED FEBRUARY 5, 1985

“WORKSCOPE FOR THE ABRAMS TANK ARMOR PROGRAM”

2. PM ABRAMS is responsible for providing to DOE the scope of work for this project. PM ABRAMS will have the opportunity to review and comment upon the terms of that portion of the contract pertaining to the PM ABRAMS's scope of work to ensure that it satisfactorily meets PM ABRAMS's requirements.
3. Other DA or Department of Defense (DoD) work can be performed under this MOU as coordinated with PM ABRAMS to ensure no undue impacts to the Abrams mission or security requirements.
4. Review and provide input and oversight of the DOE contract for the operations of the SMC armor manufacturing and development facilities and activities.
5. Provide technical specifications for procurement of all critical armor materials.
6. Define delivery requirements for Armor Packages in a timely manner to permit planning for acquisition of materials, facilities and services.
7. Provide instructions for disposing or excessing of equipment no longer needed for production of Armor components.
8. Provide technical specifications for the Armor Packages being manufactured in the form of a "Requirements Document", hereinafter referred to as the Technical Data Package (TDP). The TDP will include definitive information for final product units in the form of drawings and specifications, a description of the general manufacturing processes and a definition of product quality requirements. Final approving authority of the TDP shall be the responsibility of PM ABRAMS.
9. PM ABRAMS and DOE will process formal changes to the TDP through an Engineering Change Process.
10. Be responsible for Product Configuration Management.
11. Provide written guidance, authorization and scope of work for all PM ABRAMS funded activities.
12. Retain title to and ownership of all depleted uranium metal inventories associated with the Abrams Tank Armor Program.
13. Accept title to and ownership of finished product units and test assemblies upon receipt of delivery at destination.
14. Accept nuclear material accountability upon receipt of material from the Idaho National Laboratory (INL).

15. Participate in the DOE Performance Incentive process concerning SMC operations, as desired, by reviewing the Performance Incentive Evaluations for the Abrams Tank Armor Program work, providing comments/input.
16. Determine that periodic performance testing of finished product units is acceptable prior to shipment of product from DOE to the site for tank armor integration (including, but not limited to: the Joint System Manufacturing Center-Lima and the Anniston Army Depot.) If units meet TDP requirements but fail periodic performance testing, the PM ABRAMS shall establish a course of action regarding disposition of units already produced as well as changes to be made on future units.

In addition to items 1 through 15 above, PM ABRAMS may establish, with DOE concurrence, resident technical representatives at the DOE INL site. Duties and responsibilities of the resident technical representatives shall be jointly agreed to by both DOE and the PM ABRAMS.

B. Specifically, the Department of Energy will:

1. Contract for operation of the SMC armor manufacturing and development facilities and required supporting functions at the INL to produce armor in accordance with technical requirements provided by the PM ABRAMS. The SMC contract scope of work shall be structured to safely perform and support the programmatic work required to operate and maintain the armor manufacturing and development facilities.
2. DOE is responsible for incorporating terms and conditions into the Contract sufficient to accomplish the scope of work and requirements as provided by PM ABRAMS. DOE is responsible for selecting a contractor to perform the work and for ensuring that the contractor performs the work in accordance to the contract. DOE shall also ensure that the contractor retains a sufficient "trained and cleared" work force.
3. Where security ties to the PM ABRAMS are a factor, DOE will, upon written request from the PM ABRAMS, arrange for purchase and delivery to Army-specified locations, of special, classified, material in final configuration, in accordance with specifications and drawings provided by PM ABRAMS. Acceptance of such material by DOE shall be based upon conformance to drawing requirements, and upon the vendor's Certificate of Compliance for chemical and physical properties.
4. As requested by PM ABRAMS, assist in development of a systematic approach for disposing of all depleted uranium metal generated by the manufacturing process.
5. Maintain the TDP and issue revisions as directed by PM ABRAMS through an Engineering Change Process. Final approving authority of the TDP shall be the responsibility of PM ABRAMS.

6. Provide for purchase of, and maintain a program for, the protection, preservation, maintenance, repair and replacement of all Industrial Plant Equipment (IPE) and Operating Plant Equipment (OPE). For the purposes of this Agreement, IPE/OPE is defined as:

INDUSTRIAL PLANT EQUIPMENT (IPE) – Plant equipment with an acquisition cost of \$5,000 or more used for the purpose of cutting, abrading, grinding, shaping, forming, joining, testing, measuring, heating, treating, or otherwise altering the physical, electrical, or chemical properties of materials, components or end items entailed in manufacturing, maintenance, supply, processing assembly or research and development operations.

OPERATING PLANT EQUIPMENT (OPE) – That part of plant equipment regardless of dollar value which is used in or in conjunction with the manufacture of components or end items relative to maintenance, supply, processing assembly or research and development operations, but excluding items categorized as IPE.

7. Obtain written approval from the PM ABRAMS for major repairs or replacements to IPE/OPE estimated to exceed a cost of \$200,000. Management of these activities will follow sound project management principles.
8. Preserve and provide disposition for any item of IPE/OPE which is to be prepared for lay-away or removed from service with final disposition to be determined by and for the account of PM ABRAMS.
9. Employ appropriate and value added approaches to improve production and operating efficiency so as to reduce product cost.
10. Develop and implement a Quality Assurance Program Plan (QAPP) in accordance with established DOE policies. The QAPP will include applicable PM ABRAMS quality requirements and will be subject to review by PM ABRAMS.
11. Be responsible for the performance of examinations and tests as required by the TDP and special material specifications.
12. Certify that all final product units conform to TDP requirements.
13. Maintain certification records for all units and/or assemblies delivered to DA.
14. Transmit billings to:
DFAS-JAIA/CO
P.O. Box 182317
Columbus OH 43218-2317

IV. OTHER WORK

With PM ABRAMS approval, DOE may perform other work in the armor facility on a non-interference basis with armor production, and may perform commercial work on a rental basis in accordance with the Department of Energy Acquisition Regulations (DEAR) requirements and PM ABRAMS security requirements.

V. FACILITIES AND EQUIPMENT

For the purposes of this Agreement the word "Facilities" means:

Real property constructed for the Program, as well as fixtures required for the support of such facilities, except those herein defined as Industrial Plant Equipment (IPE) and Operational Plant Equipment (OPE).

DOE will retain title to and ownership of all "Facilities" as herein defined while title to all IPE and OPE shall vest in AM HBCT.

VI. PERIOD OF PERFORMANCE

The Period of Performance for this Agreement shall be four (4) years from the date of signature of Addendum 8 by both Parties. Both Parties may extend the Period of Performance upon agreement.

VII. FINANCIAL MANAGEMENT

DOE will provide such production, cost and financial reports as are mutually agreed to by the PM ABRAMS and the DOE, Idaho Operations Office's SMC Program Office. The SMC Program Office shall support all requests for information to the extent that the information is available within existing DOE budgets, costs and financial systems.

A. REPORTING

1. MONTHLY

- a. Current month and fiscal year-to-date financial data.
- b. Unit cost analysis to include future projections.
- c. Narrative analysis explaining deviations from baselines outside established thresholds.
- d. Monthly and cumulative production and R&D data and status of special procurements.

2. SEMI-ANNUALLY

A Five year funding profile.

B. BUDGET INFORMATION

1. An annual budget will be submitted to the Army for review and approval in accordance with INL fiscal year planning cycles and schedules agreed to by DOE and the Army.
2. A mid-year budget review will be held to provide status of current year spending.

C. OTHER WORK

Other DA/DoD authorized work will be performed on a full cost recovery basis or as directed by PM ABRAMS.

VIII. SECURITY

- A. DOE will provide security direction and oversight in accordance with the approved MOU between the DoD, DA and DOE including The National Security Administration Office of Security and Defense Nuclear Security (DOE/NNSA) (for Security Administration of Special access Programs) Dated February 9, 2004. In general the MOU requires security measures to be in accordance with the Joint Special Access Program (SAP) Implementation Guide (JSIG), JAFAN 6/0, JAFAN 6/4, JAFAN 6/9, Department of Army Special Access Program (SAP) Security Manuals AR 380-381, DOE Orders, standards, policies, procedures and practices. DOE will also conduct inspections and surveys in accordance with DOE regulations. When DOE and PM ABRAMS requirements vary, the minimum requirements of the more restrictive guidance will be followed. Variations to this approach can be documented and agreed to in writing between the DOE and DA.
- B. DOE will develop a security program based upon a Threat Statement provided by DA.
- C. DOE will use the Department of Army Special Access Program (SAP) Classification Guides and Program Security Guides.
- D. DOE will provide information copies of the following security-related documentation to DA and will obtain concurrence from DA as appropriate:
 1. Contracts, Orders, standards and criteria applicable to SMC operations
 2. Project specific procedures
 3. Local Operational Security (OPSEC) Plan
 4. SMC Counterintelligence Support Plan
 5. Automatic Data Processing (ADP) equipment accreditation
 6. Schedule of planned inspections
 7. Reports of reviews and inspections
 8. Audits and closure activities

- E. DOE will invite DA participation in all security reviews and inspections. Defense Security Service will provide oversight on all contractors in accordance with the JAFAN 6/0.
- F. DA will review and approve Program Access Requests for personnel determined by DOE to require access to the program(s).
- G. DOE will use a five (5) year reinvestigation period for personnel security clearances of personnel determined by DOE to require access to program(s) in lieu of the DOE policy of every ten (10) years (for "L" clearances). All DOE personnel are subject to a Tier Review IAW JAFAN 6/4.
- H. a. If DOE is notified or otherwise made aware of derogatory information (as that term is defined under 10 CFR § 710.8 and relates to 18 USC sections 792-798, 2153, 2381, 2385, and 2387-2388 Subversion and Espionage Directed Against the US Army (SAEDA) events) relating to an accessed individual, a representative of the DOE-ID Security Division (SD) will notify the DOE SMC Program Manager by the most expeditious means that such information exists. SD will provide the SMC Program Manager specific information concerning: (1) the derogatory information developed; and (2) any actions taken or anticipated with respect thereto. The DOE SMC Program Manager will notify the DA Program Security Officer (PSO) in accordance with SAP procedure guide.

b. If DA requests, DOE will allow DA PSO to review the subject's Personnel Security File for purposes of determining whether the subject's access to the SAP should be immediately suspended or otherwise limited pending final resolution of the derogatory information. Unless mutually agreed, copies of information in the subject's Personnel Security File will not be provided to DA. All information in this regard must be maintained by DA in a Privacy Act System of Records, and protected accordingly.
- I. DOE will provide counterintelligence support. DOE will provide support through the INL Counterintelligence Office for implementation of the SMC Counterintelligence Plan., including foreign visit/contact tracking and debriefings. DA will provide support to DOE through the 902nd Counterintelligence Unit as deemed necessary.
- J. DOE will report Security Incidents involving the loss, compromise, or possible compromise of ARMY or Department of Defense Component/OGA SAP information to the PSO no later than the next duty day.

IX. PROJECT OFFICERS

FOR THE DA
Product Manager
Abrams
Department of Army

FOR THE DOE
Program Manager
SMC Program Office
Idaho Operations Office


U.S. Department of Energy


X. MODIFICATION

This Agreement may be modified at any time by mutual consent of the Parties in writing.

XI. APPROVALS

The signatories appearing below are fully authorized to represent and commit their respective agencies in the execution of this addendum.


Lt. Col. Brad Hodge
Product Manager,
Abrams
U. S. Army
12 JUN 14
Date


Richard B. Provercher
Manager
Idaho Operations Office
U. S. Department of Energy
6/5/14
Date

Part III Section J, Attachment M

Other Site Agreements

DOE is a party to the following agreement(s)/plan(s), which contain requirements that may apply directly or indirectly to INL Contract work scope.

Section J Attachment M-1	1995 Settlement Agreement
Section J Attachment M-2	Federal Facility Agreement and Consent Order (FFA/CO)
Section J Attachment M-3	INL Site Treatment Plan
Section J Attachment M-4	Voluntary Consent Order
Section J Attachment M-5	Voluntary Consent Order Action Plan
Section J Attachment M-6	Agreement-In-Principle Between the Shoshone-Bannock Tribes and the United States Department of Energy
Section J Attachment M-7	Environmental Oversight and Monitoring Agreement
Section J Attachment M-8	Site Stabilization Agreement
Section J Attachment M-9	Site Jurisdictional Agreement

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ABBREVIATIONS, INITIALISMS AND ACRONYMS

α -MLLW	alpha mixed low-level waste
ACL	Analytical Chemistry Laboratory (ANL-W)
ADS	Activity Data Sheet
AEA	Atomic Energy Act
ALHC	Analytical Laboratory Hot Cell (ANL-W)
AMWTP	Advanced Mixed Waste Treatment Project
ANL-W	Argonne National Laboratory-West
APS	Atmospheric Protection System
ARA	Auxiliary Reactor Area
ARG-W	DOE Chicago Argonne Group-West
ARMF	Advanced Reactivity Measurement Facility
ATG	Allied Technology Group, Inc.
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR	Code of Federal Regulations
CFRMF	Coupled Fast Reactivity Measurement Facility
CH	contact handled
CMT	commercial mercury treatment
CPP	Chemical Processing Plant
CSSF	Calcine Solids Storage Facility
D&D	decontamination and decommissioning
DEQ	Division of Environmental Quality
DOE	Department of Energy
DOE-HQ	Department of Energy-Headquarters
DOE-ID	Department of Energy Idaho Operations Office
DRC	Dispute Resolution Committee
DSSI	Diversified Scientific Services Inc.
EBR-I	Experimental Breeder Reactor I
EBR-II	Experimental Breeder Reactor II
EDTA	ethylenediaminetetraacetic acid
EFL	estimated failure level
EM	Environmental Management
EPA	Environmental Protection Agency

INL Site Treatment Plan

ER	environmental restoration
ETR	Experimental Test Reactor
FCF	Fuel Cycle Facility
FDP	fuel dissolution process
FFC	Federal Facility Compliance (Act)
FMF	Fuel Manufacturing Facility
FY	fiscal year
GTP	generator treatment plan
GWTF	Groundwater Treatment Facility
HEPA	high-efficiency particulate air (filter)
HFEF	Hot Fuel Examination Facility
HLLW	high-level liquid waste
HLW	high-level waste
HTRE-3	Heat Transfer Reactor Experiment No. 3
HWMA	Hazardous Waste Management Act
IBC	interbuilding cask
IBO	Idaho Branch Office
ICP	inductively coupled plasma
ICPP	Idaho Chemical Processing Plant
IDAPA	Idaho Administrative Procedures Act
IDHW	Idaho Department of Health and Welfare
IET	Initial Engine Test
INL	Idaho National Laboratory
INTEC	Idaho Nuclear Technology and Engineering Center
IPA	isopropyl alcohol
ISV	in situ vitrification
LCAM	Life Cycle Asset Management
LDR	land disposal restriction
LET&D	liquid effluent treatment and disposal
LLM	low-level mixed
LLMW	low-level mixed waste
LLW	low-level waste
LSA	low specific activity (waste)
MIS	Mare Island Naval Shipyard

INL Site Treatment Plan

MLLW	mixed low-level waste
MTR	Materials Test Reactor
MTRU	mixed transuranic (waste)
MW	mixed waste
MWIR	Mixed Waste Inventory Report
MWSF	Mixed Waste Storage Facility
N/A	not applicable
NE	nuclear energy
NEPA	National Environmental Policy Act
NRC	Nuclear Regulatory Commission
NRF	Naval Reactor Facility
NWCF	New Waste Calcining Facility
OMB	Office of Management and Budget
PCB	polychlorinated biphenyl
PCE	perchloroethylene
PESI	Perma-Fix Environmental Services, Inc.
PEW	process equipment waste
PPE	personal protective equipment
PVC	polyvinyl chloride
PWTU	Portable Water Treatment Unit
Q	quarter
R&D	research and development
RCRA	Resource Conservation and Recovery Act
RH	remote handled
RTP	Remote Treatment Project
SAPC	safe agitene parts cleaner
SBW	sodium-bearing waste
SCDF	Subtitle C Disposal Facility
SCMS	Sodium Component Maintenance Shop
SEG	Scientific Ecology Group (Oak Ridge, Tennessee)
SPF	Sodium Process Facility
STP	Site Treatment Plan
SVA	Sorrento Valley, Building A
SWEPP	Stored Waste Examination Pilot Plant

INL Site Treatment Plan

TAN	Test Area North
TBD	to be determined
TCA	trichloroethane
TCE	trichloroethylene
TCLP	toxicity characteristic leaching procedure
TRA	Test Reactor Area
TRU	transuranic (waste)
TSA	Transuranic Storage Area
TSCA	Toxic Substances Control Act
TSCAI	TSCA Incinerator
USC	United States Code
VOC	volatile organic compound
VOG	vessel off-gas
WAC	waste acceptance criteria
WCS	Waste Control Specialists LLC
WERF	Waste Experimental Reduction Facility
WIPP	Waste Isolation Pilot Plant
WIR	Waste Incidental to Reprocessing Determination
WROC	Waste Reduction Operations Complex
WS	waste stream

NOMENCLATURE

CO ₂	carbon dioxide
gal/day	gallons per day
Hg	mercury
m ³	cubic meters
m ³ /yr	cubic meters per year
lb/hr	pounds per hour
Na	sodium
NaK	sodium potassium
Na ₂ CO ₃	sodium carbonate
NaOH	sodium hydroxide
nCi	nanocuries
nCi/g	nanocuries per gram
NO _x	nitrogen oxide
pH	acidity
ppm	parts per million
tons/yr	tons per year
wt%	weight percent

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IDAHO NATIONAL LABORATORY SITE TREATMENT PLAN

1. PURPOSE AND SCOPE

1.1 History

The United States Department of Energy (DOE) is required to prepare a plan for developing treatment capacities and technologies for each facility at which DOE generates or stores mixed waste, pursuant to Section 3021(b) of the Resource Conservation and Recovery Act (RCRA), 42 U.S.C. 6939c(b), as amended by Section 105(b) of the Federal Facility Compliance Act, Pub. L. 102-386 (1992) (FFC Act). Upon submission of the Idaho National Engineering Laboratory (INL) plan to the appropriate regulatory agency, the Idaho Department of Health and Welfare (IDHW), Division of Environmental Quality (DEQ), the FFC Act requires the DEQ to solicit and consider public comments, and approve, approve with modification, or disapprove the plan within six months. The regulatory agency is to consult with the U.S. Environmental Protection Agency (EPA) and any state in which a facility affected by the plan is located. Upon approval of a plan, the regulatory agency must issue an order requiring compliance with the approved plan.

1.2 Description of Plan

DOE has prepared this Site Treatment Plan (STP) for mixed waste at INL, which identifies how DOE proposes to treat INL's mixed waste with existing technologies or develop technologies where technologies do not exist or need modification.

1.3 Purposes

The purposes of this STP include:

1.3.1 Fulfilling the requirements of the FFC Act

1.3.2 Establishing an enforceable framework in conjunction with the Consent Order in which DOE will develop treatment capacities and technologies and treat or otherwise meet RCRA land disposal restrictions (LDRs) for all covered LDR mixed wastes currently in storage and to be generated or received in the future

1.3.3 Allowing for storage of current and projected covered LDR mixed wastes at the INL during the implementation and term of this STP and Consent Order.

1.4 Statutory and Regulatory Requirements

1.4.1 This STP is the statutorily required document described in the FFC Act Section 105(b) as a "plan for developing treatment capacities and technologies" to treat the mixed waste at INL pursuant to EPA standards promulgated pursuant to Section 3004(m) of RCRA. This STP is also discussed by DOE in the Publication Schedule for Submitting Plans for Treating Mixed Waste Generated or Stored at Each Site as Required by the Federal Facility Compliance Act of 1992, 58 Federal Register 17875 (April 6, 1993). This STP provides overall schedules with milestones and planning dates for achieving compliance with LDR, a general framework for establishment and review of milestones and planning dates and the conversion of planning dates into milestones, and other provisions for implementing the DEQ approved STP enforced under the Consent Order.

1.4.2 This STP and Consent Order fulfill the requirements contained in the FFC Act, RCRA Section 3021 and the Idaho Hazardous Waste Management Act (HWMA). Storage of covered waste at INL, pending the development of treatment capacities and technologies and completion of LDR requirements pursuant to the STP, shall be considered in compliance with this STP, Consent Order, and applicable RCRA and HWMA requirements.

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1.5 Definitions

Except as provided below or otherwise explicitly stated herein, the terms used in the STP shall have the same meaning as used in the HWMA, IDAPA 16.01.05.000 et seq., RCRA, and the EPA Rules and Regulations, 40 C.F.R. Parts 124, 260 through 268, and 270.

Atomic Energy Act or AEA: The Atomic Energy Act of 1954, as amended, 42 U.S.C. § 2011 et seq.

Authorized Representative: Any person including a contractor or subcontractor who is specifically designated by a Party to act on behalf of that Party in any capacity, including an advisory capacity.

Consent Order or Order: The document to which this approved STP is appended.

Covered Waste: Mixed waste covered by the STP, as described in Subsection 2.1 of the STP. The term includes new mixed waste streams included pursuant to the notice provision of Subsection 2.4 of the STP, entitled "Inclusion of New Mixed Waste Streams." The term does not include mixed waste excluded from coverage by Subsections 2.4.4 or 2.8.7 of the STP.

Days: Calendar days, unless otherwise specified. Any submittal under the terms of the STP that would be due on a Saturday, Sunday, or a state or federal holiday shall be due the following business day.

Deliverable: Any written document that is to be placed into a method of delivery (e.g., in the U.S. Mail) in satisfaction of milestones or other requirements under this STP or the Consent Order.

Department or IDHW: The State of Idaho Department of Health and Welfare, successor agencies, employees, and authorized representatives.

Division of Environmental Quality or DEQ: The Idaho Department of Health and Welfare, Division of Environmental Quality, successor agencies, employees, and authorized representatives.

INEEL Site Treatment Plan

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2 **DOE:** The United States Department of Energy, including headquarters (DOE-HQ), the Idaho
3 Operations Office (DOE-ID), the Argonne Group - West (ARG-W) of the Chicago Operations Office
4 (DOE-CH), the Idaho Branch Office - Naval Reactors (IBO), and any of DOE's contractors and
5 subcontractors at any tier, successor agencies, employees, and authorized representatives.
6

7 **EPA:** The United States Environmental Protection Agency, including Region 10, and any of its
8 successor agencies, employees, and authorized representatives.
9

10 **Fiscal Year or FY:** October 1 of one calendar year through September 30 of the following
11 calendar year. For example, Fiscal Year (FY) 1994 encompasses October 1, 1993, through September
12 30, 1994.
13

14 **High-Level Waste or HLW:** The term high-level waste or HLW shall have the meaning as set
15 for high-level radioactive waste in DOE Order 5820.2A or any successor DOE orders or amendments.
16 Under current DOE Order 5820.2A, HLW is waste material that results from the reprocessing of spent
17 nuclear fuels, including the liquid waste produced directly in the reprocessing, and any solid waste
18 derived from the liquid that contains a combination of transuranic waste and fission products at
19 concentrations requiring permanent isolation.
20

21 **HWMA:** The Idaho Hazardous Waste Management Act of 1983, as amended, Idaho Code §§
22 39-4401 to 4432 and its implementing rules in IDAPA 16.01.05.000 to .05.999.
23

24 **INL:** The Idaho National Engineering Laboratory, including facilities and installations in or
25 near Idaho Falls, Idaho and at the Site.
26

27 **INL Site or Site:** The site described in 54 Federal Register 48184 (November 21, 1989).
28

29 **Land Disposal Restrictions or LDR:** The limitations on land disposal and storage of waste set
30 forth in IDAPA §§ 16.01.05.011 (RCRA, 42 U.S.C. § 6924; 40 C.F.R. Part 268).
31

INEEL Site Treatment Plan

1 **LDR Mixed Waste:** Mixed waste that is restricted from one or more methods of land disposal
2 or storage under IDAPA § 16.01.05.011 (RCRA, 42 U.S.C. § 6924; 40 C.F.R. Part 268).

3
4 **LDR Requirement or Standard:** The level(s) or method(s) of treatment or management
5 specified in IDAPA § 16.01.05.011 (40 C.F.R. Part 268) for a waste subject to the land disposal or
6 storage restriction under Section 3004 of RCRA (42 U.S.C. 6924).

7
8 **LDR Waste:** Waste subject to the requirements of the land disposal and storage restrictions of
9 IDAPA § 16.01.05.011 (40 C.F.R. Part 268).

10
11 **Milestone:** Fixed, firm, and enforceable date as set forth in this STP and Consent Order.

12
13 **Mixed Waste:** Waste that contains both hazardous waste and source, special nuclear, or by-
14 product material subject to the Atomic Energy Act of 1954. 42 U.S.C. § 2011 et seq.; RCRA, 42 U.S.C. §
15 6903(41).

16
17 **Mixed Low Level Waste or MLLW:** The term mixed low-level waste or MLLW shall mean
18 waste that contains both low-level radioactive waste or LLW (source, special nuclear or by-product
19 material subject to the Atomic Energy Act of 1954, 42 U.S.C. § 2011 et seq.) and hazardous waste. The
20 low-level radioactive waste component of the MLLW shall have the same meaning as given to "low-
21 level waste" in DOE Order 5820.2A (i.e., currently defined in the order as "Waste that contains
22 radioactivity and is not classified as high-level waste, transuranic waste, or spent nuclear fuel or 11e(2)
23 by-product material as defined by this Order. Test specimens of fissionable material irradiated for
24 research and development only, and not for the production of power or plutonium, may be classified as
25 low-level waste, provided the concentration of transuranic is less than 100 nCi/g.") or any successor DOE
26 orders or amendments.

27
28 **New mixed waste stream:** Mixed waste generated onsite from a new or unique activity or
29 generated offsite not previously identified by an identification number and name in Section 4, Covered
30 Waste, of the STP.

INEEL Site Treatment Plan

1 **NEPA:** The National Environmental Policy Act, 42 U.S.C. § 4321 et seq., the Council on
2 Environmental Quality regulations implementing NEPA (40 C.F.R. parts 1500 - 1508), and the U.S.
3 Department of Energy's rules and regulations implementing that statute, (10 C.F.R. Part 1021).
4

5 **Offsite:** Any facility or installation other than INL.
6

7 **Onsite:** The INL, as that term is defined in this definition section.
8

9 **Planning Date:** The anticipated completion date of tasks which have not been designated as
10 milestones and which refer to events occurring beyond the DOE three year budget cycle planning period.
11 Planning dates are not requirements and are not enforceable.
12

13 **Project Manager:** Any official designated pursuant to Section 2.10, "Project Manager," of the
14 STP, to coordinate, monitor, or determine actions required by the STP or Consent Order.
15

16 **Radionuclide Separation:** For the purposes of the STP, the term "radionuclide separation" shall
17 mean the segregation of the radioactive portion of the mixed waste from the hazardous portion of the
18 mixed waste and may include storage (not RCRA treatment) of mixed waste for the purposes of allowing
19 for radioactive decay of the radioactive portion of the mixed waste to facilitate proper recovery,
20 treatment, or disposal in compliance with RCRA Section 3004(j).
21

22 **RCRA:** The Resource Conservation and Recovery Act (the Solid Waste Disposal Act), 42
23 U.S.C. § 6901 et seq., as amended by the Hazardous and Solid Waste Amendments of 1984, Pub. L. No.
24 98-616, 98 Stat. 3221 (1984), and the Federal Facility Compliance Act of 1992, Pub. L. No. 102-386, 106
25 Stat. 1505 (1992).
26

27 **Site Treatment Plan or STP:** This plan for developing mixed waste treatment technologies and
28 capacities for INL covered waste, as approved by DEQ pursuant to the FFC Act of 1992, Pub. L. No.
29 102-386, 106 Stat. 1505 (1992).
30

INEEL Site Treatment Plan

1 **Storage:** The term shall have the meaning set forth in Section 1004(33) of RCRA (42 U.S.C. §
2 6903(33)), 40 C.F.R. § 260.10, and IDAPA 16.01.05.000 et seq., the holding of hazardous waste for a
3 temporary period, at the end of which the hazardous waste is treated, disposed of, or stored elsewhere.
4

5 **Transuranic Waste or TRU Waste:** The term shall have the meaning set forth in Section
6 11(ee) of the Atomic Energy Act of 1954, as amended, 42 U.S.C. § 2014(ee) and DOE Order 5820.2A
7 (currently defined in the order as "radioactive waste that contains greater than 100 nCi/g of isotopes with
8 atomic numbers greater than 92 and half-lives greater than 20 years") or any successor DOE orders and
9 amendments.
10

1 **2. IMPLEMENTATION OF THE SITE TREATMENT PLAN**
2

3 This section establishes the mechanisms and procedures for administering and implementing the
4 treatment plans and schedules set forth in Section 5.
5

6 **2.1 Covered Matters**
7

8 The STP and Consent Order address LDR requirements pertaining to storage and treatment of
9 covered wastes, whether such wastes were generated or accumulated in the past, present, or future during
10 the pendency of the STP and implementing Consent Order. Covered wastes are those mixed wastes at
11 INL identified in Section 4 of the STP or added to the STP in accordance with Section 2.4, "Inclusion of
12 New Mixed Waste Streams," set forth below, except those mixed wastes which meet regulatory
13 requirements.
14

15 **2.2 Compliance Schedules**
16

17 **2.2.1** The STP provides overall schedules for achieving compliance with LDR requirements for mixed
18 wastes at INL. The schedules include those activities required to bring existing waste treatment facilities
19 or technologies into operation, and those required to develop new facilities and capacity for treatment.
20 The STP schedules show milestones and planning dates for treatment technologies and facilities for
21 covered wastes.
22

23 **2.2.1.1** For the purposes of the STP, milestones and planning dates shall identify dates or time
24 frames by which a certain activity (including an event such as submittal of a deliverable) is scheduled to
25 occur.
26

27 **2.2.1.2** Milestones are fixed, firm, and enforceable dates as set forth in the STP. Milestones
28 correspond to the categories of milestones set forth below in Section 2.2.3. Extensions or Revisions to
29 milestones are subject to approval, approval with modifications, or disapproval by the DEQ according to
30 the process and framework set forth in this STP. Milestones are set based on planning dates, in
31 accordance with the process in Section 2.2.2.
32

1 2.2.1.3 Planning dates are estimated events beyond the DOE three year budget cycle planning
2 period. Planning dates are not enforceable requirements. Planning dates shall be converted to milestones
3 in accordance with Section 2.2.2. DOE may, by written notification to DEQ, extend a planning date up
4 to a total of one year. Cumulative extensions of greater than one year to any planning date requires
5 approval by the DEQ and are subject to the Revision procedures (Section 2.5) of this STP.
6

7 **2.2.2 Milestones and Planning Dates**
8

9 2.2.2.1 For the purposes of this STP, milestones shall identify specific dates in a three year rolling
10 period consisting of the current fiscal year (FY) plus two additional fiscal years (FY+1 and FY+2) by
11 which a certain activity (including an event such as submittal of a deliverable) is scheduled to occur and
12 which will be enforceable as set forth in this STP. Planning dates are dates that are outside the three year
13 rolling period (e.g., FY+3, FY+4) and which are unenforceable estimated schedule dates.
14

15 2.2.2.2 Milestones will be established for a three year period consisting of the current fiscal year
16 plus two additional fiscal years (FY+1 and FY+2) as follows:
17

18 2.2.2.2.1 On the effective date of this STP and Consent Order, enforceable milestones are
19 established for a three year period. Additionally, planning dates are established for the outlying fiscal
20 years. Subsequently, after expiration of a fiscal year, FY+1 milestones shall be converted to current
21 fiscal year milestones. FY+2 milestones shall be converted to FY+1 Milestones. The FY+3 planning
22 dates shall be converted to FY+2 milestones. All conversions will be automatic and remain in effect,
23 unless DOE notifies the DEQ of any proposed changes. Such changes may be made necessary as DOE
24 identifies milestones and planning dates which cannot be accomplished within available funding levels.
25 Notification of proposed changes to current year milestones (and any adjustments to affected milestones
26 or planning dates) under this paragraph will be submitted in accordance with the applicable provisions of
27 this STP, including, as appropriate, Section 2.14 (Modification), 2.5 (Revisions) or 2.6 (Extensions)
28 within 45 days of DOE-ID, ARG-W, and IBO receiving their approved fiscal year funding allocation
29 from DOE-HQ. Notification of proposed changes to FY+1 and FY+2 milestones (and any adjustments to
30 affected milestones or planning dates) under this paragraph may be submitted in accordance with the
31 applicable provisions of this STP, including 2.14 (Modification), 2.5 (Revisions) or 2.6 (Extensions)
32 within a reasonable period after DOE-ID receives the President's budget request (for FY+1 milestones)
33 and the Office of Management and Budget (OMB) target level funding (for FY+2 milestones). Nothing

1 in this section precludes DOE from proposing or requesting changes to milestones or planning dates at
2 other times. All proposed changes to milestones are subject to Section 2.8, "Funding," and where the
3 Parties cannot agree, to Section 2.9, "Disputes."
4

5 **2.2.2.2** In establishing and adjusting milestones and planning dates pursuant to this section,
6 the following, at a minimum, will be considered: (a) funding availability as it is appropriated by
7 Congress, and the amount of funds provided to the INL by DOE in its Approved Funding Programs for
8 the current fiscal year for waste management activities and the President's budget for the next fiscal year
9 (FY+1) and associated out-year funding targets for environmental management for the INL, (b) sitewide
10 waste management priorities, (c) cost estimates, (d) new or emerging technologies, and (5) other new
11 STP information.
12

13 **2.2.2.3** Schedule dates shall be identified by reference to fiscal year quarters and the specific
14 date of the milestone or planning date shall be the last day of the quarter identified. The first quarter or
15 "1Q" shall have December 31 as its corresponding specific date. The second quarter or "2Q" shall have
16 March 31 as its corresponding specific date. The third quarter or "3Q" shall have June 30 as its
17 corresponding specific date. The fourth quarter or "4Q" shall have September 30 as its corresponding
18 specific date.
19

20 **2.2.3 Categories of Milestones and Planning Dates**

21

22 The categories of activities for which milestones and planning dates will be provided are the
23 different types of treatment approaches in the STP and are listed in Tables 2-1 through 2-3 and in other
24 provisions below. The categories of activities are based on Section 3021(b)(1)(B)(i), (ii) and (iii) of
25 RCRA, as appropriate.
26

27 **2.2.3.1 Plan Where Treatment Technologies Exist [RCRA Section 3021(b)(1)(B)(i)].** For
28 identified and developed treatment technologies for waste which will be treated on-site, the milestones
29 and planning dates identified in Section 5.1, "Schedules for Treatment Facilities for Which Technology
30 Exists," shall apply. When submitting new schedules under this subsection to DEQ for approval, DOE
31 shall propose appropriate milestones and planning dates from the categories of milestones in Table 2-1
32 below.
33

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**Table 2-1. SCHEDULE FOR WASTES WITH
EXISTING TREATMENT TECHNOLOGIES**

Categories of Milestones/Planning Dates:

- a) Submit RCRA permit applications to the DEQ
- b) Procure contracts
- c) Initiate construction
- d) Conduct systems testing
- e) Commence operations
- f) Submit for approval a schedule for processing backlogged and currently generated mixed wastes

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2.2.3.2 Plan Where Technologies Must Be Developed [3021(b)(1)(B)(ii)]. For some mixed wastes at INL, treatment technologies either have not been identified and/or developed or treatment technologies must be modified or adapted to be made applicable to INL mixed waste. For these wastes which will be treated on-site, the milestones and planning dates identified in Section 5.2, "Schedules for Treatment Facilities for Which Technology Exists but Needs Adaptation, or for Which No Technology Exists," shall apply. When submitting new schedules under this subsection to DEQ for approval, DOE shall propose appropriate milestones and planning dates from the categories of milestones in Table 2-2 below.

1

**Table 2-2. SCHEDULE FOR MIXED WASTE WITHOUT
EXISTING TREATMENT TECHNOLOGIES**

Categories of Milestones/Planning Dates:

- a) Identify funding requirements for identification and development of technology
- b) Identify and develop technology
- c) Submit treatability study exemptions
- d) Submit R&D (RD&D) permit applications
- e) Submit schedule for treatment in accordance with Table 2-1 or new schedule for development of alternative treatment technologies in accordance with this section.

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2.2.3.3 Requirements Pertaining to Radionuclide Separation [RCRA Section

5

3021(b)(1)(B)(iii)]. The FFC Act sets additional requirements in cases where DOE

6

intends to conduct radionuclide separation of mixed waste. No current plans exist to

7

separately conduct radionuclide separation of mixed wastes generated or stored at INL.

8

Should DOE determine to conduct radionuclide separation of such mixed wastes, DOE

9

will provide for such wastes which will be treated on-site those milestones and planning

10

date categories for submitting the required information as identified in Table 2-3,

11

"Schedule for Radionuclide Separation of Mixed Wastes," as follows:

12

Table 2-3. SCHEDULE FOR RADIONUCLIDE SEPARATION OF MIXED WASTES

Categories of Milestones/Planning dates:

- a) Submit estimation of the volume of waste generated by each case of radionuclide separation
- b) Submit estimation of the volume of waste that would exist or be generated without radionuclide separation
- c) Submit estimation of the costs of waste treatment and disposal if radionuclide separation is used, compared to the estimated costs if it is not used
- d) Submit assumptions underlying such waste volume and cost estimates

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2.2.3.4 Plan for On-Site Mixed Waste Streams to be Treated Off-Site. For on-site mixed waste which will be treated off-site, milestones and planning dates are identified in Section 5.3, "Schedules for Mixed Waste Streams Planned for Treatment Offsite." The final enforceable milestone for waste treatment of such waste under the STP shall be shipment to an off-site treatment facility. Residuals from the treatment of such waste may be returned to INL for storage pending disposal. DOE shall report information in the Annual STP Report of all waste shipments off-site to both DOE and commercial facilities for purposes of waste inventory review.

2.2.3.5 Plan for Mixed Waste Streams from Off-Site to be Treated On-Site. For mixed waste from off-site DOE facilities to be treated at INL as identified in Section 4.4, milestones and planning dates are identified in Section 5. Off-Site waste shall not be stored or disposed at INL prior to or following treatment except as specifically approved by the DEQ, provided, however, DOE has specifically reserved its rights as provided in paragraph 5.4 of the Consent Order incorporating this STP.

1 **2.2.3.6 Plan for On-Site Mixed Transuranic Waste.** For on-site mixed transuranic waste, to be
2 shipped to the Waste Isolation Pilot Plant (WIPP), the requirements, milestones and planning dates are
3 identified in Section 5.4, "Mixed Transuranic-Contaminated Waste Shipped to WIPP."
4

5 **2.2.3.7 Plan for On-Site Mixed Wastes not Sufficiently Characterized to Allow Identification**
6 **of Appropriate Treatment.** For new on-site mixed waste streams requiring characterization to identify
7 appropriate treatment milestones and planning dates, DOE shall submit a plan for characterization to the
8 DEQ for approval. The characterization plans are in Section 5.5, "Mixed Waste Streams Requiring
9 Further Characterization."
10

11 **2.3 Quarterly Meetings, Annual STP Updates, and Reports**

12

13 **2.3.1** This section provides a mechanism to: (a) communicate and exchange information about
14 schedule, technology development, funding and other concerns that affect the implementation of the
15 STP; (b) propose and establish the next ensuing milestones; and (c) update and propose changes or
16 Revisions to the STP.
17

18 **2.3.2 Quarterly Meetings** The Project Managers shall meet each quarter to discuss progress on
19 milestones and planning dates, any changes to waste streams and volumes, and other pertinent
20 information. In order to facilitate these meetings, DOE shall provide in writing to the DEQ Project
21 Manager notification of new waste streams, an updated STP errata sheet, notification of completed
22 milestones for the quarter, and a proposed agenda for the meeting. Proposed changes or revisions to the
23 STP may be included in writing for discussion at the meeting.
24

25 **2.3.3 Annual Update to the STP** By each November 15 after the fiscal year in which the STP is
26 approved, the DOE shall submit an Annual Update to the STP to the DEQ. The Annual Update to the
27 STP shall incorporate any covered waste volume changes, planning date extensions less than one year,
28 approved milestone extensions less than one year, or Revisions to the STP over the previous fiscal year.
29 Subsequent changes or Revisions to the STP during the current fiscal year shall be indexed on an STP
30 errata sheet to be submitted by DOE to the DEQ at least quarterly.
31

1 2.3.4 At the same time and along with the Annual Update to the STP, DOE shall submit to the DEQ an
2 Annual STP Report to the STP for review and comment. The Annual STP Report:

- 3
- 4 (a) Shall include and collate information from the Quarterly Project Manager meetings and
5 provide the DEQ with information to track progress on milestones and planning dates
6
- 7 (b) May include any proposed Extensions, Revisions (including proposed waste treatment
8 plans for new waste streams) or other changes to the STP
9
- 10 (c) Shall include information on DOE's funding for the STP and identify any funding issues
11 which may impact the STP schedules
12
- 13 (d) May include notification of planning date extensions and changes in covered waste
14 volumes
15
- 16 (e) May be a vehicle for input from the public, affected states, and EPA to be obtained if
17 Revisions to the STP are proposed.
18

19 2.4 Inclusion of New Mixed Waste Streams

20

21 2.4.1 This section establishes a method for including new mixed waste streams which are discovered,
22 identified, generated on-site, or to be received from off-site, and mixed waste streams which are
23 generated on-site through environmental restoration to the extent such wastes are to become identified as
24 a covered waste pursuant to Section 2.1 and as set forth in this section (including wastes covered by the
25 Federal Facility Agreement and Consent Order executed by the State of Idaho, DOE, and EPA on
26 December 9, 1991, which would otherwise not be covered by this STP pursuant to RCRA Section
27 3021(b)(1)(ii)).
28

29 2.4.2 DOE shall provide written notification to the DEQ as part of the Quarterly Meetings of new
30 mixed waste streams which have been discovered, identified, or generated and stored on-site, and mixed
31 wastes anticipated to be generated and stored at INL, which are expected to be covered wastes. Unless
32 and until the proposed waste treatment plan of Section 2.4.4 is disapproved by DEQ after exhaustion of
33 disputes procedures or appeal under Section 2.9, the mixed waste will be covered waste and subject to

1 the requirements of this STP (a) upon receipt of such notification, (b) when generated or stored at INL
2 after notification, or (c) such other time as specified in the notification, whichever is later. DOE shall
3 provide a description of the waste codes, waste form, volume, technology and capacity needs, and similar
4 pertinent information in the Quarterly Meetings. Any revisions to the STP Section 2.2, "Compliance
5 Schedules," shall be proposed in the Quarterly Meetings or the next regularly scheduled Annual STP
6 Report. The information provided pursuant to this subsection is subject to DEQ approval to the extent
7 provided for in Subsection 2.4.4.

8
9 **2.4.3.** If DOE cannot provide such information or schedules as required by 2.4.2 because of inadequate
10 characterization or it is otherwise impracticable, DOE shall submit for approval a proposed plan and
11 schedule for complying with Section 2.4.2, along with appropriate justification and supporting
12 information.

13
14 **2.4.4.** DOE shall submit a proposed waste treatment plan for new waste streams to the DEQ for
15 approval, approval with modification or disapproval under Section 2.13, "Submittal and Review of
16 Deliverables". The waste treatment plan ties the new wastes to facilities under this STP and may consist
17 of proposed changes to Section 4, "Covered Waste," of this STP. DOE may also propose changes or
18 revisions to the STP schedules to accommodate new waste streams. In the absence of DEQ approval,
19 new waste shall no longer be covered waste for the purposes of this STP after conclusion of Dispute
20 Resolution or appeal under Section 2.9.

21 22 **2.5 Revisions**

23
24 **2.5.1** A Revision to the STP requires, for those affected portions of the STP, publication of a notice of
25 availability to the public and consultation with affected states and EPA pursuant to this STP and Section
26 3021(b)(2) and (3) of RCRA. A Revision is (a) the addition of a treatment facility at INL or technology
27 development not previously included in the STP, (b) extension to a milestone or planning date for a
28 period greater than one year, or (c) waste treatment plans for a new waste stream. Changes in waste
29 volume of covered waste; extensions or changes to milestones or planning dates for a period less than
30 one year shall not, by themselves, constitute a Revision.

1 2.5.2 Revisions to the STP shall be made as follows:
2

3 2.5.2.1 DOE shall propose Revisions to the STP and provide supporting information for the
4 Revision in writing pursuant to Quarterly Meetings or in the Annual STP Report pursuant to Section
5 2.13, Submittal and Review of Deliverables. Under those procedures, DEQ may conditionally approve
6 the Revision or return it to DOE with comments so that changes can be made for resubmittal, or
7 disapprove it within 30 days. Approvals with modification or disapprovals may be subject to the
8 procedures of Section 2.9, Disputes. In reviewing the Proposed Revision, DEQ shall consider the need
9 for regional treatment facilities. Conditional approval of a Revision is a determination by the DEQ that
10 the Revision is acceptable subject to the results of public comment and consultation with affected states
11 and EPA.

12 2.5.2.2 Within 30 days subsequent to conditional approval, the DEQ shall publish a notice of
13 availability and make the proposed revision available to the public for review and comment and to
14 affected states and EPA for consideration and consultation. Revisions shall be approved or approved
15 with modification or disapproved by DEQ within 6 months after DEQ's receipt of the Proposed Revision.
16 Any approval with modifications or disapproval of the Proposed Revision shall include supporting
17 explanation and information. DOE shall have 30 days to discuss the approval with modifications or
18 disapproval with DEQ. If agreement is not reached on the proposed modifications in this 30 day period,
19 the procedures of Section 2.9, Disputes, will apply.
20

21 2.5.3 To the extent practicable, comments from the public, affected states, and EPA on the
22 conditionally approved Revisions will be obtained in conjunction with the Annual STP Report.
23 However, if a conditionally approved Revision is proposed to become effective before it could be
24 addressed in the regularly scheduled Annual STP Report, the DEQ shall publish a Notice of Availability
25 and consult with affected states and EPA, as appropriate, within 30 days of such conditional approval. In
26 the event that the final approved Revision differs from the conditionally approved Revision after public
27 comment and consultation, DOE shall not be subject to enforcement actions for interim activities
28 conducted in accordance with the conditionally approved Revision.
29
30

2.6 Extensions

2.6.1 A milestone may be extended or a planning date may be extended for a period of greater than one year upon receipt of a timely request for extension where good cause exists. Any request for an extension shall be made to the DEQ in writing prior to the milestone or planning date. The written request shall be provided to DEQ's project manager and shall be part of the Quarterly Meetings or Annual STP Report as practicable. The written request shall specify:

- (a) The milestone or planning date sought to be extended;
- (b) The length of the extension sought;
- (c) The good causes(s) for the extension; and
- (d) Any related milestone or planning date that would be affected if the extension were granted.

2.6.2 Good cause for an extension includes, but is not limited to:

- (a) Inadequate funding after DOE complies with Section 2.8, Funding.
- (b) A delay caused by DEQ's failure to meet any requirement imposed under the STP or Consent order.
- (c) A delay caused by the good faith invocation of dispute resolution or the initiation of administrative or judicial action;
- (d) A delay caused, or which is likely to be caused, by the grant of an extension in regard to another milestone;
- (e) A delay caused by additional work agreed to by DOE and the DEQ;

- 1 (f) Circumstances unforeseen at the time this STP was prepared that significantly affects the
2 work required under the STP;
3
4 (g) Delay in review of a permit application;
5
6 (h) Inconsistency with the requirement of any other existing agreement, order, or permit
7 between DOE and DEQ; and
8
9 (i) Any other event or series of events mutually agreed to by DOE and the DEQ as
10 constituting good cause.
11

12 **2.6.3** Absent agreement of the DOE and the DEQ with respect to the existence of good cause, either or
13 both of them may seek and obtain a determination through the dispute resolution process, Section 2.9,
14 Disputes, whether or not good cause exists.
15

16 **2.6.4** For extension requests by DOE, the procedures of Section 2.13, "Submittal and Review of
17 Deliverables", shall apply. Pursuant to that provision, if the DEQ approves the requested
18 extension, the affected milestone shall be extended accordingly up to one year. Requested
19 extensions for more than one year may be conditionally approved as proposed Revisions.
20

21 **2.7 Satisfaction of Requirements and Enforceability**

22

23 **2.7.1** Deletion of Wastes - The requirements of the STP and Consent Order shall be satisfied with
24 regard to any covered waste upon DOE's notice to the DEQ and DEQ's concurrence under 2.7.3 of the
25 following:
26

- 27 (a) Completion of treatment pursuant to the STP;
28
29 (b) Shipment of such waste off-site for treatment, storage, or disposal;
30
31 (c) Changes to statute or regulation or determinations of the regulatory authority which
32 cause such waste to be no longer subject to the requirements of RCRA or the LDR
33 requirements of RCRA;

- 1 (d) Storage for the sole purpose of accumulating such quantities of covered wastes as are
2 necessary to facilitate proper recovery, treatment, or disposal in compliance with
3 HWMA and RCRA;
4
- 5 (e) Information demonstrating the waste meets the treatment standards of RCRA, Section
6 3004(m);
7
- 8 (f) Treatment in accordance with the conditions of an approved LDR treatability variance;
9 or
10
- 11 (g) Mutual agreement between DOE and the DEQ.
12

13 **2.7.2** The STP shall be satisfied either at such time as (1) there is no longer any mixed waste,
14 regardless of when generated, being stored or generated at the INL which does not meet LDR
15 requirements or (2) all mixed waste, regardless of when generated, at the INL is being stored, solely for
16 the purpose of accumulating sufficient quantities of mixed wastes as are necessary to facilitate proper
17 recovery, treatment, or disposal.

18 **2.7.3** DOE will notify the DEQ of such satisfaction in writing pursuant to the Quarterly Meetings or
19 Annual STP Reports. The DEQ shall approve or disapprove the notice in writing within 30 days. Any
20 disapproval by DEQ shall be subject to the provisions of Section 2.9, Disputes.
21

22 **2.8 Funding**

23

24 **2.8.1** DEQ shall have an opportunity to have input formulating the INL budget and setting the INL
25 budget priorities as set forth in this section and Section 2.2.2, Milestones and Planning dates. Nothing in
26 the STP affects DOE authority over its budget and funding level submissions. Further, any requirement
27 for the expenditure or obligation of funds by DOE established by the terms of the STP and Consent
28 Order requiring compliance with the STP would be subject to the availability of appropriated funds, and
29 no provision of the STP or Consent Order shall be interpreted to require the obligation or expenditure of
30 funds in violation of the Anti-Deficiency Act, 31 U.S.C. § 1341, as amended. In cases where the
31 expenditure or obligation of funds would constitute a violation of the Anti-Deficiency Act, the dates
32 established requiring the expenditure or obligation of such funds shall be appropriately adjusted.

33 **2.8.2** It is the expectation of the Parties that all obligations of DOE arising under this STP and Consent

1 Order will be fully funded. The Parties recognize that successful implementation of this STP and
2 Consent Order is dependent upon prudent use of resources and that resource requirements and constraints
3 will be considered during the work planning, budget formulation, and budget execution process. To
4 ensure the development of responsible budget requests consistent with the requirements of the STP and
5 applicable federal/state statutes, the Parties will work cooperatively and in good faith.
6

7 **2.8.3** DOE shall take all necessary steps to obtain sufficient funding to comply with the provisions of
8 this STP as set forth in this section through consultation with DEQ and submission of timely budget
9 requests.
10

11 **2.8.4** Pursuant to Section 2.10, the Project Managers will meet periodically and discuss projects being
12 funded in the current FY and any events or new information that may cause significant changes to
13 schedules or other issues relevant to activities being performed under this STP and Consent Order. DOE
14 shall provide projected and actual cost information regarding such changes for these meetings, to the
15 extent practicable.

16 **2.8.5** DOE shall consult with DEQ in formulating its annual INL Environmental Management (EM)
17 FY+2 budget request as set forth in this section.
18

19 **2.8.5.1** No later than 30 days prior to the submission of their budget requests to DOE-HQ, DOE-
20 ID, ARG-W, and IBO (as appropriate) shall provide DEQ with information or a briefing on the proposed
21 INL EM FY+2 budget allocation, including appropriate supporting documents. In the process of
22 formulating its annual FY+2 budget request, DOE may be subject to target funding guidance directed by
23 the Office of Management and Budget (OMB). The information or briefing will address the impacts of
24 such OMB target funding guidance.
25

26 DEQ agrees not to release confidential budget information to any other person or entity prior to
27 submission by the President of his budget request to Congress unless authorized by DOE or required to
28 do so by court order. DOE may seek to intervene in any proceeding brought to compel or enjoin release
29 of this information. If allowed to intervene, DOE shall assert its interest in, and the legal basis for,
30 maintaining the confidentiality of this information.

1 2.8.5.2 Before DOE-ID, ARG-W (through DOE-CH), or IBO submit their annual EM budget
2 request and supporting budget formulation documents, if any, to DOE-HQ, the Parties shall attempt to
3 reach agreement regarding work scope, priorities, schedules/milestones, and funding levels required to
4 accomplish the purpose of the STP and Consent Order. DEQ shall, to the extent practicable, provide
5 comments on the proposed budget request and proposed activities and make recommendations
6 appropriate to accomplish the intent of the STP, including those that cannot be accommodated within the
7 respective environmental management funding target level for the DOE-ID, ARG-W, and IBO.
8

9 2.8.5.3 DOE-ID, ARG-W, and IBO may revise their EM budget requests and supporting
10 documents, if any, to resolve the comments of DEQ to the extent agreed by the Parties or DOE otherwise
11 deems it appropriate.
12

13 2.8.5.4 DOE-ID, ARG-W (through DOE-CH), and IBO will submit to DOE-HQ their EM
14 budget requests with detailed budget formulation documents, if any, and shall forward with it the target
15 budget level funding and any unresolved issues regarding funding for additional or accelerated activities
16 submitted by DEQ, and any other unresolved issues raised by DEQ. If these issues are not subsequently
17 resolved prior to DOE's submission of its budget to OMB, DOE-HQ shall forward in conjunction with its
18 budget request any such unresolved issues and additional or accelerated activities, and related funding
19 information to OMB.
20

21 **2.8.6** Funds authorized and appropriated annually by Congress for EM activities (currently under the
22 “Defense Environmental Restoration and Waste Management”, and “Energy Supply, Research and
23 Development Activities” appropriation(s) in the Energy and Water Development Appropriations Act)
24 and allocated by the DOE Assistant Secretary for Environmental Management to INL waste management
25 activities or other specifically designated funds for INL waste management activities will be the sole
26 source of funds for activities required by this STP.
27

28 2.8.6.1 If funding has been requested as described in Subsections 2.8.4 - 2.8.5, and if
29 appropriated funds allocated to INL for waste management activities by the DOE Assistant Secretary for
30 Environmental Management are not available to accomplish the milestones and planned activities under
31 this STP and Consent Order, the Parties shall attempt to negotiate appropriate extensions under this STP.
32

33 2.8.6.2 If the Parties are unable to reach agreement, then the Parties shall use Section 2.9,

1 Disputes, to determine the extent that activities shall be adjusted or the length of the extensions for
2 milestones and planning dates in order to accommodate the INL FY funding allocation for waste
3 management activities. The Parties agree that, unless DOE-ID, ARG-W (through DOE-CH), or IBO has
4 not followed the procedures set out in Subsections 2.8.4 - 2.8.5, the dispute resolution procedure shall not
5 result in a decision requiring activities that DOE-ID, ARG-W, or IBO cannot accomplish given its FY
6 funding allocation for waste management activities. Failure to agree on adjustments to FY+1 or FY+2
7 milestones in the current fiscal year shall not prejudice DOE's right to request adjustments to these
8 milestones in subsequent fiscal years or to appeal any decision of the DEQ regarding such future
9 requests.

10
11 **2.8.7** If DEQ agrees or a court determines, after dispute resolution and exhaustion of administrative
12 appeals, that DOE funding is insufficient to meet any milestone and the Parties cannot agree on an
13 appropriate modification, the milestone shall be null and void and not subject to the remedy of specific
14 performance. However, any mixed waste associated with such milestone shall, subsequent to such
15 agreement or final determination, be deemed to not be covered waste under this STP, and DOE shall be
16 subject to administrative or judicial enforcement actions for storage and any other violation of RCRA or
17 HWMA with regard to such mixed waste.

18
19 **2.8.8** If the DOE-ID, ARG-W, or IBO takes steps, as set forth in this section, through consultation with
20 DEQ, this will constitute a good faith effort to comply with the requirements of this STP and Consent
21 Order. Subsequent receipt of less funding than submitted shall not constitute a knowing violation under
22 RCRA or applicable State law for purpose of criminal or civil fines and penalties.

23
24 **2.8.9** Nothing herein shall affect DOE's ultimate authority and responsibility to formulate and submit
25 to the President appropriate budget requests and to allocate appropriated funds to meet the DOE's
26 obligation and to serve the DOE's missions.

27 28 **2.9 Disputes**

29
30 **2.9.1** Except as specifically set forth elsewhere in the STP, any action which leads to or generates a
31 dispute regarding the STP or its revision is subject to resolution under this section. The dispute
32 resolution procedures of this section shall be followed and exhausted before pursuing any other legal
33 remedy in any other forum.

1
2 **2.9.2** DOE and the DEQ shall make reasonable efforts to informally resolve disputes as expeditiously
3 as possible at the project manager level. If resolution cannot be achieved informally, either Party may
4 elevate the dispute for resolution by requesting in writing to the other Party that the dispute be elevated
5 pursuant to this section. If resolution appears imminent, upon agreement of both Parties in writing, the
6 informal resolution period may be extended.

7
8 **2.9.3** When formal dispute resolution is initiated, the disputing Party shall submit to the other Party a
9 written Notice of Dispute specifying:

- 10
11 (a) the nature of the dispute;
12
13 (b) the work affected by the dispute;
14
15 (c) the disputing Party's position with respect to the dispute; and
16
17 (d) the information the disputing Party is relying upon to support its position.
18

19 The written Statement of Dispute shall be forwarded to both members of the Dispute Resolution
20 Committee (DRC).
21

22 **2.9.3.1** The DRC will serve as a forum for resolution of disputes for which agreement has not
23 been reached through the informal dispute resolution process. The DEQ representative on the DRC is the
24 Chief, DEQ's Operating Permits Bureau. The DOE representative of the DRC is the appropriate DOE-ID
25 Program Manager with responsibility for waste management.
26

27 **2.9.3.2** Following elevation of a dispute to the DRC, the DRC shall have thirty (30) days to
28 unanimously resolve the dispute and issue a written decision. If the DRC is unable to unanimously
29 resolve the dispute within this thirty (30) day period, the written Statement of Dispute from the disputing
30 Party (as described in Section 2.9.3) and a written formal position from the other Party shall be
31 forwarded within ten (10) days to the Administrator of DEQ for resolution.
32

33 **2.9.3.3** If either Party at the DRC level identifies issues at any time during the dispute resolution

1 process that are deemed pertinent to national policies or to the policies of the State of Idaho, either Party
2 may refer the dispute to the Administrator of DEQ for resolution pursuant to Section 2.9.3.4. Upon
3 agreement of the Parties at any point in the dispute process that resolution of a dispute is immediately
4 necessary to avoid, prevent, or respond to the emergency conditions, the dispute may be escalated to the
5 Administrator of DEQ for resolution pursuant to Section 2.9.3.4.

6
7 **2.9.3.4** Upon escalation of the dispute to the Administrator pursuant to this section, the
8 Administrator will review and resolve the dispute within thirty (30) days. Disputes escalated based on
9 emergency conditions, as set forth in Subsection 2.9.3.3 above, shall be resolved by the Administrator as
10 soon as reasonably possible. Before resolving the dispute, the Administrator shall meet and confer with
11 the DOE-ID Manager to discuss the issue(s) under dispute. Upon resolution, the Administrator shall
12 provide DOE with a written decision setting forth resolution of the dispute. The duties of the
13 Administrator set forth in this Subsection shall not be delegated.

14
15
16 **2.9.3.5** The DOE reserves the right to either accept the decision of the Administrator or to seek
17 administrative or judicial review of the decision under the Idaho Administrative Procedure Act.

18
19 **2.9.3.6** The thirty (30) day review periods mentioned above in Sections 2.9.3.2, and 2.9.3.4 may
20 be extended by the mutual agreement of the Parties, as necessary, to complete the resolution of a dispute.

21
22 **2.9.4** The pendency of any dispute under this section shall not affect DOE's responsibility for timely
23 performance of the work required pursuant to this STP, except that the time period for completion of
24 work affected by such dispute shall be extended for a period of time not to exceed the actual time taken
25 to resolve any good faith dispute in accordance with the procedures specified herein. All elements of
26 work required by the STP that are not affected by the dispute shall continue and be completed in
27 accordance with the applicable schedule.

28
29 **2.9.5** For issues involving areas under the responsibility or authority of the Argonne Group - West or
30 the Idaho Branch Office - Naval Reactors, representatives for those offices of comparable authority and
31 rank to the DOE-ID representatives shall be added or substituted in the dispute resolution process.

32
33 **2.9.6** In the event of organizational changes, representatives of comparable authority and rank shall be

1 substituted in the above procedures.
2

3 **2.10 Project Manager** 4

5 **2.10.1** Within ten (10) days of the effective date of the STP, DOE and the DEQ shall designate a Project
6 Manager. DOE and the DEQ shall each notify the other in writing of the Project Manager they have
7 selected. DOE shall also designate the DOE Project Manager's designee for ARG-W and IBO. The
8 DOE's Project Managers designees shall have authority and responsibility for addressing matters within
9 the cognizance of their respective offices, in coordination with the DOE Project Manager. Each Project
10 Manager shall be responsible for overseeing the implementation of the STP. Either the DOE or DEQ
11 may change its designated Project Manager by notifying the other in writing, ten (10) days before the
12 change, to the extent possible. To the extent possible, communications between the DOE and DEQ
13 concerning the terms and conditions of the STP shall be directed through the Project Managers. Each
14 Project Manager shall be responsible for assuring that all communications from the other Project
15 Manager are disseminated appropriately to that responsible Project Manager's organization.
16

17 **2.10.2** The Project Managers shall have authority or obtain the appropriate level of authority to act for
18 their respective agency to agree to changes to schedules and requirements, subject to the provisions of the
19 STP on Disputes and Revisions. The Project Managers shall meet quarterly (see Section 2.3.2) to discuss
20 progress and problems relating to all work under the STP. As a requirement of the agenda for each
21 meeting, the DEQ shall notify DOE of all potential issues or problems regarding compliance with the
22 STP. Additionally, the status of the curing of any previously identified problems or issues of compliance
23 shall be provided and discussed. Additional meetings may be requested by either Project Manager to
24 discuss issues, problems, or activities associated with this STP.
25

26 **2.10.3** Draft meeting minutes shall be prepared by DOE and provided to the DEQ within ten (10) days
27 of the meeting. DEQ approvals of deliverables under this STP and Consent Order may be documented in
28 the meeting minutes. Any changes to the minutes shall be provided to DOE in writing within fourteen
29 (14) days of receipt of the draft minutes for incorporation into the final minutes. Failure to provide
30 timely changes to the minutes shall constitute agreement. The final Project Manager's Quarterly Meeting
31 Minutes shall be prepared by DOE and submitted to DEQ.

32 **2.10.4** It is the intent of the DEQ and DOE that this notification and curing process shall be used to
33 avoid disputes to the extent possible.

1
2 **2.11 Notification**
3

4 **2.11.1** Unless otherwise specified, any report or submittal provided by DOE pursuant to the STP shall
5 be sent by first class mail, express mail, facsimile or hand delivered, with a certification of mailing or
6 confirmation of delivery, to the address of the DEQ Project Manager.
7

8 **2.11.2** Unless otherwise agreed in writing, one copy of all documents to be submitted pursuant to this
9 STP shall be sent to the Project Manager at the address stated below. Either DEQ or DOE may request
10 additional copies of any document submitted pursuant to this STP.
11

12 Project Manager
13 Idaho Department of Health and Welfare
14 Division of Environmental Quality
15 1410 N. Hilton
16 Boise, ID 83706
17

18 Project Manager
19 Department of Energy
20 Idaho Operations Office
21 850 Energy Drive
22 Idaho Falls, ID 83401-1563
23

24 **2.12 DOE's NEPA Review and FFC Act Implementation**
25

26 Changes in the schedules or other requirements of this STP may be required or warranted by the
27 public's comments upon or the analysis of environmental effects set forth in an Environmental
28 Assessment or an Environmental Impact Statement prepared by DOE pursuant to the National
29 Environmental Policy Act (NEPA) and its implementing regulations. The DEQ and DOE agree to
30 negotiate in good faith any resulting appropriate or necessary changes in this STP.
31

32 **2.13 Submittal and Review of Deliverables**

1 **2.13.1** DOE shall submit to the DEQ deliverables required by this Consent Order under this section
2 2.13. Deliverables or specific portions thereof are subject to either review and comment or approval.
3 Deliverables subject to review and comment under this subsection, as required or permitted under this
4 STP and Consent Order, include notification of new wastes, changes in volume of covered waste,
5 changes in planning dates up to one year, the Annual Updates to the STP and the Annual STP Report.
6 Where DEQ approval of a deliverable is expressly required in this Consent Order, the approval
7 provisions in this section apply. Deliverables which require approval include proposed Revisions,
8 extensions to milestones, extensions to planning dates greater than one year, treatment plans for new
9 waste streams, notices of completion of milestones, notices of satisfaction under section 2.7, and other
10 deliverables as specifically required by the terms of this STP. Requests or proposals which require
11 approval may be submitted as part of, or along with, the Annual STP Report and Quarterly Meetings.
12 Permit applications and NEPA documents shall not be subject to the procedures of this Section. Permit
13 applications shall be submitted and reviewed under applicable regulations and NEPA documents shall be
14 submitted and reviewed under the DOE regulations implementing NEPA. Each submittal of a
15 deliverable shall specify the milestone or other provision of this Consent Order requiring submittal of
16 that deliverable.

17
18 **2.13.2** Unless otherwise noted, each deliverable shall be transmitted directly to the DEQ Project
19 Manager.

20
21 **2.13.3** The DEQ will promptly review each deliverable submitted by DOE required to be approved
22 pursuant to this Consent Order, within the time-frames established in this section unless specifically
23 scheduled otherwise in the Consent Order. In the course of their review, the DEQ will consult with DOE
24 regarding the adequacy of each deliverable. Oral comments made during these discussions shall not
25 require a written response by the Parties.

26
27 **2.13.4** Deliverables which do not require DEQ approval under this Consent Order, shall be provided to
28 the DEQ for review and comment. In the event that DOE disagrees with the DEQ's comments, DOE
29 shall respond to the DEQ's comments in writing explaining the DOE's position. If DOE has not received
30 comments from the DEQ within 30 days of submittal of the deliverable, it will be deemed that the DEQ
31 has no comments. Disagreements concerning comments to deliverables that are not required to be
32 approved under this Consent Order will not constitute a dispute under Section 2.9 unless otherwise
33 agreed by the Parties.

1
2 **2.13.5** For any deliverable that requires DEQ approval under the provisions of this Consent Order, the
3 following procedures shall apply:
4

5 **2.13.5.1** The DEQ shall, within 30 days of receipt, take action as follows: (1) approve or
6 approve with modification, or disapprove the deliverable as submitted, or (2) return the deliverable to
7 DOE with comments so that changes can be made for resubmittal. Proposed Revisions approved or
8 approved with modification shall be deemed to be “conditionally” approved or “conditionally” approved
9 with modification pending final approval or approval with modification after public review and comment
10 and consultation with affected states and EPA pursuant to Section 2.5, Revisions. For proposed
11 Revisions that are conditionally approved with modification or disapproved, DOE may invoke dispute
12 resolution as provided in Section 2.9. The DEQ may extend the review period of this section by an
13 additional 30 days by notifying the DOE. This period may be further extended for an additional period
14 of time, as may be agreed to by the parties. Comments on the deliverable shall be provided with
15 adequate specificity so that DOE can make the appropriate changes to the document. To the extent
16 applicable, comments should refer to specific paragraphs of any sources of authority or references on
17 which the comments are based, and upon request of DOE, the DEQ shall provide a copy of the cited
18 authority or reference.
19

20 **2.13.5.2** If the DEQ fails to take one of the actions specified above within the time-frames
21 required by this Consent Order, DOE may initiate dispute resolution under Section 2.9. If the DEQ
22 extends the review period for a deliverable, any milestones or planning dates dependent upon the results
23 of deliverable review will automatically be extended an equivalent amount of time as the time taken
24 beyond the specified time-frame for review.
25

26 **2.13.5.3** In the event that the DEQ returns the deliverable to DOE with comments, within thirty
27 (30) days of receipt, DOE shall incorporate the comments and shall re-transmit the deliverable. DOE
28 may extend this period by an additional 30 days by notifying the DEQ. This period may be further
29 extended for an additional period of time, as may be agreed to by the parties. In the event DOE disagrees
30 with the DEQ's comments and the parties are unable to resolve their disagreement, DOE may invoke the
31 dispute resolution provisions of Section 2.9, Disputes.

3. INL TREATMENT FACILITIES

This section discusses the existing, planned, or commercial facilities, or other off-Site facilities for the treatment of mixed waste. Mixed waste streams to be treated in these facilities are discussed in Section 4, the schedules for design and operation of these facilities are included in Section 5 of this STP, and the identification and relationship of waste streams to treatment facilities are included in Section 6.

3.1 INL Treatment Facility Status

Table 3-1 identifies each of the INL facilities designated to treat mixed waste. The table provides the status for each of the treatment facilities along with the acceptable expected radionuclide-handling capabilities. The table also includes the status of facilities, based on Life Cycle Asset Management (LCAM), made pursuant to DOE-ID Order 430.1 A:

- **Existing, Operating, Treating Mixed Waste**—Existing system is currently operating and treating mixed wastes.
- **Existing, Planned to Treat Mixed Waste**—Existing system is not currently treating mixed waste streams. The system may be treating other waste (low-level, hazardous, sanitary, etc.) or may not be operating at this time but has begun cold testing.
- **Planned, DOE-Approved**—DOE-HQ has approved the mission need for the facility; the facility has, at a minimum, begun design but has not yet reached the construction phase.
- **Planned, DOE-Unapproved**—Some planning has been initiated (e.g., engineering/feasibility studies, functional design criteria) but has not yet received the approval of the mission need for the facility.

Table 3-1. INL Treatment Facilities.

Facility ID	Facility	System	Handling*	H L W	T R U	L L W	A L P H	Facility Status
IN-S150	Advanced Mixed Waste Treatment Project	CH TRU Treatment Unit	CH	N	Y	N	Y	Existing, Operating
IN-S030	INTEC HEPA Filter Leaching System (CPP-659)	Extraction - HEPA Filter Leach	B	Y	Y	Y	Y	Existing, operating as needed, treating mixed waste as needed
IN-S152A	Integrated Waste Treatment Unit (IW TU)	SBW Treatment Facility	B	N	Y	Y	Y	Planned, DOE approved under construction
IN-S152B	Calcine Disposition Facility	Calcine Disposition Facility	B	Y	Y	Y	Y	Planned, DOE Approved
AW-S007	Remote-Handled TRU Waste Disposition Project (RWDP)	Sort, segregate, open/melt/drain, deactivation, neutralization, water reaction, stabilization	RH	N	Y	Y	Y	Planned, DOE-approved operating, modification for sodium treatment planned
AW-S037	Sodium Process Facility (SPF)	Water Reaction (Na to NaOH)	CH	N	N	Y	N	Going through transfer to EM for future treatment of RH waste
AW-S038	Sodium Component Maintenance Shop (SCMS)	Deactivation, Open/Melt/Drain, Neutralization, Stabilization, Water Reaction	CH	N	Y	Y	Y	Existing, operating, treating mixed waste
	Debris Treatment and Containment Storage Building (CPP-659)	Decontamination	CH	N	N	Y	Y	Existing, Operating

* Handling Key: RH=remote handled
 CH=contact handled
 B=both

1 3.2 Description of Facilities Identified to Treat the MLLW at the INL

2 Facilities identified for MLLW treatment and the respective technologies employed at each are
3 described in the sections below.

4 3.2.1 Commercial Treatment Facilities

5 3.2.1.1 Waste Treatment Vendors and Treatment Capabilities.

6 Perma-Fix Environmental Services, Inc. (PESI) PESI owns and operates four licensed and
7 permitted mixed waste treatment facilities. All facilities operate under an NRC Agreement State
8 Radioactive Materials License and a RCRA Part B permit. Each PESI facility has a variety of
9 processes for the treatment of a wide range of mixed waste streams; however, final disposal occurs at
10 either Energy Solutions or Nevada National Security Site.

- 11 • Perma-Fix of Florida is located in Gainesville has unique capabilities for the treatment of
12 problematic mixed waste streams. The facility is licensed and permitted to treat a variety of
13 characteristic and listed mixed waste, soil, liquid, sludge, and debris to LDR standards.
- 14 • Diversified Scientific Services, Inc. (DSSI) facility is located in Kingston, Tennessee. It employs
15 thermal and non-thermal treatment technologies to treat high-organic (TOC) mixed waste
16 streams. Wastes are combusted in a licensed industrial boiler to ensure that the contaminants in
17 the waste are destroyed or bound to meet LDR standards.
- 18 • Perma-Fix Northwest is located in Richland, Washington. It is a nuclear waste processing facility
19 providing comprehensive low-level waste and mixed low-level waste processing services.
20 Radiological operation and health and safety aspects of facility operations are conducted in
21 accordance with a Radioactive Material License issued by the State of Washington. This license
22 authorizes Perma-Fix to receive, store, and treat specific quantities of liquid and solid radioactive
23 materials and waste from off-site generators as well as self-generated materials.
- 24 • The Materials & Energy Corporation (M&EC) is located in Oak Ridge, Tennessee. M&EC has
25 the capability to treat a wide variety of mixed waste. Six treatment processes are available to
26 treat both organic and inorganic mixed waste to meet LDR criteria.

27 Waste Control Specialists LLC (WCS)—WCS was formed in November 1995 and completed
28 construction of the initial phase of its facility in Andrews, Texas, for the processing, treatment, storage,

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1 and disposal of certain hazardous (RCRA), toxic (TSCA), and low-level radioactive wastes (LLRW).
2 WCS holds a Low-level Radioactive Waste Treatment, Processing & Storage License issued by the Texas
3 Department of Health. This license allows for the treatment, processing, and storage of low-level
4 radioactive wastes. WCS holds an Industrial Solid Waste and Hazardous Waste Storage, Processing, and
5 Disposal (RCRA) permit authorizing the treatment, storage, and land disposal of all classifications of
6 RCRA wastes. WCS is authorized by the EPA to store and dispose of TSCA waste. WCS has also
7 received CERCLA Offsite Rule Approval from the EPA. WCS offers treatment of mixed waste by
8 stabilization; however, it routinely utilizes outside technology vendors in situations where typical
9 solidification/oxidation technologies are not adequate.

10 **Energy Solutions**—Energy Solutions operates a treatment, storage and disposal facility in Clive,
11 Utah. Energy Solutions facility has been in operation since 1988. This facility operates under an NRC
12 Agreement State Radioactive Materials License and a RCRA Part B permit. Energy Solutions has also
13 received CERCLA Offsite Rule Approval from the EPA. Energy Solutions accepts NORM, low-level,
14 and low-level mixed waste for disposal. Treatment facilities are also in operation for the RCRA treatment
15 of solid and liquid mixed low-level waste prior to disposal. Current mixed waste treatment technologies
16 include stabilization, reduction/oxidation, deactivation, chemical fixation, neutralization, vacuum assisted
17 thermal desorption, macroencapsulation, and microencapsulation. Examples of waste routinely managed
18 for treatment include soil, concrete, sludge, resins, personal protective equipment (PPE), lead solids, ash,
19 and building debris.

20 Energy Solutions also operates a MLLW treatment facility in Oak Ridge, Tennessee, called the
21 Bear Creek Road Facility. The Bear Creek facility is the nation's largest licensed commercial LLRW
22 processing facility and offers innovative technologies for radioactive material volume reduction including
23 smelting, incineration and compaction with up to a 200 to 1 volume reduction.

24 **Nevada National Security Site**

25 The Mixed Waste Disposal Unit is located at the Nevada National Security Site (NNSS) Area 5
26 Radioactive Waste Management Site. The Mixed Waste Disposal Unit is RCRA-permitted and features a
27 multi-layer liner and collection system that drains any potential moisture away from the buried waste
28 containers. This technologically advanced cell became operational in December 2010 and replaces the
29 previous mixed low-level waste disposal cell which closed on November 30, 2010. In addition to
30 disposal, mixed low-level waste may be stored at the Area 5 Radioactive Waste Management Site in
31 accordance with a separate RCRA permit.

1 **3.2.2 Debris Treatment and Containment Storage Building (CPP 659)**

2 The Debris Treatment and Containment Storage Building is a RCRA-permitted treatment unit
3 that is comprised of decontamination cubicles, a spray booth, a decontamination cell, and a low-level
4 decontamination room. Several treatment technologies are currently used to treat debris in accordance
5 with the RCRA Debris Rule (40 CFR 268.45 [alternative treatment standards]). These treatment
6 technologies include water washing, chemical washing, high-pressure water and steam sprays, and
7 ultrasonic cleaning.

8 Currently, the Debris Treatment and Containment Storage Building has been modified to provide
9 greater flexibility for treatment options and capabilities. These modifications will provide treatment by
10 liquid abrasive and/or CO₂ blasting and bulk washing.

11 **3.2.3 High-Efficiency Particulate Air Filter Leach System**

12 Contaminated high-efficiency particulate air (HEPA) filters will be treated in the
13 RCRA-permitted HEPA Filter Leach System, which uses chemical extraction to remove radionuclides
14 and other hazardous constituents from used HEPA filters. This system can treat both MLLW and
15 transuranic-contaminated waste. After leaching, the filters should be ready for packaging for LLW
16 disposal. The leachate generated by HEPA filter leaching will be managed in the Idaho Nuclear
17 Technology and Engineering Center's (INTEC's) liquid radioactive waste management system (process
18 equipment waste [PEW], liquid effluent treatment and disposal [LET&D], and INTEC Tank Farm). The
19 HEPA Filter Leach System is now operating as required by waste generation.

20 **3.2.4 Remote-Handled Waste Disposition Project**

21 The Remote Handled (RH) Waste Disposition project is now part of the ICP Clean Up Project.
22 This project collects RH Waste from storage areas at the INL Site and prepares them for shipment and
23 disposal. This project will manage RH TRU and RH MLLW, There are contaminants within these waste
24 streams that present significant challenges, specifically PCBs and Sodium (Na and Nak), both of which
25 will require treatment prior to disposal.

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1 **3.2.5 Sodium Components Maintenance Shop**

2 The Sodium Components Maintenance Shop (SCMS) is an existing, operating mixed waste
3 treatment facility located at MFC on the INL. The SCMS has been used for many years to cleanse sodium
4 (Na) and sodium potassium alloy (NaK) contaminated operational components associated with the EBR-
5 II reactor and now is permitted to treat mixed waste.

6 The SCMS is a unique facility at the INL that is capable of treating and storing uniquely
7 configured containers of ignitable, corrosive, reactive, and toxic metal-contaminated mixed waste. The
8 SCMS employs a water wash (reaction) vessel, caustic carbonation system, neutralization tank, and
9 stabilization unit. Treatment technologies available at SCMS include deactivation, water reaction,
10 neutralization, open/melt/drain, repackaging, and stabilization.

11
12 **3.3 Description of Facilities Required to Treat the Mixed**
13 **Transuranic-Contaminated Waste at the INL**

14 Mixed Transuranic (MTRU) waste contains more than 100 nCi of alpha-emitting transuranic
15 isotopes per gram of waste with half-lives greater than 20 years. Alpha contaminated Mixed Low Level
16 Waste (α -MLLW) contains between 10 and 100 nCi of alpha-emitting transuranic isotopes per gram of
17 waste with half-lives greater than 20 years. DOE has historically managed α -MLLW and MTRU waste
18 together in the same storage areas/facilities at the INL and generally plans to treat and/or repack
19 wastes at the INL (both MTRU and α -MLLW) to meet the WAC for disposal at the WIPP for the legacy
20 waste noted in Table 4-2 and for newly generated MTRU waste noted in Table 4-2a. Contact Handled
21 mixed transuranic waste and α -MLLW are treated and managed at the Advanced Mixed Waste Treatment
22 Project (AMWTP). Remote Handled mixed transuranic contaminated waste will be treated and managed
23 in existing facilities at INTEC and SPF by the Remote Handled TRU Waste Disposition Project.

24 DOE no longer uses the designation α -MLLW for MLLW with transuranic contamination between
25 10 and 100 nCi per gram of waste. Instead, DOE now classifies all waste with 100 nCi/g or less of alpha-
26 emitting transuranic isotopes as MLLW. All newly generated covered MLLW will be identified and
27 tracked on Table 4-1 as applicable and appropriate.

1 As a result of processing transuranic contaminated waste as described in section 5.4, DOE expects
2 to identify or generate quantities of waste that will be appropriately managed as MLLW.¹ DOE is
3 currently repacking RH TRU waste at INTEC for shipment and disposal at WIPP in accordance with the
4 WIPP WAC.

5 **3.3.1 Remote-Handled Waste Disposition Project**

6 The Remote Handled (RH) TRU Waste Disposition project collects RH TRU Waste from storage
7 areas at the INL Site and prepares it for shipment and disposition at WIPP. This project will manage RH
8 TRU, RH MTRU, and RH MLLW at CPP 659, CPP 666 and SPF (MFC-799). DOE is developing a
9 treatment design for the SPF to treat the RH TRU that is mixed with Na and NaK.
10

11 **3.3.2 Advanced Mixed Waste Treatment Project**

12 The ultimate goal of AMWTP is to prepare for shipment Transuranic Storage Area (TSA) waste
13 and to produce final waste forms that are certified for disposal at the WIPP. The AMWTP is designed to
14 process approximately 65,000 m³ of primarily α -MLLW and transuranic contact-handled (CH) mixed
15 waste and radioactive waste from the TSA, plus an additional 20,000 m³ of waste (similar in content to
16 the 65,000 m³) during the first 13 years of operations. The remaining active volume of mixed waste
17 covered by this section is listed in Table 4-2. The TSA-stored waste slated for the AMWTP waste
18 management units is retrieved from storage, characterized for storage, treatment or direct shipment, stored
19 (if necessary), treated (as required), packaged, and certified for disposal at WIPP or determined to be
20 appropriately managed as MLLW as described in section 5.4².

21 **3.4 Description of Facilities Required to Treat Calcine and Sodium** 22 **Bearing Waste (SBW)**

23 The INL currently manages both calcine solids and sodium-bearing waste (SBW). The calcine
24 solids are considered to be mixed High Level Waste (HLW). The SBW is currently being assessed by
25 DOE for proper radiological waste classification. The Idaho High-Level Waste & Facilities Disposition,
26 Final Environmental Impact Statement (DOE/EIS-0287; September 2002) analyzed the environmental
27 impacts of alternative treatment disposal options for these wastes. In a December 2005 Record of
28 Decision, DOE decided to treat SBW using steam reforming technology. Until such time as regulatory

¹ See footnote 9 in Section 5.4, *infra*.

² See footnote 9 in section 5.4, *infra*.

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1 approvals are obtained, DOE will manage the waste for storage at the INL Site until a disposition path is
2 determined.

3 The current plan for the SBW at INTEC is pretreatment in the evaporator tank system and final
4 treatment in the Integrated Waste Treatment Unit (IWTU) followed by disposal at an off-Site facility. The
5 SBW may be further treated via the Hot Isostatic Pressing (HIP) treatment process if required to support
6 off-site disposal.

7 The current treatment plan for calcine solids is a Calcine Disposition Facility that will include, at
8 a minimum, retrieval from the bin sets and packaging capabilities. HIP treatment may be required
9 pending the WAC for the disposal facility. The packaged calcine will be stored on-Site pending shipment.
10 The SBW may be further treated via the HIP treatment process if required to support off-site disposal.

11

12 3.4.1 Calcine Disposition Facility

13 The Calcine Disposition Facility (CDF) will use the HIP process. The HIP treatment processes
14 the highly radioactive solid-granule calcine with additives that will convert the waste to a monolithic,
15 glass-ceramic waste form that can meet the most stringent standards of the *Civilian Radioactive Waste*
16 *Management System - Waste Acceptance System Requirements Document (WASRD)* (DOE 2008).

17 A petition to develop an LDR Treatment Standard for the HIP waste form under RCRA
18 regulation is being pursued. This will allow storage of the waste form at a RCRA regulated interim
19 storage facility or monitored geologic repository.

20
21 The selection of HIP completes the proposed action in the Idaho High-Level Waste & Facilities
22 Disposition Final Environmental Impact Statement published in September 2002 (DOE/EIS-0287). The
23 steps in the proposed action include:

- 24 • Prepare and treat the mixed HLW calcine solids with the HIP so they will be suitable for disposal
25 in a repository
- 26 • Treat and dispose of associated radioactive wastes
- 27 • Provide safe storage of HLW calcine destined for a repository
- 28 • Provide the capabilities for retrieval, packaging, and shipment of calcine solids from the Calcined
29 Solids Storage Facility.

1 **3.4.2 SBW Treatment Facility**

2 The IWTU is currently under construction for processing liquids and associated solids (SBW) at
3 INTEC into solid forms suitable for permanent disposal, consistent with the Idaho High-Level Waste &
4 Facilities Disposition Final Environmental Impact Statement published in September 2002 (DOE/EIS-
5 0287) and December 2005 Record of Decision. If additional treatment is required to support off-site
6 disposal, then the HIP treatment process will be used. The schedules for both the CDF and IWTU are
7 found in Section 5.

1 **4. COVERED WASTE**

2 This STP covers mixed waste stored, generated at, or shipped to the INL. This section of the STP
3 identifies those mixed wastes, both on-Site and off-Site, that are intended to be treated at the INL. Mixed
4 waste treated at the INL may include mixed low-level, transuranic contaminated waste, calcine solids and
5 SBW. Not all mixed waste at the INL is included in this STP. Newly generated mixed waste that is treated
6 within one year, consistent with current RCRA regulations, is not required to be covered by this STP. If a
7 waste will not be treated within the one-year time period, that waste is then added to the STP by the provision
8 found in Section 2.4, "Inclusion of New Mixed Waste Streams."

9 **4.1 Mixed Low-Level Waste Streams**

10 For purposes of the STP, MLLW is (a) mixed waste that is not HLW and (b) mixed waste that
11 contains 100 nCi/g or less of waste of alpha-emitting transuranic isotopes with half-lives greater than 20 years.
12 MLLW waste streams at the INL are identified in Table 4-1. Traditionally at the INL, α -MLLW (MLLW with
13 transuranic contamination between 10 and 100 nCi/g of waste) has been managed as MTRU waste and is
14 covered in Section 4.2 and listed on Table 4-2. However, DOE no longer uses the designation α -MLLW for
15 MLLW with transuranic contamination between 10 and 100 nCi/g of waste. Instead, DOE now classifies all
16 waste with less than or equal to 100 nCi/g of alpha-emitting transuranic isotopes as MLLW. All newly
17 generated covered MLLW will be identified and tracked on Table 4-1 as applicable and appropriate.²

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2. See footnote 9 in Section 5.4, *infra*.

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1 Table 4-1. Mixed low-level waste streams requiring treatment.

Waste Stream ID	Waste Stream Name	Current Storage Vol (m ³)	5-year Generation (m ³)
CH-ANL-179	SODIUM (CONTAMINATED) TIN BISMUTH	2.4898	0.0000
CH-ANL-180	SODIUM – LLW Contact Handled	26.9441	0.0000
CH-ANL-180	SODIUM Remote Handled	44.2700	0.0000
CH-ANL-182	SODIUM POTASSIUM NaK Contact Handled	2.0297	0.0000
CH-ANL-182	SODIUM POTASSIUM NaK Remote Handled	0.5000	0.0000
CH-ANL-506	SODIUM STORED IN BLDG 703 & OTHER	1.9873	0.0000
CH-ANL-553	WCA MIXED WASTE	0.4164	0.0000
CH-ANL-716	DEBRIS AND/OR SOLIDS W/HEAVY METALS	1.9600	1.0500
CH-ANL-722	LITHIUM HYDRIDE	2.3523	0.0000
ID-AMWTP-100	MIXED WASTE INCIDENTAL TO PROCESSING	14.6420	50.0000
ID-AMWTP-200	RECLASSIFIED MLLW FROM TRU	39.1400	0.0000
ID-AMWTP-300	MIXED LOW LEVEL WASTE FROM ANL	51.3040	0.0000
ID-INL-800	CLASS B&C WASTE	0.2649	0.000
ID-INL-801	CLASS A WASTE	0.0000	0.000
ID-INL-802	INTEC CLASS A WASTE	0.0000	0.000
ID-INL-803	AEROSOL WASTE	0.0000	0.000
ID-INL-804	TSCA WASTE	0.0000	0.000
ID-INL-805	INTEC CLASS B&C WASTE	1.2681	0.000
ID-TEC-175	INTEC LIQUID WASTE	33.0000	
ID-TEC-305	LLW APS HEPA FILTERS	0.0000	0.0000
ID-TEC-307	CONTAMINATED LABORATORY RESIDUE	0.0000	0.0000
ID-TEC-720	FDP HEPA FILTERS	0.0000	0.0000
ID-TEC-721	VOG HEPA FILTERS	0.0000	0.0000
ID-MFC-100	D&d Sodium/Nak	17.1689	0.0000
NR-NRF-665	PAINT CHIPS W/ PCB AND RCRA	0.0000	0.0000
NR-NRF-673	HEAVY METAL DEBRIS	0.0000	0.0000
	Total	239.7375	

2

4.2 Transuranic-Contaminated Waste Streams

The waste streams in Section 4.2 are transuranic contaminated waste and include both Mixed Transuranic Waste (MTRU) and Alpha contaminated Mixed Low Level Waste (α -MLLW). Mixed Transuranic Waste (MTRU) is mixed waste that contains more than 100 nCi of alpha-emitting transuranic isotopes per gram of waste with half-lives greater than 20 years. Alpha contaminated Mixed Low Level Waste (α -MLLW) is mixed waste containing between 10 and 100 nCi of alpha-emitting transuranic isotopes per gram with half-lives greater than 20 years.³ DOE has historically managed α -MLLW and MTRU waste together in the same storage areas/facilities at the INL and generally plans to treat and/or repackage wastes at the INL (both MTRU and α -MLLW) to meet the WAC for disposal at the WIPP. Under the WAC, WIPP only accepts MTRU and TRU waste that has been characterized with the WIPP Waste Analysis Plan (WAP) and that meets the treatment, storage, and disposal facility (TSDF) waste acceptance criteria as presented in the WIPP Hazardous Waste Facility Permit (HWFP). As a result, DOE is managing all waste contained in Table 4-2 as MTRU. During processing DOE expects to identify or generate waste that will be more appropriately managed as MLLW and processed in accordance with section 5.4.⁴

Table 4-2 lists includes all of the mixed transuranic contaminated waste streams subject to this STP that are also subject to the Settlement Agreement and Consent Order (referenced in STP Section 2.14, hereinafter "Settlement Agreement") requirement that DOE ship the waste out of the State of Idaho by December 31, 2018. Only MTRU waste generated after the date of execution of the SA is included in Section 4.2a.

The proposed INL facilities to treat mixed transuranic contaminated waste include the Remote Handled TRU Waste Disposition Project and AMWTP. If additional treatment is necessary to meet LDR requirements for α -MLLW, appropriate amendments will be made to this STP. PCB-contaminated transuranic contaminated waste will meet TSCA requirements identified in the WIPP WAC. The mixed RH transuranic contaminated waste will be managed by the Remote Handled TRU Waste Treatment Project for disposal to the WIPP.

³ As described in section 4.1, *supra*, DOE no longer uses the designation α -MLLW for MLLW with less than 100 nCi per gram of waste. The waste DOE previously designated as α -MLLW is contained in Table 4-2 and will be disposed of in accordance with 4.2 and 5.4, *infra*.

⁴ See footnote 9 in section 5.4, *infra*.

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Table 4-2. Transuranic contaminated waste streams designated for WIPP.

IDC	STP ID	Description	STP ID Total	Processed	Shipped	Reclassif ied MLLW
	CH-ANL-180T	SODIUM - TRU	3.01			
	CH-ANL-182T	SODIUM POTASSIUM - NaK - TRU	0.3			
	CH-ANL-241T	TRU-CD-HOT CELL WASTE	1.6600			
	CH0ANL-503T	TRU WASTE USED PRE- FILTER	0.2082			
	CH-ANL-505T	ALHC UPGRADE DECON DEBRIS	0.2082			
0	ID-RFO-000T	NOT RECORDED - UNKNOWN	4024.396	3.17		3.17
1	ID-RFO-001T	FIRST STAGE SLUDGE	2567.896	2247.387	2247.387	
2	ID-RFO-002T	SECOND STAGE SLUDGE	1639.184	1096.076	1096.076	
3	ID-RFO-003T	ORGANIC SETUPS, OIL SOLIDS	1533.184	511.724	511.724	
4	ID-RFO-004T	SPECIAL SETUPS (CEMENT)	327.54	249.068	153.488	95.58
5	ID-RFO-005T	EVAPORATOR SALTS	11.024			
7	ID-RFO-007T	BLDG 374 DRY SLUDGE	923.472	1160.157	1160.157	
10	ID-BTO-010T	RAGS, GLOVES, POLY	199.28			
20	ID-BTO-020T	NONCOMPRESSIBLE, NONCOMBUSTIBLE	168.328			
30	ID-BTO-030T	SOLIDIFIED GRINDING SLUDGE, ETC.	9.964			
40	ID-BTO-040T	SOLID BINARY SCRAP POWDER, ETC.	36.464			
90	ID-RFO-090	DIRT	28.62	2.544		2.544
100	ID-AEO-100T	GENERAL PLANT WASTE	0.424			
101	ID-AEO-101T	CUT UP GLOVEBOXES	0			
102	ID-AEO-102T	ABSORBED LIQUIDS	22.26			

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Table 4-2. (continued).

105	ID-AEO-105T	EMPTY BOTTLES AND ABSORBENTS	1.484			
106	ID-AEO-106T	SPECIAL SOURCE MATERIAL	0.212			
107	ID-AEO-107T	REMOTE-HANDLED WASTE	24.74			
110	ID-AEO-110T	RESEARCH GENERATED WASTE COMPACTIBLE & C	0.424			
111	ID-OFS-111T	RESEARCH GENERATED WASTE NONCOMPACTIBLE	832.524			
112	ID-RFO-112T	SOLIDIFIED ORGANICS	169.176	167.692	167.692	
113	ID-RFO-113T	SOLID LAB WASTE	16.96	16.324	16.112	0.212
114	ID-RFO-114T	SOLIDIFIED PROCESS SOLIDS	74.836			
116	ID-RFO-116T	COMBUSTIBLE WASTE	0.848	3.17		3.17
117	ID-RFO-117T	METAL WASTE	35.166			
118	ID-RFO-118T	GLASS WASTE	16.1171			
119	ID-RFO-119T	HEPA FILTER WASTE	65.508			
120	ID-AEO-120T	COMPACTIBLE AND COMBUSTIBLE WASTE	0.424			
121	ID-OFS-121T	DECONTAMINATION AND DECOMMISSIONING WAST	0.212			
122	ID-RFO-122T	INORGANIC SOLID WASTE	30.528			
123	ID-RFO-123T	LEADED RUBBER	65.932			
150	ID-INL-150T	LABORATORY WASTE	31.093			
155	ID-INL-155T	SCRAP	3.6			
157	ID-INL-157T	MISCELLANEOUS SOURCES	3.818			
161	ID-ANL-161	ANL-W ANALYTICAL CHEMISTRY LAB GLASSWARE	1.06			

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Table 4-2. (continued).

162	ID-ANL-162T	ANL-W FMF EFL Zr-U FUEL CASTING ALLOYS R	10.582			
163	ID-ANL-163T	ANL-W ACL COLD-LINE ABSORBED LIQUID, MIS	1.272			
201	ID-BCO-201T	NONCOMBUSTIBLE SOLIDS	8.904	43.697	1.06	43.637
202	ID-BCO-202T	COMBUSTIBLE SOLIDS	0.636			
203	ID-BCO-203T	PAPER, METALS, GLASS	5.512			
204	ID-BCO-204T	SOLIDIFIED SOLUTIONS	1.484			
241	ID-RFO-241T	AMERICIUM PROCESS RESIDUE	25.228			
290	ID-RFO-290	FILTER SLUDGE	0.212			
292	ID-RFO-292T	CEMENTED SLUDGE	115.328	424.077	424.077	
300	ID-RFO-300T	GRAPHITE MOLDS	410.22	459.116	459.116	
301	ID-RFO-301T	GRAPHITE CORES	7.632	1.472	1.472	
302	ID-RFO-302T	BENELEX AND PLEXIGLASS	4.664	41.002	0.848	40.154
312	ID-RFO-312T	COARSE GRAPHITE	1.908	1.4562	1.4562	
320	ID-RFO-320T	HEAVY NONSPECIAL SOURCE METAL	96.884	86.482	67.416	19.066
328	ID-RFO-328T	FULFLO INCINERATOR FILTERS	1.696	1.484	1.484	
330	ID-RFO-330T	DRY PAPER AND RAGS	1085.864	1680.834	1285.764	395.07
335	ID-RFO-335T	ABSOLUTE 8 X 8 FILTERS	27.536	16.918	16.072	0.846
336	ID-RFO-336T	MOIST PAPER AND RAGS	1584.064	261.016	94.412	166.624
337	ID-RFO-337T	PLASTICS, TEFLON, WASH, PVC	488.448	170.541	159.12	11.421
338	ID-RFO-338T	INSULATION AND CHEMICAL WARFARE SERVICE	53.636	65.63	35.828	29.802
339	ID-RFO-339T	LEADED RUBBER GLOVES AND APRONS	152.428	181.918	177.128	4.79
360	ID-RFO-360T	INSULATION	50.668	5.926	2.332	3.594
371	ID-RFO-371T	FIREBRICK	218.784	97.264	53.052	44.212

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Table 4-2. (continued).

374	ID-RFO-374T	BLACKTOP, CONCRETE, DIRT AND SAND	269.028	632.237	12.080	620.157
375	ID-RFO-375T	OIL-DRI RESIDUE FROM INCINERATOR	4.028			
376	ID-RFO-376T	CEMENTED INSULATION FILTER MEDIA	532.756	546.556	493.072	53.494
409	ID-RFO-409T	MOLTEN SALTS – 30% UNPULVERIZED	6.572			
414	ID-RFO-414T	DIRECT OXIDE REDUCTION SALT	1.06			
430	ID-RFO-430T	UNLEACHED ION COLUMN RESIN	6.148			
431	ID-RFO-431T	LEACHED RESIN	1.272			
432	ID-RFO-432T	LEACHED AND CEMENTED RESIN	60.42			
440	ID-RFO-440T	GLASS	301.89	187.329	173.884	13.445
441	ID-RFO-441T	UNLEACHED RASHIG RINGS	333.688	433.316	433.104	0.212
442	ID-RFO-442T	LEACHED RASHIG RINGS	261.82	122.844	122.844	
460	ID-RFO-460T	WASHABLES, RUBBER, PLASTICS	1.272			
463	ID-RFO-463T	LEADED RUBBER GLOVES AND APRONS	11.236	1.696	1.696	
464	ID-RFO-464T	BENELEX AND PLEXIGLASS	9.964	3.18	2.756	0.424
480	ID-RFO-480T	NONSPECIAL SOURCE METAL	541.66	2804.857	195.716	2609.141
481	ID-RFO-481T	LEACHED NONSPECIAL SOURCE METAL	189.104	230.562	130.368	100.194
490	ID-RFO-490T	CHEMICAL WARFARE SERVICE FILTERS	16.112	646.328	19.116	627.212
700	ID-RFO-700T	ORGANIC AND SLUDGE IMMOBILIZATION SYSTEM	1.908			
801	ID-MDO-801T	RAGS, PAPER, WOOD, ETC.	7.42	6.36	6.36	
802	ID-MDO-802T	DRY BOX GLOVES AND O- RINGS	25.652	66.568	66.568	

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Table 4-2. (continued).

803	ID-MDO-803T	METAL, EQUIPMENT, PIPES, VALVES, ETC.	38.16	30.942	27.772	3.17
805	ID-MDO-805T	ASBESTOS FILTERS	8.056	6.784	6.784	
810	ID-MDO-810T	GLASS, FLASKS, SAMPLE VIALS, ETC.	2.756	2.332	2.332	
811	ID-MDO-811T	EVAPORATOR AND DISSOLVER SLUDGE	0.848			
813	ID-MDO-813T	GLASS FILTERS AND FIBERGLASS	0.636	0.424	0.424	
814	ID-MDO-814T	CONTAMINATED MERCURY OR GRAPHITE CRUCIBL	0.424	0.424	0.424	
815	ID-MDO-815T	CLASSIFIED PARTS	0.424			
824	ID-MDO-824T	NONCOMBUSTIBLE EQUIPMENT BOXES	0	91.19		91.19
826	ID-MDO-826T	COMBUSTIBLE EQUIPMENT BOXES OR FLOOR SWE	1.06	33.940		33.940
827	ID-MDO-827T	COMBUSTIBLE EQUIPMENT DRUMS	1.908	1.484	1.484	
834	ID-MDO-834T	HIGH-LEVEL ACID	191.012	181.896	181.896	
835	ID-MDO-835T	HIGH-LEVEL CAUSTIC	355.1	329.66	329.66	
836	ID-MDO-836T	HIGH-LEVEL SLUDGE/CEMENT	885.736	795.212	795.212	
838	ID-MDO-838	<10 nCi/g NONCOMBUSTIBLE	0.212			
842	ID-MDO-842T	CONTAMINATED SOIL	0			
847	ID-MDO-847T	LSA < 100 nCi/g COMBUSTIBLE	157.093	76.533	75.896	0.637
848	ID-MDO-848T	LSA < 100 nCi/g NONCOMBUSTIBLE	28.408	40.280	40.280	
900	ID-RFO-900T	LOW SPECIFIC ACTIVITY PLASTICS, PAPER, E	74.2	21.162	4.664	16.498

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Table 4-2. (continued).

950	ID-RFO-950T	LOW SPECIFIC ACTIVITY METAL, GLASS, ETC.	23.32	344.741	0.212	344.529
970	ID-RFO-970T	WOOD	4.664	125.428	1.696	123.732
976	ID-RFO-976T	BLDG 776 PROCESS SLUDGE	1.484			
978	ID-RFO-978T	LAUNDRY SLUDGE	0			
980	ID-RFO-980T	FILTER SLUDGE	0.212			
9999	ID-RFO-9999T	PRE-73 DRUMS	7486.144			
BN510		Box and Bin Volume	34444.78	26008.293	25193.556	814.737
	ID-TAN-162	TAN DECON SOLVENT WASTES	1.06			
	ID-TAN-163	TAN DECON HEAVY METAL SOLIDS AND DEBRIS	0.3218			
	ID-TAN-200T	AMERICUM SOURCES	0.212			
	ID-TEC-151T	SOLIDIFIED FUEL SLUDGE	0.228			
	ID-TEC-156	CHEM CELL RIP-OUT	28.53			
	ID-TEC-172	HEPA FILTERS	0.2265			
	ID-TEC-670T	MTRU LABORATORY ANALYTICAL WASTE	20.1951			
	ID-TEC-699T	MIXED TRU WASTE FROM MWCY AND CSSF	17.316			
	ID-TRA-291T	TRU HEAVY METAL SLUDGE	2.5362			
	ID-TRA-526	RADIOACTIVE METALS (Cr, Cd, Pb, Ba, ETC.)	0.0757			
	ID-RWDP-RH	WASTE TO BE PROCESSED BY RWDP	8.5736			

1 **4.2a Newly Generated Transuranic-Contaminated Waste Streams**

2 The waste streams covered by this Section 4.2a consist of newly generated MTRU waste [i.e., MTRU
 3 generated after the effective date of the Settlement Agreement & Consent Order] and are listed on Table 4-2a.
 4 Newly generated MTRU wastes may result from such INL operations as fuel and scrap materials handling,
 5 research, waste handling and processing, and fuel reprocessing. All waste streams listed on the table are
 6 believed to be mixed wastes that contain more than 100 nCi of alpha-emitting transuranic isotopes per gram of
 7 waste with half-lives greater than 20 years and are therefore being managed as MTRU waste. DOE plans to
 8 process the MTRU waste on Table 4-2a in accordance with Section 5.4a after DOE has processed all of the
 9 waste on Table 4.2.

10 During processing, DOE expects to identify or generate waste that will be more appropriately
 11 managed as MLLW. If DOE identifies or generates MLLW as a result of processing the Table 4-2a waste, it
 12 will identify and track the waste in accordance with Section 5.4a.

13 The proposed INL facilities to treat mixed transuranic contaminated waste on Table 4-2a are the
 14 identical to those listed in Section 4.2. If DOE selects alternative facilities to treat the Table 4-2a waste, DOE
 15 will notify the State of Idaho and amend this STP as necessary.

16 Table 4-2a Newly Generated Transuranic contaminated Waste Streams Designated for WIPP

17 <u>IDC</u>	<u>STP ID</u>	<u>Description</u>	<u>STP ID</u>	<u>Total</u>	<u>Processed</u>	<u>Shipped</u>	<u>Reclassified MLLW</u>
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4.3 Calcine and Sodium Bearing Waste (SBW)

The INL manages both calcine solids and SBW. These waste streams are listed in Table 4-3. The calcine solids are considered High Level Waste. The Department is evaluating the disposition path for SBW at this time. Until such time as the regulatory approvals are obtained and a determination is made, the Department will manage the waste for appropriate storage at the INL site. The environmental impacts of alternative treatment and disposal options for this waste were analyzed in the Idaho High-Level Waste & Facilities Disposition, Final Environmental Impact Statement (DOE/EIS-0287; September 2002).

Table 4-3. Waste Calcine and Sodium Bearing Waste (SBW)

Waste Stream ID	Waste Stream Name	Current Storage Volume (m ³)	5-Year Generation (m ³)
ID-TEC-173	Sodium-Bearing Waste	3,168	0
ID-TEC-174	High-Level Waste Calcine Solids	4,386	0
ID-TEC-176	IWTU Steam Reform Product		
Totals		7,554	0

4.4 Off-Site Mixed Waste Streams Identified for Treatment by the INL

This section presents mixed waste stream information for wastes generated off-Site, which DOE proposes to ship and provide treatment pursuant to Sections 2.2.3.5 and 2.4 of the INL STP.

Information presented in this section is subject to change, as more information from off-Site sources becomes available.

Table 4-4 presents the name of the generating and/or shipping site, the Mixed Waste Inventory Report (MWIR) identification number, the waste stream name, and current stored volume, the projected five-year shipment volume, and the date the applicable waste treatment plan was approved by DEQ pursuant to Section 2.4.4.

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Proposals for shipment to the INL of the wastes listed in this section are subject to change based on the final treatment plans derived from waste characterization data submitted by off-Site generators and negotiations with the State of Idaho.

When a waste stream listed in Table 4-4 is removed from Table 4-4 under the provisions of Section 2.7.2, the waste stream will be added to Table 4-6.

Table 4-4 Off-Site Waste Streams Identified for Treatment at the INL.

WASTE STREAM ID	WASTE STREAM NAME	STORED WASTE VOLUME (m ³)	FUTURE GENERATED VOLUME (m ³ /5-year)	STORAGE APPROVAL DATE
LLNL Debris and Sludge (Campaign 2)	Lawrence Livermore National Laboratory (LLNL) waste		Proposed 100 m ³	Approved 11/2/2009 ⁵
SNL	Sandia National Laboratory (SNL) waste	0.848 m ³	Proposed 100 m ³	Approved 11/2/2009 ⁵
HNF	Hanford waste		Proposed 390 m ³	Approved 2/18/2010 ⁶
ANL-E	Argonne National Laboratory-Chicago waste (ANL-E)	14.84 m ³	Proposed 42 m ³	Approved 2/18/2010 ⁶
LBNL	Lawrence Berkeley National Laboratory (LBNL) waste	0.212 m ³	Proposed 4 m ³	Approved 5/10/2011 ⁷
NRD	NRD Limited Liability Corporation (LLC) (formerly known as Nuclear Radiation Development [NRD]) waste	18.44 m ³	Proposed 25 m ³	Approved 5/10/2011 ⁷

4.5 Pre- and Post-Treatment/Storage of Off-Site Mixed Waste

This section details the process that will be followed for tracking INL storage of off-Site mixed waste listed in Table 4-4 of the INL STP.

⁵ Memo, John Nicklas, BBWI, to Elizabeth Thiel, BBWI, "RE: STP Quarterly Report," April 15, 2010.

⁶ Letter, Brian R. Monson, Idaho Department of Environmental Quality, to Donald N. Rasch, U. S. Department of Energy, "Request to Add MTRU Waste from ANL-Chicago, IL and Hanford, WA to the INL Site Treatment Plan," February 18, 2010.

⁷ Letter, Brian R. Monson, Idaho Department of Environmental Quality, to Donald N. Rasch, U. S. Department of Energy, "Request to Add MTRU Waste from Lawrence Berkeley National Laboratory, Berkeley, CA and NRD LLC, Grand Island, NY to the INL Site Treatment Plan," May 10, 2011.

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1 Pursuant to Section 2.2.3.5 of the INL STP, approval by DEQ for up to six months pre- and
2 post-treatment storage of off-Site mixed waste listed in Table 4-4 of the STP is granted when the treatment
3 plans are approved by DEQ pursuant to Section 2.4. The approval date for each off-Site waste stream is listed
4 in Table 4-4. For purposes of defining the end of the first six months and beginning of the second six months,
5 treatment will be considered complete when the primary treatment step has been completed. The primary
6 treatment step is defined as the first step in the treatment train that renders the waste less hazardous and
7 excludes pre-treatment (sizing, repackaging, blending, etc.) as identified in the treatment plan in Table 6-2 of
8 the STP. As an example, incineration is considered the primary treatment step in the treatment train of
9 transport, open/segregate/repack, incineration, and stabilization. Macroencapsulation is the primary treatment
10 step in the treatment train of transport, open/segregate/repack, sizing, and macroencapsulation.

11 Off-Site waste storage for greater than six months pre- and post-treatment storage at the INL requires
12 additional approval by the DEQ. That approval is identified in paragraph (d) below and will be documented in
13 Table 4-4.

14 The following process will be used for notification and documentation:

- 15 (a) Subsequent to approval of the treatment plan by DEQ, DOE will notify the DEQ of the proposed
16 schedule for receipt and completion of the primary treatment of off-Site mixed waste, and shipment of
17 the treated waste and waste treatment residues off-Site at the quarterly meeting or, if necessary, no
18 later than one week prior to the shipment of the waste. This notification will be accomplished by
19 submittal of a new STP Table 4-5 that lists the waste streams and the corresponding dates.
- 20 (b) The DOE STP Project Manager will also orally notify the DEQ STP Project Manager of the actual
21 dates the off-Site mixed waste is received at the INL, when the primary treatment step listed in Table
22 6-2 is complete, and when the waste and treatment residues are shipped off-Site. This oral notification
23 will be made within two working days of the occurrence. Table 4-5 will be updated at each quarterly
24 INL STP meeting to reflect the actual dates if these dates differ from the dates proposed in Table 4-5.
25 When a waste stream has been shipped off-Site, it will be removed from Table 4-5 at the next
26 quarterly INL STP meeting.
- 27 (c) In the event delays beyond the control of DOE occur (such as treatment unit downtime, maintenance,
28 or transportation delays) that could impact the ability to meet the proposed schedule submitted in
29 Table 4-5, the DOE Project Manager will orally notify the DEQ STP Project Manager within five
30 days of knowledge of the delay. A modified Table 4-5 will be developed by DOE and submitted to the
31 DEQ in writing within 10 working days of the initial oral notification of the delay.

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- 1 (d) For off-Site mixed waste, which is in Table 4-4 of the INL STP, that requires greater than six month
2 pre- and post-treatment storage at the INL, approval by DEQ of the proposed schedule will be
3 obtained under 2.2.3.5 of the INL STP on a case basis through submittal of the proposed schedule
4 added to Table 4-5. The date the approval is obtained from the DEQ will be added to Table 4-4, which
5 will be updated as part of the quarterly INL STP meetings.

Table 4-5 Offsite Mixed Waste Streams Approved For Pre- and Post-Treatment Storage

WASTE STREAM ID	SITE NAME	WASTE REQUIRES > SIX MONTHS PRE- AND/OR POST-TREATMENT STORAGE	DATE RECEIVED P= Proposed A= Actual	DATE OF PRIMARY TREATMENT or SAMPLING P= Proposed A= Actual	DATE TREATED WASTES AND/OR TREATMENT RESIDUES SHIPPED OFFSITE P= Proposed A= Actual
SNL Waste	Sandia National Laboratory	Yes	A 12/20/10 A 3/26/11	A 3/15/11 A 6/22/11	A 9/7/11 Within 6 months of treatment or sampling Within 6 months of treatment or sampling
LLNL Debris and Sludge (Campaign 2)	Lawrence Livermore National Laboratory (LLNL)	Yes	TBD	Within 6 months of receipt	Within 6 months of treatment or sampling
HNF Waste	Hanford	Yes	A 6/16/2010-1/27/11	A 8/31/10- A 3/26/11	A 11/19/10 - A 6/27/11
LBNL	Lawrence Berkeley National Laboratory (LBNL)	Yes	A 6/5/11	A 7/21/11	Within 6 months of treatment
NRD	NRD Limited Liability Corporation (NRD, LLC) (formerly known as Nuclear Radiation Development [NRD])	Yes	A 6/27/11	A 8/23/11	Within 6 months of treatment

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WASTE STREAM ID	SITE NAME	WASTE REQUIRES > SIX MONTHS PRE- AND/OR POST-TREATMENT STORAGE	DATE RECEIVED P= Proposed A= Actual	DATE OF PRIMARY TREATMENT or SAMPLING P= Proposed A= Actual	DATE TREATED WASTES AND/OR TREATMENT RESIDUES SHIPPED OFFSITE P= Proposed A= Actual
ANL-E (INL AECHHM Lot 1, sludge)	Argonne National Laboratory-Chicago (ANL-E)	Yes	P October 2011	Within 6 months of receipt	Within 6 months of treatment or sampling
ANL-E (INL AECHDM, debris)	ANL-E	Yes	P October 2011	Within 6 months of receipt	Within 6 months of treatment
LANL MIN03 Lot 1*	Los Alamos National Laboratory (LANL)	Yes	A 9/23/10	A 2/17/11	A 7/27/11
LANL MIN04 Lot 1, Set 1*	LANL	Yes	A 7/30/11	Within 6 months of receipt	Within 6 months of treatment or sampling
LANL MIN04 Lot 1, Set 2*	LANL	Yes	A 7/30/11	Within 6 months of receipt	Within 6 months of treatment or sampling
LANL MIN02-V Lot 1*	LANL	Yes	P 2011	Within 6 months of receipt	Within 6 months of treatment or sampling
LANL Soils*	LANL	Yes	P 2011	Within 6 months of receipt	Within 6 months of treatment or sampling
LANL CIN03 Lot 1	LANL	Yes	P 2011	Within 6 months of receipt	Within 6 months of treatment or sampling
LANL MSGS03 Lot 1	LANL	Yes	P 2011	Within 6 months of receipt	Within 6 months of treatment or sampling
LANL MSGS04 Lot 1	LANL	Yes	P 2011	Within 6 months of receipt	Within 6 months of treatment or sampling
SR-AGNS-HOM Lot 1*	Savannah River Site (SRS)	Yes	A 5/10/11	P 11/10/11	Within 6 months of treatment or sampling
SR-W026-221F-HOM Lot 1*	SRS	Yes	A 5/10/11	Within 6 months of receipt	Within 6 months of treatment or sampling

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WASTE STREAM ID	SITE NAME	WASTE REQUIRES > SIX MONTHS PRE- AND/OR POST-TREATMENT STORAGE	DATE RECEIVED P= Proposed A= Actual	DATE OF PRIMARY TREATMENT or SAMPLING P= Proposed A= Actual	DATE TREATED WASTES AND/OR TREATMENT RESIDUES SHIPPED OFFSITE P= Proposed A= Actual
SR-W027-221H-HOM Lot 1*	SRS	Yes	P November 2011	Within 6 months of receipt	Within 6 months of treatment or sampling
SR-W027-235F-HOM Lot 1*	SRS	Yes	P November 2011	Within 6 months of receipt	Within 6 months of treatment or sampling
SR-MD SOIL Lot 2*	SRS	Yes	A 8/2/11	Within 6 months of receipt	Within 6 months of treatment or sampling
SR-MD-HOM-B Lot 1*	SRS	Yes	P July 2011	Within 6 months of receipt	Within 6 months of treatment or sampling
SR-MD-HOM-C Lot 1*	SRS	Yes	A 8/2/11	Within 6 months of receipt	Within 6 months of treatment or sampling
SR-SDD-HOM-A Lot 1*	SRS	Yes	P 2011	Within 6 months of receipt	Within 6 months of treatment or sampling
SR-SDD-HOM-B Lot 1*	SRS	Yes	P 2011	Within 6 months of receipt	Within 6 months of treatment or sampling
SR-SDD-HOM-C Lot 1*	SRS	Yes	P 2011	Within 6 months of receipt	Within 6 months of treatment or sampling
SR-321-HOM Lot 1*	SRS	Yes	P 2011	Within 6 months of receipt	Within 6 months of treatment or sampling
SR-SWMF-SOIL Lot 1*	SRS	Yes	P 2011	Within 6 months of receipt	Within 6 months of treatment or sampling
KEBASINOT.001*	Hanford	Yes	P 2011	Within 6 months of receipt	Within 6 months of treatment or sampling
RLM216Z 9S*	Hanford	Yes	P 2011	Within 6 months of receipt	Within 6 months of treatment or sampling
RLM325D.002*	Hanford	Yes	P 2011	Within 6 months of receipt	Within 6 months of treatment or sampling

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WASTE STREAM ID	SITE NAME	WASTE REQUIRES > SIX MONTHS PRE- AND/OR POST-TREATMENT STORAGE	DATE RECEIVED P= Proposed A= Actual	DATE OF PRIMARY TREATMENT or SAMPLING P= Proposed A= Actual	DATE TREATED WASTES AND/OR TREATMENT RESIDUES SHIPPED OFFSITE P= Proposed A= Actual
OR-NFS-CH-HOM-A*	Oak Ridge National Laboratory (ORNL)	Yes	P 2011	Within 6 months of receipt	Within 6 months of treatment or sampling
OR-NFS-CH-GROUT*	ORNL	Yes	P 2011	Within 6 months of receipt	Within 6 months of treatment or sampling

1 * These waste streams are being received by AMWTP for coring. After coring, the generator site will profile the waste streams and the
 2 waste will be returned to the generator or sent directly to WIPP depending upon the timing of the WIPP waste stream profile approval.
 3

4 Revised 9/30/11

1 **4.6 Deletion of Waste Streams**

2 This section presents mixed waste streams that are no longer identified as wastes covered under this
 3 STP. These waste streams have been removed under provisions in Section 2.7.1, "Deletion of Wastes."

4 Table 4-6 presents the mixed waste streams and date when the waste was removed.

5 Table 4-6. Deleted waste streams.

Waste Stream ID	Waste Stream Name	Disposition Date
(INL Waste Streams)		
CH-ANL-184	SOLVENT DECON SOLUTION (NONHALOGENATED)	2/12/96
	Disposition: This waste was sent to DSSI and burned for energy recovery. There is no waste currently in storage associated with this waste stream or that is projected to be generated in the next five years.	
CH-ANL-243T	METAL WASTE FORM	6/30/97
	Disposition: This waste will not be generated as a mixed waste, LLW only.	
CH-ANL-246T	ELECTROREFINER INSOLUBLES W/ CADMIUM	6/30/97
	Disposition: This waste will not be generated as a mixed waste, LLW only.	
CH-ANL-601	Cd-CONTAMINATED CLEANUP WASTE	5/28/96
	Disposition: Incinerated at WERF. No waste is currently in storage (no backlog) and waste is not projected to be generated.	
CH-ANL-111	URANIUM/CADMIUM FROM FCF	4/22/09
	Treated and no longer generated	
CH-ANL-244	ICP WASTE SOLUTIONS W/HEAVY METALS	4/22/09
	Treated and no longer generated	
CH-ANL-503	SPENT HEPA FILTERS AND PRE-FILTERS	4/22/09
	Treated and no longer generated	
CH-ANL-683	LABORATORY CORROSIVE WASTE	4/22/09
	Treated and no longer generated	
CH-ANL-218T	ELECTROREFINER SALTS	4/22/09
	Combined with another waste stream	
CH-ANL-245T	ELECTROREFINER CADMIUM	4/22/09
	Combined with another waste stream	
CH-ANL-142	LEAD CONTAM. SOLIDS ANL-W OPERATIONS	10/31/10
	Treated, no longer generated	
CH-ANL-224	CONTAMINATED HG-IBC CASK MAINTENANCE	10/31/10
	Treated, no longer generated	
CH-ANL-554	LEAD-CONTAMINATED DEBRIS	10/31/10
	Treated, no longer generated	
CH-ANL-660	ANL-W MERCURY AND MERCURY DEBRIS	10/31/10
	Treated, no longer generated	
CH-ANL-RPK	REPACKAGED WASTE FOR SCMS	10/31/10
	Treated, no longer generated	

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Table 4-6. (continued).

Waste Stream ID	Waste Stream Name	Disposition Date
ID-CFA-193	EBR-I NaK	8/13/96
	Disposition: Treated at SCMS. No waste currently in storage (no backlog) and waste is not projected to be generated.	
ID-CFA-257	METHYLENE CHLORIDE LAB WASTE	8/13/96
	Disposition: Incinerated at WERF. No waste currently in storage (no backlog) and waste is not projected to be generated.	
ID-CFA-260	RADIOACTIVE PCB OIL W/ HEAVY METALS	8/13/96
	Disposition: Repackaged into ID-CFA-259. No waste currently in storage (no backlog) and waste is not projected to be generated.	
ID-CFA-280	BORAX D&D NONCOMPACTIBLE LEAD SHIELDING	2/23/98
	Disposition: No future generation of this waste stream.	
ID-CFA-285	METHYLENE CHLORIDE LAB DEBRIS	5/28/96
	Disposition: Incinerated at WERF. No waste is currently in storage (no backlog) and waste is not projected to be generated.	
ID-CFA-298	DISTILLATION LIQUID WITH PYRIDINE	10/30/96
	Disposition: Incinerated at WERF. No waste currently in storage (no backlog) and waste is not projected to be generated.	
ID-CFA-532	BORAX D&D CADMIUM FUEL RACK	2/12/96
	Disposition: This waste stream was determined to be nonhazardous through TCLP testing.	
ID-CFA-535	SAMPLE ACIDIFIED FOR SULFIDE AND CYANIDE	5/28/96
	Disposition: Incinerated at WERF. No waste currently in storage (no backlog) and waste is not projected to be generated.	
ID-CFA-732	CONTAMINATED GROUNDWATER SAMPLES	2/23/98
	Disposition: Treatability study on 100% of waste. No future generation of this waste stream.	
ID-INL-100	REPACKAGED WASTE	5/15/98
	Disposition: Assigned remaining waste to WS ID-PBF-550. The waste has been repackaged into burn boxes. No future generation planned for this waste stream.	
ID-INL-187	SIG SODIUM	4/22/09
	Treated and no longer generated	
ID-INL-220	ACTIVATED CARBON LLMW	2/24/97
	Disposition: All backlog waste has been incinerated at WERF. No waste currently in storage (no backlog) and waste is not projected to be generated since the PWTU will not be operated.	
ID-INL-268	PWTU SPENT RESINS	2/24/97
	Disposition: All backlog waste has been incinerated at WERF. No waste currently in storage (no backlog) and waste is not projected to be generated since the PWTU will not be operated.	
ID-NRF-217	HEAVY METAL RADIOACTIVE OIL	5/28/96
	Disposition: Incinerated at WERF. No waste currently in storage (no backlog) and waste is not projected to be generated.	
ID-PBF-292	FREON SYSTEM WASTE - LIQUID	8/17/98
	Disposition: No future generation of this waste stream. All inventory has been	

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Table 4-6. (continued).

Waste Stream ID	Waste Stream Name	Disposition Date
	treated via incineration.	
ID-PBF-293	FREON SYSTEM WASTE - SOLIDS	8/13/96
	Disposition: Incinerated at WERF. No waste currently in storage (no backlog) and waste is not projected to be generated.	
ID-PBF-558	WERF MERCURY IN OIL	2/23/98
	Disposition: Treatability study on 100% of waste. No future generation of this waste stream.	
ID-RFO-300	GRAPHITE MOLDS	4/27/99
	Disposition: Characterization data showed that this waste stream is nonhazardous.	
ID-RFO-300T	GRAPHITE MOLDS	4/27/99
	Disposition: Characterization data showed that this waste stream was nonhazardous.	
ID-RWM-221	IGNITABLE LIQUID	5/28/96
	Disposition: Incinerated at WERF. No waste currently in storage (no backlog) and waste is not projected to be generated.	
ID-RWM-222	CARBURETOR GREASE	5/28/96
	Disposition: Incinerated at WERF. No waste currently in storage (no backlog) and waste is not projected to be generated.	
ID-SMC-149A	SPENT GM 141 SAPC SOLVENT	8/17/98
	Disposition: No future generation of this waste stream. All inventory has been treated via incineration	
ID-SMC-149B	SPENT STODDARD SOLVENT	8/17/98
	Disposition: No future generation of this waste stream. All inventory has been treated via incineration.	
ID-SMC-304	CALCINED URANYL NITRATE	2/12/96
	Disposition: Waste is currently treated by a Generator Treatment Plan. No waste is currently in storage (no backlog) and is being treated as it is generated.	
ID-SMC-412	ETHYLENE GLYCOL HYDRAULIC FLUID	8/17/98
	Disposition: No future generation of this waste stream. All inventory has been treated via incineration.	
ID-SMC-529	ACID CONCRETE ETCH	8/13/96
	Disposition: Incinerated at WERF. No waste currently in storage (no backlog) and waste is not projected to be generated.	
ID-TAN-276	WATER WITH TRICHLOROETHYLENE	8/13/96
	Disposition: Incinerated at WERF. No waste currently in storage (no backlog) and waste is not projected to be generated.	
ID-TEC-303	SOLID, SILVER-CONTAMINATED LLMW	8/17/98
	Disposition: No future generation of this waste stream. All inventory treated via a treatability study.	
ID-TEC-509	USED HEXONE	2/12/96
	Disposition: This waste was sent to DSSI and burned for energy recovery. There is no waste currently in storage associated with this waste stream or that is projected to be generated in the next five years.	
ID-TEC-512	SLUDGE - CHARACTERISTIC	2/23/98

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Table 4-6. (continued).

Waste Stream ID	Waste Stream Name	Disposition Date
	Disposition: Waste stream will not be generated	
ID-TRA-155	TRA LAB SCINTILLATION COCKTAILS	5/28/96
	Disposition: Incinerated at WERF. No waste currently in storage (no backlog) and waste is not projected to be generated.	
ID-TRA-210	FREON DECON WASTE	10/30/96
	Disposition: Incinerated at WERF. No waste currently in storage (no backlog) and waste is not projected to be generated.	
ID-TRA-214	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5/28/96
	Disposition: Incinerated at WERF. No waste currently in storage (no backlog) and waste is not projected to be generated.	
ID-TRA-251	ELECTROPLATING SOLUTION	2/24/97
	Disposition: Consumed in a treatability study. No waste currently in storage (no backlog) and waste is not projected to be generated.	
ID-TRA-252	FREON SLUDGE	10/30/96
	Disposition: Incinerated at WERF. No waste currently in storage (no backlog) and waste is not projected to be generated.	
ID-TRA-536	ELEMENTAL Hg CONTAMINATED W/RAD MATERIAL	5/28/96
	Disposition: Treated by Generator Treatment Plan. No waste currently in storage (no backlog) and the waste is not projected to be generated.	
CH-ANL-669	MLLW Cd: FCF MODIFICATION AND ER WORK	1/21/04
	Disposition: Treated and no longer generated.	
CH-ANL-691	TREAT/PHP STACK CONDENSATE WATER	1/21/04
	Disposition: Treated and no longer generated.	
CH-ANL-711	EML ETCHING SOLUTION	1/21/04
	Disposition: Treated and no longer generated.	
CH-ANL-712	ANL-W ETCHING SOLUTIONS	1/21/04
	Disposition: Treated and no longer generated.	
ID-CFA-256	METHANOL SOLUTION	1/21/04
	Disposition: Treated and no longer generated.	
ID-CFA-533	ARA-I D&D NONCOMPACTIBLE LEAD	1/21/04
	Disposition: Treated and no longer generated.	
ID-CFA-551	HDEHP/HEPTANE EXTRACTANT	1/21/04
	Disposition: Treated and no longer generated.	
ID-CFA-662	SCINTILLATION COCKTAILS	1/21/04
	Disposition: Treated and no longer generated.	
ID-CFA-688	ARA-1 SOILS W/LEAD	1/21/04
	Disposition: Treated and no longer generated.	
ID-CFA-734	XYLENE, ALIQUOT 336 WITH PERCHLORATE	1/21/04
	Disposition: Treated and no longer generated.	
ID-IRC-271	BIOPROCESSING MIXED WASTE	1/21/04
	Disposition: Treated and no longer generated.	
ID-PBF-153	TAN/IET HOT WASTE SLUDGE	1/21/04

INL Site Treatment Plan

Table 4-6. (continued).

Waste Stream ID	Waste Stream Name	Disposition Date
	Disposition: Treated and no longer generated.	
ID-PBF-549	AQUEOUS LIQUID W/METALS AND PCBs	1/21/04
	Disposition: Treated and no longer generated.	
ID-SMC-301	TCA STILL BOTTOMS	1/21/04
	Disposition: Treated and no longer generated.	
ID-SMC-303	MISCELLANEOUS PAINT WASTES	1/21/04
	Disposition: Treated and no longer generated.	
ID-SMC-400	RAD-CONTAMINATED LEAD	1/21/04
	Disposition: Treated and no longer generated.	
ID-SMC-528	CADMIUM-CONTAMINATED MOP WATER	1/21/04
	Disposition: Treated and no longer generated.	
ID-SMC-691	NITRIC ACID	1/21/04
	Disposition: Treated and no longer generated.	
ID-SMC-696	LEGACY TCE AND CORROSIVE WASTE	1/21/04
	Disposition: Treated and no longer generated.	
ID-TAN-188	TURCO DECON SOLUTION (UNUSED)	1/21/04
	Disposition: Treated and no longer generated.	
ID-TAN-534	TAN-616 LEAD SHIELDING (PLATING)	1/21/04
	Disposition: Treated and no longer generated.	
ID-TEC-201	F002 CONTAMINATED SOLIDS	1/21/04
	Disposition: Treated and no longer generated.	
ID-TEC-300	"A" CADMIUM RACKS	1/21/04
	Disposition: Treated and no longer generated.	
ID-TEC-510	DEBRIS TREATMENT RESIDUE-LISTED	1/21/04
	Disposition: Treated and no longer generated.	
ID-TEC-511	SLUDGE-LISTED	1/21/04
	Disposition: Treated and no longer generated.	
ID-TRA-127	TRA SCINTILLATION COCKTAILS (ALPHA <10)	1/21/04
	Disposition: Treated and no longer generated.	
ID-TRA-281	ETR NONCOMPACTIBLE LEAD	1/21/04
	Disposition: Treated and no longer generated.	
ID-TRA-282	MTR D&D NONCOMPACTIBLE LEAD	1/21/04
	Disposition: Treated and no longer generated.	
ID-TRA-525	SOLVENT EXTRACTANTS	1/21/04
	Disposition: Treated and no longer generated.	
NR-NRF-117	CADMIUM SHEETS	1/21/04
	Disposition: Treated and no longer generated.	
NR-NRF-515	LIQUID MERCURY	1/21/04
	Disposition: Treated and no longer generated.	
NR-NRF-703	CORROSIVE LIQUIDS WITH HEAVY METALS	1/21/04
	Disposition: Treated and no longer generated.	

INL Site Treatment Plan

Table 4-6. (continued).

Waste Stream ID	Waste Stream Name	Disposition Date
CH-ANL-183	RADIOACTIVE PAINT STRIPPING WASTE	10/27/04
	Disposition: Treated and no longer generated.	
ID-CFA-259	RADIOACTIVE PCB OIL W/ TCLP ORGANICS	10/27/04
	Disposition: Treated and no longer generated.	
ID-CFA-556	AQUEOUS WASTE SUBJECT TO UHCS	10/27/04
	Disposition: Treated and no longer generated.	
ID-CFA-661	ELECTRICAL COMPONENTS W/ LEAD	10/27/04
	Disposition: Treated and no longer generated.	
ID-CFA-664	EDTA AND LEAD	10/27/04
	Disposition: Treated and no longer generated.	
ID-CFA-705	VERMICULITE WITH GREASE	10/27/04
	Disposition: Treated and no longer generated.	
ID-INL-266	WERF MONITOR DEBRIS	10/27/04
	Disposition: Treated and no longer generated.	
ID-INL-267	PWTU SPENT FILTERS	10/27/04
	Disposition: Treated and no longer generated.	
ID-INL-270	HEAVY METAL-CONTAMINATED SOLIDS	10/27/04
	Disposition: Treated and no longer generated.	
ID-INL-710	MLLW FLOOR STRIPPING MATERIALS	10/27/04
	Disposition: Treated and no longer generated.	
ID-INL-726	MLLW OILS	10/27/04
	Disposition: Treated and no longer generated.	
ID-PBF-212	Pb AND Cd-CONTAMINATED SOIL	10/27/04
	Disposition: Treated and no longer generated.	
ID-PBF-272	URANIUM SPIKES AND LEAD	10/27/04
	Disposition: Treated and no longer generated.	
ID-PBF-274	WERF FLY ASH	10/27/04
	Disposition: Treated and no longer generated.	
ID-PBF-275	WERF BOTTOM ASH	10/27/04
	Disposition: Treated and no longer generated.	
ID-PBF-277	WERF SIZING BAGHOUSE DUST	10/27/04
	Disposition: Treated and no longer generated.	
ID-PBF-545	CERCLA SOIL CONTAMINATED WITH CHROMIUM	10/27/04
	Disposition: Treated and no longer generated.	
ID-PBF-678	MWSF PIPING AND VALVES	10/27/04
	Disposition: Treated and no longer generated.	
ID-PBF-714	WERF INCINERATOR FLY ASH	10/27/04
	Disposition: Treated and no longer generated.	
ID-PBF-715	WERF INCINERATOR BOTTOM ASH	10/27/04
	Disposition: Treated and no longer generated.	
ID-SMC-303	MISCELLANEOUS PAINT WASTES	10/27/04

INL Site Treatment Plan

Table 4-6. (continued).

Waste Stream ID	Waste Stream Name	Disposition Date
	Disposition: Treated and no longer generated.	
ID-SMC-411	MIXED WASTE DEBRIS	10/27/04
	Disposition: Treated and no longer generated.	
ID-SMC-537	MERCURY-CONTAMINATED MATERIALS	10/27/04
	Disposition: Treated and no longer generated.	
ID-TAN-124	HTRE-3 Hg CONTAMINATED CONCRETE	10/27/04
	Disposition: Treated and no longer generated.	
ID-TAN-209	TURCO DECON (OXIDIZER)	10/27/04
	Disposition: Treated and no longer generated.	
ID-TAN-531	LEAD SHIELDING LOFT MOBILE TEST	10/27/04
	Disposition: Treated and no longer generated.	
ID-TAN-547	RADIOACTIVE CADMIUM SOURCES	10/27/04
	Disposition: Treated and no longer generated.	
ID-TAN-548	MACROENCAPSULATED LEAD SWARF	10/27/04
	Disposition: Treated and no longer generated.	
ID-TAN-709	DRUM EVAPORATOR SOLIDS	10/27/04
	Disposition: Treated and no longer generated.	
ID-TAN-718	SAMPLING EQUIPMENT AND RESIDUE	10/27/04
	Disposition: Treated and no longer generated.	
ID-TAN-721	SILVER ZEOLITE	10/27/04
	Disposition: Treated and no longer generated.	
ID-TAN-723	PAINT CHIPS WITH LEAD/PCBs	10/27/04
	Disposition: Treated and no longer generated.	
ID-TEC-111	CADMIUM-CONTAMINATED SOLIDS	10/27/04
	Disposition: Treated and no longer generated.	
ID-TEC-527	CONTAMINATED SOIL-LISTED	10/27/04
	Disposition: Treated and no longer generated.	
ID-TEC-552	RADIOACTIVE LEAD WITH LISTED CODES	10/27/04
	Disposition: Treated and no longer generated.	
ID-TEC-713	TURCO DESCALER AT NWCF	10/27/04
	Disposition: Treated and no longer generated.	
ID-TEC-717	SAMPLE RESIDUE FROM CERAMIC SAMPLING	
	Disposition: Treated and no longer generated.	
ID-TRA-128	LABORATORY EQUIPMENT AND DEBRIS	10/27/04
	Disposition: Treated and no longer generated.	
ID-TRA-269	ELECTRONIC BOARD & MISC. MACHINERY	10/27/04
	Disposition: Treated and no longer generated.	
ID-TRA-667	PCB ACID DIGESTION RESIDUE	10/27/04
	Disposition: Treated and no longer generated.	
ID-TRA-693	LEAD-CONTAMINATED PAINT CHIPS	10/27/04
	Disposition: Treated and no longer generated.	

INL Site Treatment Plan

Table 4-6. (continued).

Waste Stream ID	Waste Stream Name	Disposition Date
NR-NRF-142	LEAD-CONTAMINATED DEBRIS	10/27/04
	Disposition: Treated and no longer generated.	
NR-NRF-143	RADIOACTIVE-CONTAMINATED LEAD (NRF)	10/27/04
	Disposition: Treated and no longer generated.	
NR-NRF-514	PAINT CHIPS	10/27/04
	Disposition: Treated and no longer generated.	
ID-CFA-103	LIQUID LAB WASTE W/ METALS AND ORGANICS	4/21/04
	Disposition: Treated and no longer generated	
ID-CFA-107	ARA-IV SUMP SLUDGE	4/21/04
	Disposition: Treated and no longer generated	
ID-CFA-121	HEAVY METAL LIQUID LAB WASTES	4/21/04
	Disposition: Treated and no longer generated	
ID-CFA-667	MIXED LEAD	4/21/04
	Disposition: Treated and no longer generated	
ID-CFA-676	RESIN COLUMN MEDIA	4/21/04
	Disposition: Treated and no longer generated	
ID-CFA-677	DEMINEALIZER FILTER	4/21/04
	Disposition: Treated and no longer generated	
ID-CFA-695	ARA-II SEPTIC TANK SOLIDIFIED SLUDGE	4/21/04
	Disposition: Treated and no longer generated	
ID-CFA-701	Paint Residue Contaminated w/ PCB's	4/21/04
	Disposition: Treated and no longer generated	
ID-CFA-702	ARA-1 D&D PPE and PIPING/DRAINS	4/21/04
	Disposition: Treated and no longer generated	
ID-INL-117	CONTAMINATED CADMIUM SHEETING	4/21/04
	Disposition: Treated and no longer generated	
ID-INL-268	PWTU SPENT RESINS	4/21/04
	Disposition: Treated and no longer generated	
ID-IRC-501	Cd AND Pb CONTAMINATED SOIL, TRACE RAD	4/21/04
	Disposition: Treated and no longer generated	
ID-IRC-668	BIOASSAY ANALYSIS WASTE	4/21/04
	Disposition: Treated and no longer generated	
ID-PBF-261	WERF BAGHOUSE BAGS (TEFLON)	4/21/04
	Disposition: Treated and no longer generated	
ID-PBF-263	WERF HEPA FILTERS AND PREFILTERS	4/21/04
	Disposition: Treated and no longer generated	
ID-PBF-264	WERF BAGHOUSE BAGS (BLUE MAX)	4/21/04
	Disposition: Treated and no longer generated	
ID-PBF-681	DEBRIS FROM HEAT EXCHANGER CHANGE-OUT	4/21/04
	Disposition: Treated and no longer generated	
ID-PBF-684	RINSATE WATER	4/21/04

INL Site Treatment Plan

Table 4-6. (continued).

Waste Stream ID	Waste Stream Name	Disposition Date
	Disposition: Treated and no longer generated	
ID-PBF-686	MERCURY CONTAMINATED RAGS	4/21/04
	Disposition: Treated and no longer generated	
ID-RWM-255	MERCURY CONTAMINATED SOIL	4/21/04
	Disposition: Treated and no longer generated	
ID-RWM-508	EQUIPMENT PIT DECON WASTE	4/21/04
	Disposition: Treated and no longer generated	
ID-RWM-685	HEPA FILTERS FROM DRUM VENT FACILITY	4/21/04
	Disposition: Treated and no longer generated	
ID-RWM-692	NITRATE SALTS	4/21/04
	Disposition: Treated and no longer generated	
ID-SMC-133	MISCELLANEOUS LAB WASTES	4/21/04
	Disposition: Treated and no longer generated	
ID-SMC-304	CALCINED URANYL NITRATE	4/21/04
	Disposition: Treated and no longer generated	
ID-SMC-305	HEAVY METAL CONTAMINATED WASTE OILS	4/21/04
	Disposition: Treated and no longer generated	
ID-SMC-507	EUTECTIC SALT WITH LEAD (Pb)	4/21/04
	Disposition: Treated and no longer generated	
ID-TAN-170	IET LIQUID WASTE	4/21/04
	Disposition: Treated and no longer generated	
ID-TAN-254	HTRE-III TREATMENT SLUDGE	4/21/04
	Disposition: Treated and no longer generated	
ID-TAN-413	LEAD CONTAMINATED SCRAP METAL	4/21/04
	Disposition: Treated and no longer generated	
ID-TAN-502	ISV HEPA FILTERS	4/21/04
	Disposition: Treated and no longer generated	
ID-TAN-557	TAN-607 FLOOR SWEEPINGS & VAT RESIDUE	4/21/04
	Disposition: Treated and no longer generated	
ID-TAN-679	TAN 648 RPSSA RAINWATER	4/21/04
	Disposition: Treated and no longer generated	
ID-TEC-217	SCRUB PUMP RADIOACTIVE OIL	4/21/04
	Disposition: Treated and no longer generated	
ID-TEC-301	LIQUID ACID/MERCURY MIXED WASTE	4/21/04
	Disposition: Treated and no longer generated	
ID-TEC-708	NWCF HEPA FILTER SAMPLE RESIDUES	4/21/04
	Disposition: Treated and no longer generated	
ID-TRA-157	TRA WARM WASTE POND SAMPLES	4/21/04
	Disposition: Treated and no longer generated	
ID-TRA-253	CADMIUM FUEL GRID	4/21/04
	Disposition: Treated and no longer generated	

INL Site Treatment Plan

Table 4-6. (continued).

Waste Stream ID	Waste Stream Name	Disposition Date
ID-TRA-704	ARMF and CFRMF Components and Shielding	4/21/04
	Disposition: Treated and no longer generated	
NR-NRF-190	LEAD FILINGS	4/21/04
	Disposition: Treated and no longer generated	
NR-NRF-517	OIL WITH HEAVY METALS	4/21/04
	Disposition: Treated and no longer generated	
NR-NRF-518	WATER WITH HEAVY METALS	4/21/04
	Disposition: Treated and no longer generated	
NR-NRF-520	BRASS AND BRONZE	4/21/04
	Disposition: Treated and no longer generated	
ID-INL-142	LEAD CONTAMINATED DEBRIS	1/19/05
	Disposition: Waste moved to new Waste Stream Identifier (ID-INL-803)	
ID-INL-143	RADIOACTIVELY CONTAMINATED LEAD	1/19/05
	Disposition: Waste moved to new Waste Stream Identifier (ID-INL-800 and ID-INL-801)	
ID-INL-213	MERCURY-CONTAMINATED DEBRIS & ASBESTOS	1/19/05
	Disposition: Waste moved to new Waste Stream Identifier (ID-INL-804)	
ID-INL-299	SAMPLE WASTE	1/19/05
	Disposition: Remaining waste was classified as TRU	
ID-INL-550	MLLW FROM WERF OPERATIONS	1/19/05
	Disposition: Waste moved to new Waste Stream Identifier (ID-INL-803)	
ID-INL-724	MIXED LOW-LEVEL LIQUIDS	1/19/05
	Disposition: Waste moved to new Waste Stream Identifier (ID-INL-803)	
ID-TAN-666	PCB-CONTAMINATED DEBRIS	1/19/05
	Disposition: Waste moved to new Waste Stream Identifier (ID-INL-804)	
ID-TAN-727	TAN WASTE FROM CLEAN-UP ACTIVITIES	1/19/05
	Disposition: Waste moved to new Waste Stream Identifier (ID-INL-800)	
ID-TEC-131	MERCURY-CONTAMINATED SOLIDS	1/19/05
	Disposition: Waste moved to new Waste Stream Identifier (ID-INL-800)	
ID-TEC-304	CONTAMINATED DEBRIS	1/19/05
	Disposition: Waste moved to new Waste Stream Identifier (ID-INL-800, ID-INL-802, ID-INL-803, ID-INL-804, ID-INL-805)	
ID-TEC-307	CONTAMINATED LABORATORY RESIDUE	1/19/05
	Disposition: Waste moved to new Waste Stream Identifier (ID-INL-800)	
ID-TEC-504	NON-DEBRIS SOLIDS	1/19/05
	Disposition: Waste moved to new Waste Stream Identifier (ID-INL-800, ID-INL-802, ID-INL-805)	
ID-TEC-530	D006-D011 CONTAMINATED NON-DEBRIS	1/19/05
	Disposition: Recharacterized as TRU waste	
ID-TEC-698	SOIL, WOOD, CONCRETE, PPE	1/19/05
	Disposition: Waste moved to new Waste Stream Identifier (ID-INL-800, ID-INL-802, ID-INL-805)	

INL Site Treatment Plan

Table 4-6. (continued).

Waste Stream ID	Waste Stream Name	Disposition Date
ID-TRA-294	SOLVENT-CONTAMINATED RAGS	1/19/05
	Disposition: Waste moved to new Waste Stream Identifier (ID-INL-803)	
ID-TRA-707	NITRIC ACID FROM TMI FUEL FINES	10/31/2010
	Treated and no longer generated	
NR-NRF-665	PAINT CHIPS W/PCB AND RCRA	1/19/05
	Disposition: Waste moved to new Waste Stream Identifier (ID-INL-804)	
AE-W015	ORGANIC SOLVENTS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
AE-W030	COMBUSTIBLE SOLIDS W/METALS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
AE-W031	COMBUSTIBLE SOLIDS W/ORGANICS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
AE-W034	PPE CONTAMINATED WITH LEAD	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
AF-MW-01	AIR FORCE MUNITIONS MAINTENANCE WASTE	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
BT-W001	ORGANIC LIQUID WASTE WITH HEAVY METALS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
BT-W002	SPENT SOLVENT RAGS	10/29/97
	Disposition: Treated and no future generation of this waste stream.	
BT-W003	ORGANIC WASTE WITH HEAVY METALS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
BT-W007	SOLIDS WITH SOLVENTS	10/29/97
	Disposition: Treated with no future generation of this waste stream.	
BT-W018	TCLP EXTRACTION FLUID	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
BT-W033	IGNITABLE LIQUID	10/29/97
	Disposition: Treated with no future generation of this waste stream.	
CN-W002	LEAD AND LEAD-BEARING MATERIALS	2/24/97
	Disposition: Has been sent to Envirocare for treatment and disposal. No waste currently in storage (no backlog) and waste is not projected to be received from Charleston Naval Shipyard.	
ET-CC-01	WASTE OILS	4/27/99
	Disposition: Has or will be treated by another site. Will not be received at the INL.	
ET-W009	PAINT CHIPS	4/27/99
	Disposition: Has or will be treated by another site. Will not be received at the INL.	
ET-W020	LABORATORY ANALYTICAL REAGENT WASTE	4/27/99
	Disposition: Has or will be treated by another site. Will not be received at the INL.	
ET-W023	ELEMENTAL MERCURY	4/27/99

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Table 4-6. (continued).

Waste Stream ID	Waste Stream Name	Disposition Date
	Disposition: Has or will be treated by another site. Will not be received at the INL.	
ET-W026	CRUSHED MERCURY LIGHT BULBS	4/27/99
	Disposition: Has or will be treated by another site. Will not be received at the INL.	
GA-CC-01	CA. LISTED WASTES	4/27/99
	Disposition: Has or will be treated by another site. Will not be received at the INL.	
GA-W003	SVA: Pb-CONTAMINATED SLUDGE	2/24/97
	Disposition: Has been treated at Hanford and on-Site. This waste will not be received at the INL.	
GA-W007	HOT CELL D&D: Pb SHOT	4/27/99
	Disposition: Has or will be treated by another site. Will not be received at the INL.	
GA-W013	HOT CELL D&D: Pb BRICK	2/24/97
	Disposition: Accepted by Envirocare under the Mixed Waste Focus Area Cooperative Agreement. This waste will not be received at the INL.	
GA-W025	SVA: LEAD SCRAP	2/24/97
	Disposition: Has been shipped for off-Site treatment. This waste will not be received at the INL.	
GA-W031	SVA: OILY DEBRIS CONTAINING METHYLENE CL	4/27/99
	Disposition: Has or will be treated by another site. Will not be received at the INL.	
GA-W034	DOUBLET 11 ALCOHOL AND TRITIUM	4/27/99
	Disposition: Has or will be treated by another site. Will not be received at the INL.	
GA-W037	WASTE W/F-LISTED SOLVENTS	4/27/99
	Disposition: Has or will be treated by another site. Will not be received at the INL.	
GA-W038	MISCELLANEOUS LIQUID SOLVENTS	4/27/99
	Disposition: Has or will be treated by another site. Will not be received at the INL.	
GA-W043	SVA ORGANIC LIQUID	4/27/99
	Disposition: Has or will be treated by another site. Will not be received at the INL.	
GA-W044	WOOD HOUSING HEPA FILTERS	4/27/99
	Disposition: Has or will be treated by another site. Will not be received at the INL.	
GJPO-94-017	WASTE OIL SLUDGE	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
GJPO-96-017	MISC. COMBUSTIBLE MIXED WASTE	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
GJPO-97-030	ACTIVATED CARBON	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	

INL Site Treatment Plan

Table 4-6. (continued).

Waste Stream ID	Waste Stream Name	Disposition Date
KA-W002	CUTTING OILS AND LIQUIDS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
KA-W003	TRICHLOROETHYLENE	10/29/97
	Disposition: Treated and no future generation of this waste stream.	
KA-W006	FREON 113 ON RAGS	10/29/97
	Disposition: Treated with no future generation of this waste stream.	
KA-W007	OILS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
KA-W009	ORGANIC DEBRIS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
KA-W013	ORGANIC DEBRIS W/O METALS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
KA-W014	ORGANIC SLUDGE AND PARTICULATES	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
KA-W018	Hg-CONTAMINATED ORGANICS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
KK-W003	OILS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
KK-W004	MISC. LABORATORY CHEMICALS W/O METALS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
KK-W005	ORGANIC DEBRIS CONTAINING HEAVY METALS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
KK-W008	ORGANIC SLUDGES/PARTICULATES	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
KK-W009	ORGANIC DEBRIS WITHOUT METALS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
KK-W011	CUTTING OILS AND LIQUIDS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
KK-W014	Hg-CONTAMINATED ORGANICS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
KW-W001	OILS	5/14/97
	Disposition: Waste is not expected to be generated. This waste will not be received at the INL. April Quarterly Meeting.	
KW-W003	ORGANIC DEBRIS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
KW-W006	ORGANIC SLUDGES/PARTICULATES	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
KW-W008	MISCELLANEOUS LABORATORY CHEMICALS	10/27/99
	Disposition: Waste stream deleted per generator update.	
KW-W009	SOILS	10/27/99
	Disposition: Waste stream deleted per generator update.	

INL Site Treatment Plan

Table 4-6. (continued).

Waste Stream ID	Waste Stream Name	Disposition Date
KW-W010	Hg-CONTAMINATED ORGANICS	10/27/99
	Disposition: Waste stream deleted per generator update.	
KW-W011	Hg-CONTAMINATED INORGANICS	10/27/99
	Disposition: Waste stream deleted per generator update.	
KW-W012	ELEMENTAL Hg	5/28/96
	Disposition: KAPL - Windsor no longer expects to generate this waste. This waste will not be received at the INL.	
KW-W014	PCB-CONTAMINATED WASTE	10/19/05
	Disposition: Waste streams treated and disposed of. Waste will not be generated again.	
LA-W901	IPA WASTES	3/4/97
	Disposition: Waste stream treated and residuals sent to Envirocare	
LA-W902	SCINTILLATION VIALS	3/4/97
	Disposition: Waste stream treated and residuals sent to Envirocare	
LA-W903	LEAD BLANKETS	5/14/97
	Disposition: Was sent to Envirocare for treatment and disposal. Waste not received at the INL. April Quarterly Meeting.	
LA-W905	ER SOILS	5/14/97
	Disposition: Was sent to Envirocare for treatment and disposal. Waste not received at the INL. April Quarterly Meeting.	
LA-W909	BULK OILS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
LA-W911	ORGANIC-CONTAMINATED COMBUSTIBLE SOLIDS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
LA-W912	COMBUSTIBLE DEBRIS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
LA-W929	NONRADIOACTIVE AND SUSPECT WASTE ITEMS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
LA-W930	SURFACE-CONTAMINATED LEAD	10/30/96
	Disposition: Will be sent to Envirocare under the Mixed Waste Focus Area Cooperative Agreement. This waste will not be received at the INL.	
LANL-ER-1	TA-35 TANK D&D WASTE	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
LB-CC-116	ORGANIC SOLIDS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
LB-CC-118	LAB-PACKED CHEMICALS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
LB-CC-120	PUMP OIL	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
LB-CC-124	CONTAMINATED DEBRIS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
LB-CC-125	ORGANIC LIQUIDS	1/24/01

INL Site Treatment Plan

Table 4-6. (continued).

Waste Stream ID	Waste Stream Name	Disposition Date
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
LB-CC-126	WASTE CONTAINING OIL	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
LB-W001	ACIDIC AQUEOUS AND SOLID LAB PACKS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
LB-W004	ORGANIC LIQUIDS AND SOLIDS: LAB PACKED	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
LB-W007	SCINTILLATION FLUIDS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
LB-W008	AQUEOUS AND SOLID CHEMICAL OXIDIZERS LAB	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
LB-W009	SOLIDS OR CONTAMINATED DEBRIS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
LB-W124	VERMICULITE W/OIL-SOLVENTS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
LBNL-CC-114	CYANIDE SOLUTION	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
LL-W007	ELEMENTAL LEAD	4/27/99
	Disposition: Has or will be treated by another site. Will not be received at the INL.	
LL-W015	INORGANIC DEBRIS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
LLNL-CC-01	CONTAMINATED OIL	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
MD-W021	OIL-CONTAMINATED FLORCO	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
MD-W023	SCINTILLATION COCKTAIL CONTAMIN. FLORCO	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
MD-W024	SCINTILLATION COCKTAIL CONTAMIN. TRASH	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
MI-W005	SOLID WASTE WITH PETROLEUM PRODUCTS	2/12/96
	Disposition: Waste will be sent to SEG as nonhazardous waste. This waste stream will not be received at the INL.	
MI-W007	LEAD BRICKS, SHEETS, WOOL, SCRAPINGS	2/24/97
	Disposition: Has been sent to Envirocare for treatment and disposal. No waste currently in storage (no backlog) and waste is not projected to be received from Mare Island Naval Shipyard.	
MI-W009	SOLID WASTE WITH CORROSIVES	2/12/96
	Disposition: This waste stream was determined to be nonhazardous by Mare Island personnel. This waste will not be received at the INL.	
MI-W012	COMBUSTIBLE DEBRIS	2/12/96
	Disposition: This waste stream was determined to be nonhazardous by Mare	

INL Site Treatment Plan

Table 4-6. (continued).

Waste Stream ID	Waste Stream Name	Disposition Date
	Island personnel. This waste will not be received at the INL.	
MI-W013	ORGANIC PROCESS RESIDUES	2/12/96
	Disposition: This waste stream was determined to be nonhazardous by Mare Island personnel. This waste will not be received at the INL.	
MU-W001	MIXED LOW-LEVEL WASTE	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
NA-W001	SOLID WASTE WITH HEAVY METALS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
NN-W001	LEAD/CHROMIUM-BASED PAINT CHIPS	5/14/97
	Disposition: Sent to Hanford for treatment. Waste not received at the INL. April Quarterly Meeting.	
NN-W002	ORGANIC WASTE WITH HEAVY METALS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
NN-W011	DEBRIS/SLUDGE CONT. W/METALS/LISTED/ORG.	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
PA-F030	LEAD-CONTAMINATED DEBRIS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
PA-G001	FLAMMABLE MATERIALS/PAINTS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
PA-K038	SPENT SOLVENT SOLIDS/WOOD	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
PA-L038	SOFT COMBUSTIBLE DEBRIS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
PA-M038	SOFT COMBUSTIBLE DEBRIS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
PA-W003	WASTE MINERAL SPIRITS PAINT WASTE	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
PA-W003	USE PAINT WASTE SOLIDS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
PH-W002	LIQUID CONTAINING 1,1,1-TRICHLOROETHANE	10/29/97
	Disposition: Treated with no future generation of this waste stream.	
PH-W004	ORGANIC WASTE	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
PN-W015	SOLIDS CONTAM. WITH POTASSIUM CHROMATE	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
PO-W008	MOTOR CLEANING SOLUTION	10/27/99
	Disposition: Waste stream deleted per generator update.	
PO-W012	URANIUM RECOVERY SOLVENT	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
PO-W013	CHROMIC CLOSURE WASTE	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
PO-W028	LAB WASTE	1/24/01

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Table 4-6. (continued).

Waste Stream ID	Waste Stream Name	Disposition Date
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
PO-W029	WASTE ANTIFREEZE	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
PO-W040	ACETONE STILL BOTTOMS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
PO-W057	SOLVENTS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
PO-W058	ACTIVATED CARBON SLUDGE	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
PO-W077	NEAT TCE	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
PO-W078	DIESEL FUEL, GASOLINE, KEROSENE	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
PS-W001	ORGANIC DEBRIS WITH HEAVY METALS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
PS-W004	LIQUID WITH F-LISTED SOLVENTS	10/29/97
	Disposition: Treated with no future generation of this waste stream.	
PS-W005	DEBRIS WITH F-LISTED SOLVENTS	10/29/97
	Disposition: Treated with no future generation of this waste stream.	
PS-W006	SOLIDIFIED LIQUID WITH F-LISTED SOLVENTS	5/14/97
	Disposition: Waste was determined to meet LDR standards. Waste not received at the INL. April Quarterly Meeting.	
PS-W009	PAINT THINNER WITH BUTYL ALCOHOL	5/14/97
	Disposition: This waste stream will not be received at the INL. April Quarterly Meeting.	
PS-W011	DEBRIS w/HEAVY METALS & F-LISTED SOLVENT	5/14/97
	Disposition: This waste will not be received at the INL. April Quarterly Meeting.	
PS-W019	FILTERS W/ASBESTOS AND DIOCTYL PHTHALATE	5/28/96
	Disposition: This waste is no longer regulated due to revisions in state regulations. This waste will not be received at the INL.	
PS-W020	COMPRESSED FILTER MEDIA W/DIOCTYL PHTHAL	5/28/96
	Disposition: This waste is no longer regulated due to revisions in state regulations. This waste will not be received at the INL.	
PX-6.1	OLVENT AND HEAVY METAL CONTAMIN. DEBRIS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
RF-W017	PCB LIQUIDS/LLM	10/27/99
	Disposition: Waste stream deleted per generator update.	
RF-W027	PAINTS/LLM	10/27/99
	Disposition: Waste stream deleted per generator update.	
RF-W049	MISCELLANEOUS LIQUIDS/LLM	10/27/99
	Disposition: Waste stream deleted per generator update.	

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Table 4-6. (continued).

Waste Stream ID	Waste Stream Name	Disposition Date
RF-W071-GAC	RANULATED-ACTIVATED CARBON	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
RF-W083	EXCESS CHEMICALS ORGANOMETALLIC LAB PACK	10/27/99
	Disposition: Waste stream deleted per generator update.	
PO-W048	GAS ANALYZER SOLUTIONS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
RF-W085	EXCESS CHEMICALS NON-LABPACKS W/D009/LLM	10/27/99
	Disposition: Waste stream deleted per generator update.	
RF-W086	EXCESS CHEMICALS NON-LAB PACKS-OTHER/LLM	10/27/99
	Disposition: Waste stream deleted per generator update.	
RL-601-01	MIXED WASTE DEBRIS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
RL-AL0	ORGANIC ABSORBED LIQUIDS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
RL-LPO	ORGANIC LAB PACKS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
SA-TG-11	ORGANIC LIQUIDS 11: OILS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
SA-TG-12	ORGANIC DEBRIS W/TCLP METALS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
SA-TG-17-A	ABSORBED MACHINE OILS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
SA-TG-18	PARTICULATES W/ORGANIC CONTAMINANTS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
SA-TG-7	ORGANIC LIQUIDS/SCINTILLATION COCKTAILS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
SA-TG-8/10	ORGANIC DEBRIS W/SOLVENTS/HETER DEBRIS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
SR-W014	TRITIATED MERCURY	4/27/99
	Disposition: Has or will be treated by another site: Will not be received at the INL.	
SR-W049	TANK E-3-1 CLEAN OUT MATERIAL	1/27/99
	Disposition: Waste was treated at another DOE site and will not be received at the INL.	
SR-W068	LIQUID ELEMENTAL MERCURY	4/27/99
	Disposition: Has or will be treated by another site. Will not be received at the INL.	
WS-W005	2 4 D POWDER/CONTAMINATED SOLIDS	11/16/98
	Disposition: Waste is being treated on the Weldon Springs site and will not come to the INL.	
WS-W030	PAINT SLUDGE	11/16/98
	Disposition: Waste is being treated at the Weldon Springs site and will not	

INL Site Treatment Plan

Table 4-6. (continued).

Waste Stream ID	Waste Stream Name	Disposition Date
	come to the INL.	
WS-W044	PAINT WASTE WITH MERCURY	11/16/98
	Disposition: Waste is being treated at the Weldon springs site and will not come to the INL.	
WS-W052	SLUDGE WITH D040	11/16/98
	Disposition: Waste is being treated at the Weldon Springs site and will not come to the INL.	
WS-WITS-4847	ORGANIC WASTE WATER	11/16/98
	Disposition: Waste is being treated at the Weldon Springs site and will not come to the INL.	
WS-WITS-6311	CONSOLIDATED OILS	11/16/98
	Disposition: Waste is being treated at the Weldon Springs site and will not come to the INL.	
WS-WITS-6435	UTS SLUDGE	11/16/98
	Disposition: Waste is being treated on the Weldon Springs site and will not come to the INL.	
WV-W003	ORGANIC EXTRACTION WASTE	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
WV-W005	DECON SOLUTION	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
WV-W006	Pu SCINTILLATION (nCi/G)	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
WV-W007	PYRIDINE/CYANIDE WASTE	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
WV-W008	OIL WITH MERCURY	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
WV-W009	METHANOL	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
WV-W010	PAINT	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
WV-W012	PAINT W/METALS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
WV-W014	Sr ORGANIC WASTE	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
WV-W016	R&D TOLUENE	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
WV-W017	Tc AQUEOUS WASTE	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
WV-W018	DU-SQUEEZE	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
WV-W021	IGNITABLE ORGANIC LIQUIDS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	

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Table 4-6. (continued).

Waste Stream ID	Waste Stream Name	Disposition Date
WV-W022	SPENT DEGREASER	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
WV-W025	CAUSTIC WASTE	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
WV-W027	OXIDIZERS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
WV-W029	IMMERSION BUCKET SOLUTION	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
WV-W030	AQUEOUS LAB WASTE	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
WV-W032	IGNITABLE CHEMICAL PRODUCTS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
WV-W033	IGNITABLE METAL WASTE	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
WV-W034	ACIDIC AQUEOUS WASTE	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
WV-W037	DECONTAMINATED SUPERNATANT	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
WV-W042	ORGANIC SLUDGES	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
WV-W043	IGNITABLE LIQUIDS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
WV-W044	IGNITABLE ORGANIC LIQUIDS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
WV-W047	INORGANIC SLUDGES	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
WV-W053	SODIUM BOROXYDRIDE	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
WV-W054	CORROSIVE/FLAMMABLE LIQUIDS	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
WV-W056	REACTIVES	1/24/01
	Disposition: ALTERNATIVE TREATMENT TECHNOLOGY	
BT-W005	PAINT CHIPS W/HEAVY METALS MAY HAVE PCB	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
BT-W008	MERCURY-CONTAINING WASTE	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
BT-W009	VOC-CONTAMINATED SOIL	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
BT-W010	ORGANIC LIQUIDS W/HEAVY METALS PCBs, & VOC	10/31/01

INL Site Treatment Plan

Table 4-6. (continued).

Waste Stream ID	Waste Stream Name	Disposition Date
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
BT-W012	VOC & PCB-CONTAMINATED DEBRIS	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
BT-W013	VOC & PCB-CONTAMINATED SOIL	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
BT-W017	ION EXCHANGE RESIN	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
BT-W019	ELEMENTAL LEAD	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
BT-W020	BRASS AND BRONZE	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
BT-W028	VOC AND PCB-CONTAMINATED WATER	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
BT-W029	VOC-CONTAMINATED SEDIMENT/SLUDGE	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
BT-W030	VOC-CONTAMINATED DEBRIS	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
BT-W031	VOC AND PCB-CONTAMINATED SLUDGE	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
BT-W036	PCB-CONTAMINATED INORGANIC DBRIS/PARTIC.	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
BN-W007	MERCURY WASTE	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
ET-W019	CHROME SALT CORES	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
KK-W010	LEAD BRICKS, SHEETS, OR WOOL	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
KK-W013	SOILS	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	

INL Site Treatment Plan

Table 4-6. (continued).

Waste Stream ID	Waste Stream Name	Disposition Date
KK-W015	Hg-CONTAMINATED INORGANICS	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
KK-W016	ELEMENTAL Hg	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
KK-W017	PCB-CONTAMINATED WASTE	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
KK-W018	PCB-CONTAMINATED WASTE (Nonincinerable)	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
KA-W001	MISC. LABORATORY CHEMICALS W/O METALS	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
KA-W011	ELEMENTAL LEAD	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
KA-W015	SOILS	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
KA-W019	Hg-CONTAMINATED INORGANICS	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
KA-W020	ELEMENTAL Hg	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
KA-W021	PCB-CONTAMINATED WASTE	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
KA-W022	PCB-CONTAMINATED WASTE (Nonincinerable)	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
LB-W002	BASIC AQUEOUS LIQUIDS - LOW ALPHA	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
LB-W005	BLOCK & SHEET Pb-INDUCED & SURFACE CONTAM.	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
LB-W006	LIQUID-INDUCED MERCURY	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
LB-W011	ACIDIC AQUEOUS SOLUTIONS/SOLIDS w/METALS	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR	

INL Site Treatment Plan

Table 4-6. (continued).

Waste Stream ID	Waste Stream Name	Disposition Date
	TREATMENT.	
LB-W012	BASIC SOLIDS w/METALS - HIGH ALPHA	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
LB-W014	LIQUIDS/SOLIDS CONTAINING SOLVENTS & OIL	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
LB-W017	ORGANIC SCINTILLATION FLUIDS	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
LB-W018	AQUEOUS/SOLID OXIDIZERS	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
LB-W019	DEBRIS CONTAMINATED w/ ORGANIC VOLATILES	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
LB-W101	AQUEOUS ORGANIC LIQUID	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
LL-W003	LOW-LEVEL MIXED INORGANIC TRASH-1	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
LL-W006	LOW-LEVEL MIXED SCRAP METAL	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
LL-W017	LOW-LEVEL MIXED INORGANIC TRASH-3	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
LL-W021	LAB PACKS WITH METALS	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
LL-W024	LIQUID MERCURY WASTE	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
LA-W904	SOIL WITH HEAVY METALS	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
LA-W906	AQUEOUS ORGANIC WASTES	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
LA-W907	HALOGENATED ORGANIC LIQUIDS	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
LA-W908	NONHALOGENATED ORGANIC LIQUIDS	10/31/01

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Table 4-6. (continued).

Waste Stream ID	Waste Stream Name	Disposition Date
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
LA-W910	PCB WASTES WITH RCRA COMPONENTS	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
LA-W913	AQUEOUS WASTES WITH HEAVY METALS	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
LA-W914	CORROSIVE SOLUTIONS	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
LA-W915	AQUEOUS CYANIDES, NITRATES, CHROMATES	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
LA-W916	WATER-REACTIVE WASTES	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
LA-W919	ORGANIC-CONTAMINATED NONCOMBUSTIBLE	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
LA-W920	ELEMENTAL MERCURY	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
LA-W921	ACTIVATED OR INSEPARABLE LEAD	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
LA-W922	NONCOMBUSTIBLE DEBRIS	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
LA-W923	INORGANIC SOLID OXIDIZERS	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
LA-W925	MERCURY WASTES – TBD	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
LA-W931	LEAD REQUIRING SORTING	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
NN-W003	DEBRIS WITH HEAVY METALS	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
NA-W005	ELEMENTAL LEAD SHIELDING	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	

INL Site Treatment Plan

Table 4-6. (continued).

Waste Stream ID	Waste Stream Name	Disposition Date
PXSTP#-2.1	WASTE WATER	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
PXSTP#-6.2	INORGANIC DEBRIS; CONTAMINATED	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
PH-W006	ELEMENTAL LEAD	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
PO-W006	WASTE HG, METALLIC	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
PO-W061	MERCURY SOLIDS	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
PS-W007	DEBRIS WITH HEAVY METALS AND PCBS	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
PS-W012	PAINT CHIPS WITH HEAVY METALS AND PCBS	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
PS-W013	ELEMENTAL LEAD	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
RP-W001	NE FAST REACTOR PHYSICS SODIUM	10/31/01
	Disposition: WASTE WILL NOT BE RECEIVED AT THE INL FOR TREATMENT.	
MI-W001	SOLID WASTE WITH HEAVY METALS	10/31/03
	Disposition: Waste was shipped offsite for disposal.	
MI-W008	BRASS AND BRONZE	10/31/03
	Disposition: Waste was shipped offsite for disposal.	
MI-W014	INORGANIC DEBRIS W/HEAVY METALS W/O Hg	10/31/03
	Disposition: Waste was shipped offsite for disposal	
CN-W003	LEAD AND/OR CHROMIUM-BASED PAINT CHIPS	4/21/04
	Disposition: Treated and no longer generated	
CN-W005	Cd-PLATED METALS	4/21/04
	Disposition: Treated and no longer generated	
CN-W006	BRASS & BRONZE	4/21/04
	Disposition: Treated and no longer generated	
MI-W002	SOLIDIFIED SOLLUTION WITH HEAVY METALS	4/21/04
	Disposition: Treated and no longer generated	
MI-W003	PAINT CHIPS W/HEAVY METALS	4/21/04
	Disposition: Treated and no longer generated	

INL Site Treatment Plan

Table 4-6. (continued).

Waste Stream ID	Waste Stream Name	Disposition Date
MI-W004	EQUIPMENT CONTAINING THALLIUM	4/21/04
	Disposition: Treated and no longer generated	
MI-W010	BATTERIES AND FILM PACKS WITH MERCURY	4/21/04
	Disposition: Treated and no longer generated	
MI-W011	MATERIALS CONTAINING PCBs	4/21/04
	Disposition: Treated and no longer generated	

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5. INL TREATMENT FACILITY SCHEDULES

Mixed wastes at the INL are predominately expected to be treated to meet LDR treatment standards through a number of on-Site and commercial facilities.

Section 3 of this STP identifies those treatment facilities that will treat the INL mixed waste and the off-Site waste destined to be treated at the INL. Section 4 of this STP identifies those waste streams scheduled for treatment by the INL. This Section 5 contains the schedules for those INL facilities that will treat the mixed waste previously identified in Section 4. Based on future funding projections, the current life-cycle costs for the existing and planned INL treatment facilities may exceed available funding and possibly delay the schedules presented in this Section 5.

Milestones and planning dates are identified by reference to quarters, as outlined in Section 2.2.2.3. The first quarter, or "1Q," shall have December 31 as its corresponding specific date. The second quarter, or "2Q," shall have March 31 as its corresponding specific date; the third quarter, or "3Q," shall have June 30 as its corresponding specific date; and the fourth quarter, or "4Q," shall have September 30 as its specific date.

5.1 Schedules for Treatment Facilities for Which Technology Exists

Schedules have been developed for the treatment facilities that will apply existing technology to treat INL mixed waste streams. Table 5-1 presents the schedules for these existing treatment technologies. For new facilities, the schedule is heavily dependent on decisions made during the design phase and is contingent on funding availability. Assumptions and professional judgments related to the type of treatment technology, location of the treatment facility, contracting mechanism, project approval process, cost, and other considerations were used to develop the estimated schedule. Any variation from these assumptions will affect the estimated schedule. Cost data used in developing options and schedules are planning estimates only and do not reflect a commitment of budgetary resources.

5.1.1 Mixed Waste to be Treated at Existing Facilities

Waste streams identified to be treated in the individual facilities in this section are found in Table 6-1 of this STP.

5.1.1.1 General Assumptions for Existing Facility Schedules.

[RESERVED]

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Table 5-1. Milestones/planning dates for mixed wastes with existing treatment technologies.

Facility	Assumptions	Schedule
SBW Treatment Facility (liquid sodium waste)		<i>P-1, Transmit Permit Modification request and request for Temporary Authorization 4Q 2008(Completed)</i> <i>P-2, Procure Contracts; (Completed)</i> <i>P-3, Initiate Construction (Completed)</i> <i>P-4, Commence Full-Scale System Testing. 3Q 2011</i> <i>P-5, Commence Operations 2Q 2012</i> <i>P-6, Schedule for System Backlog 2Q 2012</i>
Remote Handled TRU Waste Disposition Project (sodium bonded waste)		<i>P-1, Submit Part B: 2Q 2013</i> <i>P-2, Procure Contracts: N/A</i> <i>P-3, Initiate Construction: N/A</i> <i>P-4, Commence System Testing: 1Q 2015</i> <i>P-5, Commence Operations: 3Q 2016</i> <i>P-6, Schedule for System Backlog: 1Q 2016</i>

The Remote Handled TRU Waste Disposition Project is developing a treatment process for the treatment of RH waste mixed with Na and NaK. The P-1 through P-5 milestones are associated with the development of this RH waste treatment process..

5.1.1.2 General Milestone and Planning Date Descriptions. The following are general descriptions for milestones and planning dates for existing facilities identified in this section. Specific descriptions of milestones and planning dates that differ from the general descriptions are identified in Table 5-1 for each individual facility.

- **P-1, Submit Part B:** The date on which INL presents the RCRA Part B submittal to the DEQ for approval.
- **P-2, Procure Contracts:** The date on which contracts are in place for the design of facilities and/or process equipment.
- **P-3, Initiate Construction:** The date on which contractor(s) have mobilized and construction of a process or facility containing a process begins.
- **P-4, Commence System Testing:** The date on which testing begins on the treatment process equipment on “cold” feedstock.

- 1 • **P-5, Commence Operations:** The date on which treatment of waste using the treatment process
2 begins.

- 3 • **P-6, Schedule for System Backlog:** The date on which the INL submits a schedule after
4 commencing operation identifying time required for processing waste currently in storage. This
5 includes waste in storage at the INL.

- 6 • **S-1, State Action:** Estimated date of approved Part B. This date is not a milestone or planning
7 date.

8 **5.2 Schedules for Treatment Facilities for Which Technology Exists** 9 **but Needs Adaptation, or for Which No Technology Exists**

10 Schedules for the modification or development of needed technologies for mixed waste streams
11 for which technology exists but needs some modification to be applicable to INL waste streams or for
12 which technology development is needed have been developed for the treatment facilities that will treat
13 these mixed waste streams. Section 5.2.2 presents the schedules for these planned treatment technologies.

14 **5.2.1 Mixed Waste to be Treated by Planned Facilities**

15 Waste streams identified to be treated in the individual facilities in this section are found in
16 Table 6-1 of this STP.

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5.2.1.1 General Assumptions for Planned Facility Schedules.

Table 5-2. Milestones/planning dates for mixed wastes without existing treatment technologies.

Facility	Assumptions	Schedule
Calcine Disposition Project		<p><i>P-0</i>, Define project - (completed) <i>P-1</i> Identify funding requirements Completed <i>P-2</i>, Identify and develop technology - Per the Settlement Agreement Section E.6, the Record of Decision issued by December 31, 2009 will identify calcine retrieval and treatment technologies. DOE will submit a separate P-2 milestone letter, after ROD signature (completed) <i>P-3</i> Submit treatability study notification , (completed) <i>P-4</i> Submit R&D Permit Applications (Not Planned)</p> <p><i>P-5</i>, Schedule for Table 5-1 (Table 2-1 Milestones/Planning dates) - Per the Settlement Agreement Section E.6, the December 31, 2009 ROD will include the schedule for ROD implementation. DOE will submit a separate P-5 milestone letter after any issues resulting from completion of P-2 are resolved. 1Q 2013 <i>P-6</i>, Proposal for feasibility study Completed <i>P-7</i> Submit RCRA Part B application (or regulatory equivalent) for calcine retrieval, treatment (if necessary) and packaging 1Q 2013</p>

5.2.1.2 General Milestone and Planning Date Descriptions. The following are general descriptions for milestones and planning dates for planned facilities identified in this section. Specific descriptions of milestones and planning dates that differ from the general descriptions are identified in the individual facility section.

- P-0, Define Project:** The date on which system analysis, private-sector evaluation, or other appropriate studies, including the use of mobile treatment units have been completed and an appropriate method(s) of providing treatment or waste management in accordance with LDR requirements can be proposed to the State of Idaho.
- P-1, Identify Funding Requirements:** The date on which the cost and schedule for spending funds are submitted in an Activity Data Sheet (ADS) to DOE-HQ for the identification and development of technology.

- 1 • **P-2, Identify and Develop Technology:** The date on which technologies are identified and
2 incorporated into the conceptual design.
- 3 • **P-3, Submit Treatability Study Notification:** The date on which the DEQ is notified that
4 treatability studies are required to assist in the development of treatment technology for a
5 specified technology and will be performed pursuant to the exemption in 40 CFR 261.4(e) and
6 (f).
- 7 • **P-4, Submit R&D Permit Applications:** The date on which the research and development
8 (R&D) permit application is submitted to the DEQ.
- 9 • **P-5, Schedule for Table 5-1 Milestones:** The date on which the Table 5-1 milestones are
10 submitted to the DEQ for inclusion in the approved STP.
- 11 • **P-6, Proposal for Feasibility Study:** The date on which DOE solicits proposals for feasibility
12 studies.
- 13 • **P-7, Submit RCRA Part B Application:** The date on which the INL presents the RCRA Part B
14 submittal to the DEQ for approval.

15 **5.2.2 Facility-Specific Schedules**

16 Table 5-2 presents the schedules for planned technologies.

17 **5.3 Schedules for Mixed Waste Streams Planned for Treatment** 18 **Off-Site**

19 (Reserved - Currently, no waste streams are identified for off-Site treatment which requires treatment
20 development.)

21

1 **5.3.1 General Assumptions for Mixed Waste Streams Intended for Treatment Off-Site**

- 2 • Changes due to the reality of congressional funding changes and DOE prioritization activities
3 may require additional time to complete milestones.
- 4 • These schedules assume that the DEQ will review and approve permits in a timely manner.

5 **5.3.2 General Milestone and Planning Date Descriptions**

6 The following are general descriptions for milestones and planning dates for mixed waste streams
7 intended for treatment off-Site.

- 8 • **P-1, Complete Necessary Characterization:** Dependent on the off-Site treatment facility WAC,
9 additional characterization may be necessary to meet that WAC. This will be determined upon
10 review of the facility's WAC with the waste profile sheets.
- 11 • **P-2, Complete Sorting:** Sorting and segregation of waste streams may be necessary in order to
12 characterize and certify waste streams for shipment to a treatment facility. If sorting is required, it
13 will be completed, as needed.
- 14 • **P-3, Complete Repackaging:** Once the waste streams have been certified to meet the treatment
15 facility's WAC, the wastes will be (re)packaged for transportation and as per the Waste
16 Certification Program.
- 17 • **P-4, Prepare Waste Stream Request for Storage and Treatment:** A request will be sent to the
18 treatment facility for the treatment of the waste.
- 19 • **P-5, Ship Waste Off-Site:** The shipment of waste to an off-Site facility will be established 90
20 days after the treatment facility P-6 milestone has been fulfilled.

21 **5.3.3 Facility-Specific Schedules**

22 Table 5-3 (Reserved).

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5.4 Mixed Transuranic-Contaminated Waste Shipped to WIPP

Mixed Transuranic (MTRU) waste is mixed waste that contains more than 100 nCi of alpha-emitting transuranic isotopes per gram of waste with half-lives greater than 20 years. Alpha contaminated Mixed Low Level Waste (α -MLLW) waste is mixed waste containing between 10 and 100 nCi of alpha-emitting transuranic isotopes per gram of with half-lives greater than 20 years. DOE has historically managed α -MLLW and MTRU waste together in the same storage areas/facilities at the INL and generally plans to treat and/or repackage wastes at the INL (both MTRU and α -MLLW) to meet the WAC for disposal at the WIPP or an appropriate MLLW facility.⁸ For the purposes of this STP, DOE has identified these wastes in Table 4-2, except for certain newly generated MTRU wastes identified in Table 4-2a. DOE expects to identify or generate additional waste during processing the wastes identified in Table 4-2 that will be more appropriately managed as MLLW. MTRU and α -MLLW waste will be processed by 1Q FY 2019 as follows:⁹

8. As described in section 4.1, supra, DOE no longer uses the designation α -MLLW for MLLW with less than 100 nCi/g of waste. The waste DOE previously designated as α -MLLW is contained in Table 4-2 and will be disposed of in accordance with 4.2 and 5.4.

9. DOE asserts that the waste covered by this section was "designated for disposal at WIPP" when the STP was effective on November 1, 1995, and became exempt from the requirements of this STP and the Federal Facility Compliance Act by virtue of Section 3188 of the WIPP Land Withdrawal Amendments Act of 1996 (P.L. 104-201, 110 Stat. 2422). DEQ does not concur. As provided in section 5.4 of the Consent Order incorporating this STP, DOE specifically reserves the rights, authority, claims, or defenses, including sovereign immunity, that it may have regarding state jurisdiction over wastes designated for disposal at WIPP. Notwithstanding this reservation, DOE agrees the milestones set forth in this STP for processing transuranic contaminated wastes are enforceable under this STP and Consent Order.

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1 1. Commencing in FY 2006, DOE agrees to process a cumulative average of 4,500 cubic meters of
2 original volume of transuranic contaminated waste per year (waste listed in Table 4-2) through
3 the Advanced Mixed Waste Treatment Project or other facility as follows:

4
5 (a) DOE may count the waste as processed toward the annual 4,500 cubic meters
6 requirement once DOE has either: (1) certified the waste for disposal at the WIPP, or (2)
7 declared that the waste will be managed as MLLW.

8
9 (b) When the total volume of a mixed waste stream in Table 4-2 has been certified for
10 disposal at WIPP, it may be deleted from the STP under Section 2.7.1, "Deletion of
11 Waste Streams." When deleted, the waste stream will be included in Table 4-6, "Deleted
12 waste streams."

13
14 (c) DOE shall declare that specific mixed waste will be managed as MLLW by adding it to
15 table 4-1, "Mixed Low Level Waste Streams Requiring Treatment" and submitting the
16 table along with other pertinent information at the quarterly meetings or in writing prior
17 to such meetings. Only waste identified in such written submissions to DEQ shall be
18 considered MLLW and counted toward meeting the requirements for processing waste
19 under this section.

20
21 2. The term "cumulative average" as used in this section means the amount of waste required to be
22 processed annually (4,500 cubic meters) multiplied the number of years starting in FY 2006. For
23 example, by FY 2010 DOE must have processed 22,500 cubic meters of original volume of
24 transuranic contaminated waste (5 years times 4,500 cubic meters). The amount of waste
25 processed in any year in excess of the required amount may be applied toward the cumulative
26 average in subsequent years.

27
28 3. The term "original volume" as used in this section means the waste volume prior to processing
29 that is identified in Table 4-2, "Transuranic waste streams designated for WIPP."

30
31 Nothing in this STP affects or modifies the obligations and remedies in the October 17, 1995,
32 Settlement Agreement and Court Order. The INL facilities to treat mixed transuranic contaminated waste
33 include the RWDP (at CPP-659 and CPP-666) and AMWTP Treatment Plant.

1 **5.4a Processing of Newly Generated Mixed Transuranic-Contaminated**
2 **Waste**

3 DOE intends to process for shipment the newly generated MTRU waste [i.e., MTRU generated after
4 the effective date of the Settlement Agreement & Consent Order] included in Table 4-2a after it has
5 finished processing waste included in Table 4-2. MTRU waste identified in Table 4-2a will be processed
6 per a schedule to be submitted by DOE no later than 1Q FY 2019. The waste in Table 4-2a will be
7 processed as follows:

- 8
- 9 (a) DOE may count the waste as processed when DOE has certified the waste for disposal at
10 the WIPP.
- 11
- 12 (b) When the total volume of a MTRU waste stream in Table 4-2a has been certified for
13 disposal at WIPP, it may be deleted from the STP under Section 2.7.1, "Deletion of
14 Waste Streams." When deleted, the waste stream will be included in Table 4-6, "Deleted
15 waste streams."
- 16
- 17 (c) DOE shall provide pertinent information regarding any MLLW or other waste streams
18 generated during processing wastes on Table 4-2a at the quarterly meetings or in writing
19 prior to such meetings. If DOE generates MLLW as a result of processing the waste on
20 Table 4-2a that is not expected to be treated or otherwise dispositioned within one year of
21 generation, DOE will amend or submit a waste stream treatment plan in accordance with
22 Section 2.4, "Inclusion of New Waste Streams."
- 23

5.5 Backlog Schedules for Operating Treatment Facilities

Backlog schedules are adjusted annually for operating treatment facilities and are subject to the procedures of Section 2 regarding milestones and planning dates, including Section 2.2, "Compliance Schedules," and Section 2.13, "Submittal and Review of Deliverables." Backlog milestones and planning dates will identify annual volumes of backlogged wastes expected to be treated by the end of the fourth quarter of each fiscal year per Section 2.2.2.3. The backlog schedule will be established and annually adjusted based on: (1) the actual volume of waste in storage as of the end of the fourth quarter of the prior fiscal year (backlog), (2) the operational capacity of the treatment unit, and (3) plans for treating the estimated volumes of any wastes projected to be generated or received from off-Site. Adjustments to the backlog schedules will be discussed and then approved, as applicable and appropriate, as part of the fourth quarter STP meeting (October) and reflected in the Annual Report. The treatment schedules will identify the volume of backlog waste to be treated by the applicable facility by September 30 of each fiscal year in the schedule. Specific descriptions of milestones are identified in Table 5-5.

Table 5-5. Milestones for treatment of waste backlog per treatment unit.

Facility	Storage m ³	FY-12	FY-13	FY-14
SCMS/Commercial Treatment	34	2 m ³	2 m ³	2 m ³
Commercial Treatment	16	14 m ³	*TBD m ³	**TBD m ³
RH Repackaging	3.2	0.0m ³	0.3m ³	2.0m ³
Original Volume Transuranic-Contaminated Wastes	27,656	4,500 m ³ (22,500m ³ cum avg.)	4,500 m ³ (27,000m ³ cum avg.)	4,500m ³ (31,500m ³ cum avg.)

* The volume of backlog for Commercial Treatment is unknown for FY-13. If some backlog is generated between now and September 2012, then a backlog treatment volume will be set for FY-13.

** The volume for Commercial Treatment is unknown for FY-14 and will be set once the volume for FY-13 becomes clear.

1 **6. WASTE STREAM TREATMENT PLANS**

2 Table 6-1 shows the on-Site and off-Site waste streams currently being proposed for treatment at
3 each INL facility. Both on-Site and off-Site waste streams have been assessed for treatment by evaluating
4 the total waste stream. In some cases, a particular waste stream may require treatment at more than one
5 facility. For example, a contaminated debris waste stream that has a proposed treatment option of
6 incineration at one facility is also included with waste requiring stabilization at another facility. This
7 method may result in a given waste stream being listed under several treatment units.

8 Table 6-2 lists the on-Site and off-Site waste streams and includes the volumes and five-year
9 generation estimates for each waste stream and the current treatment plan. The treatment plans for each
10 waste stream include pretreatment steps such as segregation and sizing and the treatment train required
11 for each portion of the waste stream. In some cases, a waste stream is segregated and treated separately.
12 In those cases, the separate steps are listed by volume percent of the original waste stream.

13
14

Table 6-1. Summary of the treatment selection process by preferred treatment option.

Waste Stream ID	Waste Stream Name	Waste Stream ID	Waste Stream Name
AMWTP	Advanced Mixed Waste Treatment Project		
INL waste streams:			
CH-ANL-142T	LEAD-CONTAMINATED WASTE	ID-AEO-101T	CUT UP GLOVEBOXES
ID-AEO-100T	GENERAL PLANT WASTE	ID-AEO-106T	SPECIAL SOURCE MATERIAL
ID-AEO-102T	ABSORBED LIQUIDS	ID-AEO-120T	COMPACTIBLE AND COMBUSTIBLE WASTE
ID-AEO-105T	EMPTY BOTTLES AND ABSORBENTS	ID-ANL-162T	ANL-W FMF EFL Zr-U FUEL CASTING ALLOYS
ID-AEO-110T	RESEARCH-GENERATED WASTE COMPACTIBLE & COMBUSTIBLE	ID-BCO-201T	NONCOMBUSTIBLE SOLIDS
ID-ANL-161	ANL-W ANALYTICAL CHEMISTRY LAB GLASSWARE	ID-BCO-203T	PAPER, METALS, GLASS
ID-ANL-163T	ANL-W ACL COLD-LINE ABSORBED LIQUID, MIS.	ID-BTO-010T	RAGS, GLOVES, POLY.
ID-BCO-202T	COMBUSTIBLE SOLIDS	ID-BTO-030T	SOLIDIFIED GRINDING SLUDGE, ETC.
ID-BCO-204T	SOLIDIFIED SOLUTIONS	ID-INL-142T	TRANSURANIC-CONTAMINATED LEAD DEBRIS
ID-BTO-020T	NONCOMPRESSIBLE, NONCOMBUSTIBLE	ID-INL-155T	SCRAP
ID-BTO-040T	SOLID BINARY SCRAP POWDER, ETC.	ID-MDO-801T	RAGS, PAPER, WOOD, ETC.
ID-INL-150T	LABORATORY WASTE	ID-MDO-803T	METAL, EQUIPMENT, PIPES, VALVES, ETC.
ID-INL-157T	MISCELLANEOUS SOURCES	ID-MDO-810T	GLASS, FLASKS, SAMPLE VIALS, ETC.
ID-MDO-802T	DRY BOX GLOVES AND O-RINGS	ID-MDO-813T	GLASS FILTERS AND FIBERGLASS
ID-MDO-805T	ASBESTOS FILTERS	ID-MDO-815T	CLASSIFIED PARTS
ID-MDO-811T	EVAPORATOR AND DISSOLVER SLUDGE	ID-MDO-826T	COMBUSTIBLE EQUIPMENT BOXES OR FLOOR SW
ID-MDO-814T	CONTAMINATED MERCURY OR GRAPHITE CRUCIBLE	ID-MDO-834T	HIGH-LEVEL ACID
ID-MDO-824T	NONCOMBUSTIBLE EQUIPMENT BOXES	ID-MDO-836T	HIGH-LEVEL SLUDGE/CEMENT
ID-MDO-827T	COMBUSTIBLE EQUIPMENT DRUMS	ID-MDO-842T	CONTAMINATED SOIL
ID-MDO-835T	HIGH-LEVEL CAUSTIC	ID-MDO-848T	LOW SPECIFIC ACTIVITY (<100 pCi/g) NONC.
ID-MDO-838	<10 pCi/g NONCOMBUSTIBLE	ID-OFS-121T	DECONTAMINATION AND DECOMMISSIONING WASTE
ID-MDO-847T	LOW SPECIFIC ACTIVITY (<100 pCi/g) COMB.	ID-RFO-001T	FIRST STAGE SLUDGE
ID-OFS-111T	RESEARCH-GENERATED WASTE NONCOMPACTIBLE	ID-RFO-003T	ORGANIC SETUPS, OIL SOLIDS
ID-RFO-000T	NOT RECORDED - UNKNOWN	ID-RFO-005T	EVAPORATOR SALTS
ID-RFO-002T	SECOND STAGE SLUDGE	ID-RFO-090	DIRT
ID-RFO-004T	SPECIAL SETUPS (CEMENT)	ID-RFO-113T	SOLID LAB WASTE
ID-RFO-007T	BLDG 374 DRY SLUDGE	ID-RFO-116T	COMBUSTIBLE WASTE
ID-RFO-112T	SOLIDIFIED ORGANICS	ID-RFO-118T	GLASS WASTE
ID-RFO-114T	SOLIDIFIED PROCESS SOLIDS	ID-RFO-122	INORGANIC SOLID WASTE
ID-RFO-117T	METAL WASTE	ID-RFO-123T	LEADED RUBBER
ID-RFO-119T	HEPA FILTER WASTE	ID-RFO-290	FILTER SLUDGE
ID-RFO-122T	INORGANIC SOLID WASTE	ID-RFO-301T	GRAPHITE CORES
ID-RFO-241T	AMERICIUM PROCESS RESIDUE		
ID-RFO-292T	CEMENTED SLUDGE		

Table 6-1. (continued).

	Waste Stream ID	Waste Stream Name	Waste Stream ID	Waste Stream Name
2	ID-RFO-302T	BENELEX AND PLEXIGLASS	ID-RFO-312T	COARSE GRAPHITE
3	ID-RFO-320T	HEAVY NONSPECIAL SOURCE METAL	ID-RFO-328T	FULFLO INCINERATOR FILTERS
4	ID-RFO-330T	DRY PAPER AND RAGS	ID-RFO-335T	ABSOLUTE 8 X 8 FILTERS
5	ID-RFO-336T	MOIST PAPER AND RAGS	ID-RFO-337T	PLASTICS, TEFLON, WASH, PVC
6	ID-RFO-338T	INSULATION AND CHEMICAL WARFARE SERVICE	ID-RFO-339T	LEADED RUBBER GLOVES AND APRONS
7	ID-RFO-360T	INSULATION	ID-RFO-371T	FIREBRICK
8	ID-RFO-374T	BLACKTOP, CONCRETE, DIRT, AND SAND	ID-RFO-375T	OIL-DRI RESIDUE FROM INCINERATOR
9	ID-RFO-376T	CEMENTED INSULATION AND FILTER MEDIA	ID-RFO-409T	MOLTEN SALTS - 30% UNPULVERIZED
10	ID-RFO-414T	DIRECT OXIDE REDUCTION SALT	ID-RFO-430T	UNLEACHED ION COLUMN RESIN
11	ID-RFO-431T	LEACHED RESIN	ID-RFO-432T	LEACHED AND CEMENTED RESIN
12	ID-RFO-440T	GLASS	ID-RFO-441T	UNLEACHED RASHIG RINGS
13	ID-RFO-442T	LEACHED RASHIG RINGS	ID-RFO-460T	WASHABLES, RUBBER, PLASTICS
14	ID-RFO-463T	LEADED RUBBER GLOVES AND APRONS	ID-RFO-464T	BENELEX AND PLEXIGLASS
15	ID-RFO-480T	NONSPECIAL SOURCE METAL	ID-RFO-481T	LEACHED NONSPECIAL SOURCE METAL
16	ID-RFO-490T	CHEMICAL WARFARE SERVICE FILTERS	ID-RFO-700T	ORGANIC AND SLUDGE IMMOBILIZATION SYSTEM
17	ID-RFO-900T	LOW SPECIFIC ACTIVITY PLASTICS, PAPER, ETC.	ID-RFO-970T	WOOD
18	ID-RFO-950T	LOW SPECIFIC ACTIVITY METAL, GLASS, ETC.	ID-RFO-978T	LAUNDRY SLUDGE
19	ID-RFO-976T	BLDG 776 PROCESS SLUDGE	ID-RFO-990	DIRT
20	ID-RFO-980T	FILTER SLUDGE	ID-TEC-156	CHEM CELL RIP-OUT
21	ID-RFO-9999T	PRE-73 DRUMS	ID-TEC-699T	MIXED TRU WASTE FROM NWCF AND CSSF
22	ID-TEC-670T	MTRU LABORATORY ANALYTICAL WASTE	NTS Debris	MTRU Debris waste from Nevada Test Site
23	Off-site waste streams			
24	NTS Debris and Sludge	Nevada National Security Site Waste	LLNL Debris and Sludge	Lawrence Livermore National Laboratory Waste
25	GEY Debris	Debris Waste from General Electric Vallicitos	SNL Waste	Sandia National Laboratory Waste
26	Hanford Waste	Hanford Site Waste	ANL-E Waste	Argonne National Laboratory-Chicago Waste
27	LANL Waste	Los Alamos National Laboratory Waste	ORNL Waste	Oak Ridge National Laboratory Waste
28				
29	CPP-659	HEPA Filter Disposition		
30	INL waste streams:			
31	ID-TEC-172	HEPA FILTERS	ID-TEC-305	LLW APS HEPA FILTERS
32	ID-TEC-720	FDP HEPA FILTERS	ID-TEC-721	VOG HEPA FILTERS
33	CTF			
34	INL waste streams:			
35				
36	CH-ANL-716	DEBRIS AND/OR SOLIDS W/HEAVY METALS	ID-INL-800	CLASS B&C WASTE
37	ID-INL-801	CLASS A WASTE	ID-INL-802	INTEC CLASS A WASTE

Table 6-1. (continued).

	Waste Stream ID	Waste Stream Name	Waste Stream ID	Waste Stream Name
1				
2	ID-INL-803	AEROSOL WASTE	ID-INL-804	TSCA WASTE
3	ID-INL-805	INTEC CLASS B&C WASTE	ID-AMWTP-100	MIXED WASTE INCIDENTAL TO PROCESSING
4	ID-AMWTP-300	MLLW FROM ANL	ID-AMWTP-200	RECLASSIFIED MLLW FROM AMWTP
5				
6		Calcine Disposition Facility		
7		INL waste streams:		
8	ID-TEC-174	HIGH-LEVEL WASTE CALCINE SOLIDS		
9				
10		Treatment Facility		
11		INL waste streams:		
12	ID-TEC-173	SODIUM-BEARING WASTE		
13				
14	RWDP	Remote Waste Disposition Project		
15		INL waste streams:		
16	CH-ANL-180T	SODIUM - TRU	CH-ANL 180	RH SODIUM LLW Remote Handled
17	CH-ANL-182	SODIUM POTASSIUM NaK Remote Handled	CH-ANL-182T	SODIUM POTASSIUM -NaK- TRU
18	ID-ANL-160T	ANL-W HFEF ANALYTICAL CHEMISTRY AND METAL	ID-ANL-161	ANL-W ANALYTICAL CHEMISTRY LAB GLASSWARE
19	ID-BTO-030	SOLIDIFIED GRINDING SLUDGE, ETC.		
20	ID-BTO-040T	SOLID BINARY SCRAP POWDER, ETC.	ID-INL-150T	LABORATORY WASTE
21	ID-INL-157T	MISCELLANEOUS SOURCES		
22	ID-RFO-000T	NOT RECORDED - UNKNOWN	ID-RFO-001T	FIRST STAGE SLUDGE
23	ID-RFO-002T	SECOND STAGE SLUDGE	ID-RFO-320T	HEAVY NONSPECIAL SOURCE METAL
24	ID-RFO-330T	DRY PAPER AND RAGS	ID-RFO-335T	ABSOLUTE 8 X 8 FILTERS
25	ID-RFO-336T	MOIST PAPER AND RAGS	ID-RFO-337T	PLASTICS, TEFLON, WASH, PVC
26	ID-RFO-339T	LEADED RUBBER GLOVES AND APRONS	ID-RFO-432T	LEACHED AND CEMENTED RESIN
27	ID-RFO-440T	GLASS	ID-RFO-441T	UNLEACHED RASHIG RINGS
28	ID-RFO-442T	LEACHED RASHIG RINGS	ID-RFO-463T	LEADED RUBBER GLOVES AND APRONS
29	ID-RFO-480T	NONSPECIAL SOURCE METAL	ID-RFO-481T	LEACHED NONSPECIAL SOURCE METAL
30	ID-RFO-9999T	PRE-73 DRUMS	ID-TAN-200T	AMERICIUM SOURCES
31	ID-RWDP	RH RH WASTE TO BE TREATED AT RWDP		
32				
33	SCMS	DEACT		
34		INL waste streams:		
35	CH-ANL-179	SODIUM (CONTAMINATED) TIN BISMUTH ALLOY	CH-ANL-180	SODIUM - LLW Contact Handled
36	CH-ANL-182	SODIUM POTASSIUM NaK Contact Handled	CH-ANL-722	LITHIUM HYDRIDE
	CH-ANL-506	SODIUM STORED IN BLDG 703 & OTHER AREAS		

Table 6-1. (continued).

	Waste Stream ID	Waste Stream Name	Waste Stream ID	Waste Stream Name
2	SCMS	Neutralization		
3		None at this time		
4	SCMS	Open/Melt/Drain		
5		INL waste streams:		
6		CH-ANL-506		SODIUM STORED IN BLDG 703 & OTHER AREAS
7	SCMS	Stabilization		
8		INL waste streams:		
9		None at this Time		
10	WIPP	Disposal - Contact-Handled		
11		INL waste streams:		
12		CH-ANL-142T		LEAD-CONTAMINATED WASTE
13		ID-AEO-100T		GENERAL PLANT WASTE
14		ID-AEO-102T		ABSORBED LIQUIDS
15		ID-AEO-106T		SPECIAL SOURCE MATERIAL
16				
17		ID-AEO-120T		COMPACTIBLE AND COMBUSTIBLE WASTE
18				ID-ANL-162T
19				
20				
21				
22		ID-BCO-203T		PAPER, METALS, GLASS
23		ID-BTO-010T		RAGS, GLOVES, POLY
24		ID-BTO-030T		SOLIDIFIED GRINDING SLUDGE, ETC.
25		ID-INL-142T		TRANSURANIC-CONTAMINATED LEAD DEBRIS
26		ID-INL-155		SCRAP
27		ID-INL-157T		MISCELLANEOUS SOURCES
28		ID-MDO-802T		DRY BOX GLOVES AND O-RINGS
29		ID-MDO-805T		ASBESTOS FILTERS
30		ID-MDO-811T		EVAPORATOR AND DISSOLVER SLUDGE
31		ID-MDO-814T		CONTAMINATED MERCURY OR GRAPHITE CRUCIBLE
32		ID-MDO-824T		NONCOMBUSTIBLE EQUIPMENT BOXES
33		ID-MDO-827T		COMBUSTIBLE EQUIPMENT DRUMS
34		ID-MDO-835T		HIGH-LEVEL CAUSTIC-ID-MDO-836T
35		ID-MDO-838		<10 nCi/g NONCOMBUSTIBLE
36		ID-MDO-847T		LOW SPECIFIC ACTIVITY (<100 nCi/g) COMB.
			CH-ANL-241T	TRU-CD-HOT CELL WASTE
			ID-AEO-101T	CUT UP GLOVEBOXES
			ID-AEO-105T	EMPTY BOTTLES AND ABSORBENTS
			ID-AEO-110T	RESEARCH-GENERATED WASTE COMPACTIBLE & COMB.
			ID-ANL-161	ANL-W ANALYTICAL CHEMISTRY LAB GLASSWARE
			ANL-W FMF EFL Zr-U FUEL CASTING ALLOYS ID-ANL-163T	
			ID-BCO-201T	ANL-W ACL COLD-LINE ABSORBED LIQUID, MIS. NONCOMBUSTIBLE SOLIDS ID-BCO-202T
			ID-BCO-204T	NONCOMBUSTIBLE SOLIDS
			ID-BTO-020T	SOLIDIFIED SOLUTIONS
			ID-BTO-040T	NONCOMPRESSIBLE, NONCOMBUSTIBLE
			ID-INL-150T	SOLID BINARY SCRAP POWDER, ETC.
			ID-INL-155T	LABORATORY WASTE
			ID-MDO-801T	SCRAP
			ID-MDO-803T	RAGS, PAPER, WOOD, ETC.
			ID-MDO-810T	METAL, EQUIPMENT, PIPES, VALVES, ETC.
			ID-MDO-813T	GLASS, FLASKS, SAMPLE VIALS, ETC.
			ID-MDO-815T	GLASS FILTERS AND FIBERGLASS
			ID-MDO-826T	CLASSIFIED PARTS
			ID-MDO-834T	COMBUSTIBLE EQUIPMENT BOXES OR FLOOR SWE HIGH-LEVEL ACID
			ID-MDO-842T	CONTAMINATED SOIL
			ID-MDO-848T	LOW SPECIFIC ACTIVITY (<100 nCi/g) NONC.

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1 ID-OFS-111T RESEARCH-GENERATED WASTE NONCOMPACTIBLE ID-OFS-121T DECONTAMINATION AND DECOMMISSIONING WASTE
 2 Table 6-1. (continued).

Waste Stream ID	Waste Stream Name	Waste Stream ID	Waste Stream Name
ID-RFO-000T	NOT RECORDED - UNKNOWN	ID-RFO-001T	FIRST STAGE SLUDGE
ID-RFO-002T	SECOND STAGE SLUDGE	ID-RFO-003T	ORGANIC SETUPS, OIL SOLIDS
ID-RFO-004T	SPECIAL SETUPS (CEMENT)	ID-RFO-005T	EVAPORATOR SALTS
ID-RFO-007T	BLDG 374 DRY SLUDGE	ID-RFO-090	DIRT
ID-RFO-112T	SOLIDIFIED ORGANICS	ID-RFO-113T	SOLID LAB WASTE
ID-RFO-114T	SOLIDIFIED PROCESS SOLIDS	ID-RFO-116T	COMBUSTIBLE WASTE
ID-RFO-117T	METAL WASTE	ID-RFO-118T	GLASS WASTE
ID-RFO-119T	HEPA FILTER WASTE	ID-RFO-122T	INORGANIC SOLID WASTE
ID-RFO-123T	LEADED RUBBER	ID-RFO-241T	AMERICIUM PROCESS RESIDUE
ID-RFO-290	FILTER SLUDGE	ID-RFO-292T	CEMENTED SLUDGE
ID-RFO-301T	GRAPHITE CORES	ID-RFO-302T	BENELEX AND PLEXIGLASS
ID-RFO-312T	COARSE GRAPHITE	ID-RFO-320T	HEAVY NONSPECIAL SOURCE METAL
ID-RFO-328T	FULFLO INCINERATOR FILTERS	ID-RFO-330T	DRY PAPER AND RAGS
ID-RFO-335T	ABSOLUTE 8 X 8 FILTERS	ID-RFO-336T	MOIST PAPER AND RAGS
ID-RFO-337T	PLASTICS, TEFLON, WASH, PVC	ID-RFO-338T	INSULATION AND CHEMICAL WARFARE SERVICE
ID-RFO-339T	LEADED RUBBER GLOVES AND APRONS	ID-RFO-360T	INSULATION
ID-RFO-371T	FIREBRICK	ID-RFO-374T	BLACKTOP, CONCRETE, DIRT, AND SAND
ID-RFO-375T	OIL-DRI RESIDUE FROM INCINERATOR	ID-RFO-376T	CEMENTED INSULATION AND FILTER MEDIA
ID-RFO-409T	MOLTEN SALTS - 30% UNPULVERIZED	ID-RFO-414T	DIRECT OXIDE REDUCTION SALT
ID-RFO-430T	UNLEACHED ION COLUMN RESIN	ID-RFO-431T	LEACHED RESIN
ID-RFO-432T	LEACHED AND CEMENTED RESIN	ID-RFO-440T	GLASS
ID-RFO-441T	UNLEACHED RASHIG RINGS	ID-RFO-442T	LEACHED RASHIG RINGS
ID-RFO-460T	WASHABLES, RUBBER, PLASTICS	ID-RFO-463T	LEADED RUBBER GLOVES AND APRONS
ID-RFO-464T	BENELEX AND PLEXIGLASS	ID-RFO-480T	NONSPECIAL SOURCE METAL
ID-RFO-481T	LEACHED NONSPECIAL SOURCE METAL	ID-RFO-490T	CHEMICAL WARFARE SERVICE FILTERS
ID-RFO-700T	ORGANIC AND SLUDGE IMMOBILIZATION SYSTEM	ID-RFO-900T	LOW SPECIFIC ACTIVITY PLASTICS, PAPER, ETC.
ID-RFO-950T	LOW SPECIFIC ACTIVITY METAL, GLASS, ETC.	ID-RFO-970T	WOOD
ID-RFO-976T	BLDG 776 PROCESS SLUDGE	ID-RFO-978T	LAUNDRY SLUDGE
ID-RFO-980T	FILTER SLUDGE	ID-RFO-990	DIRT
ID-RFO-9999T	PRE-73 DRUMS	ID-TEC-156	CHEM CELL RIP-OUT
ID-TEC-670T	MTRU LABORATORY ANALYTICAL WASTE	ID-TEC-699T	MIXED TRU WASTE FROM NWCFF AND CSSF
Off-site waste streams			
NTS Debris and Sludge	Nevada National Security Site Waste	LLNL Debris and Sludge	Lawrence Livermore National Laboratory Waste
GEV Debris	Debris Waste from General Electric Vallicitos	SNL Waste	Sandia National Laboratory Waste
Hanford Waste	Hanford Site Waste	ANL-E Waste	Argonne National Laboratory-Chicago Waste
LANL Waste	Los Alamos National Laboratory Waste	ORNL Waste	Oak Ridge National Laboratory Waste

Table 6-1. (continued).

Waste Stream ID	Waste Stream Name	Waste Stream ID	Waste Stream Name
1			
2			
3	WIPP Disposal - Remote-Handled		
4	INL waste streams:		
5	CH-ANL-241T	CH-ANL-142T	LEAD-CONTAMINATED WASTE
6	CH-ANL-503T	CH-ANL-505T	ALHC UPGRADE DECON DEBRIS
7	ID-AEO-107T	ID-ANL-160T	ANL-W HFEF ANALYTICAL CHEMISTRY AND METAL
8	ID-ANL-161	ID-BTO-030	SOLIDIFIED GRINDING SLUDGE, ETC.
9	ID-BTO-040T	ID-INL-150T	LABORATORY WASTE
10	ID-INL-157T	ID-RFO-000T	NOT RECORDED - UNKNOWN
11	ID-RFO-001T	ID-RFO-002T	SECOND STAGE SLUDGE
12	ID-RFO-320T	ID-RFO-330T	DRY PAPER AND RAGS
13	ID-RFO-335T	ID-RFO-336T	MOIST PAPER AND RAGS
14	ID-RFO-337T	ID-RFO-339T	LEADED RUBBER GLOVES AND APRONS
15	ID-RFO-432T	ID-RFO-440T	GLASS
16	ID-RFO-441T	ID-RFO-442T	LEACHED RASHIG RINGS
17	ID-RFO-463T	ID-RFO-480T	NONSPECIAL SOURCE METAL
18	ID-RFO-481T	ID-RFO-9999T	PRE-73 DRUMS
19	ID-TAN-200T	ID-TEC-151T	SOLIDIFIED FUEL SLUDGE
20	ID-TRA-291T	ID-RWDP-RH	RH WASTE TO BE TREATED AT RWDP
	TRU CD-HOT CELL WASTE		
	TRU WASTE USED PRE-FILTERS		
	REMOTE-HANDLED WASTE		
	ANL-W ANALYTICAL CHEMISTRY LAB GLASSWARE		
	SOLID BINARY SCRAP POWDER, ETC.		
	MISCELLANEOUS SOURCES		
	FIRST STAGE SLUDGE		
	HEAVY NONSPECIAL SOURCE METAL		
	ABSOLUTE 8 X 8 FILTERS		
	PLASTICS, TEFLON, WASH, PVC		
	LEACHED AND CEMENTED RESIN		
	UNLEACHED RASHIG RINGS		
	LEADED RUBBER GLOVES AND APRONS		
	LEACHED NONSPECIAL SOURCE METAL		
	AMERICIUM SOURCES		
	TRU HEAVY METAL SLUDGE		

INL Site Treatment Plan

1 Table 6-2. Treatment plans.

Media Type (if more than one)	Volume %	Step	Facility Abbr.	Unit Name		
2 On-Site mixed waste treatment plans						
3 CH-ANL-142T	LEAD-CONTAMINATED WASTE			Storage (m ³):	0.0000	5-Year (m ³): 0.1000
4		a	AMWTP Private Unit			
5		b	TRANS Transport - TRUPACT			
6		c	WIPP Disposal - Contact-Handled			
7						
8 CH-ANL-179	SODIUM (CONTAMINATED) TIN BISMUTH ALLOY			Storage (m ³):	2.4898	5-Year (m ³): 0.4000
9		a	SCMS DEACT			
10		b	LLW Disposal - Contact-Handled			
11 CH-ANL-180	SODIUM - LLW Contact Handled			Storage (m ³):	26.9441	5-Year (m ³):
12		a	SCMS DEACT			
13		b	LLW Disposal - Contact-Handled			
14 CH-ANL-180	SODIUM - LLW Remote Handled			Storage (m ³):	44.2700	5-Year (m ³):
15		a	RWDP Disposition			
16		b	LLW Disposal - Remote Handled			
17						
18 CH-ANL-180T	SODIUM - TRU			Storage (m ³):	3.010	5-Year (m ³): 0.5000
19		a	RWDP Remote Waste Disposition Project			
20		b	TRANS Transport - 72B Cask			
21		c	WIPP Disposal - Remote-Handled			
22						
23 CH-ANL-182	SODIUM POTASSIUM NaK Contact Handled			Storage (m ³):	2.0297	5-Year (m ³): 0.2100
24		a	SCMS DEACT			
25		b	LLW Disposal - Contact-Handled			
26 CH-ANL-182	SODIUM POTASSIUM NaK Remote Handled			Storage (m ³):	0.5000	5-Year (m ³): 0.2100
27		a	RWDP Remote Waste Disposition Project			
28		b	LLW Disposal - Remote-Handled			
29 CH-ANL-182T	SODIUM POTASSIUM -NaK- TRU			Storage (m ³):	0.3000	5-Year (m ³): 0.0000
30		a	RWDP Remote Waste Disposition Project			
31		b	TRANS Transport - 72B Cask			
32		c	WIPP Disposal - Remote-Handled			
33						
34 CH-ANL-241T	TRU-CD-HOT CELL WASTE			Storage (m ³):	1.6600	5-Year (m ³): 0.1000
35		a	RWDP Remote Waste Disposition Project			
36		b	TRANS Transport - 72B Cask			
37		c	WIPP Disposal - Remote-Handled			
38						
39 CH-ANL-503T	TRU WASTE USED PRE-FILTERS			Storage (m ³):	0.2082	5-Year (m ³): 0.0000
40		a	RWDP Remote Waste Disposition Project			
41		b	TRANS Transport - 72B Cask			
42		c	WIPP Disposal - Remote-Handled			
43 CH-ANL-505T	ALHC UPGRADE DECON DEBRIS			Storage (m ³):	0.2082	5-Year (m ³): 0.0000
44		a	RWDP Remote Waste Disposition Project			
45		b	TRANS Transport - 72B Cask			
46		c	WIPP Disposal - Contact-Handled			
47 CH-ANL-506	SODIUM STORED IN BLDG 703 & OTHER AREAS			Storage (m ³):	1.9873	5-Year (m ³): 0.0000
48		a	SCMS Open/Melt/Drain			
49		b	SCMS DEACT			
50		c	LLW Disposal - Contact-Handled			

INL Site Treatment Plan

1 Table 6-2. (continued).

	Media Type (if more than one)	Volume %	Step	Facility Abbr.	Unit Name			
2	CH-ANL-553	WCA MIXED WASTE			Storage (m ³):	0.4164	5-Year (m ³):	21.0000
3			a	CTF	Commercial Thermal Treatment			
4			b	SCDF	Disposal - Contact-Handled			
5								
6	CH-ANL-716	DEBRIS AND/OR SOLIDS W/HEAVY METALS			Storage (m ³):	1.9600	5-Year (m ³):	0.0000
7			a	CTF	Commercial Treatment			
8			b	SCDF	Disposal Contact Handled			
9	CH-ANL-722	LITHIUM HYDRIDE			Storage (m ³):	2.3523	5-Year (m ³):	0.0000
10			a	SCMS	DEACT			
11			b	LLW	Disposal - Contact-Handled			
12								
13								
14	ID-AEO-100T	GENERAL PLANT WASTE			Storage (m ³):	.4240	5-Year (m ³):	0.0000
15			a	AMWTP	Private Unit			
16			b	TRANS	Transport - TRUPACT			
17			c	WIPP	Disposal - Contact-Handled			
18								
19	ID-AEO-101T	CUT UP GLOVEBOXES			Storage (m ³):	0.0000	5-Year (m ³):	0.0000
20			a	AMWTP	Private Unit			
21			b	TRANS	Transport - TRUPACT			
22			c	WIPP	Disposal - Contact-Handled			
23								
24	ID-AEO-102T	ABSORBED LIQUIDS			Storage (m ³):	22.2600	5-Year (m ³):	0.0000
25			a	AMWTP	Private Unit			
26			b	TRANS	Transport - TRUPACT			
27			c	WIPP	Disposal - Contact-Handled			
28								
29	ID-AEO-105T	EMPTY BOTTLES AND ABSORBENTS			Storage (m ³):	1.4840	5-Year (m ³):	0.0000
30			a	AMWTP	Private Unit			
31			b	TRANS	Transport - TRUPACT			
32			c	WIPP	Disposal - Contact-Handled			
33								
34	ID-AEO-106T	SPECIAL SOURCE MATERIAL			Storage (m ³):	0.2120	5-Year (m ³):	0.0000
35			a	AMWTP	Private Unit			
36			b	TRANS	Transport - TRUPACT			
37			c	WIPP	Disposal - Contact-Handled			
38								
39	ID-AEO-107T	REMOTE-HANDLED WASTE			Storage (m ³):	24.7400	5-Year (m ³):	0.0000
40			a	INTEC 659	Packaging/Repackaging			
41			b	TRANS	Transport - CNS 10-160B cask			
42			c	WIPP	Disposal - Remote-Handled			
43	ID-AEO-110T	RESEARCH-GENERATED WASTE COMPACT. & COMB.			Storage (m ³):	0.4240	5-Year (m ³):	0.0000
44			a	AMWTP	Private Unit			
45			b	TRANS	Transport - TRUPACT			
46			c	WIPP	Disposal - Contact-Handled			
47								
48								
49								
50								
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INL Site Treatment Plan

1 Table 6-2. (continued).

Media Type (if more than one)	Volume %	Step	Facility Abbr.	Unit Name			
ID-AEO-120T	COMPACTIBLE AND COMBUSTIBLE WASTE			Storage (m ³):	0.4240	5-Year (m ³):	0.0000
		a	AMWTP Private Unit				
		b	TRANS Transport - TRUPACT				
		c	WIPP Disposal - Contact-Handled				
ID-AMWTP-100	MIXED WASTE INCIDENTAL TO PROCESSING			Storage (m ³):	14.6220	5-Year (m ³):	50.0000
		a	CTF Commercial Treatment				
		b	SCDF Disposal - Contact-Handled				
ID-AMWTP-200	RECLASSIFIED MLLW FROM AMWTP			Storage (3)	39.1400		
		a	CTF Commercial Treatment				
		b	SCDF Disposal - Contact-Handled				
ID-AMWTP-300	MIXED LOW LEVEL WASTE FROM ANL			Storage (3)	51.3040		
		a	CTF Commercial Treatment				
		b	SCDF Disposal - Contact-Handled				
ID-ANL-160T	ANL-W HFEF ANALYTICAL CHEMISTRY AND META			Storage (m ³):	0.2120	5-Year (m ³):	0.0000
		a	RWDP RH - Preparation/Treatment				
		b	TRANS Transport - TRUPACT				
		c	WIPP Disposal - Remote-Handled				
ID-ANL-161	ANL-W ANALYTICAL CHEMISTRY LAB GLASSWARE			Storage (m ³):	1.0600	5-Year (m ³):	0.0000
RH	40.00	a	RWDP RH - Preparation/Treatment				
		b	TRANS Transport - TRUPACT				
		c	WIPP Disposal - Remote-Handled				
CH	60.00	a	SWEPP Assay/Segregation				
		b	AMWTP Private Unit				
		c	TRANS Transport - TRUPACT				
		d	WIPP Disposal - Contact-Handled				
ID-ANL-162T	ANL-W FMF EFL Zr-U FUEL CASTING ALLOYS R			Storage (m ³):	10.5820	5-Year (m ³):	0.0000
		a	AMWTP Private Unit				
		b	TRANS Transport - TRUPACT				
		c	WIPP Disposal - Contact-Handled				
ID-ANL-163T	ANL-W ACL COLD-LINE ABSORBED LIQUID, MIS			Storage (m ³):	1.2720	5-Year (m ³):	0.0000
		a	AMWTP Private Unit				
		b	TRANS Transport - TRUPACT				
		c	WIPP Disposal - Contact-Handled				
ID-BCO-201T	NONCOMBUSTIBLE SOLIDS			Storage (m ³):	8.9040	5-Year (m ³):	0.0000
		a	AMWTP Private Unit				
		b	TRANS Transport - TRUPACT				
		c	WIPP Disposal - Contact-Handled				
ID-BCO-202T	COMBUSTIBLE SOLIDS			Storage (m ³):	0.6360	5-Year (m ³):	0.0000
		a	AMWTP Private Unit				
		b	TRANS Transport - TRUPACT				
		c	WIPP Disposal - Contact-Handled				

INL Site Treatment Plan

1 Table 6-2. (continued).

	Media Type (if more than one)	Volume %	Step	Facility Abbr.	Unit Name			
2								
3	ID-BCO-203T	PAPER, METALS, GLASS			Storage (m ³):	5.5120	5-Year (m ³):	0.0000
4								
5			a	AMWTP	Private Unit			
6			b	TRANS	Transport - TRUPACT			
7			c	WIPP	Disposal - Contact-Handled			
8								
9	ID-BCO-204T	SOLIDIFIED SOLUTIONS			Storage (m ³):	1.4840	5-Year (m ³):	0.0000
10								
11			a	AMWTP	Private Unit			
12			b	TRANS	Transport - TRUPACT			
13			c	WIPP	Disposal - Contact-Handled			
14	ID-BTO-010T	RAGS, GLOVES, POLY			Storage (m ³):	199.2800	5-Year (m ³):	0.0000
15								
16			a	AMWTP	Private Unit			
17			b	TRANS	Transport - TRUPACT			
18			c	WIPP	Disposal - Contact-Handled			
19	ID-BTO-020T	NONCOMPRESSIBLE, NONCOMBUSTIBLE			Storage (m ³):	168.3280	5-Year (m ³):	0.0000
20								
21			a	AMWTP	Private Unit			
22			b	TRANS	Transport - TRUPACT			
23			c	WIPP	Disposal - Contact-Handled			
24	ID-BTO-030T	SOLIDIFIED GRINDING SLUDGE, ETC.			Storage (m ³):	9.9640	5-Year (m ³):	0.0000
25								
26			a	AMWTP	Private Unit			
27			b	TRANS	Transport - TRUPACT			
28			c	WIPP	Disposal - Contact-Handled			
29	ID-BTO-040T	SOLID BINARY SCRAP POWDER, ETC.			Storage (m ³):	36.4640	5-Year (m ³):	0.0000
30	CH	57.15						
31			a	AMWTP	Private Unit			
32			b	TRANS	Transport - TRUPACT			
33			c	WIPP	Disposal - Contact-Handled			
34	RH	42.85	a	RWDP	RH - Preparation/Treatment			
35			b	TRANS	Transport - TRUPACT			
36			c	WIPP	Disposal - Remote-Handled			
37	ID-INL-142T	TRANSURANIC-CONTAMINATED LEAD DEBRIS			Storage (m ³):	0.6246	5-Year (m ³):	0.0000
38								
39			a	AMWTP	Private Unit			
40			b	TRANS	Transport - TRUPACT			
41			c	WIPP	Disposal - Contact-Handled			
42	ID-INL-150T	LABORATORY WASTE			Storage (m ³):	31.0930	5-Year (m ³):	0.0000
43	CH	83.80						
44			a	AMWTP	Private Unit			
45			b	TRANS	Transport - TRUPACT			
46			d	WIPP	Disposal - Contact-Handled			
47	RH	16.20	a	RWDP	RH - Preparation/Treatment			
48			b	TRANS	Transport - TRUPACT			
49			c	WIPP	Disposal - Remote-Handled			

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INL Site Treatment Plan

1 Table 6-2. (continued).

Media Type (if more than one)	Volume %	Step	Facility Abbr.	Unit Name		
2 ID-INL-155T	SCRAP			Storage (m ³):	3.6000	5-Year (m ³): 0.0000
3		a	AMWTP Private Unit			
4		b	TRANS Transport - TRUPACT			
5		c	WIPP Disposal - Contact-Handled			
6						
7 ID-INL-157T	MISCELLANEOUS SOURCES			Storage (m ³):	3.8120	5-Year (m ³): 0.0000
8 RH	77.78	a	RWDP RH - Preparation/Treatment			
9		b	TRANS Transport - TRUPACT			
10		c	WIPP Disposal - Remote-Handled			
11 CH	22.22	a	AMWTP Private Unit			
12		b	TRANS Transport - TRUPACT			
13		c	WIPP Disposal - Contact-Handled			
14						
15 ID-INL-800	CLASS B&C WASTE			Storage (m ³):	0.2649	5-Year (m ³): 0.0000
16		a	CTF Commercial Macroencapsulation			
17		b	SCDF Disposal - Contact-Handled			
18 ID-INL-801	CLASS A WASTE			Storage (m ³):	0.0000	5-Year (m ³): 0.0000
19		a	CTF Commercial Macroencapsulation			
20		b	SCDF Disposal - Contact-Handled			
21 ID-INL-802	INTEC CLASS A WASTE			Storage (m ³):	0.0000	5-Year (m ³): 0.0000
22		a	CTF Commercial Macroencapsulation			
23		b	SCDF Disposal - Contact-Handled			
24 ID-INL-803	AEROSOL WASTE			Storage (m ³):	0.0000	5-Year (m ³): 0.0000
25		a	CTF Commercial Macroencapsulation			
26		b	SCDF Disposal - Contact-Handled			
27 ID-INL-804	TSCA WASTE			Storage (m ³):	0.0000	5-Year (m ³): 0.0000
28		a	CTF Commercial Macroencapsulation			
29		b	SCDF Disposal - Contact-Handled			
30 ID-INL-805	INTEC CLASS B & C WASTE			Storage (m ³):	1.2681	5-Year (m ³): 0.0000
31		a	CTF Commercial Macroencapsulation			
32		b	SCDF Disposal - Contact-Handled			
33 ID-MDO-801T	RAGS, PAPER, WOOD, ETC.			Storage (m ³):	7.4200	5-Year (m ³): 0.0000
34		a	AMWTP Private Unit			
35		b	TRANS Transport - TRUPACT			
36		c	WIPP Disposal - Contact-Handled			
37						
38 ID-MDO-802T	DRY BOX GLOVES AND O-RINGS			Storage (m ³):	25.6520	5-Year (m ³): 0.0000
39		a	AMWTP Private Unit			
40		b	TRANS Transport - TRUPACT			
41		c	WIPP Disposal - Contact-Handled			
42						
43 ID-MDO-803T	METAL, EQUIPMENT, PIPES, VALVES, ETC.			Storage (m ³):	38.1600	5-Year (m ³): 0.0000
44		a	AMWTP Private Unit			
45		b	TRANS Transport - TRUPACT			
46		c	WIPP Disposal - Contact-Handled			
47						
48						
49						

50 Table 6-2. (continued).

INL Site Treatment Plan

	Media Type (if more than one)	Volume %	Step	Facility Abbr.	Unit Name			
1	ID-MDO-805T	ASBESTOS FILTERS			Storage (m ³):	8.0560	5-Year (m ³):	0.0000
2								
3			a	AMWTP	Private Unit			
4			b	TRANS	Transport - TRUPACT			
5			c	WIPP	Disposal - Contact-Handled			
6	ID-MDO-810T	GLASS, FLASKS, SAMPLE VIALS, ETC.			Storage (m ³):	2.7560	5-Year (m ³):	0.0000
7								
8			a	AMWTP	Private Unit			
9			b	TRANS	Transport - TRUPACT			
10			c	WIPP	Disposal - Contact-Handled			
11								
12	ID-MDO-811T	EVAPORATOR AND DISSOLVER SLUDGE			Storage (m ³):	0.8480	5-Year (m ³):	0.0000
13								
14			a	AMWTP	Private Unit			
15			b	TRANS	Transport - TRUPACT			
16			c	WIPP	Disposal - Contact-Handled			
17	ID-MDO-813T	GLASS FILTERS AND FIBERGLASS			Storage (m ³):	0.6360	5-Year (m ³):	0.0000
18								
19			a	AMWTP	Private Unit			
20			b	TRANS	Transport - TRUPACT			
21			c	WIPP	Disposal - Contact-Handled			
22	ID-MDO-814T	CONTAMINATED MERCURY OR GRAPHITE CRUCIBLE			Storage (m ³):	0.4240	5-Year (m ³):	0.0000
23								
24								
25			a	AMWTP	Private Unit			
26			b	TRANS	Transport - TRUPACT			
27			c	WIPP	Disposal - Contact-Handled			
28	ID-MDO-815T	CLASSIFIED PARTS			Storage (m ³):	0.4240	5-Year (m ³):	0.0000
29								
30			a	AMWTP	Private Unit			
31			b	TRANS	Transport - TRUPACT			
32			c	WIPP	Disposal - Contact-Handled			
33	ID-MDO-824T	NONCOMBUSTIBLE EQUIPMENT BOXES			Storage (m ³):	0.0000	5-Year (m ³):	0.0000
34								
35			a	AMWTP	Private Unit			
36			b	TRANS	Transport - TRUPACT			
37			c	WIPP	Disposal - Contact-Handled			
38	ID-MDO-826T	COMBUSTIBLE EQUIPMENT BOXES OR FLOOR SWE.			Storage (m ³):	1.0600	5-Year (m ³):	0.0000
39								
40			a	AMWTP	Private Unit			
41			b	TRANS	Transport - TRUPACT			
42			c	WIPP	Disposal - Contact-Handled			
43								
44	ID-MDO-827T	COMBUSTIBLE EQUIPMENT DRUMS			Storage (m ³):	1.9080	5-Year (m ³):	0.0000
45								
46			a	AMWTP	Private Unit			
47			b	TRANS	Transport - TRUPACT			
48			c	WIPP	Disposal - Contact-Handled			

Table 6-2. (continued).

INL Site Treatment Plan

	Media Type (if more than one)	Volume %	Step	Facility Abbr.	Unit Name			
1	ID-MDO-834T	HIGH-LEVEL ACID			Storage (m ³):	191.0120	5-Year (m ³):	0.0000
2								
3								
4			a	AMWTP Private Unit				
5			b	TRANS Transport - TRUPACT				
6			c	WIPP Disposal - Contact-Handled				
7	ID-MDO-835T	HIGH-LEVEL CAUSTIC			Storage (m ³):	355.1000	5-Year (m ³):	0.0000
8								
9			a	AMWTP Private Unit				
10			b	TRANS Transport - TRUPACT				
11			c	WIPP Disposal - Contact-Handled				
12	ID-MDO-836T	HIGH-LEVEL SLUDGE/CEMENT			Storage (m ³):	885.7360	5-Year (m ³):	0.0000
13								
14			a	AMWTP Private Unit				
15			b	TRANS Transport - TRUPACT				
16			c	WIPP Disposal - Contact-Handled				
17	ID-MDO-838	<10 nCi/g NONCOMBUSTIBLE			Storage (m ³):	0.2120	5-Year (m ³):	0.0000
18								
19								
20			a	AMWTP Private Unit				
21			b	TRANS Transport - TRUPACT				
22			c	WIPP Disposal - Contact-Handled				
23	ID-MDO-842T	CONTAMINATED SOIL			Storage (m ³):	0.0000	5-Year (m ³):	0.0000
24								
25			a	AMWTP Private Unit				
26			b	TRANS Transport - TRUPACT				
27			c	WIPP Disposal - Contact-Handled				
28	ID-MDO-847T	LOW SPECIFIC ACTIVITY (<100 nCi/g) COMB.			Storage (m ³):	157.0930	5-Year (m ³):	0.0000
29								
30			a	AMWTP Private Unit				
31			b	TRANS Transport - TRUPACT				
32			c	WIPP Disposal - Contact-Handled				
33	ID-MDO-848T	LOW SPECIFIC ACTIVITY (<100 nCi/g) NONC.			Storage (m ³):	28.4080	5-Year (m ³):	0.0000
34								
35			a	AMWTP Private Unit				
36			b	TRANS Transport - TRUPACT				
37			c	WIPP Disposal - Contact-Handled				
38	ID-MFC-100	MFC D&D SODIUM/Nac.			Storage (m ³):	17.1689	5-Year (m ³):	0.0000
39								
40			a	PSA-1662N				
41			b	SCDF Disposal -Per EE/CA or Commercial Treatment/Disposal				
42	ID-OFS-111T	RESEARCH-GENERATED WASTE NONCOMPACTIBLE			Storage (m ³):	832.5240	5-Year (m ³):	0.0000
43								
44								
45			a	AMWTP Private Unit				
46			b	TRANS Transport - TRUPACT				
47			c	WIPP Disposal - Contact-Handled				
48								
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INL Site Treatment Plan

1 Table 6-2. (continued).

	Media Type (if more than one)	Volume %	Step	Facility Abbr.	Unit Name				
2	ID-OFS-121T	DECONTAMINATION AND DECOMMISSIONING WASTE			Storage (m ³):	0.2120	5-Year (m ³):	0.0000	
3									
4									
5					a	AMWTP Private Unit			
6			b	TRANS Transport - TRUPACT					
7			c	WIPP Disposal - Contact-Handled					
8	ID-RFO-000T	NOT RECORDED - UNKNOWN			Storage (m ³):	4024.3960	5-Year (m ³):	0.0000	
9			CH	99.96					
10					a	AMWTP Private Unit			
11					b	TRANS Transport - TRUPACT			
12			c	WIPP Disposal - Contact-Handled					
13	RH	0.04	a	RWDP RH - Preparation/Treatment					
14			b	TRANS Transport - TRUPACT					
15			c	WIPP Disposal - Remote-Handled					
16	ID-RFO-001T	FIRST STAGE SLUDGE			Storage (m ³):	2567.8960	5-Year (m ³):	0.0000	
17			CH	98.41					
18					a	AMWTP Private Unit			
19					b	TRANS Transport - TRUPACT			
20			c	WIPP Disposal - Contact-Handled					
21	RH	1.59	a	RWDP RH - Preparation/Treatment					
22			b	TRANS Transport - TRUPACT					
23			c	WIPP Disposal - Remote-Handled					
24									
25	ID-RFO-002T	SECOND STAGE SLUDGE			Storage (m ³):	1639.1840	5-Year (m ³):	0.0000	
26			CH	98.40					
27					a	AMWTP Private Unit			
28					b	TRANS Transport - TRUPACT			
29			c	WIPP Disposal - Contact-Handled					
30	RH	1.60	a	RWDP RH - Preparation/Treatment					
31			b	TRANS Transport - TRUPACT					
32			c	WIPP Disposal - Remote-Handled					
33	ID-RFO-003T	ORGANIC SETUPS, OIL SOLIDS			Storage (m ³):	1533.1840	5-Year (m ³):	0.0000	
34					a	AMWTP Private Unit			
35					b	TRANS Transport - TRUPACT			
36					c	WIPP Disposal - Contact-Handled			
37									
38	ID-RFO-004T	SPECIAL SETUPS (CEMENT)			Storage (m ³):	327.5400	5-Year (m ³):	0.0000	
39					a	AMWTP Private Unit			
40					b	TRANS Transport - TRUPACT			
41					c	WIPP Disposal - Contact-Handled			
42									
43	ID-RFO-005T	EVAPORATOR SALTS			Storage (m ³):	11.0240	5-Year (m ³):	0.0000	
44					a	AMWTP Private Unit			
45					b	TRANS Transport - TRUPACT			
46					c	WIPP Disposal - Contact-Handled			
47									
48	ID-RFO-007T	BLDG 374 DRY SLUDGE			Storage (m ³):	923.4720	5-Year (m ³):	0.0000	
49					a	AMWTP Private Unit			
50					b	TRANS Transport - TRUPACT			
51					c	WIPP Disposal - Contact-Handled			
52									

54 Table 6-2. (continued).

INL Site Treatment Plan

	Media Type (if more than one)	Volume %	Step	Facility Abbr.	Unit Name			
1	ID-RFO-090	DIRT			Storage (m ³):	28.6200	5-Year (m ³):	0.0000
2								
3								
4			a	AMWTP Private Unit				
5			b	TRANS Transport - TRUPACT				
6	ID-RFO-112T	SOLIDIFIED ORGANICS			Storage (m ³):	169.1760	5-Year (m ³):	0.0000
7								
8								
9			a	AMWTP Private Unit				
10			b	TRANS Transport - TRUPACT				
11	ID-RFO-113T	SOLID LAB WASTE			Storage (m ³):	16.9600	5-Year (m ³):	0.0000
12								
13								
14			a	AMWTP Private Unit				
15			b	TRANS Transport - TRUPACT				
16	ID-RFO-114T	SOLIDIFIED PROCESS SOLIDS			Storage (m ³):	74.8360	5-Year (m ³):	0.0000
17								
18								
19			a	AMWTP Private Unit				
20			b	TRANS Transport - TRUPACT				
21			c	WIPP Disposal - Contact-Handled				
22	ID-RFO-116T	COMBUSTIBLE WASTE			Storage (m ³):	0.8480	5-Year (m ³):	0.0000
23								
24								
25			a	AMWTP Private Unit				
26			b	TRANS Transport - TRUPACT				
27	ID-RFO-117T	METAL WASTE			Storage (m ³):	35.1660	5-Year (m ³):	0.0000
28								
29								
30			a	AMWTP Private Unit				
31			b	TRANS Transport - TRUPACT				
32	ID-RFO-118T	GLASS WASTE			Storage (m ³):	16.1171	5-Year (m ³):	0.0000
33								
34								
35			a	AMWTP Private Unit				
36			b	TRANS Transport - TRUPACT				
37	ID-RFO-119T	HEPA FILTER WASTE			Storage (m ³):	65.5080	5-Year (m ³):	0.0000
38								
39								
40			a	AMWTP Private Unit				
41			b	TRANS Transport - TRUPACT				
42	ID-RFO-122T	INORGANIC SOLID WASTE			Storage (m ³):	30.5280	5-Year (m ³):	0.0000
43								
44								
45			a	AMWTP Private Unit				
46			b	TRANS Transport - TRUPACT				
47			c	WIPP Disposal - Contact-Handled				

Table 6-2. (continued).

INL Site Treatment Plan

	Media Type (if more than one)	Volume %	Step	Facility Abbr.	Unit Name			
1	ID-RFO-123T	LEADED RUBBER			Storage (m ³):	65.9320	5-Year (m ³):	0.0000
2								
3			a	AMWTP Private Unit				
4			b	TRANS Transport - TRUPACT				
5			c	WIPP Disposal - Contact-Handled				
6	ID-RFO-241T	AMERICIUM PROCESS RESIDUE			Storage (m ³):	25.2280	5-Year (m ³):	0.0000
7								
8			a	AMWTP Private Unit				
9			b	TRANS Transport - TRUPACT				
10			c	WIPP Disposal - Contact-Handled				
11	ID-RFO-290	FILTER SLUDGE			Storage (m ³):	0.2120	5-Year (m ³):	0.0000
12								
13			a	AMWTP Private Unit				
14			b	TRANS Transport - TRUPACT				
15			c	WIPP Disposal - Contact-Handled				
16	ID-RFO-292T	CEMENTED SLUDGE			Storage (m ³):	115.3280	5-Year (m ³):	0.0000
17								
18			a	AMWTP Private Unit				
19			b	TRANS Transport - TRUPACT				
20			c	WIPP Disposal - Contact-Handled				
21	ID-RFO-300T	GRAPHITE MOLDS			Storage (m ³):	410.2200	5-Year (m ³):	0.0000
22								
23			a	AMWTP Private Unit				
24			b	TRANS Transport - TRUPACT				
25			c	WIPP Disposal - Contact-Handled				
26								
27	ID-RFO-301T	GRAPHITE CORES			Storage (m ³):	7.6320	5-Year (m ³):	0.0000
28								
29			a	AMWTP Private Unit				
30			b	TRANS Transport - TRUPACT				
31			c	WIPP Disposal - Contact-Handled				
32	ID-RFO-302T	BENELEX AND PLEXIGLASS			Storage (m ³):	4.6640	5-Year (m ³):	0.0000
33								
34			a	AMWTP Private Unit				
35			b	TRANS Transport - TRUPACT				
36			c	WIPP Disposal - Contact-Handled				
37	ID-RFO-312T	COARSE GRAPHITE			Storage (m ³):	1.9080	5-Year (m ³):	0.0000
38								
39			a	AMWTP Private Unit				
40			b	TRANS Transport - TRUPACT				
41			c	WIPP Disposal - Contact-Handled				
42	ID-RFO-320T	HEAVY NONSPECIAL SOURCE METAL			Storage (m ³):	96.8840	5-Year (m ³):	0.0000
43	CH	90.00						
44			a	AMWTP Private Unit				
45			b	TRANS Transport - TRUPACT				
46			c	WIPP Disposal - Contact-Handled				
47	RH	10.00	a	RWDP RH - Preparation/Treatment				
48			b	TRANS Transport - TRUPACT				
49			c	WIPP Disposal - Remote-Handled				

Table 6-2. (continued).

	Media Type	Volume %	Step	Facility	Unit Name
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INL Site Treatment Plan

(if more than one)		Abbr.					
1	ID-RFO-328T	FULFLO INCINERATOR FILTERS		Storage (m ³):	1.6960	5-Year (m ³):	0.0000
2							
3							
4			a	AMWTP	Private Unit		
5			b	TRANS	Transport - TRUPACT		
6	ID-RFO-330T	DRY PAPER AND RAGS		Storage (m ³):	1085.8640	5-Year (m ³):	0.0000
7	CH	99.09					
8							
9			a	AMWTP	Private Unit		
10			b	TRANS	Transport - TRUPACT		
11	RH	0.91	c	WIPP	Disposal - Contact-Handled		
12			a	RWDP	RH - Preparation/Treatment		
13			b	TRANS	Transport - TRUPACT		
14	ID-RFO-335T	ABSOLUTE 8 X 8 FILTERS		Storage (m ³):	27.5360	5-Year (m ³):	0.0000
15	CH	95.00					
16							
17			a	AMWTP	Private Unit		
18			b	TRANS	Transport - TRUPACT		
19	RH	5.00	c	WIPP	Disposal - Contact-Handled		
20			a	RWDP	RH - Preparation/Treatment		
21			b	TRANS	Transport - TRUPACT		
22	ID-RFO-336T	MOIST PAPER AND RAGS		Storage (m ³):	1584.0640	5-Year (m ³):	0.0000
23	CH	92.75					
24							
25			a	AMWTP	Private Unit		
26			b	TRANS	Transport - TRUPACT		
27	RH	7.25	c	WIPP	Disposal - Contact-Handled		
28			a	RWDP	RH - Preparation/Treatment		
29			b	TRANS	Transport - TRUPACT		
30	ID-RFO-337T	PLASTICS, TEFLON, WASH, PVC		Storage (m ³):	488.4480	5-Year (m ³):	0.0000
31	CH	99.31					
32							
33			a	AMWTP	Private Unit		
34			b	TRANS	Transport - TRUPACT		
35	RH	0.69	c	WIPP	Disposal - Contact-Handled		
36			a	RWDP	RH - Preparation/Treatment		
37			b	TRANS	Transport - TRUPACT		
38	ID-RFO-338T	INSULATION AND CHEMICAL WARFARE SERVICE		Storage (m ³):	53.6360	5-Year (m ³):	0.0000
39							
40			a	AMWTP	Private Unit		
41			b	TRANS	Transport - TRUPACT		
42	ID-RFO-339T	LEADED RUBBER GLOVES AND APRONS		Storage (m ³):	152.4280	5-Year (m ³):	0.0000
43	CH	92.63					
44							
45			a	AMWTP	Private Unit		
46			b	TRANS	Transport - TRUPACT		
47	RH	7.37	c	WIPP	Disposal - Contact-Handled		
48			a	RWDP	RH - Preparation/Treatment		
49			b	TRANS	Transport - TRUPACT		
50			c	WIPP	Disposal - Remote-Handled		

Table 6-2. (continued).

Media Type (if more than one)	Volume %	Step	Facility Abbr.	Unit Name
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INL Site Treatment Plan

1	ID-RFO-360T	INSULATION		Storage (m ³):	50.6680	5-Year (m ³):	0.0000
2							
3			a	AMWTP	Private Unit		
4			b	TRANS	Transport - TRUPACT		
5			c	WIPP	Disposal - Contact-Handled		
6	ID-RFO-371T	FIREBRICK		Storage (m ³):	218.7840	5-Year (m ³):	0.0000
7							
8			a	AMWTP	Private Unit		
9			b	TRANS	Transport - TRUPACT		
10			c	WIPP	Disposal - Contact-Handled		
11	ID-RFO-374T	BLACKTOP, CONCRETE, DIRT, AND SAND		Storage (m ³):	269.0280	5-Year (m ³):	0.0000
12							
13			a	AMWTP	Private Unit		
14			b	TRANS	Transport - TRUPACT		
15			c	WIPP	Disposal - Contact-Handled		
16	ID-RFO-375T	OIL-DRI RESIDUE FROM INCINERATOR		Storage (m ³):	4.0280	5-Year (m ³):	0.0000
17							
18			a	AMWTP	Private Unit		
19			b	TRANS	Transport - TRUPACT		
20			c	WIPP	Disposal - Contact-Handled		
21							
22	ID-RFO-376T	CEMENTED INSULATION AND FILTER MEDIA		Storage (m ³):	532.7560	5-Year (m ³):	0.0000
23							
24			a	AMWTP	Private Unit		
25			b	TRANS	Transport - TRUPACT		
26			c	WIPP	Disposal - Contact-Handled		
27	ID-RFO-409T	MOLTEN SALTS - 30% UNPULVERIZED		Storage (m ³):	6.5720	5-Year (m ³):	0.0000
28							
29			a	AMWTP	Private Unit		
30			b	TRANS	Transport - TRUPACT		
31			c	WIPP	Disposal - Contact-Handled		
32							
33							
34	ID-RFO-414T	DIRECT OXIDE REDUCTION SALT		Storage (m ³):	1.0600	5-Year (m ³):	0.0000
35							
36			a	AMWTP	Private Unit		
37			b	TRANS	Transport - TRUPACT		
38			c	WIPP	Disposal - Contact-Handled		
39	ID-RFO-430T	UNLEACHED ION COLUMN RESIN		Storage (m ³):	6.1480	5-Year (m ³):	0.0000
40							
41			a	AMWTP	Private Unit		
42			b	TRANS	Transport - TRUPACT		
43			c	WIPP	Disposal - Contact-Handled		
44	ID-RFO-431T	LEACHED RESIN		Storage (m ³):	1.2720	5-Year (m ³):	0.0000
45							
46			a	AMWTP	Private Unit		
47			b	TRANS	Transport - TRUPACT		
48			c	WIPP	Disposal - Contact-Handled		
49							
50							
51	Table 6-2. (continued).						

Media Type (if more than one)	Volume %	Step	Facility Abbr.	Unit Name
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INL Site Treatment Plan

1	ID-RFO-432T	LEACHED AND CEMENTED RESIN			Storage (m ³):	60.4200	5-Year (m ³):	0.0000
2	CH		96.00					
3				a	AMWTP	Private Unit		
4				b	TRANS	Transport - TRUPACT		
5				c	WIPP	Disposal - Contact-Handled		
6	RH		4.00	a	RWDP	RH - Preparation/Treatment		
7				b	TRANS	Transport - TRUPACT		
8				c	WIPP	Disposal - Remote-Handled		
9	ID-RFO-440T	GLASS			Storage (m ³):	301.8900	5-Year (m ³):	0.0000
10	CH		98.67					
11				a	AMWTP	Private Unit		
12				b	TRANS	Transport - TRUPACT		
13				c	WIPP	Disposal - Contact-Handled		
14	RH		1.33	a	RWDP	RH - Preparation/Treatment		
15				b	TRANS	Transport - TRUPACT		
16				c	WIPP	Disposal - Remote-Handled		
17	ID-RFO-441T	UNLEACHED RASHIG RINGS			Storage (m ³):	333.6880	5-Year (m ³):	0.0000
18	CH		99.20					
19				a	AMWTP	Private Unit		
20				b	TRANS	Transport - TRUPACT		
21				c	WIPP	Disposal - Contact-Handled		
22	RH		0.80	a	RWDP	RH - Preparation/Treatment		
23				b	TRANS	Transport - TRUPACT		
24				c	WIPP	Disposal - Remote-Handled		
25								
26								
27	ID-RFO-442T	LEACHED RASHIG RINGS			Storage (m ³):	261.8200	5-Year (m ³):	0.0000
28	CH		99.51					
29				a	AMWTP	Private Unit		
30				b	TRANS	Transport - TRUPACT		
31				c	WIPP	Disposal - Contact-Handled		
32	RH		0.49	a	RWDP	RH - Preparation/Treatment		
33				b	TRANS	Transport - TRUPACT		
34				c	WIPP	Disposal - Remote-Handled		
35	ID-RFO-460T	WASHABLES, RUBBER, PLASTICS			Storage (m ³):	1.2720	5-Year (m ³):	0.0000
36				a	AMWTP	Private Unit		
37				b	TRANS	Transport - TRUPACT		
38				c	WIPP	Disposal - Contact-Handled		
39								
40								
41	ID-RFO-463T	LEADED RUBBER GLOVES AND APRONS			Storage (m ³):	11.2360	5-Year (m ³):	0.0000
42	CH		92.00					
43				a	AMWTP	Private Unit		
44				b	TRANS	Transport - TRUPACT		
45				c	WIPP	Disposal - Contact-Handled		
46	RH		8.00	a	RWDP	RH - Preparation/Treatment		
47				b	TRANS	Transport - TRUPACT		
48				c	WIPP	Disposal - Remote-Handled		
49	ID-RFO-464T	BENELEX AND PLEXIGLASS			Storage (m ³):	9.9640	5-Year (m ³):	0.0000
50				a	AMWTP	Private Unit		
51				b	TRANS	Transport - TRUPACT		
52				c	WIPP	Disposal - Contact-Handled		
53								
54								
55								

Table 6-2. (continued).

Media Type (if more than one)	Volume %	Step	Facility Abbr.	Unit Name
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INL Site Treatment Plan

1	ID-RFO-480T	NONSPECIAL SOURCE METAL		Storage (m ³):	541.6600	5-Year (m ³):	0.0000
2	CH	99.68					
3			a	AMWTP	Private Unit		
4			b	TRANS	Transport - TRUPACT		
5			c	WIPP	Disposal - Contact-Handled		
6	RH	0.32	a	RWDP	RH - Preparation/Treatment		
7			b	TRANS	Transport - TRUPACT		
8			c	WIPP	Disposal - Remote-Handled		
9	ID-RFO-481T	LEACHED NONSPECIAL SOURCE METAL		Storage (m ³):	189.1040	5-Year (m ³):	0.0000
10	CH	98.66					
11			a	AMWTP	Private Unit		
12			b	TRANS	Transport - TRUPACT		
13			c	WIPP	Disposal - Contact-Handled		
14	RH	1.34	a	RWDP	RH - Preparation/Treatment		
15			b	TRANS	Transport - TRUPACT		
16			c	WIPP	Disposal - Remote-Handled		
17	ID-RFO-490T	CHEMICAL WARFARE SERVICE FILTERS		Storage (m ³):	16.1120	5-Year (m ³):	0.0000
18							
19			a	AMWTP	Private Unit		
20			b	TRANS	Transport - TRUPACT		
21			c	WIPP	Disposal - Contact-Handled		
22	ID-RFO-700T	ORGANIC AND SLUDGE IMMOBILIZATION SYSTEM		Storage (m ³):	1.9080	5-Year (m ³):	0.0000
23							
24			a	AMWTP	Private Unit		
25			b	TRANS	Transport - TRUPACT		
26			c	WIPP	Disposal - Contact-Handled		
27	ID-RFO-900T	LOW SPECIFIC ACTIVITY PLASTICS, PAPER, ETC.		Storage (m ³):	74.2000	5-Year (m ³):	0.0000
28							
29			a	AMWTP	Private Unit		
30			b	TRANS	Transport - TRUPACT		
31			c	WIPP	Disposal - Contact-Handled		
32	ID-RFO-950T	LOW SPECIFIC ACTIVITY METAL, GLASS, ETC.		Storage (m ³):	23.3200	5-Year (m ³):	0.0000
33							
34			a	AMWTP	Private Unit		
35			b	TRANS	Transport - TRUPACT		
36			c	WIPP	Disposal - Contact-Handled		
37	ID-RFO-970T	WOOD		Storage (m ³):	4.6640	5-Year (m ³):	0.0000
38							
39			a	AMWTP	Private Unit		
40			b	TRANS	Transport - TRUPACT		
41			c	WIPP	Disposal - Contact-Handled		
41	ID-RFO-976T	BLDG 776 PROCESS SLUDGE		Storage (m ³):	1.4840	5-Year (m ³):	0.0000
42							
43			a	AMWTP	Private Unit		
44			b	TRANS	Transport - TRUPACT		
45			c	WIPP	Disposal - Contact-Handled		
46	ID-RFO-978T	LAUNDRY SLUDGE		Storage (m ³):	0.0000	5-Year (m ³):	0.0000
47							
48			a	AMWTP	Private Unit		
49			b	TRANS	Transport - TRUPACT		
50			c	WIPP	Disposal - Contact-Handled		

Table 6-2. (continued).

	Media Type (if more than one)	Volume %	Step	Facility Abbr.	Unit Name			
53	ID-RFO-980T	FILTER SLUDGE				Storage (m ³):	-0.2120	5-Year (m ³): 0.0000

INL Site Treatment Plan

1							
2							
3				a	AMWTP	Private Unit	
4				b	TRANS	Transport - TRUPACT	
5	ID-RFO-9999T	PRE-73 DRUMS		c	WIPP	Disposal - Contact-Handled	
6					Storage (m ³):	7486.1440	5-Year (m ³): 0.0000
7	CH	95.46					
8				a	AMWTP	Private Unit	
9				b	TRANS	Transport - TRUPACT	
10				c	WIPP	Disposal - Contact-Handled	
11	RH	4.54		a	RWDP	RH - Preparation/Treatment	
12				b	TRANS	Transport - TRUPACT	
13	BN510	BOX AND BIN VOLUME		c	WIPP	Disposal - Remote-Handled	
14					Storage (m ³):	34444.7800	5-Year (m ³): 0.0000
15				a	AMWTP	Private Unit	
16				b	TRANS	Transport - TRUPACT	
17				c	WIPP	Disposal - Contact-Handled	
18	ID-RWDP-RH	RH TRU TO BE TREATED AT RWDP			Storage (m ³):	8.5736	5-Year (m ³): TBD
19				a	RWDP	RH - Preparation/Treatment	
20				b	TRANS	Transport - TRUPACT	
21				c	WIPP	Disposal - Remote-Handled	
22							
23	ID-TAN-200T	AMERICIUM SOURCES			Storage (m ³):	0.2120	5-Year (m ³): 0.2120
24				a	RWDP	RH - Preparation/Treatment	
25				b	TRANS	Transport - TRUPACT	
26				c	WIPP	Disposal - Remote-Handled	
27							
28							
29							
30	ID-TEC-151T	SOLIDIFIED FUEL SLUDGE			Storage (m ³):	0.2280	5-Year (m ³): 0.0000
31				a	INTEC 659	Packaging/Repackaging	
32				b	TRANS	Transport - CNS 10-160B cask	
33				c	WIPP	Disposal - Remote-Handled	
34	ID-TEC-156	CHEM CELL RIP-OUT			Storage (m ³):	28.5300	5-Year (m ³): 0.0000
35				a	AMWTP	Private Unit	
36				b	TRANS	Transport - TRUPACT	
37				c	WIPP	Disposal - Contact-Handled	
38							
39	ID-TEC-172	HEPA FILTERS			Storage (m ³):	0.2265	5-Year (m ³): 18.6600
40				a	CPP659	Segregation	
41				b	CPP659	Extraction - HEPA Filter Leach	
42				c	LLW	Disposal - Remote-Handled or Contact Handled	
43				a	Commercial Treatment		
44				b	SCDF	Disposal Contact-Handled	
45				a	Reclassified as RH TRU		
46				b	TRANS	Transportation - TRUPACT	
47				c	WIPP	Disposal - Remote-Handled	
48	ID-TEC-173	SODIUM-BEARING WASTE			Storage (m ³):	3,168.0000	5-Year (m ³): 0.0000
49				a	SBW	Treatment Facility	

Table 6-2. (continued).

	Media Type (if more than one)	Volume %	Step	Facility Abbr.	Unit Name		
51	ID-TEC-174	HIGH-LEVEL WASTE CALCINE SOLIDS			Storage (m ³):	4,386.0000	5-Year (m ³): 0.0000
52				a	Calcine Disposition Facility		

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1			b	TRANS	Transport - HLW				
2			c	NHLWR	Disposal - HLW Repository				
3	ID-TEC-175	INTEC LIQUID WASTE				Storage (m ³):	33.0000	5-Year (m ³):	34.0000
4			a	IWTU	Treatment Facility				
5			b	TRANS	Transport - TBD				
6			c	TBD	Disposal - TBD				
7	ID-TEC-305	LLW APS HEPA FILTERS				Storage (m ³):	0.0000	5-Year (m ³):	40.2200
8	A		a	CPP659	Segregation				
9			b	CPP659	Extraction - HEPA Filter Leach				
10			c	LLW	Disposal - Remote-Handled or Contact-Handled				
11	B		a		Commercial Treatment				
12			b	SCDF	Disposal Contact-Handled				
13	C		a		Reclassified as RH TRU				
14			b	TRANS	Transportation - TRUPACT				
15			c	WIPP	Disposal - Remote-Handled				
16	ID-TEC-670T	MTRU LABORATORY ANALYTICAL WASTE				Storage (m ³):	17.9447	5-Year (m ³):	32.5000
17			a	AMWTP	Private Unit				
18			b	TRANS	Transport - TRUPACT				
19			c	WIPP	Disposal - Contact-Handled				
20	ID-TEC-699T	MIXED TRU WASTE FROM NWCF AND CSSF				Storage (m ³):	17.3160	5-Year (m ³):	2.8000
21			a	AMWTP	Private Unit				
22			b	TRANS	Transport - TRUPACT				
23			c	WIPP	Disposal - Contact-Handled				
24	ID-TEC-720	FDP HEPA FILTERS				Storage (m ³):	0.0000	5-Year (m ³):	5.0000
25	A		a	CPP659	Segregation				
26			b	CPP659	Extraction - HEPA Filter Leach				
27			c	LLW	Disposal - Remote-Handled or Contact-Handled				
28	B		a		Commercial Treatment				
29			b	SCDF	Disposal Contact-Handled				
30	C		a		Reclassified as RH TRU				
31			b	TRANS	Transportation - TRUPACT				
32			c	WIPP	Disposal - Remote-Handled				
33									
34	ID-TEC-721	VOG HEPA FILTERS				Storage (m ³):	0.0000	5-Year (m ³):	5.0000
35	A		a	CPP659	Segregation				
36			b	CPP659	Extraction - HEPA Filter Leach				
37			c	LLW	Disposal - Remote-Handled or Contact-Handled				
38	B		a		Commercial Treatment				
39			b	SCDF	Disposal Contact-Handled				
40	C		a		Reclassified as RH TRU				
41			b	TRANS	Transportation - TRUPACT				
42			c	WIPP	Disposal - Remote-Handled				
43	ID-TRA-291T	TRU HEAVY METAL SLUDGE				Storage (m ³):	2.5362	5-Year (m ³):	0.0000
44			a	INTEC 659	Packaging/Repackaging				
45			b	TRANS	Transport - CNS 10-160B cask				
46			c	WIPP	Disposal - Remote-Handled				

Table 6-2. (continued).

	Media Type (if more than one)	Volume %	Step	Facility Abbr.	Unit Name				
49	NR-NRF-665	PAINT CHIPS W/ PCB AND RCRA CONSTITUENTS			Storage (m ³):	0.0000	5-Year (m ³):	26.7000	
50			a	TRANS	Transport - LLW				
51			b	TSCA	Incineration				
52			c	TRANS	Transport - LLW				

INL Site Treatment Plan

1			d	CTF	Commercial Stabilization				
2			e	SCDF	Disposal - Contact-Handled				
3	NR-NRF-673	HEAVY METAL DEBRIS				Storage (m ³):	0.0000	5-Year (m ³):	30.0000
4			a	CTF	Commercial Treatment				
5			b	SCDF	Disposal - Contact-Handled				
6									
7	ID-INL-800	CLASS B&C WASTE				Storage (m ³):	0.2649	5-Year (m ³):	
8			a	CTF	Commercial Treatment				
9			b	SCDF	Disposal - Contact-Handled				
10									
11	ID-INL-805	INTEC CLASS B&C				Storage (m ³):	1.2681	5-Year (m ³):	
12			a	CTF	Commercial Treatment				
13			b	SCDF	Disposal - Contact-Handled				
14									
15									
16	Off-site mixed waste treatment plans								
17	*Storage volumes include past and present waste receipts.								
18	Los Alamos National Laboratory Waste					Storage (m ³):	5.512	5-Year (m ³):	5.0000
19	LA-CIN02.001 (LA-002)	TA-50 Radioactive Liquid Waste Treatment Facility Homogeneous Inorganic Solids							
20	LA-MIN03-NC.001 (LA-003)	TA-50 Radioactive Liquid Waste Treatment Facility Homogeneous Inorganic Solids							
21	LA-MIN04-S.001 (LA-005)	TA-55 Mixed Transuranic Waste							
22	LA-CIN01.001 (LA-006)	Solidified Inorganics							
23	LA-MIN04.003								
24	LA-MIN03.001								
25	LA-MIN02-V.001								
26			a.	AMWTP	Advanced Mixed Waste Treatment Project				
27			b.	TRANS	Transport - TRUPACT				
28			c.	WIPP	Disposal - Contact-Handled				
29	Nevada National Security Site Debris and Sludge					Storage (m ³):	84.588	5-Year (m ³):	0.0000
30	N TLBL-S3900 (NT-210)	NTS Berkeley Solidified Liquids							
31	N TLLLBL-S5400 (NT-211)	NTS Lawrence Berkeley Heterogeneous Debris							
32	N TLLNL-S3900 (NT-212)	NTS LLNL Solidified Sludge and Liquids							
33	N TLLNL-S5400 (NT-213)	NTS LLNL Heterogeneous Debris							
34	N TLRC-S5400 (NT-214)	NTS Lynchburg Heterogeneous Debris							
35	N TS-EG&G-HET (NT-215)	NTS EG and G Heterogeneous Debris							
36	N TS-TTR-HET (NT-216)	NTS Roller Coaster Debris							
37	N T-RF-DECON (NT-217)	NTS RF Decon Debris							
38	N TLLLBL - S5400 (NT-218)	NTS Livermore and Berkeley Combined Debris							
39	N TS-ITRI-S5310 (NT-219)	NTS ITRI Debris							
40	N TVERB-S5400 (NT-220)	NTS Decon and Maintenance Debris							
41			a.	AMWTP	Advanced Mixed Waste Treatment Project				
42			b.	TRANS	Transport - TRUPACT				
43			c.	WIPP	Disposal - Contact-Handled				
44									

AGREEMENT-IN-PRINCIPLE
BETWEEN
THE SHOSHONE-BANNOCK TRIBES
AND
THE UNITED STATES DEPARTMENT OF ENERGY
December 18, 2012

**AGREEMENT-IN-PRINCIPLE
BETWEEN THE SHOSHONE-BANNOCK TRIBES
AND THE
UNITED STATES DEPARTMENT OF ENERGY**

THIS AGREEMENT-IN-PRINCIPLE (this "Agreement") is entered into between the Shoshone-Bannock Tribes of the Fort Hall Indian Reservation ("Tribes") and the United States Department of Energy (DOE). The Tribes and DOE agree that it is mutually beneficial to continue and improve upon the government-to-government relationship that is founded upon the Fort Bridger Treaty of July 3, 1868, 15 Stat. 673 (the "Treaty"), and which has evolved under a Working Agreement formalized between the parties on September 29, 1992, and a series of Agreements-in-Principle ("AIPs") dated August 6, 1998; September 27, 2000; December 10, 2002; and December 3, 2007. This Agreement supersedes the Working Agreement of September 29, 1992, and all previous AIPs referenced above and further defines a working relationship between the Tribes and DOE. This Agreement has no effect on or applicability to the Naval Reactor Facility activities.

1. PURPOSE AND INTRODUCTION

This Agreement reflects an understanding and commitment between the Tribes and DOE to increase the Tribes' level of assurance that activities being conducted at the Idaho National Laboratory (INL) site protect the health, safety, environment, and cultural resources and address Tribal interests in DOE administered programs. This Agreement is applicable to actions and operations of DOE and its contractors on the lands of the INL that affect original ancestral territory and Tribal lands. DOE agrees to facilitate, to the extent practicable, Tribal interface with other federal agencies regarding actions and operations of such agencies on INL and other DOE lands that affect original ancestral territory and Tribal lands. It is recognized that there are terms unique in their application to this Agreement, and those terms are defined in Attachment 1.

This Agreement is designed to promote increased interaction, understanding, and cooperation on issues of mutual concern. DOE acknowledges its trust responsibility to the Tribes and will strive to fulfill this responsibility through this Agreement, DOE American Indian and Alaska Native Tribal Government Policy and other American Indian program initiatives.

The Tribes are a sovereign government obligated to protect individual and communal interest, both on and off the Reservation, as the successors-in-interest to Indian signatories to the Treaty. Accordingly, the Tribes have the responsibility to protect the health, welfare, and safety of their members, the Tribal homelands, and the environment and cultural resources of the Tribes. The Treaty secured the Fort Hall Indian Reservation (the "Reservation") for the Shoshone and Bannock peoples; and the Reservation, original ancestral territories, and ceded areas (collectively, the "Tribal homelands") are the cultural, political, and economic center of the Tribes and are essential to their survival. DOE recognizes the existence of the Tribes' Treaty rights and interests and is committed to identifying, assessing, limiting, and mitigating impacts of the INL activities on, at, or related to INL, that are under DOE control, which affect areas covered by the Tribes' Treaty rights, including both unoccupied and Reservation lands.

Therefore, activities on, at, or related to the INL shall prevent endangering the unoccupied lands and Reservation lands of the Tribes', and not impair the Tribes' ability to protect the health, welfare, and safety of the Reservation residents and/or the environment and cultural resources of the Tribes.

Article 4 of the Treaty reserved unto the Tribes and their members hunting, fishing, and gathering rights on unoccupied lands of the United States. The parties recognized that the rights provided by the Treaty extend to areas in Idaho and other states, including but not limited to the Salmon River and Snake River regions which may be affected by activities on, at or related to the INL. These guaranteed Treaty rights are of paramount importance to the Tribes, and support their subsistence and culture. Therefore, the ecosystem in these areas must be protected and to the extent possible, remain productive. The land withdrawal of the INL lands for DOE activities and subsequent declarations have identified the INL as occupied lands. The parties agree that in the event the occupied status of any INL lands may change during the term of this Agreement, DOE will consult with the Tribes regarding the application and exercise of Tribal treaty rights on those lands. Consultation would follow a progressive process that includes: 1) notifications and discussions at a working level; 2) technical briefings and discussions to mitigate impacts and effects; and 3) where required or necessary to resolve disputes, a formal government-to-government consultation between the Tribal Council and the DOE-Idaho Operations Office Manager.

DOE has the primary responsibility to assure that the health and safety of the public are protected from hazards associated with the activities on, at, or related to INL activities. It is the policy of DOE to meet all applicable health, safety, environmental, and transportation standards. DOE will maintain radiation exposures to workers and the public as low as reasonably achievable (ALARA).

DOE also has the responsibility to protect and manage the natural and cultural resources within its jurisdiction. As stewards of INL lands, DOE strives to protect the natural and cultural resources consistent with the principles of ecosystem management and resource protection, in accordance with the applicable federal laws, regulations, policies, and executive orders. The Tribes are an important resource to help DOE achieve those goals.

2. PROGRAM IMPLEMENTATION

DOE and the Tribes recognize that the effectiveness of this Agreement rests upon a commitment by both parties to implement the provisions described within this document. DOE and the Tribes will each develop a Program Implementation Plan (PIP) for their respective organizations within ninety (90) days of signing this Agreement. The Tribes' interests in the AIP will be administered by the Tribal/DOE AIP Program Director. The Director agrees to provide to DOE an accounting of DOE funding authorized and obligated under Cooperative Agreement. The Director will report to the Fort Hall Business Council (the "Council") concerning program/project performance and accomplishments.

Implementation may require that Tribal specialists and/or consultants review the reports and such specialists or consultants will be retained by the Tribes with funds from the Cooperative

Agreement associated with this Agreement. The Tribes will ensure that specialists and/or consultants retained with Cooperative Agreement funds are appropriately qualified for the work to be performed and that their rates are competitive or otherwise justified as fair and reasonable. Tribal hiring practices shall be followed. Reports generated by the specialists and/or consultants retained with Cooperative Agreement funds will be provided to the DOE within thirty (30) days of receipt by the Tribes. If any report is marked confidential, sensitive, proprietary, or Tribal classified matters, DOE agrees to treat such report as confidential and will not disclose such report without the Tribes' written consent.

The Tribes may independently coordinate and collaborate with INL Oversight Program or other DOE oversight groups or organizations as desired to establish or maintain dialogue between the Tribes and the State to obtain environmental monitoring information and/or other information that has the potential to affect known Tribal interests. DOE representatives will facilitate implementation by assisting the Tribes in securing surveillance and other related environmental monitoring information that is or may become available.

A reciprocal, open, and sincere exchange of information is necessary to satisfactorily discharge DOE and Tribal commitments pursuant to this Agreement. The Tribal/DOE AIP Program Director (Director) will work as a liaison between the Tribes and DOE. The Director will actively communicate information developed under this Agreement to the Council and the Tribal membership. The Director will have primary responsibility for ensuring communicating and promoting Tribal involvement in DOE activities and programs. The Director must also understand and represent Tribal interests to DOE and groups, boards, and committees related to DOE activities. The Tribes may appoint Tribal representatives, other than the Director to represent Tribal interests identified under this Agreement. Furthermore, the Director is expected to function as the primary Tribal Advocate to DOE and to assure Tribal interests are presented and addressed. Meaningful involvement can only occur if the interested/affected population has adequate knowledge about the issues of concern.

The DOE American Indian Program Manager (DOE Program Manager) will provide information to the Tribes, in coordination with the Tribal/DOE Program Director, to support activities and functions. Additionally, the DOE Program Manager will promote Tribal interests, educate, and provide guidance for DOE personnel with regard to the DOE American Indian and Alaskan Native Tribal Government Policy and the contents of this Agreement. This will also include communicating information on the Tribes' concerns to DOE Headquarters (DOE-HQ.) This does not preclude the Tribes from directly communicating with DOE-HQ. The DOE Program Manager will also identify available INL resources in support of mutually agreed upon initiatives and oversee and encourage INL efforts by continuing regular interaction with the designated INL Tribal relations point of contact.

In addition, The DOE Program Manager may also be requested to assist the Tribes on matters within DOE's purview, but outside the scope of the Agreement. This may include facilitation between the Tribes and any DOE contractor, organization, or DOE-HQ.

3. ENVIRONMENTAL MANAGEMENT PARTICIPATION

DOE is responsible for cleaning up the legacy of radioactive and chemically hazardous waste at the INL, preventing further environmental contamination, undertaking environmental restoration, and instituting responsible environmental management, including long term stewardship planning and implementation. DOE prepares environmental management plans to identify, integrate, and prioritize compliance and cleanup activities at the INL and other nuclear facilities and sites, and facilitate budget requests to Congress. The environmental management process and planning relate to the development and implementation of several DOE activities, including but not limited to the following areas: environmental restoration, waste management, decontamination and decommissioning, facility transition, technology development, long term stewardship, and transportation and storage of waste.

The Tribes are the primarily affected tribe with respect to DOE and INL plans and activities, and have a role in DOE's planning and implementation process for environmental restoration, long term stewardship, waste management, and other DOE/INL current and future missions.

The Tribes agree to perform the following tasks in support of the development of the INL plans:

- A. Attend and participate as a member in Tribal Working Groups, DOE's INL Environmental Management Citizens Advisory Board (CAB), the State and Tribal Government Working Group (STGWG), the Natural Resources Trustees Council under CERCLA, and other related environmental management meetings, committees and boards which may be formed or scheduled;
- B. Provide written comments and identify concerns to DOE on DOE environmental management documents, reports and implementation within agreed upon time frames;
- C. Provide opportunities for DOE and contractor representatives to make presentations to the Council, Tribal personnel, and the Tribal membership regarding Environmental Management (EM) and Nuclear Energy (NE) or other related activities;
- D. Provide opportunities for DOE and the Council to participate in Government to Government consultation, when needed or requested, to make good faith efforts to resolve issues of concern in a timely matter;
- E. Participate in planning groups or meetings concerning the future site uses, changing missions, and land uses of INL and provide substantive input on the alternatives proposed;
- F. Participate in the EM regulatory planning process, where appropriate, including review of proposed environmental restoration and waste management activities at the INL, actions proposed under the Federal Facilities Agreement and Consent Order (FFACO), and other relevant activities at the INL.

- G. Provide comments on technologies and research developed for EM restoration and cleanup activities and nuclear energy restoration and clean up activities.

DOE will provide scheduled briefings regarding the EM regulatory planning process and negotiations of enforceable agreements, including review of proposed environmental restoration and waste management activities at the INL, actions proposed under the FFACO, and other relevant activities at the INL.

4. NATIONAL ENVIRONMENTAL POLICY ACT (NEPA) PROGRAM INVOLVEMENT

DOE will involve the Tribes in the NEPA process during the analysis and document preparation stages so that meaningful Tribal input can be incorporated into the draft documents. DOE will offer presentations or briefings for Tribal audiences for those NEPA activities that may affect the Tribes and will facilitate the interface with DOE-HQ. The Tribes will be participants in the normal public process leading to issuance of final Environmental Assessments (EA) and Environmental Impact Statements (EISs). DOE may, at its discretion, hold public meetings at the Tribes' request for EISs on the Fort Hall Indian Reservation for those proposed actions that invoke significant interest or have the potential to directly impact the Tribes. DOE will send the Tribes its annual NEPA Planning Summary each January. This will enable the Tribes to request further information and schedule reviews or consultation. For draft EAs concerning proposed actions that may affect the Tribes, DOE will offer the Tribes a thirty (30) day comment period. DOE will consider any comments received in a timely fashion, prior to final NEPA documentation. DOE will respond to and make a good faith effort to address Tribal concerns through communication with the Tribal/DOE Director or Tribal designee.

The Tribes will strive to provide timely input that constitutes the official Tribal position through the Tribal/DOE Program Director, who will coordinate such position with the Council through the Tribal governmental process. The Tribes agree to participate in NEPA program activities and provide timely critical information required by DOE in order to conduct valid and accurate assessments of potential impacts and Tribal concerns.

5. ENVIRONMENTAL MONITORING PROGRAM INVOLVEMENT

Because of the proximity of the Reservation to the INL, the Tribes are interested in the direct effects of the INL and its activities on the health and safety of their people. The Tribes are concerned about background characterization and environmental contaminant levels in the air, water (surface and groundwater), and soils regimes located between the INL and the Reservation, including the transportation corridors within the Reservation. They are also concerned about the INL's effects on the ecosystem. To address and meet these concerns, DOE will do the following:

- A. DOE will work in cooperation with the Tribes on the sharing of varying types of environmental monitoring data related to the INL;

- B. DOE will provide published quarterly and annual routine environmental surveillance reports to the Tribes;
- C. Other environmental monitoring reports will be provided to the Tribes at their request;
- D. DOE will work with the Tribes to identify available reports; and
- E. DOE will provide opportunities to the Tribes and Tribal/DOE staff to observe, participate, and collaborate in the environmental surveillance programs at the INL.

Following review of the published reports, the Tribes, their specialists, or their consultants may request specific additional information on environmental surveillance or effluent monitoring by independent entities (e.g., USGS, INL or DOE contractors, and DOE). DOE will ensure that the Tribes or their specialists or consultants have access to any existing appropriate information.

If, upon evaluation, the Tribes determine that additional background sampling and/or environmental surveillance of water, soil, and air for any hazardous or radioactive contaminant is needed to effectively assess any impacts of the INL on the Reservation or regional ecosystems, DOE will enter into good faith discussions with the Tribes to try to resolve their concerns. The Tribes may choose to collect baseline data on hazardous contaminant and/or radiation levels on or near the Reservation or any unoccupied lands, for the purposes of determining both background levels and any elevated levels that may result from other INL activities, identifying impacts associated with transportation of radioactive or hazardous materials, and assessing the need for the Tribes' continued monitoring efforts.

DOE will continue to fully support the maintenance and operation of an Environmental Monitoring Station (EMS) on the Reservation by committing Cooperative Agreement funds and other technical assistance, and supporting the partnership between the Tribes, the INL State Oversight Program, and the National Oceanic and Atmospheric Administration (NOAA). This includes the necessary accommodations to access the existing State/NOAA/INL monitoring network in accordance with DOE security requirements.

DOE will, as resources permit, support the development and implementation of a geographic information system (GIS) as a functional tool for accomplishing the objectives identified in this Agreement.

6. RELEASE REPORTING

DOE will provide the Tribes with data collected and reported to State and Federal Agencies on routine releases of air pollutants, and hazardous and radioactive substances for compliance with the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), Superfund Amendments and Reauthorization Act (SARA), and the Clean Air Act. DOE will provide copies of the annual National Emission Standards for Hazardous Air Pollutants (NESHAP) radioactive emissions report and the INL Consolidate Air Emissions Inventory to the Tribes. Other release reports under the Clean Air Act will be provided to the Tribes at their request.

Unless earlier notification is appropriate under the circumstances or otherwise required by applicable laws, regulations, permits, or DOE Orders, DOE will notify the Tribal/DOE Director and Department of Public Safety, or such other representatives as may be designated by the Tribes. In the case of an emergency release, DOE will notify the Tribes as soon as possible but at least within 24 hours. Otherwise, notification will be accomplished within 48 hours of knowledge of, (a) any release of a hazardous substance, pollutant, contaminant, or radioactive material at the INL site which exceeds applicable regulations, standards, or permit conditions, or (b) any other unplanned release to the environment reported by DOE to any external regulatory or media for informational purposes.

Notwithstanding the preceding paragraph, DOE will ensure notification of the designated Tribal representatives immediately in the event of any release of a hazardous substance, pollutant, contaminant, or radioactive material involving shipments of hazardous or radioactive substances to or from the INL that may present an imminent and substantial danger to the health or welfare of the Tribes. Additionally, DOE will notify the designated Tribal representative of a release into the environment of hazardous substance, pollutant, contaminant, or radioactive material, or any natural emergency/disaster that occurs on the INL that may present an imminent and substantial danger to the health or welfare of the Tribes.

Guidelines for notification for all non-routine releases and transportation accidents shall be applicable DOE Orders, the EPA Protective Action Guides for Radionuclides, and CERCLA Section 103 and SARA Section 304 for reportable hazardous substances.

After any 'non-routine release as described above, DOE will, at the Tribes' request, hold a debriefing session with the designated Tribal representatives.

If a DOE-related transportation accident occurs on the Reservation, or a DOE related non-routine release or accident occurs off the Reservation which has been determined to affect the Reservation, DOE shall undertake all remedial action required by law, and ensure adequate follow-up environmental surveillance to determine the levels of contaminants and provide this information to the Tribes and their consultants.

7. EMERGENCY MANAGEMENT

The Tribes and DOE agree to meet on a regular basis, and also with the State of Idaho, to ensure open communications and understanding of DOE's Emergency Operations Plan and actions taken in times of chemical or radiological releases for the protection of the public, the environment, and homeland security. DOE will provide timely communication to the Tribes in the event of a chemical, radiological release, or natural emergency situations to ensure that the Tribes have maximum practical time for emergency response and preparedness. The Tribes and DOE agree that Tribal emergency responders and personnel must have proper training on DOE/INL-related types of potential chemical and radiological releases, have training on how to respond to such releases, and be adequately prepared to respond to a radiological transportation incident occurring on the Reservation.

The Tribes recognize that DOE has already provided significant training to them, and DOE will continue to work with the Tribes to ensure that they have and maintain their capability to respond to transportation and other emergencies. DOE will provide sufficient additional training and timely information in order for the Tribes to maintain an up-to-date Hazard Analysis and current emergency operations plan for the Reservation. DOE will work with the Tribes to promote Tribal capabilities for transportation emergencies preparedness, including assistance in identifying non-DOE sources of funding to support emergency response.

The Tribes will maintain the TRANSCOM system and be provided access to INL VIZ (NOAA developed software system that displays meteorological data and release dispersion modeling), as they are vital components of the DOE Emergency Operations Center. The Tribes also agree to maintain emergency response equipment and a standard of proficiency to ensure an adequate response capability.

8. PROTECTION OF CULTURAL RESOURCES

The INL is located on Federal land, which is recognized as part of the original ancestral territory of the Tribes, and contains Native American Indian cultural resources. Neither the Tribes nor DOE wish to disturb these resources, but both recognize that cultural resources may be affected during the course of activities on the INL. Protection of these cultural resources, access to sacred sites and sites of traditional use, and repatriation of Native American Indian human remains and associated cultural items are of paramount importance to the Tribes and DOE. As stewards of the resources on the INL, DOE has a trust responsibility to the Tribes in the management of Native American Indian cultural resources on INL property and for compliance with cultural resource laws and regulations, executive orders and DOE policy. DOE agrees to continue coordination and consultation with the Tribes in their compliance responsibilities with the laws and regulations, executive orders and memoranda, policies, and DOE Orders. DOE agrees to continue the development of a relationship of trust and openness with the Tribes.

DOE will comply with all applicable federal laws and policies, including but not limited to: The National Historic Preservation Act (NHPA), Native American Graves Protection and Repatriation Act (NAGPRA), Archeological Resources Protection Act (ARPA), American Indian Religious Freedom Act (AIRFA), the DOE American Indian and Alaska Native Tribal Government Policy, Executive Orders and Memoranda, and the DOE Cultural Resource Policy and DOE Orders dealing with the protection of cultural resources as defined.

DOE understands the Tribes' position that cultural resources include, but are not limited to, natural resources, sacred sites, traditional cultural properties, camps, burial area's and associated funerary objects, and other items of Tribal cultural patrimony. DOE further understands that objects of religious, traditional, or historic importance to the Tribes include traditional plants, wildlife, and landscapes. When the DOE or its contractors undertake any survey, study, testing, removal, or excavation of cultural resources on the INL site that has the potential to disturb any of those cultural resources, the DOE will notify the Tribes. DOE will involve the Tribes by providing access, opportunities for participation in project planning, and determining affects to the resource except where Tribal involvement is precluded for national security reasons. DOE will provide the Tribes reasonable opportunity and adequate time frames to comment and

respond to the undertaking. DOE also agrees to engage in government to government, Section 106 of NHPA, or other applicable consultation where required by applicable federal laws, regulations, Presidential Executive Orders and Memorandum, DOE Policies, and DOE Orders. Further, compliance with Section 106 of the NHPA requires DOE to take into account the effects of the federal undertaking on any historic property or historic resource as defined in Section 301 of the NHPA. The Tribes agree to provide to the DOE any information regarding INL sites of known cultural significance.

DOE and the Tribes will use the INL draft cultural resources consultation procedures as a guide and starting point, not as a substitute, for achieving the consultation requirements of applicable federal laws, regulations, orders, and policies.

The Tribes will provide timely response to DOE, within thirty (30) days or as otherwise agreed, regarding the NHPA Section 106 process reviews for federal undertakings on the INL. Final reports of any such studies, surveys, testing, excavation, or removals of cultural resources will be provided to the Tribes.

In the event that human remains or burial sites are inadvertently discovered, accidentally exposed, or potentially threatened the Tribes will be contacted immediately and consultation, as outlined in the draft cultural resources consultation procedures will be initiated.

DOE agrees that Tribal representatives will be permitted to view any discoveries or remains and cultural artifacts, will be authorized to do site inspections of any archeological discovery or excavation, and will be permitted to be present during any archeological excavation, survey, study, or testing on the INL site.

The 1994 Memorandum of Understanding between the Tribes and DOE regarding access to the Middle Butte area will continue to be in effect. In addition, DOE will negotiate in good faith with the Tribes concerning Tribal access to other undeveloped areas of the INL. Access for cultural or religious purposes for Tribal members will be considered and accommodated on a case-by-case basis. Health, safety, and security may be issues for consideration in granting access.

The Tribes, DOE, and DOE contractors shall not release, or allow the release of, any information pertaining to the exact location of any Native American Indian burial sites, archeological sites, or significant sites identified as Native American Indian to the public, unless required by law or legal authority. The Tribes will maintain documents in a manner which prevents release to unauthorized individuals. DOE will coordinate with the Tribes prior to approving, for external publication, any documents that have been prepared as a result of the study, analysis, research, or other work done under the direction and control of DOE, on or in relation to Native American Indian human remains or archeological resources on or from the INL. Publication of work done on archeological resources under curation will be as set forth in the curation agreement with the Idaho Museum of Natural History. For DOE controlled publications that concern Tribal cultural matters, DOE will provide for Tribal review and comment prior to publication, and DOE will make a good faith effort to ensure that the sensitivity and safety of all materials are not compromised. In the event that the Tribes disagree with portrayal of Tribal cultural matters in a

DOE-controlled publication, DOE will provide for inclusion of a Tribal historical position in such publication. All parties will maintain documents in a manner which prevents the release of sensitive cultural resource information to unauthorized individuals.

DOE and the Tribes, in coordination with the Management and Operations contractor, will finalize and implement a cultural resources management plan which outlines procedures to ensure appropriate management, consultation, and protection of Native American Indian human remains, sacred sites, archeological sites, and other cultural resource issues.

9. RISK ASSESSMENT OR HEALTH STUDIES

Residents of the Reservation shall be considered in all regional health and environmental risk assessments conducted by DOE, its contractors or subcontractors, that encompass areas near or affecting the Reservation, and results of the studies, both preliminary and final, shall be presented to the Tribes.

10. TRIBAL SELF-SUFFICIENCY

DOE is committed to working with the Tribes in a variety of areas to enhance Tribal efforts in their career pursuits, and will assist the Tribes in their educational development initiatives to maintain self-sufficiency and economic well-being. DOE will provide guidance, mentoring, and other support through technical assistance programs to Tribal students and other Tribal members in their career pursuits, and will assist the Tribes in their educational development initiatives.

DOE will work with the Tribes to help Tribal members become aware of employment opportunities at the INL and of the knowledge and skills they must acquire in order to qualify for employment. DOE, its contractors, and subcontractors will provide notice to the Tribes, through notice to the Tribal Employment Rights Ordinance (TERO) Office and publication in the Sho-Ban News, of employment opportunities; and DOE and its contractors will consider Tribal member applications in accordance with applicable preference and equal opportunity policies, laws, and regulations. Representatives from the INL will visit the Reservation periodically to brief Tribal members on job opportunities and assist them in preparing applications and other required documents.

DOE agrees to hold annual meetings between Tribal officials and representatives from DOE and the INL contractors and subcontractors to discuss opportunities for small business contracts. In addition, DOE will brief Tribal representatives on the INL Community Assistance Program and provide assistance to the Tribes to the extent allowed by the Stevenson-Wydler Technology Innovation Act.

11. PROMOTING TWO-WAY INTERACTION, UNDERSTANDING, AND COOPERATION

DOE and the Tribes mutually agree to work toward the promotion of mutual understanding of each other's duties and responsibilities for the benefit of DOE Operations, activities, and public; and to benefit the Tribes' sovereignty, treaty rights, and protection of its membership and public.

12. ACCESS TO DOE AND CONTRACTOR PERSONNEL AND FACILITIES

In implementing this Agreement, the Tribes' representative should generally contact the DOE Program Manager or the Director for Communications. In those cases where working relationships/lines of communication have been established, coordination between those parties is acceptable. Tribal/DOE Program Director and the DOE Program Manager shall be consulted regarding any agreement or significant communication between DOE and Tribal personnel, unless otherwise provided in this Agreement.

Any necessary or desired contact between Tribal personnel and DOE contractor personnel and facilities will generally be arranged through DOE. In some cases, where lines of communication have been established between the Tribes and contractor governmental relations or technical personnel, direct contact is acceptable, provided no additional costs result.

To enter the INL or any DOE or INL contractor controlled facilities, Tribal personnel must comply with DOE badging and security requirements as arranged through the DOE Program Manager. Entry to some facilities or portions of facilities may be precluded because of safety or security requirements. Entry to certain areas may require specific safety training. DOE or its contractors will provide any specific safety training required for entry.

13. CONTROLLED DOCUMENTS

None of various provisions of this Agreement shall be construed as providing for the release of reports or other information designated as "Classified" or "Unclassified Controlled Nuclear Information" (UCNI) to the Tribes, or waiving any other security requirements. Classified information includes National Security Information (10 CFR Part 1045) and Restricted Data (10 CFR Part 1016). Unclassified Controlled Nuclear Information is described in 10 CFR Ch. X, Part 1017. In the event that information requested under the provisions of this Agreement is determined by DOE to be exempt from disclosure under the Freedom of Information Act, providing the information is not Classified or UCNI, is not controlled by the Privacy Act, and does not contain proprietary information or intellectual property information, DOE may, to the extent authorized by law, provide such information to the Tribes upon receipt of the Tribes' written assurance that the Tribes will maintain the confidentiality of such information.

14. RESOURCES

DOE will provide financial assistance to the Tribes for the purpose of carrying out the provisions of this Agreement, provided the U.S. Office of Management and Budget and Congress approve funding requests. The financial assistance will be provided through Cooperative Agreement DE-FC07-03ID14443 (or succeeding agreements) consistent with DOE financial assistance rules set forth in 10 CFR Subchapter H, Part 600. The Tribes' obligations to perform under this Agreement are contingent upon adequate funding by DOE. All funds provided to the Tribes are Federal funds to be administered exclusively by the Tribes consistent with the provisions of the Cooperative Agreement. No provision herein shall be interpreted to require obligation or payment of funds in violation of the Antideficiency Act, 31 U.S.C. Sec. 1341.

15. AMENDMENTS AND TERMINATION

This Agreement shall continue in effect from the date of execution for a five (5) year term, and may be modified as mutually agreed. This Agreement shall only be amended or terminated by the written mutual agreement of both parties; provided, however, that DOE funding obligations under this Agreement may be suspended or terminated by DOE, in whole or in part, if DOE determines in accordance with applicable laws and regulations that the Tribes are not in compliance with the terms and conditions of the Cooperative Agreement or in the event that appropriations are not available.

FOR THE SHOSHONE-BANNOCK
TRIBES:

Signed:



Nathan Small, Chairman
Fort Hall Business Council

Date: 12/18/20

FOR THE U.S. DEPARTMENT OF
ENERGY:

Signed:



Richard B. Provencher, Manager
Idaho Operations Office

Dated: 12/18/12

Terms Defined

1. Original Ancestral Territory - Those lands or areas historically and traditionally occupied, frequented or used by a specific group or Tribe to live or subsist.
2. Ceded Lands - Lands, which are granted, relinquished, assigned, transferred, typically by Treaty. Ceded territories are those lands formerly occupied by Indians that were relinquished to the U.S. government during the Treaty process.
3. Consult (Consultation) - Consultation includes, but is not limited to, prior to taking any action with potential impact upon American Indian and Alaska Native nations, providing for mutually agreed protocols for timely communication, coordination, cooperation, and collaboration to determine the impact on traditional and cultural life ways, natural resources, treaty and other federally reserved rights involving appropriate Tribal officials and representatives throughout the decision-making process, including final decision-making and action implementation as allowed by law, consistent with a government-to-government relationship. For purposes of this Agreement, the consultation process includes: 1) notifications and discussions at a working level; 2) technical briefings and discussions to mitigate impacts and effects; and 3) where required or necessary to resolve disputes, formal government-to-government consultation between the Tribal Council and the DOE-Idaho Operations Office Manager.
4. Cultural Resources - For the purposes of this Agreement cultural resources include, but are not limited to: archaeological materials (artifacts) and sites dating to the prehistoric, historic, and ethno historic periods that are located on the ground surface or are buried beneath it, natural resources, sacred objects, and sacred sites that have importance for American Indian and Alaska Native peoples; resources that the American Indian and Alaska Native nations regard as supportive to their cultural and traditional life ways.
5. Historic Properties or Historic Resources - Any prehistoric or historic district, site, building, structure, or objects included in, or eligible for inclusion on the National Register, including artifacts, records, and material remains related to such a property or resource. 16 U.S.C. § 470w(5).
6. Government-to-Government - This relationship acknowledges Tribal governments as sovereign entities with primary authority for the protection of the health, safety, and welfare of their citizens. Status as a sovereign nation requires the federal government to interact with tribal governments on an official basis, one government to another. Government-to-government also recognizes a Tribe's right to self-government and self-determination.
7. Reservation Lands - Reservations are established by treaty and specifically sets aside a geographic area for exclusive occupation by a Tribe or Band of Indian people.

8. Trust (Responsibility) - Trust Responsibility includes, but is not limited to: promotion and protection of Tribal Treaty rights, federally recognized interests of the beneficiary American Indian and Alaska Native nations; determining, documenting, notifying, and interacting with tribal governments with regard to the impact of Departmental programs, policies, and regulations to protect American Indian and Alaska Native traditional and cultural life ways, natural resources, treaty and other federally recognized and reserved rights.
9. Withdrawal -Withdrawal means withholding an area of Federal land from settlement, sale, location, or entry under some or all of the general land laws, for the purpose of limiting activities under those laws in order to maintain other public values in the area or over an area of Federal land from one department, bureau or agency to another department, bureau or agency. (41 CFR, Section 2300.0-5)

AGREEMENT-IN-PRINCIPLE
THE SHOSHONE-BANNOCK TRIBES
AND
THE UNITED STATES DEPARTMENT OF ENERGY
ARTICLE 10 – TRIBAL SELF SUFFICIENCY
INTENT AND PURPOSE - CLARIFICATION

OBJECTIVE(S):

By this discussion, a “new” attachment, attachment 2, is established in order to clarify the intent of Article 10, Tribal Self Sufficiency, and set forth a process for satisfying the Tribes’ interests and needs in education and training. It is in the mutual best interest of the Tribes and the Department of Energy, consistent with the purpose of the Agreement-in-Principle and the Department’s American Indian and Alaska Native Tribal Government Policy, to assist the Tribes and its members to prepare for and accept meaningful employment in math, science and other related technical fields, when jobs are available and Tribal individuals meet all the qualifications. It is also beneficial to assist Tribal students prepare for an exciting future, after High School graduation, through curriculum and course studies tailored to future professional goals and objectives. To this end, the Department and its contractors will provide career counseling in order to assist students, at an early age, prepare for careers in science, math and engineering, and related administrative and technical support professions, should they choose.

TRAINING:

1. JOB FAIRS – CAREER PLANNING – TRAINING
 - a. Work with the Tribes’ Tribal Employment Rights Ordinance (TERO) Office
 - b. Schedule two Job Fairs per year
 - i. Both Cleanup (EM-ICP) and Laboratory (NE) contractors will participate
 1. CWI – Lead Point of Contact
 2. BEA – Lead Point of Contact
 3. BBWI (AMWTP) – Lead Point of Contact
 - c. Provide DOE-ID and Contractor Job Listings to TERO
 - i. Websites

- d. Publish Special Training Requirements
 - i. Enable Access to Specialized Training Programs (EITEC, etc.)
 - 1. Facilitate Placement in Programs
- e. Meet Annually with Fort Hall Business Council and TERO Director
 - i. Status Efforts
 - ii. Review Needs

EDUCATION:

- 1. WORK WITH SHOBAN JR. & SR. HIGH SCHOOL SCIENCE & MATH TEACHERS TO DEVELOP TEACHING LESSON PLANS
 - a. Provide Tours of Laboratory Facilities
 - i. Career Presentations by INL Department Managers
- 2. CAREER WORKSHOPS – SHOBAN JR. & SR. HIGH SCHOOL
 - a. Annual Career/Education Workshops
 - i. Contractor Lead Education Outreach Point of Contact
 - ii. DOE Education Contact – Linda McCoy
 - iii. Coordinate with School Superintendent, School Principle, and School Guidance Councilor
 - b. Education Planning Assistance
 - c. Scholarship Opportunities
- 3. SUMMER INTERNSHIPS
 - a. Solicit and Interview Applicants (candidates) through School Guidance Counselor, and Principle
- 4. Meet Annually with Fort Hall Business Council, School Superintendent, School Principle, and School Guidance Counselor
 - a. Status Progress – Successes
 - b. Review Effectiveness

EMPLOYMENT:

- 1. Provide Job Listings to TERO
 - a. Respective Contractor Websites
 - b. email Notification of “new” Job Listings

PART III SECTION J, ATTACHMENT J
SMALL BUSINESS SUBCONTRACTING PLAN
FISCAL YEAR 2014

Idaho National Laboratory

Small Business Subcontracting Plan

Contractor: Battelle Energy Alliance, LLC
 Address: 2525 Fremont Avenue
 Idaho Falls, ID 83415

Period of Performance: Fiscal Year 2014 (10/01/13-09/30/14)

**Total Dollars Planned to be Subcontracted Under the INL Small Business Subcontracting Plan:
 \$100,944,360**

1. Introduction

Battelle Energy Alliance, LLC (BEA) is committed to supporting the small business objectives of the U.S. Government and the Department of Energy (DOE) and recognizes that diversity in subcontracting provides a vital link to the local community, strengthens the economy, and represents best business practices. This commitment is communicated through the goals outlined in the Small Business Subcontracting plan for Fiscal Year (FY) 2014 and will remain in effect for the period of performance specified above.

2. Goals

Consistent with BEA historical small business goal performance and anticipated laboratory procurement needs, 40% of the adjusted dollars are projected to be subcontracted by BEA from October 1, 2013 through September 30, 2014 will be subcontracted to small business. The adjusted procurement volume excludes contracts for work outside the US, miscellaneous vouchers and BEA affiliates.

In addition to the Small Business goal, BEA has established percentage goals for four socioeconomic categories. We have included the percentage of goal and the corresponding estimated dollar amount based on the projected spend as reference.

Small Business Goals	Percentage Goal	Estimated Dollar Volume
Small Business	40%	\$100,944,360
Socioeconomic Goals		
Small Disadvantaged Business (includes Native American-owned and Alaskan Native Corporation)	5%	\$12,618,045
HUBZone Small Business	2.5%	\$6,309,023
Women-Owned Small Business	5%	\$12,618,045
Service-Disabled Veteran-Owned Small Business	3%	\$7,570,827

BEA will emphasize use of Idaho-based businesses through the Idaho Business Concerns goal. The Idaho Business Concerns Goal includes subcontracting to small and other than small businesses with operations in the state of Idaho. The FY 2014 goal is a percentage of the adjusted procurement volume.

Idaho Business Concerns Goal	Percentage Goal	Estimated Dollar Volume
Idaho Business Concerns	30%	\$75,708,270

3. Principal Types of Supplies and Services to be Subcontracted

The principal products and services to be procured in support of the small business subcontracting plan are those associated with an extremely diverse research and development environment and are vital to accomplishment of INL mission objectives.

BEA has established five principal procurement categories; Commodities, Construction, Equipment (major), Information Technology and Services to track and communicate opportunities. These five principal procurement categories will be presented to small businesses that align with the socioeconomic categories in the subcontracting plan.

Supply or Service	SB	SDB	HUBZone	WOSB	SDVOSB
Commodities	x	*	*	x	*
Construction	x	*	*	x	*
Equipment (major)	x	*	*	x	*
Information Technology	x	*	*	x	*
Services	x	*	*	x	*
*BEA will make every effort to find small businesses in these categories.					

BEA has identified primary North American Industry Classification System (NAICS) codes by Subsector in each the five principal procurement categories which BEA subcontracts under. These NAICS codes are reflected in the table below.

NAICS Subsector	Commodities	Construction	Equipment	Information Technology	Services
236		x			x
238		x			x
334	x		x	x	x
532			x	x	
541				x	x

4. Method Used to Develop Subcontracting Goals

Methods used to establish the small business subcontracting goals are based on historical spend analysis, industry research and internal forecasts. The methodology behind the goals also includes key factors based on DOE directives and current contractual obligations. Based on past performance and future projections, the percentage goals in this plan represent a realistic yet challenging objective for the staff that is ultimately responsible for making the goal achievement.

The adjusted procurement volume includes all anticipated contractual agreements between BEA and external performers, excluding subcontracts involving performance outside the United States, miscellaneous voucher payments and purchases from a corporation, company, or subdivision that is an affiliate of BEA.

5. Method Used to Identify Potential Sources

BEA will use the following resources to target and research potential small businesses, focusing on small businesses within the established socioeconomic categories.

- The federal government's System for Award Management (SAM) database and the U.S. Small Business Administration's (SBA) Dynamic Small Business Search database and the DOE Office of Small Disadvantaged Business Utilization (OSDBU) small business database.
- Historical procurement records from procurement actions where small businesses were successful.
- Advertise significant procurement actions externally through the INL Small Business Procurement Opportunities Web pages, DOE Acquisition Forecast, Federal Business Opportunities (FedBizOpps) Website, SBA SubNet database and Vetbiz.gov.
- Issue Expression of Interests through email, newspaper/publication advertising and/or Web site posting to seek small business interest in potential procurement actions.
- Sponsor small business matchmaking events and Focus-On forums to encourage the use of small business teaming and small business participation in subcontract award and performance.
- Use the Battelle family of DOE Laboratories (BNL, NREL, ORNL, PNNL) Small Business Program Offices and Battelle corporate Office of Supplier Diversity to research, identify and validate small business sources.
- Regional and State small business databases/directories; Buy Idaho, Idaho Economic Development Directory, Small Business Development Centers and Northwest Minority Business Council.
- Original socioeconomic databases and/or directories; National Minority and Women Owned Business Directory, VetBiz.com, etc.
- Electronic and/or hard copy small business promotional materials and correspondence.

6. Indirect Costs

Indirect costs have not been included in the dollar and percentage subcontracting goals.

7. **Administrator of Subcontracting Program**

The administrator of the small business program is:

Contact: Stacey Francis
Title: Small Business Program Manager
Address: PO Box 1625
Idaho Falls, Idaho 83415-1303
Email: stacey.francis@inl.gov Phone: (208)526-8564 FAX: (208)526-7743

The vision of the Small Business Program is to target, shape and retain small businesses to help create a preeminent nuclear laboratory with world-class capabilities. This vision can be met through the use of capable and reliable small business as well as new and improved business practices inclusive of inreach and outreach activities.

Inreach activities include communicating the Small Business Program objectives and working with internal customer base, including program and procurement personnel, to define procurement needs and collaborate on potential opportunities for small business. Outreach activities will focus on developing programs to connect the INL to external audiences, primarily small businesses.

Inreach Activities

- Work with INL Directors and program managers to communicate laboratory goals and to identify small business opportunities within the technical programs, specifically through advanced acquisition planning initiatives managed through the Small Business Office.
- Hold periodic training and other meetings with the procurement staff on the Small Business Program, company goal status, and to introduce innovative ideas on how to use small businesses for procurement activities.
- Develop useful and informative small business aides for procurement and program staff that highlight small business requirements and BEA's commitment to small business.
- Continue the use of the Small Business Awards Program to recognize outstanding efforts of procurement staff and programs that use small businesses or create opportunities for small business participation.

Outreach Activities

- Participate in small business trade fairs, specifically to engage small business, communicate the INL vision and mission, and promote potential procurement opportunities.
- Attend DOE-sponsored Small Business Program Manager meetings and participate in the annual DOE Small Business Conference.
- Partner with trade associations, business development organizations, and conferences to target and identify small businesses.

- Counsel and communicate subcontracting opportunities with potential small businesses and mentor and arrange appropriate assistance to these firms as required and practicable.
- Participate in regional and national small business and economic development conferences, including the Idaho Business Opportunity Conference, Greater Idaho Falls Chamber of Commerce Business Forums, Idaho's Association of Cities conference, and the annual DOE Small Business Conference.

8. Providing Equitable Opportunity

BEA agrees to ensure that small businesses will have an equitable opportunity to compete for subcontracting opportunities.

- The Small Business Program Manager may review purchase requisitions and solicitation lists, and as appropriate, add small businesses as potential sources.
- Small Business Program Manager assists and encourages the program and procurement staff to identify and target small businesses using the System for Awards Management (SAM), DOE OSDBU small business database, SBA database, iSupplier and Pacific Northwest National Laboratory's supplier database.
- Staff will post solicitations and forecasted procurement opportunities to the extent practicable on INL Procurement Opportunities web pages and in the DOE Acquisition Forecast website to maximize exposure to the small business community.
- When appropriate, procurements may be synopsisized in FedBizOpps in an effort to locate additional qualified small businesses for participation.

9. Flow-Down Provisions

Each purchase order and subcontract issued under the BEA Prime Contract will include the applicable clauses relating to small business subcontracting at the prescribed thresholds.

BEA's approved purchasing system requires procurement staff to include mandatory small business clauses in all solicitations for negotiated procurements to other than small business, exceeding \$650,000 (\$1,500,000 for construction) which may offer subcontracting opportunities.

Lower-tier subcontracting plans from other than small business concerns will be reviewed and approved by BEA's Small Business Program Manager. The Small Business Program Manager will provide assistance in identifying potential small business opportunities and to monitor semi-annual reporting requirements.

10. Reporting and Cooperation

BEA gives assurance to (1) submit such periodic reports, as may be required by DOE or the SBA; (2) cooperate in any studies or surveys conducted by DOE or SBA; (3) submit small business subcontracting achievement data using the Individual Subcontract Reports and Summary Subcontract Reports within the Electronic Subcontracting Reporting System (eSRS); and (4) ensure that its large business subcontractors with subcontracting plans agree to input into the eSRS.

11. Document Retention

The following is a list of the types of documents BEA will maintain the following to demonstrate procedures adopted to comply with requirements and goals in the Small Business Subcontracting Plan.

- A. Source lists, guides and other data that identify suppliers and vendors.
- B. Organizations contacted in an attempt to locate all categories of small business sources.
- C. Records in the procurement file on each solicitation resulting in an award of more than \$150,000 indicating whether small businesses within the established socioeconomic categories were solicited and, if not, why not, and the reason for not including small business concerns in the solicitation list.
- D. Records of any outreach efforts.
 - Trade associations
 - Business and economic development organizations
 - Conferences and trade fairs to locate small business
- E. Records of internal guidance and encouragement provided to BEA personnel through various inreach activities.
 - Workshops, seminars, and training programs
 - Monitoring performance to evaluate compliance with the program's requirements
- F. Representations and Certifications of small businesses.
 - Verification of small business size status through SAM to ensure subcontractors are certified by size and NAICS
- G. Records of formal or informal semi-annual progress reviews of goals, adjusting subcontracting opportunities as needed to ensure goals are achieved.

**EMPLOYEE MANAGEMENT PROGRAM
ADVANCED UNDERSTANDING**

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PART - 1- INTRODUCTION

- A. This attachment sets forth allowable costs by advanced understanding for the Contractor's costs of wages and other employee benefit programs. This advance understanding shall be incorporated into Section J, Attachment L entitled, "Employee Management Program." Changes to the advance understanding shall receive the written approval of the Contracting Officer.
- B. The Contractor shall select, manage, and direct the work force; and apply the policies set forth herein in general conformity with the methods used in its private operations insofar as those methods are consistent with this contract. The Contractor shall use effective management review procedures and internal controls to assure that the allowable costs set forth herein are not exceeded, and that areas which require prior approval of the DOE Contracting Officer or designated representative are reviewed and approved prior to incurring the costs.
- C. The Contractor maintains Policy (POL) documents, lab-wide procedures (LWPs), the Management Resource Manual, an Employee Handbook (HBK-25001) and a Benefits Handbook (HBK-25002) that contain detailed information regarding the policies referred to in this document.
- D. Either party may request that this Attachment be revised, and the parties hereto agree to give consideration in good faith to any such request. Revisions to this Attachment shall be accomplished by executing Reimbursement Authorizations (DOE Form AD-36), as approved by the CO or designated representative. When revisions to this Attachment are agreed upon, revised pages will be issued reflecting such changes and will bear the effective date of such changes.

PART - 2 - DEFINITIONS

- A. Adjustment. Change in salary outside the normal salary program required to establish either internal or external equity for a given position.
- B. Base Rate or Base Salary. Rate of pay per hour, per week, or per month, exclusive of any premium, established for each job classification in accordance with the approved wage and salary schedules.
- C. Contractor. Battelle Energy Alliance, LLC (BEA).
- D. Critical Hire. Critical hires or critical skills positions are defined as those for which the knowledge, skills and abilities or educational requirements are such that they would not be expected to be found in the INL general workforce. In addition, critical hires possess skills in fields that are in competitive markets. These individuals possess unique positions and/or access to unique capabilities in their fields. Critical hires are established professionals in private industry, the US military forces, other national laboratories, or educational institutions. The critical hires skill set are not specifically limited to support the mission areas, but represent the more broad based needs and functions to perform laboratory work.
- E. Exempt Salaried Employees. Executive, administrative, and professional employees who are exempt from certain provisions of the Wage and Hour laws.
- F. DEAR. Department of Energy Acquisition Regulation. The DEAR implements and supplements the Federal Acquisition Regulation (FAR) and is not, by itself, a complete document; it must be used in conjunction with the FAR. The DEAR is divided into the same parts, subparts, sections, subsections and paragraphs as is the FAR. However, when the FAR coverage is adequate by itself, there will be no corresponding DEAR part, subpart, etc.
- G. Employee. A person hired by and working for the Contractor.
- H. FAR. Federal Acquisition Regulations are a series of regulations issued by the Federal government of the United States that concern the requirements of contractors for selling to the government, the terms under which the government obtains ownership, title and control of the goods or services purchased, and rules on specifications, payments and conduct and actions regarding solicitation of proposals or bids and payment of invoices.
- I. FTR. Federal Travel Regulation. The FTR governs temporary duty travel allowances; relocation allowances; payment of expenses connected with the death of certain employees; and payment from a non-federal source for travel expenses.
- J. Merit Increase. Increase in the salary of an employee within the established rate range of employee's job classification, which is granted consistent with approved salary increase guidelines.
- K. Nonexempt Salaried Employees. Employees who are covered under and are subject to the provisions of the Wage and Hour laws, and are not covered by a collective bargaining agreement. They are on the weekly salaried or hourly payroll.

- L. Project Hire. An exempt (may be nonexempt in unique/rare circumstances) employee hired to perform a specific task or work on a specific well-defined project and whose services will not be required when the specific task or project is completed.
- M. Salaried Employees. Includes both exempt and nonexempt non-represented employees.
- N. Seconded Employee. Personnel that are loaned between BEA and other entities, such as our teaming partners, to assume temporary duties. This may also be referred to as a leased employee
- O. Severance Pay. A week's pay for layoff purposes is equal to the employee's straight time hourly rate times 40. Premium pay for shift differential, overtime, or like payments, is excluded.
- P. Straight-time hourly rate. See *Base Rate or Base Salary* definition.
- Q. Strategic Hire. Senior scientists or engineers with a national and/or international reputation and established area of program support relevant to the INL mission and vision.
- R. Termination. Quit, discharge, layoff, retirement, death, and/or removal from the payroll because of disability (as distinguished from disability absence where the employee is not removed from the payroll).
- S. Workweek. A 40-hour work week.

PART - 3 - LABOR RELATIONS PROGRAM

The contractor's Labor Relations Program will be managed in accordance with contract clauses H.14(d), H.16, H.17, H.20, H.29, and I.20.

The Contractor will provide DOE notification and an estimate of costs associated with any action by the Contractor under the Labor Management Relations Act of 1947, as amended, and/or involving the National Labor Relations Board.

Costs of wages and fringe benefits to employees represented by collective bargaining units, not in excess of those provided in the Collective Bargaining Agreements shall be allowable. All other costs, such as expenses relating to the grievance processing and settlements, arbitration and arbitration awards and other costs and expenses incurred pursuant to the provisions of the Collective Bargaining Agreements and revisions thereto are allowable costs hereunder.

PART - 4 - PAY AND SALARY ADMINISTRATION POLICIES

A. Exempt and Nonexempt Salaried Employees

The Contractor shall submit its Compensation Program for *exempt and nonexempt salaried employees (see definitions)* to the DOE Contracting Officer for periodic review in accordance with Contract requirements. Proposed major compensation design changes will also be submitted for review and approval. Administration of wages and salaries under this contract shall be carried out in accordance with recognized wage and salary administration

principles. The principles shall provide for equitable treatment of personnel on a definitive, systematic basis consistent with economic business practices and judicious expenditures of public funds and which shall result in payment of total compensation to individual *employees (see definitions)* conforming to the standards of reasonableness, allowability and allocability as contemplated by *FAR (see definitions)* Subpart 31.201. Also see contract clause H.14(c)(1).

B. Salary Administration

1. Employee and management salaries are allowable in accordance with company policies. Salary actions for the Laboratory Director and the four most highly compensated employees who report directly to the Laboratory Director must be approved by DOE-ID, in accordance with FAR 31.205-6 and contract clause H.14(c)(5).
2. Rate Increases. Employees paid below the minimum rate for their range will have their salaries/pay rate increased to reflect a new rate when salary ranges are adjusted.
3. Red Circle Rates. Employees paid above the maximum rate for their range will be placed in a “red circle” classification. They shall receive no *base salary (see definitions) adjustments (see definitions)* until such time as the rate range is increased to include their pay. They will then be eligible for increases that will result in them being paid no more than the maximum for their range.
4. Bonuses and Salary Compensations. Bonuses and incentive compensation are allowable in accordance with the provisions of FAR 31.205-6. Specific details are provided in the Compensation Increase Plan (CIP).

C. Annual Compensation Increase Plan (CIP)

1. Each year, the Contractor will develop, in accordance with DOE guidance, a CIP for review and approval by the CO.
2. All increases are charged to the fund on an annualized basis. Once an individual’s salary increase is charged to the fund, reuse of that amount, i.e., recovery, for any other purpose during the salary year is unallowable. If an individual terminates before receiving an increase, the portion of the fund allocated for that increase may remain in the fund.
3. Increases due to movement from non-fund generating positions; i.e., represented positions to non-represented positions or temporary positions to permanent positions, provided they were competitively bid, are allowable and not chargeable to the fund.
4. When an internal or external candidate is hired for an open competed (posted) job that results in a promotion, the resulting action will not be charged to the CIP promotion funds. However, when an employee is reassigned, reclassified, or promoted without competition to a higher level job, the action will be charged to the CIP promotion fund.

5. Increases due to a formal salary equity analysis are allowable and are not chargeable to the fund.

D. Premium Pay and Additional Compensation

Costs are allowable and will be paid in accordance with BEA POL-25101, "Pay Policies."

E. Meal Allowance

Costs are allowable and will be paid in accordance with LWP-1106, "Unscheduled Overtime Meals."

F. Overtime Management

Costs for overtime are allowable in accordance with contract clause I.21. Should the 4% contractual requirement be exceeded due to overtime of the INL Protective Force and Fire Departments, DOE-ID will not require further overtime controls.

G. Severance Pay

Costs are allowable in accordance with contract clause H.15 and calculated based on years of service as described in BEA HBK-25002, "Benefits Handbook."

H. Furlough

In an effort to avoid or minimize layoffs, furloughs may be implemented. A furlough is a temporary, defined period of unpaid time off, at the end of which the employee returns to work on a paid basis. In each event of a furlough, the Laboratory will communicate the dates; increments; impacted organizations and positions; and questions and answers in a BEA Furlough Plan customized to that specific event. Furloughs will be implemented in accordance with collective bargaining agreements, and in accordance with applicable laws, rules and regulations.

I. Pay in Lieu of Notice

When an employee is terminated by the Laboratory for any reason except "discharged for cause," they may receive pay in lieu of notice up to two (2) weeks.

J. Non-Chargeable Step Progressions

Non-chargeable step progressions for personnel that meet established, documented criteria (such as the Nuclear Facility Technicians and certain Specific Manufacturing Capability) are approved.

K. Nuclear Facility Technician Certification Bonus Program

An annual certification bonus will be paid to all employees who, at the request of the Contractor, maintain active certifications in the Reactor Operations Certification Program. An eligible employee transferring to a non-eligible position or terminating will not receive a bonus for the time spent in an eligible position prior to transfer/termination.

PART - 5 - BENEFIT PROGRAMS AND POLICIES

The employee benefit plans and all amendments thereto, shall be subject to prior DOE-ID Contracting Officer approval. Related costs, described in this part are approved by DOE for application to employees working on this contract and are allowable.

The plans may be continued from year to year without further DOE approval, even though experience under the plan may result in increased premium cost, providing the benefits are not changed. The Contractor will notify the DOE-ID Contracting Officer of any change in costs (e.g., premium rates) which are not attributable to a change in benefits. The impact of all personnel policies on participation in these plans will be described in the individual plan descriptions.

The Laboratory has in effect the following benefit plans that are approved by DOE.

- Flexible Benefits Program
- Vision Insurance
- Retirement Plan
- Dental Insurance
- Investment Plan
- Business Travel Accident
- Medical Plan, including retiree medical coverage
- Life Insurance
- Dependent Life Insurance
- Long-Term Disability Insurance
- Flex Spending Accounts
- Short-Term Disability Insurance
- Long-Term Care Insurance
- Accidental Death & Dismemberment Insurance

A. Contractor Service Credit for Purposes of Benefits

1. Contractor service credit shall encompass that period of uninterrupted active service rendered by an employee for the Contractor from the most recent date of employment, with special applications as outlined in this Attachment J-L.
2. Employees transferring to the INL Contractor from other contractors participating in the INL benefit programs will receive continuous benefit plan credit based upon their credited service as current participants in the INL benefit programs. Employees who transfer in from contractors who are not part of the INL Contractor's corporation and who are not participating in the INL benefit programs will not have prior service credit transferred but will start accruing service based on their service time with the INL Contractor. See contract clause H.14(c)(2).
3. Prior service credit for employees transferring to the Contractor from the parent company or its subsidiaries will be applied in accordance with this contract and the Contractor's service credit policies regarding leave accrued, and participation in other contractor benefit plans other than the defined-benefit and defined-contribution pension plans. Employees transferring to the INL Contractor from the parent company or its subsidiaries will be credited with prior service credit for purposes of vesting in the defined-contribution pension plans.

4. There will be no duplication of benefits in allowing prior service credit.
5. Should an employee of the Contractor be laid off and subsequently rehired within a twelve (12) month period, the recognized Contractor service credit will be considered continuous if they repay all severance pay they received at termination.
6. For part-time and casual employees, service credits are calculated based on hours worked and holidays. When 2,080 paid hours are accumulated, one (1) year of service will be credited.
7. Personal leave (PL) and short-term disability (STD) bank hours privileges for employees acquired as a result of mergers, purchases, trades, transfer from the parent company and its subsidiaries, or other similar methods of acquiring employees, shall be determined as though their continuous service in the acquired operations was service rendered in the employ of the Contractor.
8. Employees hired as strategic hires will receive recognized service credit based on the demonstrated relevance of past employment as compared to the Contractor position. The Contractor has the authority to offer PL accrual rates in excess of 2.77 hrs/wk to strategic hires, as well as sign-on bonuses and participation in incentive compensation. Strategic hires are announced via a letter to DOE.
9. Employees hired as critical hires may receive recognized credit based on the demonstrated relevance of past employment as compared to the Contractor position. The authority for granting service credit in excess of 2.77 hrs/wk for critical hires resides with the Laboratory Director and/or the Deputy Laboratory Director for Management.
10. Employees whose positions are identified on the List of Key Personnel will receive recognized service based on the demonstrated relevance of past employment as compared to the Contractor positions.

B. Holidays

Eighty hours of holiday will be credited annually and employees will be paid for their regular scheduled hours at their regular base rate.

C. Leave of Absence Programs

The Contractor reviews the leave of absence programs in the context of industry trends and employee/supervisor inquiries (particularly recurring inquiries). The costs of the INL Contractor leave programs are allowable expenses in accordance with FAR 31.205-6(m).

1. Personal Leave/Short-Term Disability

Personal leave (PL) is earned under two systems, depending on the employee's hire date. Former B&W employees hired before July 1, 1976, former EG&G employees hired before October 1, 1976, and former WINCO employees hired before January 1, 1977 (dump system employees) receive their annual PL in a lump sum on the first workday in January, while employees hired on or after these dates (accrual system employees) receive their annual PL in weekly accruals.

- a. Employees, except those on the dump system, will earn PL and STD for each workweek they are in pay status (defined to include insured STD and workers' compensation wage reimbursement payments) for not less than one-half of the work hours scheduled for such a week according to the following schedule:

Months of Service	Hours Per Week			Hours Per Year		
	PL	STD	Total	PL	STD	Total
0 through 60	2.77	0.62	3.39	144	32	176
61 through 108	3.23	0.62	3.85	168	32	200
109 through 228	3.54	0.62	4.16	184	32	216
229 or more	4.31	0.62	4.93	224	32	256

- b. Employees in the dump system will earn STD hours at the rate of 0.62 hours for each workweek they are in pay status (defined to include insured STD and workers' compensation wage reimbursement payments) for not less than one-half of the work hours scheduled for such week.
- c. PL and STD bank hours for which a part-time employee is entitled are calculated at the rate of one week's accrual for each 40 hours worked as follows:

Cumulative Hours Worked	Leave Per 40 Hours Worked		
	PL	STD	Total
173 through 10,400	2.77	0.62	3.39
10,401 through 18,720	3.23	0.62	3.86
18,721 through 39,520	3.54	0.62	4.16
39,521 or more	4.31	0.62	4.93

- d. Employees who are assigned to work at the site may earn up to 0.29 hours per week of additional PL, if they work at least 80% of their work week at the site for a minimum period of four consecutive weeks.
- e. In accordance with Contractor policies, an employee may receive an advance of PL or donations of PL from other employees under certain circumstances of need.
- f. In accordance with Contractor policies, employees may cash out their PL in the event of financial hardship that meets IRS criteria.

2. Miscellaneous Personal Leave

Personal Leave Carryover Maximums

Months of Service	Maximum Carryover
0 Through 60	200 Hours
61 Through 120	240 Hours
121 or More	320 Hours

- a. The Contractor HR&D Director, or DOE in the event of a request for carryover of excess amounts for three or more consecutive years, may approve the general carryover of PL hours in excess of these maximums. Requests to exceed these limits will not be granted unless a compelling extraordinary rational exists. It is expected that such excess carryover will be taken in the next calendar year. Absent any further exceptions, any PL hours in excess of these limits at the end of the next calendar year will be forfeited.
- b. All unused PL hours in excess of the allowed carryover limits (that are not approved by the Contractor for special carryover) at the end of the calendar year shall be forfeited and the employee may not be paid for such forfeited PL.
- c. In applying the carryover limits, PL hours that may have been donated to other Laboratory employees (but not actually transferred pending final determination of how many hours will actually be needed by the recipient) will not be counted.
- d. There shall be no limit to the number of unused STD bank hours that an employee may carry over.
- e. Upon termination for any reason, including retirement or layoff, except as noted below, employees will be paid a lump sum for any PL credited but not used. Upon termination for any reason, including retirement or layoff, employees will not be paid for unused STD bank hours.
- f. Any employee who transfers from the Contractor to another corporate entity, will have the option of transferring all or part of his/her unused PL to the new employer, depending upon the ability of the new employer to receive this PL, or be paid off in a lump sum before transferring.
- g. In those situations where an employee transfers to the Contractor directly from another corporate entity, the Contractor may recognize and transfer in the accrued PL from the losing employer. The contractor may also transfer and accrue STD hours up to the maximum of 500 hours from the other corporate entity.

3. Integrated Health and Disability Absence Policies

Costs are allowable under this contract and administered in accordance with BEA Handbook 25002, "Benefits Handbook."

4. Bereavement, Court, Military, and Professional Leaves

Costs are allowable under this contract and administered in accordance with BEA HBK-25002, "Benefits Handbook."

5. Time-Off-Without-Pay

Costs are allowable under this contract and administered in accordance with BEA Handbook-25002, "Benefits Handbook."

6. Other Approved Leave

In accordance with laboratory policies, approved leave, payable at straight time rates, will be allowable for the following reasons:

- a. Due to facility closures, for bad weather, civil defense exercises, or other DOE approved activities.
- b. For unavoidable partial day absences of exempt employees who have exhausted their paid leave benefits (including personal leave and/or short-term disability bank hours) and who cannot make up the absence within the same work week.
- c. To account for absences resulting from incident investigations in situations that may result in disciplinary action, including security suspension pay governed by 10 CFR Part 710.

D. Defined Benefit Pension Plan and Defined Contribution Pension Plan

Costs are allowable in accordance with contract clauses H.14(c)(3) & (4) and FAR 52.215-15 and 18.

PART - 6 - EMPLOYEE PROGRAMS

A. Training Programs

Costs associated with Contractor-Directed and Contractor-Endorsed Training Programs are allowable in accordance with the regulations of FAR 31.205-44.

B. Education Programs

Costs associated with the INL Education Programs are allowable in accordance with the regulations of FAR 31.205-44.

C. Reimbursement for Memberships, Professional Fees, Dues, and Licenses

Professional licenses, certifications, and memberships are critical to national and international scientific recognition. Additionally many DOE and other federal regulations

require licensing to perform certain functions or job responsibilities. The INL encourages and promotes employee participation in professional societies and supports INL employees pursuing required licenses and/or certifications. Costs incurred for employees' membership fees, licenses, and certifications are allowable in accordance with FAR 31.205-43 and 44 and administered in accordance with BEA HBK-25001, "Employee Handbook "and LWP-75, "INL Education Program."

D. Participation in Association Activities

Cost incurred as a result of participation in the activities of technical, professional, and business associations will be allowed, as indicated below, when such participation is beneficial to the work under this contract and does not interfere significantly with the employee's primary assignment under this contract.

The costs allowed will be as follows:

- a. Salaries while participating in these activities.
- b. Registration fees for attendance at conventions, conferences, expositions, and other meetings; such fees to include only the minimum requirements for attendance.
- c. Travel expenses connected with the attendance mentioned immediately above; such expenses to be in accordance with the approved travel policies stated elsewhere in this Attachment.
- d. Incidental costs of materials and services incurred in preparing papers and reports related to attendance at conventions, conferences, expositions and other meetings.

E. Retraining for Displaced Employees

Salaries and hourly employees whose jobs are likely to be eliminated due to changes in the Contractor's scope of work or budgetary reductions may be offered opportunities for retraining. Retraining programs will be designed to provide occupational skills which are in demand by the contractor or by other employers locally, regionally, or nationally, as appropriate. Where possible, training will be sufficient to make the individual employable at his or her current level of pay or in a field with prospects for advancement to this level in a reasonable period. Tuition payments for courses to qualify displaced employees for outside employment may be approved by the Contractor. Retraining for outside employment may be conducted during working hours under programs approved by DOE.

F. Employee Health & Welfare, Morale, and Recognition Programs and Activities

The Contractor establishes and maintains programs to boost morale, promote goodwill, and to recognize and award employees for performance and service. Activities will be consistent with FAR 31.205-13 and FAR 31.205-6. The allocation of monies to various activities will be at the discretion of the Contractor. Contractor activities for employee morale and recognition include awards, dinners, picnics, parties, etc.

G. Safety Programs and Awards

The Contractor trains personnel in safety, first aid, and other safety matters, conducts contests, gives awards, and holds functions to promote safety and morale. Costs in pursuant of company level policy are allowable in accordance with FAR 31.205-13. Items and activities include: educational materials, awards, safety dinners, certificates, plaques, outside speakers, movie films, hall rentals, and site programs.

H. Workplace Substance Abuse Program

Costs are allowable in accordance with contract clause I.24.

PART - 7 - TRAVEL AND RELOCATION

A. General

Except as noted below, allowable costs for business travel, foreign travel, subsistence and relocation expenses of employees will be in accordance with FAR 31.205-35 and 31.205-46. The Contractor HR&D Director approves exceptions to the provisions described herein that are within FAR, DEAR and *FTR* (*see definitions*) regulations.

B. Relocation

1. Relocation for New Hires. INL allows relocation expenses for new hires into exempt positions as well as certain nonexempt positions such as Nuclear Facility Technicians.
 - a. The contractor may pay shipment of personal effects up to 30,000 pounds net weight and the shipment of two personal vehicles.
2. Relocation for Project Hires. A Project Hire is eligible to receive limited relocation benefits. The Contractor may pay some temporary relocation and housing expenses, subject to the same restrictions as employees on temporary assignment.

C. Visa

Reasonable and necessary costs for establishing and maintaining U. S. visas for employees and their immediate family are allowable so long as establishing and maintaining the visas are necessary for the performance of the employees' job responsibilities. Such costs include, but are not limited to, legal fees, filing fees, and travel costs (for employee and immediate family). Budget is approved annually in advance by the DOE Contracting Officer.

D. Temporary Assignments/Location Change

1. Temporary Assignments from 30-365 days. Assignment of an employee for an anticipated period of 365 days or less, but more than 30 days, is considered temporary. INL will reimburse employees for travel expenses in the same manner as the INL reimburses employees for regular business travel expenses incurred on trips of 30 days or less. However, for trips of 31-90 days, the Contractor may classify the time as business travel or a temporary assignment. Employees on temporary assignments are paid actual cost or a reduced per diem, whichever is

less, for lodging and a reduced per diem for meals and incidental expenses (M&IE), for the entire term of the assignment.

- a. Reimbursement while on Temporary Assignment. An employee on temporary assignment shall receive full per diem for the first 60 calendar days for lodging and first 30 calendar days for M&IE of the temporary assignment or until semi-permanent housing is obtained. After the first 60 days for lodging and first 30 days for M&IE, or after semi-permanent housing is obtained (whichever comes first), reimbursement for lodging and M&IE is reduced to 55% of the per diem rate for the location of the assignment. If all eligibility requirements are met (i.e., maintaining duplicate residences, etc.), employees will be eligible for this per diem. While on per diem, receipts for lodging expenses are required. No receipts will be required for M&IE. Lodging while on Temporary Assignment. The lodging portion of the per diem allowance for temporary assignees will not be disallowed except when an absence from the temporary assignment location is sufficiently long to warrant termination of lodging arrangements.
 - b. Travel Home While on Temporary Assignment. While on temporary assignment, employees may be eligible to receive one return trip home for each consecutive four-week period provided business travel has not been provided otherwise. An employee's spouse or other immediate family member may be sent to the temporary work location in lieu of a return trip home provided the action is at least cost neutral.
 - c. Employee's Vacant Home. An employee whose house is vacant due to a temporary assignment may be reimbursed for reasonable and actual home maintenance and/or lease management expenses.
 - d. Personal Effects and Vehicle Shipment. The contractor may pay shipment of 2,500 pounds net weight and the shipment of one vehicle.
2. Permanent Assignment. Unless otherwise approved by the Contractor HR&D Director and the appropriate LMT member, a temporary assignment is reclassified as a permanent assignment if it exceeds 12 months.
 3. Washington, D.C. Assignments. Assignments of INL personnel to the Washington D.C. area are, and will be, in accordance with DOE Notice 350.2, *Supplemental Requirements for the Use of Management and Operating or Other Facility Management Contractor Employees for Services to DOE in the Washington, D.C. Area*, and DOE O 350.2A *Use of Management and Operating (M&O) or Other Facility Management Contractor Employees for Services to DOE in the Washington D.C. Area*. Legislative assignments in the Washington D.C. area are subject to the requirements of DOE O 350.2. Assignments are approved by the Contractor Science and Technology (S&T) Council Chair and/or DOE-ID.
 4. Intergovernmental Personnel Act (IPA) Assignments. An IPA assignment is a temporary transfer of skilled personnel between the Federal Government and State or local governments, institutions of higher education, Native American Tribal governments, and eligible non-Federal "other organizations, including Federally

Funded Research and Development Centers. Costs associated with IPA assignments are allowable as approved by the appropriate Contractor LMT Member.

5. Foreign Travel Assignments. The Contractor reimburses travel expenses associated with foreign business travel in accordance with applicable FAR, DEAR and FTR guidelines.

PART - 8 - MISCELLANEOUS POLICIES

A. Personnel Borrowed

The cost associated with Battelle Corporation or affiliate employees who do not work for the INL Contractor, but are borrowed for incidental work under this Contract is allowable. Reimbursement for the time such employees work under this Contract is allowable in accordance with the home operating unit's disclosed costing practices. Time worked under this contract includes the time spent by employees en route to and returning from the site of work. Travel cost of such borrowed personnel is allowed on the same basis as for INL Contractor employees.

B. Special Assignments/Personnel Loaned

Special Assignments that support the Laboratory Agenda and/or enhance the Laboratory's reputation are reimbursable under the INL Contract. Examples of allowable special assignments include: internships, service on board of directors, interagency personnel loans, affiliate staff scientists, joint appointments, sabbaticals, fellowships, and post-doctorals.

C. Clothing

1. Uniform and Clothing Expense

Costs are allowable for special clothing, uniforms, and shoes for employees who are required or allowed to wear them for various reasons such as housekeeping, guard exercise clothing, etc. Costs are also allowable for the laundering of such special clothing

2. Loss of, or Damage to, Employees' Clothing and Personal Effects

Employees may be reimbursed for clothing and personal effects damaged or destroyed on plant or laboratory premises as a result of fire, explosion, radioactive contamination, or other similar incidents, under circumstances in which the employee is not negligent in failing to use protective clothing. Reimbursement is made only for cost not covered under other insurance.

D. Medical Examinations

The Contractor may authorize or require any employee or prospective employee to submit to a medical examination when such examination is considered advisable. Costs of such examinations are reimbursable.

E. Personnel Recruitment

In accordance with FAR 31.205-34, reasonable and necessary expenses incurred in the recruitment of personnel, including but not necessarily limited to expenses for help wanted

advertising; employment offices; travel of employees on recruiting assignments; preparation of booklets, INL logo items, and other recruiting material such as pens, pencils, coffee mugs, and other trinkets; and the use of employment agencies or executive search organizations at rates not in excess of standard commercial rates, shall be allowable. Costs for candidate interviews are allowable to include meal cost for employees and candidates, travel cost for interviewees and family in accordance with the FAR and the Contractor travel guidelines. The Contractor will include expenditures for attracting qualified women and minority candidates in its recruiting budget.

F. Employee Association (EA)

The Employee Association is a nonprofit organization of Contractor employees which promotes and sponsors social, education, recreational, and other matters of common interest for members in order to create an atmosphere conducive to good fellowship and high morale. It also sponsors and participates in fund-raising activities for a charitable purpose. Allowable costs for the EA are approved by the Director Communications and Public Affairs.

G. Community Relations

1. The Contractor may make individual employees available to work with or for governmental, quasi-governmental, and other organizations in the local area toward achieving civic, diversity and affirmative action goals (e.g. Bond drives, charitable drives, United Way, participation in energy-use reduction studies, city councils, and school boards).
2. The Contractor may also conduct appropriate community relations activities for the purpose of assisting in the recruitment and retention of qualified personnel, and to improve the representation of women and minorities. Examples of programs which come under this provision are exhibits at science and technical shows, universities, career fairs and related activities; presentations to special interest groups showing opportunities in energy fields and at the INL in particular; on-site tours for local organizations; and presentations to enhance interest in technical careers.
3. The salaries, wages and fringe benefits of employees while engaged in such approved activities are allowable costs. Any commitment of labor has the prior approval of the Deputy Laboratory Director for Management.
4. Award items, valued less than \$100, for speakers and chairpersons of approved events as well as an honorarium, not to exceed the micro-purchase level of the FAR, and travel expenses for keynote speakers are provided as allowable costs.
5. Costs incurred during the conduct of on-site charitable works are allowable (e.g. Team INL for License to Lead, Christmas for Families, Angel Tree Program, United Way.)

H. Workforce Restructuring

See contract clause H.30 and I.26.