

Idaho National Laboratory Site Treatment Plan

January 2016

Idaho National Laboratory

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**Prepared for the
U.S. Department of Energy
DOE Idaho Operations Office**

*INL Site Treatment Plan***CONTENTS**

| | |
|---|------|
| ABBREVIATIONS, INITIALISMS, AND ACRONYMS..... | v |
| NOMENCLATURE | ix |
| 1. PURPOSE AND SCOPE | 1-1 |
| 1.1 History | 1-1 |
| 1.2 Description of Plan | 1-1 |
| 1.3 Purposes..... | 1-2 |
| 1.4 Statutory and Regulatory Requirements..... | 1-2 |
| 1.5 Definitions | 1-3 |
| 2. IMPLEMENTATION OF THE SITE TREATMENT PLAN..... | 2-1 |
| 2.1 Covered Matters | 2-1 |
| 2.2 Compliance Schedules..... | 2-1 |
| 2.3 Quarterly Meetings, Annual STP Updates, and Reports | 2-7 |
| 2.4 Inclusion of New Mixed Waste Streams | 2-8 |
| 2.5 Revisions | 2-9 |
| 2.6 Extensions | 2-10 |
| 2.7 Satisfaction of Requirements and Enforceability | 2-12 |
| 2.8 Funding..... | 2-13 |
| 2.9 Disputes | 2-16 |
| 2.10 Project Managers..... | 2-18 |
| 2.11 Notification..... | 2-19 |
| 2.12 DOE's NEPA Review and FFC Act Implementation | 2-20 |
| 2.13 Submittal and Review of Deliverables..... | 2-20 |
| 2.14 Modification | 2-22 |
| 3. INL TREATMENT FACILITIES | 3-1 |
| 3.1 INL Treatment Facility Status..... | 3-1 |
| 3.2 Description of Facilities Identified to Treat MLLW | 3-3 |
| 3.3 Description of Facilities Required To Treat the Mixed Transuranic-Contaminated Waste at the INL..... | 3-7 |
| 3.4 Description of Facilities Required to Treat Calcine and Sodium-Bearing Waste | 3-8 |
| 4. COVERED WASTE | 4-1 |
| 4.1 Mixed Low-Level Waste Streams | 4-1 |
| 4.2 Transuranic-Contaminated Waste Streams | 4-3 |
| 4.2a Newly Generated Transuranic-Contaminated Waste Streams | 4-8 |

INL Site Treatment Plan

| | | |
|------|---|------|
| 4.3 | Calcine and Sodium-Bearing Waste..... | 4-9 |
| 4.4 | Off-Site Mixed Waste Streams Identified for Treatment by the INL..... | 4-9 |
| 4.5 | Pre- and Post-Treatment/Storage of Off-Site Mixed Waste | 4-10 |
| 4.6 | Deletion of Waste Streams | 4-13 |
| 5. | INL TREATMENT FACILITY SCHEDULES | 5-1 |
| 5.1 | Schedules for Treatment Facilities for Which Technology Exists | 5-1 |
| 5.2 | Schedules for Treatment Facilities for Which Technology Exists but Needs Adaptation, or for Which No Technology Exists | 5-3 |
| 5.3 | Schedules for Mixed Waste Streams Planned for Treatment Off-Site | 5-4 |
| 5.4 | Mixed Transuranic-Contaminated Waste Shipped to WIPP | 5-6 |
| 5.4a | Processing of Newly Generated Mixed Transuranic-Contaminated Waste | 5-8 |
| 5.5 | Backlog Schedules for Operating Treatment Facilities | 5-9 |
| 6. | WASTE STREAM TREATMENT PLANS | 6-1 |

TABLES

| | | |
|-------|---|------|
| 2-1. | Schedule for Wastes with Existing Treatment Technologies | 2-4 |
| 2-2. | Schedule for Mixed Waste Without Existing Treatment Technologies..... | 2-5 |
| 2-3. | Schedule for Radionuclide Separation of Mixed Wastes..... | 2-6 |
| 3-1. | INL Treatment Facilities..... | 3-2 |
| 4-1. | Mixed Low-Level Waste Streams Requiring Treatment | 4-2 |
| 4-2. | Transuranic-Contaminated Waste Streams Designated for WIPP..... | 4-4 |
| 4-2a. | Newly Generated Transuranic-Contaminated Waste Streams Designated for WIPP..... | 4-8 |
| 4-3. | Waste Calcine and Sodium-Bearing Waste (SBW)..... | 4-9 |
| 4-4. | Off-Site Waste Streams Identified for Treatment at the INL..... | 4-10 |
| 4-5. | Off-Site Mixed Waste Streams Approved for Pre- and Post-Treatment Storage | 4-12 |
| 4-6. | Deleted Waste Streams | 4-13 |
| 5-1. | Milestones/Planning Dates for Mixed Wastes with Existing Treatment Technologies..... | 5-2 |
| 5-2. | (Reserved)..... | 5-4 |
| 5-3. | (Reserved)..... | 5-5 |
| 5-4a. | Milestones for Treatment of Waste Backlog Per Treatment Unit..... | 5-9 |
| 5-4b. | Milestone for Treatment of Waste Backlog in Sodium-Bearing Waste Treatment Facility | 5-9 |
| 6-1. | Summary of the Treatment Selection Process by Preferred Treatment Option | 6-2 |
| 6-2. | Treatment Plans | 6-7 |

*INL Site Treatment Plan***ABBREVIATIONS, INITIALISMS, AND ACRONYMS**

| | | |
|----|--------|---|
| 1 | ACL | Analytical Chemistry Laboratory (ANL-W) |
| 2 | AMWTP | Advanced Mixed Waste Treatment Project |
| 3 | ANL-E | Argonne National Laboratory-Chicago |
| 4 | ANL-W | Argonne National Laboratory-West |
| 5 | APS | Atmospheric Protection System |
| 6 | ARA | Auxiliary Reactor Area |
| 7 | ARG-W | DOE Chicago Argonne Group-West |
| 8 | ARMF | Advanced Reactivity Measurement Facility |
| 9 | ARP | Accelerated Retrieval Project |
| 10 | CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act of 1980 |
| 11 | CFR | Code of Federal Regulations |
| 12 | CFRMF | Coupled Fast Reactivity Measurement Facility |
| 13 | CH | contact handled |
| 14 | CPP | Chemical Processing Plant |
| 15 | CSSF | Calcine Solids Storage Facility |
| 16 | CTF | Commercial Treatment Facility |
| 17 | D&D | decontamination and decommissioning |
| 18 | DEQ | Division of Environmental Quality |
| 19 | DOE | Department of Energy |
| 20 | DOE-CH | Department of Energy-Chicago Operations Office |
| 21 | DOE-HQ | Department of Energy-Headquarters |
| 22 | DOE-ID | Department of Energy Idaho Operations Office |
| 23 | DRC | Dispute Resolution Committee |
| 24 | DSSI | Diversified Scientific Services Inc. |
| 25 | EDTA | ethylenediaminetetraacetic acid |
| 26 | EFL | estimated failure level |
| 27 | EM | Environmental Management |
| 28 | EPA | Environmental Protection Agency |
| 29 | ETR | Experimental Test Reactor |
| 30 | FCF | Fuel Cycle Facility |

INL Site Treatment Plan

| | | |
|----|--------|---|
| 31 | FDP | fuel dissolution process |
| 32 | FDPA | Fluorinel Dissolution Process Area |
| 33 | FFC | Federal Facility Compliance (Act) |
| 34 | FMF | Fuel Manufacturing Facility |
| 35 | FY | fiscal year |
| 36 | HEPA | high-efficiency particulate air (filter) |
| 37 | HIP | Hot Isostatic Pressing |
| 38 | HLW | high-level waste |
| 39 | HTRE-3 | Heat Transfer Reactor Experiment No. 3 |
| 40 | HWMA | Hazardous Waste Management Act |
| 41 | IBC | interbuilding cask |
| 42 | IBO | Idaho Branch Office |
| 43 | ICP | inductively coupled plasma |
| 44 | IDAPA | Idaho Administrative Procedures Act |
| 45 | IDHW | Idaho Department of Health and Welfare |
| 46 | IET | Initial Engine Test |
| 47 | INL | Idaho National Laboratory |
| 48 | INTEC | Idaho Nuclear Technology and Engineering Center |
| 49 | IPA | isopropyl alcohol |
| 50 | ISV | in situ vitrification |
| 51 | IWTU | Integrated Waste Treatment Unit |
| 52 | LDR | land disposal restriction |
| 53 | LLM | low-level mixed |
| 54 | LLMW | low-level mixed waste |
| 55 | LLW | low-level waste |
| 56 | LSA | low specific activity (waste) |
| 57 | M&EC | Materials & Energy Corporation |
| 58 | MFC | Materials and Fuels Complex |
| 59 | MIS | Mare Island Naval Shipyard |
| 60 | MLLW | mixed low-level waste |
| 61 | MTR | Materials Test Reactor |

INL Site Treatment Plan

| | | |
|----|------|--|
| 62 | MTRU | mixed transuranic (waste) |
| 63 | MW | mixed waste |
| 64 | MWSF | Mixed Waste Storage Facility |
| 65 | N/A | not applicable |
| 66 | NEPA | National Environmental Policy Act |
| 67 | NNSS | Nevada National Security Site |
| 68 | NRC | Nuclear Regulatory Commission |
| 69 | NRF | Naval Reactors Facility |
| 70 | NWCF | New Waste Calcining Facility |
| 71 | OMB | Office of Management and Budget |
| 72 | PCB | polychlorinated biphenyl |
| 73 | PESI | Perma-Fix Environmental Services, Inc. |
| 74 | PVC | polyvinyl chloride |
| 75 | PWTU | Portable Water Treatment Unit |
| 76 | Q | quarter |
| 77 | R&D | research and development |
| 78 | RCRA | Resource Conservation and Recovery Act |
| 79 | RH | remote handled |
| 80 | ROD | Record of Decision |
| 81 | RWDP | Remote-Handled Waste Disposition Project |
| 82 | SAPC | safe agitene parts cleaner |
| 83 | SBW | sodium-bearing waste |
| 84 | SCDF | Subtitle C Disposal Facility |
| 85 | SCMS | Sodium Component Maintenance Shop |
| 86 | SDS | Sodium Distillation System |
| 87 | STP | Site Treatment Plan |
| 88 | TAN | Test Area North |
| 89 | TBD | to be determined |
| 90 | TCA | trichloroethane |
| 91 | TCE | trichloroethylene |
| 92 | TCLP | toxicity characteristic leaching procedure |

INL Site Treatment Plan

| | | |
|-----|---------|---|
| 93 | TRA | Test Reactor Area |
| 94 | TRANS | Transport |
| 95 | TRU | transuranic (waste) |
| 96 | TRUPACT | transuranic package |
| 97 | TSA | Transuranic Storage Area |
| 98 | TSCA | Toxic Substances Control Act |
| 99 | TSDF | treatment, storage, and disposal facility |
| 100 | USC | United States Code |
| 101 | VOC | volatile organic compound |
| 102 | VOG | vessel off-gas |
| 103 | WAC | waste acceptance criteria |
| 104 | WCS | Waste Control Specialists, LLC |
| 105 | WERF | Waste Experimental Reduction Facility |
| 106 | WIPP | Waste Isolation Pilot Plant |
| 107 | WS | waste stream |

*INL Site Treatment Plan***NOMENCLATURE**

| | | |
|---|--------------------|-----------------------|
| 1 | Hg | mercury |
| 2 | m ³ | cubic meters |
| 3 | m ³ /yr | cubic meters per year |
| 4 | Na | sodium |
| 5 | NaK | sodium potassium |
| 6 | nCi | nanocuries |
| 7 | nCi/g | nanocuries per gram |
| 8 | | |

INL Site Treatment Plan

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 (MW), pursuant to Section 3021(b) of the Resource Conservation and Recovery Act (RCRA), 42 USC 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.

*INL Site Treatment Plan***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.

*INL Site Treatment Plan***1.5 Definitions**

1
2
3 Except as provided below or otherwise explicitly stated herein, the terms used in the STP shall
4 have the same meaning as used in the HWMA, IDAPA 16.01.05.000 et seq., RCRA, and the EPA Rules
5 and Regulations, 40 CFR Parts 124, 260 through 268, and 270.

6
7 **Atomic Energy Act or AEA:** The Atomic Energy Act of 1954, as amended, 42 U.S.C. § 2011 et
8 seq.

9
10 **Authorized Representative:** Any person including a contractor or subcontractor who is
11 specifically designated by a Party to act on behalf of that Party in any capacity, including an advisory
12 capacity.

13
14 **Consent Order or Order:** The document to which this approved STP is appended.

15
16 **Covered Waste:** Mixed waste covered by the STP, as described in Subsection 2.1 of the STP.
17 The term includes new mixed waste streams included pursuant to the notice provision of Subsection 2.4
18 of the STP, entitled "Inclusion of New Mixed Waste Streams." The term does not include mixed waste
19 excluded from coverage by Subsections 2.4.4 or 2.8.7 of the STP.

20
21 **Days:** Calendar days, unless otherwise specified. Any submittal under the terms of the STP that
22 would be due on a Saturday, Sunday, or a state or federal holiday shall be due the following business day.

23
24 **Deliverable:** Any written document that is to be placed into a method of delivery (e.g., in the
25 U.S. Mail) in satisfaction of milestones or other requirements under this STP or the Consent Order.

26
27 **Department or IDHW:** The State of Idaho Department of Health and Welfare, successor
28 agencies, employees, and authorized representatives.

29
30 **Division of Environmental Quality or DEQ:** The Idaho Department of Health and Welfare,
31 Division of Environmental Quality, successor agencies, employees, and authorized representatives.

32
33 **DOE:** The United States Department of Energy, including headquarters (DOE-HQ), the Idaho
34 Operations Office (DOE-ID), the Argonne Group - West (ARG-W) of the Chicago Operations Office

INL Site Treatment Plan

1 (DOE-CH), the Idaho Branch Office - Naval Reactors (IBO), and any of DOE's contractors and
2 subcontractors at any tier, successor agencies, employees, and authorized representatives.

3
4 **EPA:** The United States Environmental Protection Agency, including Region 10, and any of its
5 successor agencies, employees, and authorized representatives.

6
7 **Fiscal Year or FY:** October 1 of one calendar year through September 30 of the following
8 calendar year. For example, Fiscal Year (FY) 1994 encompasses October 1, 1993, through
9 September 30, 1994.

10
11 **High-Level Waste or HLW:** The term high-level waste or HLW shall have the meaning as set
12 for high-level radioactive waste in DOE Order 435.1 or any successor DOE orders or amendments. Under
13 current DOE Order 435.1, HLW is waste material that results from the reprocessing of spent nuclear
14 fuels, including the liquid waste produced directly in the reprocessing, and any solid waste derived from
15 the liquid that contains a combination of transuranic waste and fission products at concentrations
16 requiring permanent isolation.

17
18 **HWMA:** The Idaho Hazardous Waste Management Act of 1983, as amended, Idaho Code
19 §§ 39-4401 to 4432 and its implementing rules in IDAPA 16.01.05.000 to .05.999.

20
21 **INL:** The Idaho National Engineering Laboratory, including facilities and installations in or near
22 Idaho Falls, Idaho and at the Site.

23
24 **INL Site or Site:** The site described in 54 Federal Register 48184 (November 21, 1989).

25
26 **Land Disposal Restrictions or LDR:** The limitations on land disposal and storage of waste set
27 forth in IDAPA §§ 16.01.05.011 (RCRA, 42 U.S.C. § 6924; 40 C.F.R. Part 268).

28
29 **LDR Mixed Waste:** Mixed waste that is restricted from one or more methods of land disposal or
30 storage under IDAPA § 16.01.05.011 (RCRA, 42 U.S.C. § 6924; 40 C.F.R. Part 268).

31
32 **LDR Requirement or Standard:** The level(s) or method(s) of treatment or management
33 specified in IDAPA § 16.01.05.011 (40 C.F.R. Part 268) for a waste subject to the land disposal or
34 storage restriction under Section 3004 of RCRA (42 U.S.C. 6924).

35

INL Site Treatment Plan

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

3
4 **Milestone:** Fixed, firm, and enforceable date as set forth in this STP and Consent Order.

5
6 **Mixed Waste:** Waste that contains both hazardous waste and source, special nuclear, or
7 by-product material subject to the Atomic Energy Act of 1954. 42 U.S.C. § 2011 et seq.; RCRA,
8 42 U.S.C. § 6903(41).

9
10 **Mixed Low-Level Waste or MLLW:** The term mixed low-level waste or MLLW shall mean
11 waste that contains both low-level radioactive waste or LLW (source, special nuclear, or by-product
12 material subject to the Atomic Energy Act of 1954, 42 U.S.C. § 2011 et seq.) and hazardous waste. The
13 low-level radioactive waste component of the MLLW shall have the same meaning as given to "low-level
14 waste" in DOE Order 435.1 (i.e., currently defined in the order as "Waste that contains radioactivity and
15 is not classified as high-level waste, transuranic waste, or spent nuclear fuel or 11e(2) by-product material
16 as defined by this Order. Test specimens of fissionable material irradiated for research and development
17 only, and not for the production of power or plutonium, may be classified as low-level waste, provided
18 the concentration of transuranic is equal to or less than 100 nCi/g.") or any successor DOE orders or
19 amendments.

20
21 **New Mixed Waste Stream:** Mixed waste generated onsite from a new or unique activity or
22 generated offsite not previously identified by an identification number and name in Section 4, "Covered
23 Waste, of the STP."

24
25 **NEPA:** The National Environmental Policy Act, 42 U.S.C. § 4321 et seq., the Council on
26 Environmental Quality regulations implementing NEPA (40 C.F.R. parts 1500 - 1508), and the U.S.
27 Department of Energy's rules and regulations implementing that statute, (10 C.F.R. Part 1021).

28
29 **Off-Site:** Any facility or installation other than INL.

30
31 **On-Site:** The INL, as that term is defined in this definition section.

32
33 **Planning Date:** The anticipated completion date of tasks which have not been designated as
34 milestones and which refer to events occurring beyond the DOE three year budget cycle planning period.
35 Planning dates are not requirements and are not enforceable.

INL Site Treatment Plan

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

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

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

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

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

Transuranic Waste or TRU Waste: The term shall have the meaning set forth in Section 11(ee) of the Atomic Energy Act of 1954, as amended, 42 U.S.C. § 2014(ee) and DOE Order 435.1 (currently defined in the order as "radioactive waste that contains more than 100 nCi/g of isotopes with atomic numbers greater than 92 and half-lives greater than 20 years") or any successor DOE orders and amendments.

2. IMPLEMENTATION OF THE SITE TREATMENT PLAN

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

2.1 Covered Matters

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

2.2 Compliance Schedules

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

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

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

2.2.1.3 Planning dates are estimated events beyond the DOE three year budget cycle planning period. Planning dates are not enforceable requirements. Planning dates shall be converted to milestones

INL Site Treatment Plan

1 in accordance with Section 2.2.2. DOE may, by written notification to DEQ, extend a planning date up to
2 a total of one year. Cumulative extensions of greater than one year to any planning date requires approval
3 by the DEQ and are subject to the Revision procedures (Section 2.5) of this STP.

4 5 **2.2.2 Milestones and Planning Dates**

6
7 **2.2.2.1** For the purposes of this STP, milestones shall identify specific dates in a three year
8 rolling period consisting of the current fiscal year (FY) plus two additional fiscal years (FY+1 and FY+2)
9 by which a certain activity (including an event such as submittal of a deliverable) is scheduled to occur
10 and which will be enforceable as set forth in this STP. Planning dates are dates that are outside the three
11 year rolling period (e.g., FY+3, FY+4) and which are unenforceable estimated schedule dates.

12
13 **2.2.2.2** Milestones will be established for a three year period consisting of the current fiscal
14 year plus two additional fiscal years (FY+1 and FY+2) as follows:

15
16 **2.2.2.2.1** On the effective date of this STP and Consent Order, enforceable milestones are
17 established for a three year period. Additionally, planning dates are established for the outlying fiscal
18 years. Subsequently, after expiration of a fiscal year, FY+1 milestones shall be converted to current fiscal
19 year milestones. FY+2 milestones shall be converted to FY+1 milestones. The FY+3 planning dates shall
20 be converted to FY+2 milestones. All conversions will be automatic and remain in effect, unless DOE
21 notifies the DEQ of any proposed changes. Such changes may be made necessary as DOE identifies
22 milestones and planning dates which cannot be accomplished within available funding levels. Notification
23 of proposed changes to current year milestones (and any adjustments to affected milestones or planning
24 dates) under this paragraph will be submitted in accordance with the applicable provisions of this STP,
25 including, as appropriate, Section 2.14 (Modification), 2.5 (Revisions), or 2.6 (Extensions) within 45 days
26 of DOE-ID, ARG-W, and IBO receiving their approved fiscal year funding allocation from DOE-HQ.
27 Notification of proposed changes to FY+1 and FY+2 milestones (and any adjustments to affected
28 milestones or planning dates) under this paragraph may be submitted in accordance with the applicable
29 provisions of this STP, including 2.14 (Modification), 2.5 (Revisions), or 2.6 (Extensions) within a
30 reasonable period after DOE-ID receives the President's budget request (for FY+1 milestones) and the
31 Office of Management and Budget (OMB) target level funding (for FY+2 milestones). Nothing in this
32 section precludes DOE from proposing or requesting changes to milestones or planning dates at other
33 times. All proposed changes to milestones are subject to Section 2.8, "Funding," and where the Parties
34 cannot agree, to Section 2.9, "Disputes."

35

INL Site Treatment Plan

1 **2.2.2.2.2** In establishing and adjusting milestones and planning dates pursuant to this
2 section, the following, at a minimum, will be considered: (a) funding availability as it is appropriated by
3 Congress, and the amount of funds provided to the INL by DOE in its Approved Funding Programs for
4 the current fiscal year for waste management activities and the President's budget for the next fiscal year
5 (FY+1) and associated out-year funding targets for environmental management for the INL, (b) sitewide
6 waste management priorities, (c) cost estimates, (d) new or emerging technologies, and (5) other new STP
7 information.

8
9 **2.2.2.2.3** Schedule dates shall be identified by reference to fiscal year quarters and the
10 specific date of the milestone or planning date shall be the last day of the quarter identified. The first
11 quarter or "1Q" shall have December 31 as its corresponding specific date. The second quarter or "2Q"
12 shall have March 31 as its corresponding specific date. The third quarter or "3Q" shall have June 30 as its
13 corresponding specific date. The fourth quarter or "4Q" shall have September 30 as its corresponding
14 specific date.

15
16 **2.2.3 Categories of Milestones and Planning Dates**

17
18 The categories of activities for which milestones and planning dates will be provided are the
19 different types of treatment approaches in the STP and are listed in Tables 2-1 through 2-3 and in other
20 provisions below. The categories of activities are based on Section 3021(b)(1)(B)(i), (ii) and (iii) of
21 RCRA, as appropriate.

22
23 **2.2.3.1 Plan Where Treatment Technologies Exist [RCRA Section 3021(b)(1)(B)(i)].** For
24 identified and developed treatment technologies for waste which will be treated on-Site, the milestones
25 and planning dates identified in Section 5.1, "Schedules for Treatment Facilities for Which Technology
26 Exists," shall apply. When submitting new schedules under this subsection to DEQ for approval, DOE
27 shall propose appropriate milestones and planning dates from the categories of milestones in Table 2-1
28 below.

29

INL Site Treatment Plan

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.

INL Site Treatment Plan

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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.

2

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2.2.3.3 Requirements Pertaining to Radionuclide Separation [RCRA

5 **Section 3021(b)(1)(B)(iii)].** The FFC Act sets additional requirements in cases where DOE intends to
6 conduct radionuclide separation of mixed waste. No current plans exist to separately conduct radionuclide
7 separation of mixed wastes generated or stored at INL. Should DOE determine to conduct radionuclide
8 separation of such mixed wastes, DOE will provide for such wastes which will be treated on-Site those
9 milestones and planning date categories for submitting the required information as identified in Table 2-3,
10 "Schedule for Radionuclide Separation of Mixed Wastes," as follows:

11

INL Site Treatment Plan

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 Off-Site." 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.

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

INL Site Treatment Plan

1 **2.2.3.7 Plan for On-Site Mixed Wastes not Sufficiently Characterized to Allow Identification**
2 **of Appropriate Treatment.** For new on-Site mixed waste streams requiring characterization to identify
3 appropriate treatment milestones and planning dates, DOE shall submit a plan for characterization to the
4 DEQ for approval. The characterization plans are in Section 5.5, "Mixed Waste Streams Requiring
5 Further Characterization."
6

7 **2.3 Quarterly Meetings, Annual STP Updates, and Reports**

8

9 **2.3.1** This section provides a mechanism to: (a) communicate and exchange information about
10 schedule, technology development, funding and other concerns that affect the implementation
11 of the STP; (b) propose and establish the next ensuing milestones; and (c) update and propose
12 changes or Revisions to the STP.
13

14 **2.3.2 Quarterly Meetings** The Project Managers shall meet each quarter to discuss progress on
15 milestones and planning dates, any changes to waste streams and volumes, and other pertinent
16 information. In order to facilitate these meetings, DOE shall provide in writing to the DEQ
17 Project Manager notification of new waste streams, an updated STP errata sheet, notification of
18 completed milestones for the quarter, and a proposed agenda for the meeting. Proposed changes
19 or Revisions to the STP may be included in writing for discussion at the meeting.
20

21 **2.3.3 Annual Update to the STP** By each November 15 after the fiscal year in which the STP is
22 approved, the DOE shall submit an Annual Update to the STP to the DEQ. The Annual Update
23 to the STP shall incorporate any covered waste volume changes, planning date extensions less
24 than one year, approved milestone extensions less than one year, or Revisions to the STP over
25 the previous fiscal year. Subsequent changes or Revisions to the STP during the current fiscal
26 year shall be indexed on an STP errata sheet to be submitted by DOE to the DEQ at least
27 quarterly.
28

29 **2.3.4** At the same time and along with the Annual Update to the STP, DOE shall submit to the DEQ
30 an Annual STP Report to the STP for review and comment. The Annual STP Report:
31

- 32 (a) Shall include and collate information from the Quarterly Project Manager meetings and
33 provide the DEQ with information to track progress on milestones and planning dates
34

INL Site Treatment Plan

- 1 (b) May include any proposed Extensions, Revisions (including proposed waste treatment
2 plans for new waste streams), or other changes to the STP
3
- 4 (c) Shall include information on DOE's funding for the STP and identify any funding issues
5 which may impact the STP schedules
6
- 7 (d) May include notification of planning date extensions and changes in covered waste
8 volumes
9
- 10 (e) May be a vehicle for input from the public, affected states, and EPA to be obtained if
11 Revisions to the STP are proposed.
12

13 2.4 Inclusion of New Mixed Waste Streams

14

15 **2.4.1** This section establishes a method for including new mixed waste streams which are discovered,
16 identified, generated on-Site, or to be received from off-Site, and mixed waste streams which
17 are generated on-Site through environmental restoration to the extent such wastes are to become
18 identified as a covered waste pursuant to Section 2.1 and as set forth in this section (including
19 wastes covered by the Federal Facility Agreement and Consent Order executed by the State of
20 Idaho, DOE, and EPA on December 9, 1991, which would otherwise not be covered by this
21 STP pursuant to RCRA Section 3021(b)(1)(ii)).
22

23 **2.4.2** DOE shall provide written notification to the DEQ as part of the Quarterly Meetings of new
24 mixed waste streams which have been discovered, identified, or generated and stored on-Site,
25 and mixed wastes anticipated to be generated and stored at INL, which are expected to be
26 covered wastes. Unless and until the proposed waste treatment plan of Section 2.4.4 is
27 disapproved by DEQ after exhaustion of disputes procedures or appeal under Section 2.9, the
28 mixed waste will be covered waste and subject to the requirements of this STP (a) upon receipt
29 of such notification, (b) when generated or stored at INL after notification, or (c) such other
30 time as specified in the notification, whichever is later. DOE shall provide a description of the
31 waste codes, waste form, volume, technology and capacity needs, and similar pertinent
32 information in the Quarterly Meetings. Any Revisions to the STP Section 2.2, "Compliance
33 Schedules," shall be proposed in the Quarterly Meetings or the next regularly scheduled Annual
34 STP Report. The information provided pursuant to this subsection is subject to DEQ approval to
35 the extent provided for in Subsection 2.4.4.

INL Site Treatment Plan

1 **2.4.3** If DOE cannot provide such information or schedules as required by 2.4.2 because of
2 inadequate characterization or it is otherwise impracticable, DOE shall submit for approval a
3 proposed plan and schedule for complying with Section 2.4.2, along with appropriate
4 justification and supporting information.
5

6 **2.4.4** DOE shall submit a proposed waste treatment plan for new waste streams to the DEQ for
7 approval, approval with modification or disapproval under Section 2.13, "Submittal and Review
8 of Deliverables." The waste treatment plan ties the new wastes to facilities under this STP and
9 may consist of proposed changes to Section 4, "Covered Waste," of this STP. DOE may also
10 propose changes or Revisions to the STP schedules to accommodate new waste streams. In the
11 absence of DEQ approval, new waste shall no longer be covered waste for the purposes of this
12 STP after conclusion of Dispute Resolution or appeal under Section 2.9.
13

14 **2.5 Revisions**

15
16 **2.5.1** A Revision to the STP requires, for those affected portions of the STP, publication of a notice of
17 availability to the public and consultation with affected states and EPA pursuant to this STP and
18 Section 3021(b)(2) and (3) of RCRA. A Revision is (a) the addition of a treatment facility at
19 INL or technology development not previously included in the STP, (b) extension to a
20 milestone or planning date for a period greater than one year, or (c) waste treatment plans for a
21 new waste stream. Changes in waste volume of covered waste; extensions or changes to
22 milestones or planning dates for a period less than one year shall not, by themselves, constitute
23 a Revision.
24

25 **2.5.2** Revisions to the STP shall be made as follows:
26

27 **2.5.2.1** DOE shall propose Revisions to the STP and provide supporting information for the
28 Revision in writing pursuant to Quarterly Meetings or in the Annual STP Report pursuant to Section 2.13,
29 "Submittal and Review of Deliverables." Under those procedures, DEQ may conditionally approve the
30 Revision or return it to DOE with comments so that changes can be made for resubmittal, or disapprove it
31 within 30 days. Approvals with modification or disapprovals may be subject to the procedures of
32 Section 2.9, "Disputes." In reviewing the Proposed Revision, DEQ shall consider the need for regional
33 treatment facilities. Conditional approval of a Revision is a determination by the DEQ that the Revision is
34 acceptable subject to the results of public comment and consultation with affected states and EPA.
35

INL Site Treatment Plan

1 **2.5.2.2** Within 30 days subsequent to conditional approval, the DEQ shall publish a notice of
2 availability and make the proposed Revision available to the public for review and comment and to
3 affected states and EPA for consideration and consultation. Revisions shall be approved or approved with
4 modification or disapproved by DEQ within 6 months after DEQ's receipt of the Proposed Revision. Any
5 approval with modifications or disapproval of the Proposed Revision shall include supporting explanation
6 and information. DOE shall have 30 days to discuss the approval with modifications or disapproval with
7 DEQ. If agreement is not reached on the proposed modifications in this 30 day period, the procedures of
8 Section 2.9, "Disputes," will apply.

9
10 **2.5.3** To the extent practicable, comments from the public, affected states, and EPA on the
11 conditionally approved Revisions will be obtained in conjunction with the Annual STP Report.
12 However, if a conditionally approved Revision is proposed to become effective before it could
13 be addressed in the regularly scheduled Annual STP Report, the DEQ shall publish a Notice of
14 Availability and consult with affected states and EPA, as appropriate, within 30 days of such
15 conditional approval. In the event that the final approved Revision differs from the conditionally
16 approved Revision after public comment and consultation, DOE shall not be subject to
17 enforcement actions for interim activities conducted in accordance with the conditionally
18 approved Revision.

2.6 Extensions

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21
22 **2.6.1** A milestone may be extended or a planning date may be extended for a period of greater than one
23 year upon receipt of a timely request for extension where good cause exists. Any request for an
24 extension shall be made to the DEQ in writing prior to the milestone or planning date. The
25 written request shall be provided to DEQ's project manager and shall be part of the Quarterly
26 Meetings or Annual STP Report as practicable. The written request shall specify:

- 27
28 (a) The milestone or planning date sought to be extended;
29
30 (b) The length of the extension sought;
31
32 (c) The good causes(s) for the extension; and
33
34 (d) Any related milestone or planning date that would be affected if the extension were
35 granted.

INL Site Treatment Plan

1 **2.6.2** Good cause for an extension includes, but is not limited to:

- 2
- 3 (a) Inadequate funding after DOE complies with Section 2.8, "Funding."
- 4
- 5 (b) A delay caused by DEQ's failure to meet any requirement imposed under the STP or
- 6 Consent Order;
- 7
- 8 (c) A delay caused by the good faith invocation of dispute resolution or the initiation of
- 9 administrative or judicial action;
- 10
- 11 (d) A delay caused, or which is likely to be caused, by the grant of an extension in regard to
- 12 another milestone;
- 13
- 14 (e) A delay caused by additional work agreed to by DOE and the DEQ;
- 15
- 16 (f) Circumstances unforeseen at the time this STP was prepared that significantly affects the
- 17 work required under the STP;
- 18
- 19 (g) Delay in review of a permit application;
- 20
- 21 (h) Inconsistency with the requirement of any other existing agreement, order, or permit
- 22 between DOE and DEQ; and
- 23
- 24 (i) Any other event or series of events mutually agreed to by DOE and the DEQ as
- 25 constituting good cause.
- 26

27 **2.6.3** Absent agreement of the DOE and the DEQ with respect to the existence of good cause, either

28 or both of them may seek and obtain a determination through the dispute resolution process,

29 Section 2.9, "Disputes," whether or not good cause exists.

30

31 **2.6.4** For extension requests by DOE, the procedures of Section 2.13, "Submittal and Review of

32 Deliverables," shall apply. Pursuant to that provision, if the DEQ approves the requested

33 extension, the affected milestone shall be extended accordingly up to one year. Requested

34 extensions for more than one year may be conditionally approved as proposed Revisions.

35

*INL Site Treatment Plan***2.7 Satisfaction of Requirements and Enforceability**

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

- (a) Completion of treatment pursuant to the STP;
- (b) Shipment of such waste off-Site for treatment, storage, or disposal;
- (c) Changes to statute or regulation or determinations of the regulatory authority which cause such waste to be no longer subject to the requirements of RCRA or the LDR requirements of RCRA;
- (d) Storage for the sole purpose of accumulating such quantities of covered wastes as are necessary to facilitate proper recovery, treatment, or disposal in compliance with HWMA and RCRA;
- (e) Information demonstrating the waste meets the treatment standards of RCRA, Section 3004(m);
- (f) Treatment in accordance with the conditions of an approved LDR treatability variance; or
- (g) Mutual agreement between DOE and the DEQ.

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

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

*INL Site Treatment Plan***2.8 Funding**

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2
3 **2.8.1** DEQ shall have an opportunity to have input formulating the INL budget and setting the INL
4 budget priorities as set forth in this section and Section 2.2.2, "Milestones and Planning Dates."
5 Nothing in the STP affects DOE authority over its budget and funding level submissions.
6 Further, any requirement for the expenditure or obligation of funds by DOE established by the
7 terms of the STP and Consent Order requiring compliance with the STP would be subject to the
8 availability of appropriated funds, and no provision of the STP or Consent Order shall be
9 interpreted to require the obligation or expenditure of funds in violation of the Anti-Deficiency
10 Act, 31 U.S.C. § 1341, as amended. In cases where the expenditure or obligation of funds would
11 constitute a violation of the Anti-Deficiency Act, the dates established requiring the expenditure
12 or obligation of such funds shall be appropriately adjusted.
13

14 **2.8.2** It is the expectation of the Parties that all obligations of DOE arising under this STP and
15 Consent Order will be fully funded. The Parties recognize that successful implementation of this
16 STP and Consent Order is dependent upon prudent use of resources and that resource
17 requirements and constraints will be considered during the work planning, budget formulation,
18 and budget execution process. To ensure the development of responsible budget requests
19 consistent with the requirements of the STP and applicable federal/state statutes, the Parties will
20 work cooperatively and in good faith.
21

22 **2.8.3** DOE shall take all necessary steps to obtain sufficient funding to comply with the provisions of
23 this STP as set forth in this section through consultation with DEQ and submission of timely
24 budget requests.
25

26 **2.8.4** Pursuant to Section 2.10, the Project Managers will meet periodically and discuss projects being
27 funded in the current FY and any events or new information that may cause significant changes
28 to schedules or other issues relevant to activities being performed under this STP and Consent
29 Order. DOE shall provide projected and actual cost information regarding such changes for
30 these meetings, to the extent practicable.
31

32 **2.8.5** DOE shall consult with DEQ in formulating its annual INL Environmental Management (EM)
33 FY+2 budget request as set forth in this section.
34

INL Site Treatment Plan

1 **2.8.5.1** No later than 30 days prior to the submission of their budget requests to DOE-HQ,
2 DOE-ID, ARG-W, and IBO (as appropriate) shall provide DEQ with information or a briefing on the
3 proposed INL EM FY+2 budget allocation, including appropriate supporting documents. In the process of
4 formulating its annual FY+2 budget request, DOE may be subject to target funding guidance directed by
5 the Office of Management and Budget (OMB). The information or briefing will address the impacts of
6 such OMB target funding guidance.

7
8 DEQ agrees not to release confidential budget information to any other person or entity prior to
9 submission by the President of his budget request to Congress unless authorized by DOE or required to do
10 so by court order. DOE may seek to intervene in any proceeding brought to compel or enjoin release of
11 this information. If allowed to intervene, DOE shall assert its interest in, and the legal basis for,
12 maintaining the confidentiality of this information.

13
14 **2.8.5.2** Before DOE-ID, ARG-W (through DOE-CH), or IBO submit their annual EM budget
15 request and supporting budget formulation documents, if any, to DOE-HQ, the Parties shall attempt to
16 reach agreement regarding work scope, priorities, schedules/milestones, and funding levels required to
17 accomplish the purpose of the STP and Consent Order. DEQ shall, to the extent practicable, provide
18 comments on the proposed budget request and proposed activities and make recommendations
19 appropriate to accomplish the intent of the STP, including those that cannot be accommodated within the
20 respective environmental management funding target level for the DOE-ID, ARG-W, and IBO.

21
22 **2.8.5.3** DOE-ID, ARG-W, and IBO may revise their EM budget requests and supporting
23 documents, if any, to resolve the comments of DEQ to the extent agreed by the Parties or DOE otherwise
24 deems it appropriate.

25
26 **2.8.5.4** DOE-ID, ARG-W (through DOE-CH), and IBO will submit to DOE-HQ their EM
27 budget requests with detailed budget formulation documents, if any, and shall forward with it the target
28 budget level funding and any unresolved issues regarding funding for additional or accelerated activities
29 submitted by DEQ, and any other unresolved issues raised by DEQ. If these issues are not subsequently
30 resolved prior to DOE's submission of its budget to OMB, DOE-HQ shall forward in conjunction with its
31 budget request any such unresolved issues and additional or accelerated activities, and related funding
32 information to OMB.

33
34 **2.8.6** Funds authorized and appropriated annually by Congress for EM activities (currently under the
35 “Defense Environmental Restoration and Waste Management”, and “Energy Supply, Research
36 and Development Activities” appropriation(s) in the Energy and Water Development

INL Site Treatment Plan

1 Appropriations Act) and allocated by the DOE Assistant Secretary for Environmental
2 Management to INL waste management activities or other specifically designated funds for INL
3 waste management activities will be the sole source of funds for activities required by this STP.
4

5 **2.8.6.1** If funding has been requested as described in Subsections 2.8.4 - 2.8.5, and if
6 appropriated funds allocated to INL for waste management activities by the DOE Assistant Secretary for
7 Environmental Management are not available to accomplish the milestones and planned activities under
8 this STP and Consent Order, the Parties shall attempt to negotiate appropriate extensions under this STP.
9

10 **2.8.6.2** If the Parties are unable to reach agreement, then the Parties shall use Section 2.9,
11 “Disputes,” to determine the extent that activities shall be adjusted or the length of the extensions for
12 milestones and planning dates in order to accommodate the INL FY funding allocation for waste
13 management activities. The Parties agree that, unless DOE-ID, ARG-W (through DOE-CH), or IBO has
14 not followed the procedures set out in Subsections 2.8.4 - 2.8.5, the dispute resolution procedure shall not
15 result in a decision requiring activities that DOE-ID, ARG-W, or IBO cannot accomplish given its FY
16 funding allocation for waste management activities. Failure to agree on adjustments to FY+1 or FY+2
17 milestones in the current fiscal year shall not prejudice DOE’s right to request adjustments to these
18 milestones in subsequent fiscal years or to appeal any decision of the DEQ regarding such future requests.
19

20 **2.8.7** If DEQ agrees or a court determines, after dispute resolution and exhaustion of administrative
21 appeals, that DOE funding is insufficient to meet any milestone and the Parties cannot agree on
22 an appropriate modification, the milestone shall be null and void and not subject to the remedy
23 of specific performance. However, any mixed waste associated with such milestone shall,
24 subsequent to such agreement or final determination, be deemed to not be covered waste under
25 this STP, and DOE shall be subject to administrative or judicial enforcement actions for storage
26 and any other violation of RCRA or HWMA with regard to such mixed waste.
27

28 **2.8.8** If the DOE-ID, ARG-W, or IBO takes steps, as set forth in this section, through consultation
29 with DEQ, this will constitute a good faith effort to comply with the requirements of this STP
30 and Consent Order. Subsequent receipt of less funding than submitted shall not constitute a
31 knowing violation under RCRA or applicable State law for purpose of criminal or civil fines
32 and penalties.
33

INL Site Treatment Plan

1 **2.8.9** Nothing herein shall affect DOE's ultimate authority and responsibility to formulate and submit
2 to the President appropriate budget requests and to allocate appropriated funds to meet the
3 DOE's obligation and to serve the DOE's missions.

2.9 Disputes

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7 **2.9.1** Except as specifically set forth elsewhere in the STP, any action which leads to or generates a
8 dispute regarding the STP or its revision is subject to resolution under this section. The dispute
9 resolution procedures of this section shall be followed and exhausted before pursuing any other
10 legal remedy in any other forum.

11
12 **2.9.2** DOE and the DEQ shall make reasonable efforts to informally resolve disputes as expeditiously
13 as possible at the project manager level. If resolution cannot be achieved informally, either
14 Party may elevate the dispute for resolution by requesting in writing to the other Party that the
15 dispute be elevated pursuant to this section. If resolution appears imminent, upon agreement of
16 both Parties in writing, the informal resolution period may be extended.

17
18 **2.9.3** When formal dispute resolution is initiated, the disputing Party shall submit to the other Party a
19 written Notice of Dispute specifying:

- 20
21 (a) the nature of the dispute;
22
23 (b) the work affected by the dispute;
24
25 (c) the disputing Party's position with respect to the dispute; and
26
27 (d) the information the disputing Party is relying upon to support its position.
28

29 The written Statement of Dispute shall be forwarded to both members of the Dispute Resolution
30 Committee (DRC).

31
32 **2.9.3.1 The DRC will serve as a forum for** resolution of disputes for which agreement has not
33 been reached through the informal dispute resolution process. The DEQ representative on the DRC is the
34 DEQ RCRA Program Manager. The DOE representative of the DRC is the appropriate DOE-ID Program
35 Manager with responsibility for waste management.

INL Site Treatment Plan

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

2.9.3.3 If either Party at the DRC level identifies issues at any time during the dispute resolution process that are deemed pertinent to national policies or to the policies of the State of Idaho, either Party may refer the dispute to the Administrator of DEQ for resolution pursuant to Section 2.9.3.4. Upon agreement of the Parties at any point in the dispute process that resolution of a dispute is immediately necessary to avoid, prevent, or respond to the emergency conditions, the dispute may be escalated to the Administrator of DEQ for resolution pursuant to Section 2.9.3.4.

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

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

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

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

INL Site Treatment Plan

1 **2.9.5** For issues involving areas under the responsibility or authority of the Argonne Group - West or
2 the Idaho Branch Office - Naval Reactors, representatives for those offices of comparable
3 authority and rank to the DOE-ID representatives shall be added or substituted in the dispute
4 resolution process.

5
6 **2.9.6** In the event of organizational changes, representatives of comparable authority and rank shall
7 be substituted in the above procedures.
8

9 **2.10 Project Managers**

10
11 **2.10.1** Within ten (10) days of the effective date of the STP, DOE and the DEQ shall designate a
12 Project Manager. DOE and the DEQ shall each notify the other in writing of the Project
13 Manager they have selected. DOE shall also designate the DOE Project Manager's designee for
14 ARG-W and IBO. The DOE's Project Managers designees shall have authority and
15 responsibility for addressing matters within the cognizance of their respective offices, in
16 coordination with the DOE Project Manager. Each Project Manager shall be responsible for
17 overseeing the implementation of the STP. Either the DOE or DEQ may change its designated
18 Project Manager by notifying the other in writing, ten (10) days before the change, to the extent
19 possible. To the extent possible, communications between the DOE and DEQ concerning the
20 terms and conditions of the STP shall be directed through the Project Managers. Each Project
21 Manager shall be responsible for assuring that all communications from the other Project
22 Manager are disseminated appropriately to that responsible Project Manager's organization.
23

24 **2.10.2** The Project Managers shall have authority or obtain the appropriate level of authority to act for
25 their respective agency to agree to changes to schedules and requirements, subject to the
26 provisions of the STP on Disputes and Revisions. The Project Managers shall meet quarterly
27 (see Section 2.3.2) to discuss progress and problems relating to all work under the STP. As a
28 requirement of the agenda for each meeting, the DEQ shall notify DOE of all potential issues or
29 problems regarding compliance with the STP. Additionally, the status of the curing of any
30 previously identified problems or issues of compliance shall be provided and discussed.
31 Additional meetings may be requested by either Project Manager to discuss issues, problems, or
32 activities associated with this STP.
33

INL Site Treatment Plan

1 **2.10.3** Draft meeting minutes shall be prepared by DOE and provided to the DEQ within ten (10) days
2 of the meeting. DEQ approvals of deliverables under this STP and Consent Order may be
3 documented in the meeting minutes. Any changes to the minutes shall be provided to DOE in
4 writing within fourteen (14) days of receipt of the draft minutes for incorporation into the final
5 minutes. Failure to provide timely changes to the minutes shall constitute agreement. The final
6 Project Manager's Quarterly Meeting Minutes shall be prepared by DOE and submitted to DEQ.

7
8 **2.10.4** It is the intent of the DEQ and DOE that this notification and curing process shall be used to
9 avoid disputes to the extent possible.
10

11 **2.11 Notification**

12
13 **2.11.1** Unless otherwise specified, any report or submittal provided by DOE pursuant to the STP shall
14 be sent by first class mail, express mail, facsimile or hand delivered, with a certification of
15 mailing or confirmation of delivery, to the address of the DEQ Project Manager.
16

17 **2.11.2** Unless otherwise agreed in writing, one copy of all documents to be submitted pursuant to this
18 STP shall be sent to the Project Manager at the address stated below. Either DEQ or DOE may
19 request additional copies of any document submitted pursuant to this STP.
20

21 Project Manager
22 Idaho Department of Health and Welfare
23 Division of Environmental Quality
24 1410 N. Hilton
25 Boise, ID 83706
26

27 Project Manager
28 Department of Energy
29 Idaho Operations Office
30 850 Energy Drive
31 Idaho Falls, ID 83401-1563
32
33

*INL Site Treatment Plan***2.12 DOE's NEPA Review and FFC Act Implementation**

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

2.13 Submittal and Review of Deliverables

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

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

2.13.3 The DEQ will promptly review each deliverable submitted by DOE required to be approved pursuant to this Consent Order, within the time-frames established in this section unless specifically scheduled otherwise in the Consent Order. In the course of their review, the DEQ

INL Site Treatment Plan

1 will consult with DOE regarding the adequacy of each deliverable. Oral comments made during
2 these discussions shall not require a written response by the Parties.
3

4 **2.13.4** Deliverables which do not require DEQ approval under this Consent Order, shall be provided to
5 the DEQ for review and comment. In the event that DOE disagrees with the DEQ's comments,
6 DOE shall respond to the DEQ's comments in writing explaining the DOE's position. If DOE
7 has not received comments from the DEQ within 30 days of submittal of the deliverable, it will
8 be deemed that the DEQ has no comments. Disagreements concerning comments to
9 deliverables that are not required to be approved under this Consent Order will not constitute a
10 dispute under Section 2.9 unless otherwise agreed by the Parties.
11

12 **2.13.5** For any deliverable that requires DEQ approval under the provisions of this Consent Order, the
13 following procedures shall apply:
14

15 **2.13.5.1** The DEQ shall, within 30 days of receipt, take action as follows: (1) approve or approve
16 with modification, or disapprove the deliverable as submitted, or (2) return the deliverable to DOE with
17 comments so that changes can be made for resubmittal. Proposed Revisions approved or approved with
18 modification shall be deemed to be "conditionally" approved or "conditionally" approved with
19 modification pending final approval or approval with modification after public review and comment and
20 consultation with affected states and EPA pursuant to Section 2.5, "Revisions." For proposed Revisions
21 that are conditionally approved with modification or disapproved, DOE may invoke dispute resolution as
22 provided in Section 2.9. The DEQ may extend the review period of this section by an additional 30 days
23 by notifying the DOE. This period may be further extended for an additional period of time, as may be
24 agreed to by the parties. Comments on the deliverable shall be provided with adequate specificity so that
25 DOE can make the appropriate changes to the document. To the extent applicable, comments should refer
26 to specific paragraphs of any sources of authority or references on which the comments are based, and
27 upon request of DOE, the DEQ shall provide a copy of the cited authority or reference.
28

29 **2.13.5.2** If the DEQ fails to take one of the actions specified above within the time-frames
30 required by this Consent Order, DOE may initiate dispute resolution under Section 2.9. If the DEQ
31 extends the review period for a deliverable, any milestones or planning dates dependent upon the results
32 of deliverable review will automatically be extended an equivalent amount of time as the time taken
33 beyond the specified time-frame for review.
34

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 of this STP, the schedules for design and operation of these facilities are included in Section 5, 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 the facilities, based on Life Cycle Asset Management, made pursuant to DOE Order 430.1B. An explanation of the status of facilities that may be used in Table 3-1 follows:

- **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.
- **Existing, Standby**—Existing system is not currently treating waste. The system is being maintained for future application and will resume operations when funding is available.

INL Site Treatment Plan

1 Table 3-1. INL Treatment Facilities.

| Facility | System | Handling * | HLW | TRU | LLW | Facility Status |
|--|--|---------------|-----|-----|-----|---|
| Advanced Mixed Waste Treatment Project | CH TRU Treatment Unit | CH | N | Y | N | Existing, operating |
| INTEC HEPA Filter Leaching System (CPP-659) | Extraction - HEPA Filter Leach | B | N | Y | Y | Existing, operating as needed, treating mixed waste as needed |
| Integrated Waste Treatment Unit | SBW Treatment Facility | B | N | Y | Y | Existing, DOE approved, surrogate testing |
| Calcine Disposition Facility | Calcine Disposition Facility | B | Y | Y | Y | Planned, DOE approved |
| Remote-Handled Waste Disposition Project | Sort, Segregate, Distillation, Deactivation, Neutralization, Water Reaction | B | N | Y | Y | Existing, operating |
| Sodium Component Maintenance Shop | Deactivation, Open/Melt/Drain, Neutralization, Stabilization, Water Reaction | CH | N | Y | Y | Existing, operating |
| Debris Treatment and Containment Storage Building (CPP-659) | Decontamination | CH | N | Y | Y | Existing, operating |
| ARP V Sludge Repackaging Facility | Sort, Segregate, Absorption, Examination | CH | N | Y | N | Existing, operating |
| * Handling Key: RH = remote handled CH = contact handled B = both | | | | | | |

3.2 Description of Facilities Identified to Treat MLLW

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

3.2.1 Commercial Treatment Facilities

3.2.1.1 Waste Treatment Vendors and Treatment Capabilities.

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

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

INL Site Treatment Plan

1 **Waste Control Specialists, LLC (WCS)**—WCS is located in Andrews, Texas. WCS is currently
2 permitted and authorized by the Texas Commission on Environmental Quality to process, treat, and
3 dispose of many radioactive wastes. WCS holds an Industrial Solid Waste and Hazardous Waste Storage,
4 Processing, and Disposal (RCRA) permit authorizing the treatment, storage, and land disposal of all
5 classifications of RCRA wastes. WCS is authorized by the EPA to store and dispose of Toxic Substances
6 Control Act (TSCA) waste. WCS services include volume reduction, stabilization, macroencapsulation,
7 and direct disposal of LLW and MLLW. WCS is not permitted for thermal treatment or treatment for
8 elevated mercury. However, it routinely utilizes outside technology vendors in these situations.

9
10 WCS's Federal Waste Disposal Facility is dedicated to the disposal of DOE Class A, B, and C
11 LLW and MLLW. This includes wastes that contain up to 100 nanocuries per gram of transuranic
12 isotopes and other greater than Class A waste. LDR compliant, as well as polychlorinated biphenyl (PCB)
13 wastes that are eligible for land disposal, are also included.

14
15 **Energy Solutions**—Energy Solutions operates a treatment, storage and disposal facility in
16 Clive, Utah. The Energy Solutions facility has been in operation since 1988. This facility operates under an
17 NRC Agreement State Radioactive Materials License and a RCRA Part B permit. Energy Solutions accepts
18 LLW and MLLW waste for disposal. Treatment facilities are also in operation for the RCRA treatment of
19 solid and liquid MLLW prior to disposal. Current mixed waste treatment technologies include stabilization,
20 reduction/oxidation, deactivation, chemical fixation, neutralization, vacuum-assisted thermal desorption,
21 macroencapsulation, and microencapsulation. Examples of waste routinely managed for treatment include
22 soil, concrete, sludge, resins, personal protective equipment, lead solids, ash, and building debris.

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

28 29 **3.2.2 Government-Owned Off-Site Disposal Facilities**

30
31 **Nevada National Security Site (NNSS)**—The Mixed Waste Disposal Unit is located at the Nevada
32 National Security Site Area 5 Radioactive Waste Management Site. The Mixed Waste Disposal Unit is
33 RCRA-permitted and features a multi-layer liner and collection system that drains any potential moisture
34 away from the buried waste containers. This technologically advanced cell became operational in
35 December 2010 and replaces the previous MLLW disposal cell, which closed on November 30, 2010. In
36 addition to disposal, MLLW may be stored at the Area 5 Radioactive Waste Management Site in
37 accordance with a separate RCRA permit. In addition, NNSS can dispose of LLW.

*INL Site Treatment Plan***3.2.3 Debris Treatment in Building CPP-659**

The debris treatment processes are RCRA-permitted treatment units comprised of sinks (with hoods), portable soak tanks, ultrasonic cleaner, decontamination cubicles, steam spray booth, and decontamination cell. Several treatment technologies are currently used to treat debris in accordance with the RCRA Debris Rule (40 CFR 268.45 [alternative treatment standards]). These treatment technologies include water washing, chemical washing, high-pressure water and steam sprays, and ultrasonic cleaning.

3.2.4 High-Efficiency Particulate Air Filter Leach System (CPP-659)

Contaminated high-efficiency particulate air (HEPA) filters will be treated in the RCRA-permitted HEPA Filter Leach System, which uses chemical extraction to remove radionuclides and other hazardous constituents from used HEPA filters. This system can treat both MLLW and TRU-contaminated waste. After leaching, the filters should be ready for packaging for LLW disposal. The leachate generated by HEPA filter leaching will be managed in the Idaho Nuclear Technology and Engineering Center's (INTEC's) liquid radioactive waste management system (process equipment waste or liquid effluent treatment and disposal). The HEPA Filter Leach System is operated as required by waste generation.

3.2.5 Remote-Handled Waste Disposition Project (CPP-659, CPP-666, CPP-1617)

The Remote-Handled (RH) Waste Disposition Project (RWDP) transfers RH waste from INL storage areas and prepares the waste for shipment and disposal. This project manages RH-TRU and RH-MLLW. Additionally, some of the RH waste is contaminated with contaminants that require treatment in CPP-659 or CPP-666 (sort, segregate, absorb, size, and react) before disposal. These contaminants include sodium (Na) and sodium potassium (NaK), which present significant handling and treatment challenges. CPP-666 and CPP-659 have several permitted treatment processes for Na and NaK. The CPP-666 Fluorinel Dissolution Process Area (FDPA) Sodium Distillation System (SDS) treats Na- and NaK-contaminated debris. Additionally, the CPP-666 FDPA cell and CPP-659 decon cell are permitted for water and air treatment of Na and NaK. CPP-659, CPP-666, and CPP-1617 are permitted waste storage areas, with the majority of the waste stored in CPP-1617.

*INL Site Treatment Plan***3.2.6 Sodium Components Maintenance Shop (MFC-793)**

The Sodium Components Maintenance Shop (SCMS) is an existing, operating mixed waste treatment facility located at the Materials and Fuels Complex (MFC) on the INL. The SCMS has been used for many years to cleanse Na- and NaK-contaminated operational components associated with the Experimental Breeder Reactor II reactor and is permitted to treat mixed waste.

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

3.2.7 Advanced Mixed Waste Treatment Project

AMWTP currently performs on-site macroencapsulation treatment on drums and boxes containing mixed low-level debris waste. The current approved list of macroencapsulation treatment methods includes: stainless steel cargo macroencapsulation, high-density polyethylene liner macroencapsulation for product drums, and high modulus polymeric packaging system macroencapsulation for drums and boxed waste.

3.3 Description of Facilities Required To Treat the Mixed Transuranic-Contaminated Waste at the INL

Mixed transuranic (MTRU) waste 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) contains between 10 and 100 nCi of alpha-emitting transuranic isotopes per gram of waste 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 waste acceptance criteria (WAC) for disposal at the WIPP for the legacy waste noted in Table 4-2 and for newly generated MTRU waste noted in Table 4-2a. Contact-handled (CH) MTRU waste and α -MLLW are treated and managed at AMWTP and the Accelerated Retrieval Project V (ARP V). RH MTRU waste will be treated and managed in existing facilities at INTEC by the RWDP.

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

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

3.3.1 Remote-Handled Waste Disposition Project

The RWDP transfers RH waste from INL storage areas and prepares the waste for shipment and disposal. This project manages RH-TRU and RH-MLLW. Additionally, some of the RH waste is contaminated with contaminants that require treatment in CPP-659 or CPP-666 (sort, segregate, absorb, size, and react) before disposal. These contaminants include Na and NaK, which present significant handling and treatment challenges. CPP-666 and CPP-659 have several permitted treatment processes for Na and NaK. The CPP-666 FDPA SDS treats Na- and NaK-contaminated debris. Additionally, the CPP-666 FDPA cell and CPP-659 decon cell are permitted for water and air treatment of Na and NaK.

a. See footnote g in Section 5.4, *infra*.

INL Site Treatment Plan

1 CPP-659, CPP-666, and CPP-1617 are permitted waste storage areas, with the majority of the waste
2 stored in CPP-1617.

3.3.2 Advanced Mixed Waste Treatment Project

5
6 The ultimate goal of AMWTP is to prepare Transuranic Storage Area (TSA) waste for shipment
7 and to produce final waste forms that are certified for disposal at WIPP. The AMWTP is designed to
8 process approximately 65,000 m³ of primarily MLLW and TRU CH mixed waste and radioactive waste
9 from the TSA, plus an additional 20,000 m³ of waste (similar in content to the 65,000 m³) during the first
10 13 years of operations. The original volume of TRU-contaminated mixed waste is listed in Table 4-2.
11 Section 4.2 also includes the volume of this waste that has been processed to meet the requirement of
12 Section 5.4. The TSA-stored waste slated for the AMWTP waste management units is retrieved from
13 storage, characterized for storage, treatment, or direct shipment, stored (if necessary), treated (as
14 required), packaged, and certified for disposal at WIPP or determined to be appropriately managed as
15 MLLW as described in Section 5.4.^b

3.3.3 ARP V Sludge Repackaging Facility

16
17
18
19 The ARP-V Sludge Repackaging Facility (ARP V) manages sludge waste drums and boxes
20 currently in storage at the AMWTP. The sludge waste includes various organic and inorganic waste
21 streams. The ARP V processes the waste at WMF-1617 by opening the drums, emptying the contents
22 onto a sorting tray or table, sorting and segregating the waste by removing any prohibited items, adding
23 absorbent to any liquids, performing certified visual examination, performing any required
24 characterization, and repackaging the waste to meet the WIPP WAC. The facility also stores the waste
25 after processing pending transfer back to AMWTP.

3.4 Description of Facilities Required to Treat Calcine and Sodium-Bearing Waste

26
27
28
29
30 The INL currently manages both calcine solids and sodium-bearing waste (SBW). The calcine
31 solids are considered to be mixed high-level waste (HLW). The SBW is currently being assessed by DOE
32 for proper radiological waste classification. *The Idaho High-Level Waste & Facilities Disposition, Final*
33 *Environmental Impact Statement* (DOE/EIS-0287; September 2002) analyzed the environmental impacts

b. See footnote g in Section 5.4, *infra*.

INL Site Treatment Plan

1 of alternative treatment disposal options for these wastes. In a December 2005 Record of Decision
2 (ROD), DOE decided to treat SBW using steam reforming technology. Until such time as regulatory
3 approvals are obtained, DOE will manage the waste for storage at the INL Site until a disposition path is
4 available.

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

10
11 The current treatment plan for calcine solids is a calcine disposition facility that will include, at a
12 minimum, retrieval from the bin sets, HIP treatment, and repackaging capabilities. The packaged calcine
13 will be stored on-Site pending shipment.

14 **3.4.1 Calcine Disposition Facility**

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

21
22 A petition to develop an LDR Treatment Standard for the HIP waste form under RCRA
23 regulation is being pursued. This will allow storage of the waste form at a RCRA-regulated interim
24 storage facility or monitored geologic repository.

25
26 The selection of HIP completes the proposed action in *the Idaho High-Level Waste & Facilities*
27 *Disposition Final Environmental Impact Statement* published in September 2002 (DOE/EIS-0287). The
28 steps in the proposed action include:

- 29
- 30 • Prepare and treat the mixed HLW calcine solids with the HIP so they will be suitable for disposal
31 in a repository
 - 32
 - 33 • Treat and dispose of associated radioactive wastes
 - 34
 - 35 • Provide safe storage of HLW calcine destined for a repository

INL Site Treatment Plan

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- Provide the capabilities for retrieval, packaging, and shipment of calcine solids from the Calcined Solids Storage Facility (CSSF).

3.4.2 Sodium-Bearing Waste Treatment Facility

The Sodium-Bearing Waste Treatment Facility, called the Integrated Waste Treatment Unit (IWTU), is currently undergoing surrogate testing. The IWTU will be used for the processing of liquids and associated solids SBW at INTEC into solid forms suitable for permanent disposal, consistent with the *Idaho High-Level Waste & Facilities Disposition Final Environmental Impact Statement* published in September 2002 (DOE/EIS-0287) and the December 2005 ROD. If additional treatment is required to support off-Site disposal, then the HIP treatment process will be used.

4. COVERED WASTE

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

4.1 Mixed Low-Level Waste Streams

For purposes of the STP, MLLW is (a) mixed waste that is not HLW and (b) mixed waste that contains 100 nCi/g or less of waste of alpha-emitting transuranic isotopes with half-lives greater than 20 years. MLLW waste streams at the INL are identified in Table 4-1. Historically at the INL, α -MLLW (MLLW with transuranic contamination between 10 and 100 nCi/g of waste) was managed as MTRU waste and is covered in Section 4.2 and listed in Table 4-2. However, since 1999 when DOE Order 435 was finalized, DOE no longer uses the designation α -MLLW for MLLW with transuranic contamination between 10 and 100 nCi/g of waste. Instead, DOE now classifies all waste with less than or equal to 100 nCi/g of alpha-emitting transuranic isotopes as MLLW. All newly generated covered MLLW will be identified and tracked in Table 4-1 as applicable and appropriate.^c

c. See footnote g in Section 5.4, *infra*.

INL Site Treatment Plan

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 | 1.85 | 0.00 |
| CH-ANL-180CH | Sodium – MLLW Contact Handled | 17.74 | 0.00 |
| CH-ANL-180RH | Sodium MLLW Remote Handled | 40.42 | 0.00 |
| CH-ANL-182CH | Sodium Potassium NaK Contact Handled | 2.03 | 0.00 |
| CH-ANL-182RH | Sodium Potassium NaK Remote Handled | 0.50 | 0.00 |
| CH-ANL-553 | WCA Mixed Waste | 2.97 | 0.00 |
| CH-ANL-716CH | MLLW Contact Handled | 0.00 | 1.05 |
| CH-ANL-716RH | MLLW Remote Handled | 1.70 | 1.05 |
| CH-ANL-722 | Lithium Hydride | 4.16 | 0.00 |
| ID-AMWTP-100 | Mixed Waste Incidental to Processing | 32.40 | 50.00 |
| ID-INL-803 | Aerosol Waste | 0.00 | 0.00 |
| ID-INL-804 | TSCA Waste | 0.00 | 0.00 |
| ID-INL-806 | INTEC Mixed Low-Level Waste | 1.43 | 0.00 |
| ID-SDS-MLLW | Non-Settlement Agreement, Non-TRU MLLW, Containers of Waste and Debris with Sodium and Cadmium from SDS System | 5.16 | 0.57 |
| ID-TEC-175 | INTEC Liquid Waste | 47.70 | 0.00 |
| NR-NRF-673 | Heavy Metal Debris | 0.00 | 0.00 |
| | Total | 158.06 | 52.67 |

2

4.2 Transuranic-Contaminated Waste Streams

The waste streams in Section 4.2 are TRU-contaminated waste and include both MTRU and α -MLLW. 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.^d 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 and that meets the treatment, storage, and disposal facility (TSDF) WAC as presented in the WIPP Hazardous Waste Facility Permit. 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.^e

Table 4-2 lists all of the MTRU-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. Summary Table 4-2 will track total waste processed to date. Only MTRU waste generated after the date of execution of the Settlement Agreement is included in Section 4.2a.

The proposed INL facilities to treat MTRU-contaminated waste include the RWDP, AMWTP, and ARP V Sludge Repackaging Facility. 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 TRU-contaminated waste will be managed by the RWDP for disposal to the WIPP.

d. 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.

e. See footnote g in section 5.4, infra.

INL Site Treatment Plan

1 Table 4-2. Transuranic-Contaminated Waste Streams Designated for WIPP.

| Waste Type | STP ID | Waste Stream Name | STP ID Total (m ³) |
|---|-------------|---|--------------------------------|
| AMWTP-MANAGED TRU WASTE STREAMS—DEBRIS | | | |
| Debris | BN510 | BOX AND BIN VOLUME | 34,422.78 |
| Debris | CH-ANL-505T | ALHC UPGRADE DECON DEBRIS | 0.63 |
| Debris | ID-AEO-100T | GENERAL PLANT WASTE | 20.40 |
| Debris | ID-AEO-101T | CUT UP GLOVEBOXES | 0.00 |
| Debris | ID-AEO-106T | SPECIAL SOURCE MATERIAL | 0.21 |
| Debris | ID-AEO-107T | REMOTE-HANDLED WASTE | 24.74 |
| Debris | ID-AEO-110T | RESEARCH GENERATED WASTE COMPACTIBLE & C | 0.42 |
| Debris | ID-AEO-120T | COMPACTIBLE AND COMBUSTIBLE WASTE | 0.42 |
| Debris | ID-ANL-161 | ANL-W ANALYTICAL CHEMISTRY LAB GLASSWARE | 1.06 |
| Debris | ID-ANL-162T | ANL-W FMF EFL Zr-U FUEL CASTING ALLOYS R | 10.58 |
| Debris | ID-ANL-163T | ANL-W ACL COLD-LINE ABSORBED LIQUID, MIS | 1.27 |
| Debris | ID-BCO-201T | NONCOMBUSTIBLE SOLIDS | 8.90 |
| Debris | ID-BCO-202T | COMBUSTIBLE SOLIDS | 0.64 |
| Debris | ID-BCO-203T | PAPER, METALS, GLASS | 5.51 |
| Debris | ID-BTO-010T | RAGS, GLOVES, POLY | 199.28 |
| Debris | ID-BTO-020T | NONCOMPRESSIBLE, NONCOMBUSTIBLE | 168.33 |
| Debris | ID-INL-150T | LABORATORY WASTE | 31.09 |
| Debris | ID-INL-155T | SCRAP | 3.60 |
| Debris | ID-INL-157T | MISCELLANEOUS SOURCES | 3.82 |
| Debris | ID-MDO-801T | RAGS, PAPER, WOOD, ETC. | 7.42 |
| Debris | ID-MDO-802T | DRY BOX GLOVES AND O-RINGS | 25.65 |
| Debris | ID-MDO-803T | METAL, EQUIPMENT, PIPES, VALVES, ETC. | 38.16 |
| Debris | ID-MDO-805T | ASBESTOS FILTERS | 8.06 |
| Debris | ID-MDO-810T | GLASS, FLASKS, SAMPLE VIALS, ETC. | 2.76 |
| Debris | ID-MDO-813T | GLASS FILTERS AND FIBERGLASS | 0.64 |
| Debris | ID-MDO-814T | CONTAMINATED MERCURY OR GRAPHITE CRUCIBL | 0.42 |
| Debris | ID-MDO-815T | CLASSIFIED PARTS | 0.42 |
| Debris | ID-MDO-824T | NONCOMBUSTIBLE EQUIPMENT BOXES | 0.00 |
| Debris | ID-MDO-826T | COMBUSTIBLE EQUIPMENT BOXES OR FLOOR SWE | 1.06 |
| Debris | ID-MDO-827T | COMBUSTIBLE EQUIPMENT DRUMS | 1.91 |
| Debris | ID-MDO-847T | LSA < 100 nCi/g COMBUSTIBLE | 157.09 |
| Debris | ID-MDO-848T | LSA < 100 nCi/g NONCOMBUSTIBLE | 28.41 |
| Debris | ID-OFS-121T | DECONTAMINATION AND DECOMMISSIONING WASTE | 0.21 |
| 65% Debris | ID-RFO-000T | NOT RECORDED - UNKNOWN | 2,615.85 |
| Debris | ID-RFO-116T | COMBUSTIBLE WASTE | 0.85 |
| Debris | ID-RFO-117T | METAL WASTE | 35.17 |
| Debris | ID-RFO-118T | GLASS WASTE | 16.12 |
| Debris | ID-RFO-119T | HEPA FILTER WASTE | 65.51 |
| Debris | ID-RFO-122T | INORGANIC SOLID WASTE | 30.53 |
| Debris | ID-RFO-123T | LEADED RUBBER | 65.93 |
| Debris | ID-RFO-241T | AMERICIUM PROCESS RESIDUE | 25.23 |
| Debris | ID-RFO-300T | GRAPHITE MOLDS | 410.22 |
| Debris | ID-RFO-301T | GRAPHITE CORES | 7.63 |
| Debris | ID-RFO-302T | BENELEX AND PLEXIGLASS | 4.66 |

INL Site Treatment Plan

Table 4-2. (continued).

| Waste Type | STP ID | Waste Stream Name | STP ID Total (m ³) |
|------------|--------------|--|--------------------------------|
| Debris | ID-RFO-312T | COARSE GRAPHITE | 1.91 |
| Debris | ID-RFO-320T | HEAVY NONSPECIAL SOURCE METAL | 96.88 |
| Debris | ID-RFO-328T | FULFLO INCINERATOR FILTERS | 1.70 |
| Debris | ID-RFO-330T | DRY PAPER AND RAGS | 1,085.86 |
| Debris | ID-RFO-335T | ABSOLUTE 8 X 8 FILTERS | 27.54 |
| Debris | ID-RFO-336T | MOIST PAPER AND RAGS | 1,584.06 |
| Debris | ID-RFO-337T | PLASTICS, TEFLON, WASH, PVC | 488.45 |
| Debris | ID-RFO-338T | INSULATION AND CHEMICAL WARFARE SERVICE | 53.64 |
| Debris | ID-RFO-339T | LEADED RUBBER GLOVES AND APRONS | 152.43 |
| Debris | ID-RFO-360T | INSULATION | 50.67 |
| Debris | ID-RFO-371T | FIREBRICK | 218.78 |
| Debris | ID-RFO-374T | BLACKTOP, CONCRETE, DIRT AND SAND | 269.03 |
| Debris | ID-RFO-376T | CEMENTED INSULATION FILTER MEDIA | 532.76 |
| Debris | ID-RFO-430T | UNLEACHED ION COLUMN RESIN | 6.15 |
| Debris | ID-RFO-431T | LEACHED RESIN | 1.27 |
| Debris | ID-RFO-440T | GLASS | 301.89 |
| Debris | ID-RFO-441T | UNLEACHED RASHIG RINGS | 333.69 |
| Debris | ID-RFO-442T | LEACHED RASHIG RINGS | 261.82 |
| Debris | ID-RFO-460T | WASHABLES, RUBBER, PLASTICS | 1.27 |
| Debris | ID-RFO-463T | LEADED RUBBER GLOVES AND APRONS | 11.24 |
| Debris | ID-RFO-464T | BENELEX AND PLEXIGLASS | 9.96 |
| Debris | ID-RFO-480T | NONSPECIAL SOURCE METAL | 541.66 |
| Debris | ID-RFO-481T | LEACHED NONSPECIAL SOURCE METAL | 189.10 |
| Debris | ID-RFO-490T | CHEMICAL WARFARE SERVICE FILTERS | 16.11 |
| Debris | ID-RFO-900T | LOW SPECIFIC ACTIVITY PLASTICS, PAPER, E | 74.20 |
| Debris | ID-RFO-950T | LOW SPECIFIC ACTIVITY METAL, GLASS, ETC. | 23.32 |
| Debris | ID-RFO-970T | WOOD | 4.66 |
| 65% Debris | ID-RFO-9999T | PRE-73 DRUMS | 4,865.99 |
| Debris | ID-TAN-200T | AMERICUM SOURCES | 0.21 |
| Debris | ID-TEC-156 | CHEM CELL RIP-OUT | 28.53 |
| Debris | ID-TEC-172 | HEPA FILTERS | 27.91 |
| Debris | ID-TEC-699T | MIXED TRU WASTE NWCF AND CSSF | 2.7563 |
| | | TOTAL DEBRIS | 49,719.04 |

INL Site Treatment Plan

1 Table 4-2. (continued).

| Waste Type | STP ID | Waste Stream Name | STP ID Total (m ³) |
|--|--------------|--|--------------------------------|
| AMWTP-MANAGED TRU WASTE STREAMS—SOLIDS/SOIL | | | |
| Solids/Soil | ID-AEO-102T | ABSORBED LIQUIDS | 22.26 |
| Solids/Soil | ID-AEO-105T | EMPTY BOTTLES AND ABSORBENTS | 1.48 |
| Solids/Soil | ID-BCO-204T | SOLIDIFIED SOLUTIONS | 1.48 |
| Solids/Soil | ID-BTO-030T | SOLIDIFIED GRINDING SLUDGE, ETC. | 9.96 |
| Solids/Soil | ID-BTO-040T | SOLID BINARY SCRAP POWDER, ETC. | 36.46 |
| Solids/Soil | ID-MDO-811T | EVAPORATOR AND DISSOLVER SLUDGE | 0.85 |
| Solids/Soil | ID-MDO-834T | HIGH-LEVEL ACID | 191.01 |
| Solids/Soil | ID-MDO-835T | HIGH-LEVEL CAUSTIC | 355.10 |
| Solids/Soil | ID-MDO-836T | HIGH-LEVEL SLUDGE/CEMENT | 885.74 |
| Solids/Soil | ID-MDO-838 | <10 nCi/g NONCOMBUSTIBLE | 0.21 |
| Solids/Soil | ID-MDO-842T | CONTAMINATED SOIL | 0.00 |
| Solids/Soil | ID-OFS-111T | RESEARCH GENERATED WASTE NONCOMPACTIBLE | 832.52 |
| 35% Solids/Soil | ID-RFO-000T | NOT RECORDED - UNKNOWN | 1,408.54 |
| Solids/Soil | ID-RFO-001T | FIRST STAGE SLUDGE | 2,567.90 |
| Solids/Soil | ID-RFO-002T | SECOND STAGE SLUDGE | 1,639.18 |
| Solids/Soil | ID-RFO-003T | ORGANIC SETUPS, OIL SOLIDS | 1,533.18 |
| Solids/Soil | ID-RFO-004T | SPECIAL SETUPS (CEMENT) | 327.54 |
| Solids/Soil | ID-RFO-005T | EVAPORATOR SALTS | 11.02 |
| Solids/Soil | ID-RFO-007T | BLDG 374 DRY SLUDGE | 923.47 |
| Solids/Soil | ID-RFO-090 | DIRT | 28.62 |
| Solids/Soil | ID-RFO-112T | SOLIDIFIED ORGANICS | 169.18 |
| Solids/Soil | ID-RFO-113T | SOLID LAB WASTE | 16.96 |
| Solids/Soil | ID-RFO-114T | SOLIDIFIED PROCESS SOLIDS | 74.84 |
| Solids/Soil | ID-RFO-290 | FILTER SLUDGE | 0.21 |
| Solids/Soil | ID-RFO-292T | CEMENTED SLUDGE | 115.33 |
| Solids/Soil | ID-RFO-375T | OIL-DRI RESIDUE FROM INCINERATOR | 4.03 |
| Solids/Soil | ID-RFO-409T | MOLTEN SALTS – 30% UNPULVERIZED | 6.57 |
| Solids/Soil | ID-RFO-414T | DIRECT OXIDE REDUCTION SALT | 1.06 |
| Solids/Soil | ID-RFO-432T | LEACHED AND CEMENTED RESIN | 60.42 |
| Solids/Soil | ID-RFO-700T | ORGANIC AND SLUDGE IMMOBILIZATION SYSTEM | 1.91 |
| Solids/Soil | ID-RFO-976T | BLDG 776 PROCESS SLUDGE | 1.48 |
| Solids/Soil | ID-RFO-978T | LAUNDRY SLUDGE | 0.00 |
| Solids/Soil | ID-RFO-980T | FILTER SLUDGE | 0.21 |
| 35% Solids/Soil | ID-RFO-9999T | PRE-73 DRUMS | 2,620.15 |
| Solids/Soil | ID-TEC-151T | SOLIDIFIED FUEL SLUDGE | 0.23 |
| Solids/Soil | ID-TRA-291T | TRU HEAVY METAL SLUDGE | 2.54 |
| | | TOTAL SOLIDS/SOIL | 13,851.64 |

2

INL Site Treatment Plan

1 Table 4-2. (continued).

| Waste Type | STP ID | Waste Stream Name | STP ID Total Remaining FY-16 (m ³) |
|---|-------------|-------------------------------|--|
| RWDP MANAGED MIXED-TRU AND TRU WASTE STREAMS | | | |
| NA | CH-ANL-180T | SODIUM – TRU | 0.82 |
| NA | CH-ANL-182T | SODIUM POTASSIUM - NaK - TRU | 0.78 |
| NA | CH-ANL-241T | TRU-CD-HOT CELL WASTE | 0.11 |
| NA | ID-RWDP-RH | WASTE TO BE PROCESSED BY RWDP | 0.91 |
| NA | ID-SDS-TRU | TRU WASTE FROM SDS TREATMENT | 8.55 |

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Summary Table 4-2

| STP ID | Waste Stream Name | STP ID Total (m ³) | Processed (m ³) |
|--|-------------------------------|--------------------------------|-----------------------------|
| RWDP AND AMWTP MANAGED MIXED-TRU AND TRU WASTE STREAMS SUMMARY | | | |
| CH-ANL-180T | SODIUM – TRU | 0.82 | 1.38 |
| CH-ANL-182T | SODIUM POTASSIUM - NaK - TRU | 0.78 | 0.48 |
| CH-ANL-241T | TRU-CD-HOT CELL WASTE | 0.11 | 0.91 |
| ID-RWDP-RH | WASTE TO BE PROCESSED BY RWDP | 0.91 | 1.82 |
| ID-SDS-TRU | TRU WASTE FROM SDS TREATMENT | 8.55 | -6.47 |
| AMWTP WASTE STREAMS TOTALS | DEBRIS/SOLIDS AND SOILS | 63,570.68 | 54,400 |
| RWDP AND AMWTP MIXED-TRU AND TRU WASTE STREAMS TOTALS SUMMARIZED | | | |
| RWDP MIXED TRU WASTE STREAMS TOTALS | | 2.62 | 4.59 |
| RWDP TRU WASTE STREAM TOTALS | | 8.55 | -6.47 |
| AMWTP-MANAGED TRU WASTE STREAMS TOTALS | | 63,570.68 | 54,400 |
| NOTE: The original volume of TRU-contaminated waste processed to the end of FY 2015 is 54,400 m ³ . This volume includes 5,632 m ³ processed from 1999 to 2005, and 48,768 m ³ processed since the beginning of FY 2006. Commencing in FY 2006, DOE agreed to process a cumulative average of 4,500 m ³ of original volume of TRU-contaminated waste per year (waste listed in Table 4-2) through the Advanced Mixed Waste Treatment Project or other facility. The cumulative total of the yearly milestone from 2006 equals 40,500 m ³ . Therefore, the carryover volume to FY 2016 is 3,768 m ³ . | | | |

5
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INL Site Treatment Plan

4.2a Newly Generated Transuranic-Contaminated Waste Streams

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

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

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

Table 4-2a. Newly Generated Transuranic-Contaminated Waste Streams Designated for WIPP.

| STP ID | Waste Stream Name | STP Total (m ³) | 5-year Generation (m ³) |
|----------------|----------------------------------|-----------------------------|-------------------------------------|
| CH-ANL-180Ta | Sodium – TRU | 0.51 | 0.50 |
| CH-ANL-241Ta | MTRU Remote Handled | 1.43 | 0.00 |
| CH-ANL-505Ta | MTRU Contact Handled | 0.63 | 0.00 |
| ID-AMWTP-100Ta | MTRU Incidental to Processing | 614.35 | 350.00 |
| ID-RWDP-RHa | Waste to be Processed by RWDP | 0.02 | TBD |
| ID-TEC-172Ta | Mixed TRU HEPA Filters | 0.68 | 1.00 |
| ID-TEC-670Ta | MTRU Laboratory Analytical Waste | 13.57 | 0.00 |
| | Total | 631.19 | 351.50 |

INL Site Treatment Plan

4.3 Calcine and Sodium-Bearing Waste

The INL manages both calcine solids and SBW. These waste streams are listed in Table 4-3. The calcine solids are considered HLW. The DOE 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 DOE 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 | 3,222.14 | 0.00 |
| ID-TEC-174 | High-Level Waste Calcine Solids | 4,386.00 | 0.00 |
| ID-TEC-176 | IWTU Steam Reform Product | 0.00 | 1,078.00 |
| | Total | 7,608.14 | 1,078.00 |

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 treat 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 identification number, the waste stream name, the 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.

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.

INL Site Treatment Plan

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

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

| Waste Stream ID | Waste Stream Name | Received into Storage at INL m ³ (gross) | Received into Storage at INL m ³ (net) | Shipped Offsite (m ³) | Future Generated Volume (m ³ /5 yr) | Storage Approval Date | Volume Approved for Storage |
|---|----------------------|---|---|-----------------------------------|--|-----------------------|-----------------------------|
| Site Name: Argonne National Laboratory – East | | | | | | | |
| INL AECHHM | Lot 2 Sludge | 0.424 | 0.424 | 0.424 | 30.576 | 24-Apr-13 | 31 |
| INL AECHDM | Debris | 8.056 | 8.056 | 8.056 | 22.944 | 24-Apr-13 | 31 |
| | Subtotal: | 8.480 | 8.480 | 8.480 | 53.52 | | 62 |
| Site Name: Los Alamos National Laboratory Approved | | | | | | | |
| LA-MHD01.001 | Heterogeneous Debris | 2.56 | 2.56 | 2.56 | 0 | 24-Jul-13 | 2.56 |
| LA-MHD03.001 | Heterogeneous Debris | | | | 2.56 | 24-Jul-13 | 2.56 |
| LA-MHD04.001 | Heterogeneous Debris | 20.480 | 20.480 | 20.480 | 28.16 | 24-Jul-13 | 48.64 |
| LA-MHD09.001 | Heterogeneous Debris | 2.560 | 2.560 | 2.560 | 5.12 | 24-Jul-13 | 7.68 |
| | Subtotal | 25.600 | 25.600 | 25.600 | 35.84 | | 61.44 |

4

5 **4.5 Pre- and Post-Treatment/Storage of Off-Site Mixed Waste**

6

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

9

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

21

INL Site Treatment Plan

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

4
5 The following process will be used for notification and documentation:

- 6
- 7 (a) Subsequent to approval of the treatment plan by DEQ, DOE will notify the DEQ of the proposed
8 schedule for receipt and completion of the primary treatment of off-Site mixed waste, and
9 shipment of the treated waste and waste treatment residues off-Site at the quarterly meeting or, if
10 necessary, no later than one week prior to the shipment of the waste. This notification will be
11 accomplished by submittal of a new STP Table 4-5 that lists the waste streams and the
12 corresponding dates.
- 13
- 14 (b) The DOE STP Project Manager will also orally notify the DEQ STP Project Manager of the
15 actual dates the off-Site mixed waste is received at the INL, when the primary treatment step
16 listed in Table 6-2 is complete, and when the waste and treatment residues are shipped off-Site.
17 This oral notification will be made within two working days of the occurrence. Table 4-5 will be
18 updated at each quarterly INL STP meeting to reflect the actual dates if these dates differ from
19 the dates proposed in Table 4-5. When a waste stream has been shipped off-Site, it will be
20 removed from Table 4-5 at the next quarterly INL STP meeting.
- 21
- 22 (c) In the event delays beyond the control of DOE occur (such as treatment unit downtime,
23 maintenance, or transportation delays) that could impact the ability to meet the proposed schedule
24 submitted in Table 4-5, the DOE Project Manager will orally notify the DEQ STP Project
25 Manager within five days of knowledge of the delay. A modified Table 4-5 will be developed by
26 DOE and submitted to the DEQ in writing within 10 working days of the initial oral notification
27 of the delay.
- 28
- 29 (d) For off-Site mixed waste, which is in Table 4-4 of the INL STP, that requires greater than six
30 month pre- and post-treatment storage at the INL, approval by DEQ of the proposed schedule will
31 be obtained under 2.2.3.5 of the INL STP on a case basis through submittal of the proposed
32 schedule added to Table 4-5. The date the approval is obtained from DEQ will be added to
33 Table 4-4, which will be updated as part of the quarterly INL STP meetings.
- 34

INL Site Treatment Plan

1 Table 4-5. Off-Site 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 | Date of Primary Treatment or Sampling, etc. | Date Treated Wastes and/or Treatment Residues Shipped Off-Site |
|--|-----------------|-----------|--|----------------------------|---|--|
| | | | | P = Proposed A = Actual | P = Proposed A = Actual | P= Proposed A= Actual |
| | | | | | | |
| | | | | | | |
| NOTE: No off-Site waste was received on-Site during FY-15. | | | | | | |

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INL Site Treatment Plan

4.6 Deletion of Waste Streams

This section presents mixed waste streams that are no longer identified as wastes covered under this STP. These waste streams have been removed under provisions in Section 2.7.1, "Deletion of Wastes." Table 4-6 presents the mixed waste streams and dates when the waste was removed.

Table 4-6. Deleted Waste Streams.

| Waste Stream ID | Waste Stream Name | Disposition Date |
|-----------------|--|------------------|
| AE-W015 | ORGANIC SOLVENTS Disposition: Alternative treatment technology. | 1/24/01 |
| AE-W030 | COMBUSTIBLE SOLIDS W/ METALS Disposition: Alternative treatment technology. | 1/24/01 |
| AE-W031 | COMBUSTIBLE SOLIDS W/ ORGANICS Disposition: Alternative treatment technology. | 1/24/01 |
| AE-W034 | PPE CONTAMINATED WITH LEAD Disposition: Alternative treatment technology. | 1/24/01 |
| AF-MW-01 | AIR FORCE MUNITIONS MAINTENANCE WASTE Disposition: Alternative treatment technology. | 1/24/01 |
| BN-W007 | MERCURY WASTE Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| BT-W001 | ORGANIC LIQUID WASTE WITH HEAVY METALS Disposition: Alternative treatment technology. | 1/24/01 |
| BT-W002 | SPENT SOLVENT RAGS Disposition: Treated and no future generation of this waste stream. | 10/29/97 |
| BT-W003 | ORGANIC WASTE WITH HEAVY METALS Disposition: Alternative treatment technology. | 1/24/01 |
| BT-W005 | PAINT CHIPS W/ HEAVY METALS MAY HAVE PCB Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| BT-W007 | SOLIDS WITH SOLVENTS Disposition: Treated with no future generation of this waste stream. | 10/29/97 |
| BT-W008 | MERCURY-CONTAINING WASTE Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| BT-W009 | VOC-CONTAMINATED SOIL Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| BT-W010 | ORGANIC LIQUIDS W/ HEAVY METALS PCBs, & VOC Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| BT-W012 | VOC & PCB-CONTAMINATED DEBRIS Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| BT-W013 | VOC & PCB-CONTAMINATED SOIL Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |

INL Site Treatment Plan

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|-----------------|---|------------------|
| BT-W017 | ION EXCHANGE RESIN Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| BT-W018 | TCLP EXTRACTION FLUID Disposition: Alternative treatment technology. | 1/24/01 |
| BT-W019 | ELEMENTAL LEAD Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| BT-W020 | BRASS AND BRONZE Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| BT-W028 | VOC AND PCB-CONTAMINATED WATER Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| BT-W029 | VOC-CONTAMINATED SEDIMENT/SLUDGE Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| BT-W030 | VOC-CONTAMINATED DEBRIS Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| BT-W031 | VOC AND PCB-CONTAMINATED SLUDGE Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| BT-W033 | IGNITABLE LIQUID Disposition: Treated with no future generation of this waste stream. | 10/29/97 |
| BT-W036 | PCB-CONTAMINATED INORGANIC DEBRIS/PARTIC Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| CH-ANL-RPK | REPACKAGED WASTE FOR SCMS Disposition: Treated, no longer generated. | 10/31/10 |
| CH-ANL-111 | URANIUM/CADMIUM FROM FCF Disposition: Treated and no longer generated | 4/22/09 |
| CH-ANL-142 | LEAD CONTAM. SOLIDS ANL-W OPERATIONS Disposition: Treated, no longer generated. | 10/31/10 |
| CH-ANL-142T | LEAD-CONTAMINATED WASTE Disposition: Treated, no longer generated. | 10/0//14 |
| CH-ANL-183 | RADIOACTIVE PAINT STRIPPING WASTE Disposition: Treated and no longer generated. | 10/27/04 |
| CH-ANL-184 | SOLVENT DECON SOLUTION (NONHALOGENATED) 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. | 2/12/96 |
| CH-ANL-218T | ELECTROREFINER SALTS Disposition: Combined with another waste stream. | 4/22/09 |
| CH-ANL-224 | CONTAMINATED HG-IBC CASK MAINTENANCE Disposition: Treated, no longer generated. | 10/31/10 |
| CH-ANL-243T | METAL WASTE FORM Disposition: This waste will not be generated as a mixed waste, LLW only. | 6/30/97 |

INL Site Treatment Plan

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|-----------------|--|------------------|
| CH-ANL-244 | ICP WASTE SOLUTIONS W/ HEAVY METALS Disposition: Treated and no longer generated. | 4/22/09 |
| CH-ANL-245T | ELECTROREFINER CADMIUM Disposition: Combined with another waste stream. | 4/22/09 |
| CH-ANL-246T | ELECTROREFINER INSOLUBLES W/ CADMIUM Disposition: This waste will not be generated as a mixed waste, LLW only. | 6/30/97 |
| CH-ANL-503 | SPENT HEPA FILTERS AND PRE-FILTERS Disposition: Treated and no longer generated. | 4/22/09 |
| CH-ANL-503T | TRU WASTE USED PRE-FILTERS Disposition: Treated and no longer generated. | 10/29/14 |
| CH-ANL-503Ta | TRU WASTE USED PRE-FILTERS Disposition: Treated and no longer generated. | 10/29/14 |
| CH-ANL-506 | SODIUM STORED IN BUILDING 703 AND OTHER Disposition: Moved to CH-ANL-180CH. | 10/29/14 |
| CH-ANL-554 | LEAD-CONTAMINATED DEBRIS Disposition: Treated, no longer generated. | 10/31/10 |
| CH-ANL-601 | Cd-CONTAMINATED CLEANUP WASTE Disposition: Incinerated at WERF. No waste is currently in storage (no backlog) and waste is not projected to be generated. | 5/28/96 |
| CH-ANL-660 | ANL-W MERCURY AND MERCURY DEBRIS Disposition: Treated, no longer generated. | 10/31/10 |
| CH-ANL-669 | MLLW Cd: FCF MODIFICATION AND ER WORK Disposition: Treated and no longer generated. | 1/21/04 |
| CH-ANL-683 | LABORATORY CORROSIVE WASTE Disposition: Treated and no longer generated. | 4/22/09 |
| CH-ANL-691 | TREAT/PHP STACK CONDENSATE WATER Disposition: Treated and no longer generated. | 1/21/04 |
| CH-ANL-711 | EML ETCHING SOLUTION Disposition: Treated and no longer generated. | 1/21/04 |
| CH-ANL-712 | ANL-W ETCHING SOLUTIONS Disposition: Treated and no longer generated. | 1/21/04 |
| CN-W002 | LEAD AND LEAD-BEARING MATERIALS 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. | 2/24/97 |
| CN-W003 | LEAD AND/OR CHROMIUM-BASED PAINT CHIPS Disposition: Treated and no longer generated. | 4/21/04 |
| CN-W005 | Cd-PLATED METALS Disposition: Treated and no longer generated. | 4/21/04 |

INL Site Treatment Plan

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|-----------------|---|------------------|
| CN-W006 | BRASS & BRONZE Disposition: Treated and no longer generated. | 4/21/04 |
| ET-CC-01 | WASTE OILS Disposition: Has or will be treated by another site. Will not be received at the INL. | 4/27/99 |
| ET-W009 | PAINT CHIPS Disposition: Has or will be treated by another site. Will not be received at the INL. | 4/27/99 |
| ET-W019 | CHROME SALT CORES Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| ET-W020 | LABORATORY ANALYTICAL REAGENT WASTE Disposition: Has or will be treated by another site. Will not be received at the INL. | 4/27/99 |
| ET-W023 | ELEMENTAL MERCURY Disposition: Has or will be treated by another site. Will not be received at the INL. | 4/27/99 |
| ET-W026 | CRUSHED MERCURY LIGHT BULBS Disposition: Has or will be treated by another site. Will not be received at the INL. | 4/27/99 |
| GA-CC-01 | CA. LISTED WASTES Disposition: Has or will be treated by another site. Will not be received at the INL. | 4/27/99 |
| GA-W003 | SVA: Pb-CONTAMINATED SLUDGE Disposition: Has been treated at Hanford and on-Site. This waste will not be received at the INL. | 2/24/97 |
| GA-W007 | HOT CELL D&D: Pb SHOT Disposition: Has or will be treated by another site. Will not be received at the INL. | 4/27/99 |
| GA-W013 | HOT CELL D&D: Pb BRICK Disposition: Accepted by Envirocare under the Mixed Waste Focus Area Cooperative Agreement. This waste will not be received at the INL. | 2/24/97 |
| GA-W025 | SVA: LEAD SCRAP Disposition: Has been shipped for off-Site treatment. This waste will not be received at the INL. | 2/24/97 |
| GA-W031 | SVA: OILY DEBRIS CONTAINING METHYLENE CL Disposition: Has or will be treated by another site. Will not be received at the INL. | 4/27/99 |
| GA-W034 | DOUBLET 11 ALCOHOL AND TRITIUM Disposition: Has or will be treated by another site. Will not be received at the INL. | 4/27/99 |
| GA-W037 | WASTE W/ F-LISTED SOLVENTS Disposition: Has or will be treated by another site. Will not be received at the INL. | 4/27/99 |

INL Site Treatment Plan

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|-----------------|--|------------------|
| GA-W038 | MISCELLANEOUS LIQUID SOLVENTS Disposition: Has or will be treated by another site. Will not be received at the INL. | 4/27/99 |
| GA-W043 | SVA ORGANIC LIQUID Disposition: Has or will be treated by another site. Will not be received at the INL. | 4/27/99 |
| GA-W044 | WOOD HOUSING HEPA FILTERS Disposition: Has or will be treated by another site. Will not be received at the INL. | 4/27/99 |
| GJPO-94-017 | WASTE OIL SLUDGE Disposition: Alternative treatment technology. | 1/24/01 |
| GJPO-96-017 | MISC. COMBUSTIBLE MIXED WASTE Disposition: Alternative treatment technology. | 1/24/01 |
| GJPO-97-030 | ACTIVATED CARBON Disposition: Alternative treatment technology. | 1/24/01 |
| ID-AMWTP-200 | RECLASSIFIED MLLW FROM TRU Disposition: Waste was being counted in BN510 for this waste stream causing duplicate counting. | 10/23/13 |
| ID-AMWTP-300 | MIXED LOW LEVEL WASTE FROM ANL Disposition: The waste was moved back into the original waste stream of CH-ANL-553 for tracking purposes. | 10/23/13 |
| ID-CFA-103 | LIQUID LAB WASTE W/ METALS AND ORGANICS Disposition: Treated and no longer generated. | 4/21/04 |
| ID-CFA-107 | ARA-IV SUMP SLUDGE Disposition: Treated and no longer generated. | 4/21/04 |
| ID-CFA-121 | HEAVY METAL LIQUID LAB WASTES Disposition: Treated and no longer generated. | 4/21/04 |
| ID-CFA-193 | EXPERIMENTAL BREEDER REACTOR-I NaK Disposition: Treated at SCMS. No waste currently in storage (no backlog) and waste is not projected to be generated. | 8/13/96 |
| ID-CFA-256 | METHANOL SOLUTION Disposition: Treated and no longer generated. | 1/21/04 |
| ID-CFA-257 | METHYLENE CHLORIDE LAB WASTE Disposition: Incinerated at WERF. No waste currently in storage (no backlog) and waste is not projected to be generated. | 8/13/96 |
| ID-CFA-259 | RADIOACTIVE PCB OIL W/ TCLP ORGANICS Disposition: Treated and no longer generated. | 10/27/04 |
| ID-CFA-260 | RADIOACTIVE PCB OIL W/ HEAVY METALS Disposition: Repackaged into ID-CFA-259. No waste currently in storage (no backlog) and waste is not projected to be generated. | 8/13/96 |
| ID-CFA-280 | BORAX D&D NONCOMPACTIBLE LEAD SHIELDING Disposition: No future generation of this waste stream. | 2/23/98 |

INL Site Treatment Plan

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|-----------------|--|------------------|
| ID-CFA-285 | METHYLENE CHLORIDE LAB DEBRIS Disposition: Incinerated at WERF. No waste is currently in storage (no backlog) and waste is not projected to be generated. | 5/28/96 |
| ID-CFA-298 | DISTILLATION LIQUID WITH PYRIDINE Disposition: Incinerated at WERF. No waste currently in storage (no backlog) and waste is not projected to be generated. | 10/30/96 |
| ID-CFA-532 | BORAX D&D CADMIUM FUEL RACK Disposition: This waste stream was determined to be nonhazardous through TCLP testing. | 2/12/96 |
| ID-CFA-533 | ARA-I D&D NONCOMPACTIBLE LEAD Disposition: Treated and no longer generated. | 1/21/04 |
| ID-CFA-535 | SAMPLE ACIDIFIED FOR SULFIDE AND CYANIDE Disposition: Incinerated at WERF. No waste currently in storage (no backlog) and waste is not projected to be generated. | 5/28/96 |
| ID-CFA-551 | HDEHP/HEPTANE EXTRACTANT Disposition: Treated and no longer generated. | 1/21/04 |
| ID-CFA-556 | AQUEOUS WASTE SUBJECT TO UHCS Disposition: Treated and no longer generated. | 10/27/04 |
| ID-CFA-661 | ELECTRICAL COMPONENTS W/ LEAD Disposition: Treated and no longer generated. | 10/27/04 |
| ID-CFA-662 | SCINTILLATION COCKTAILS Disposition: Treated and no longer generated. | 1/21/04 |
| ID-CFA-664 | EDTA AND LEAD Disposition: Treated and no longer generated. | 10/27/04 |
| ID-CFA-667 | MIXED LEAD Disposition: Treated and no longer generated. | 4/21/04 |
| ID-CFA-676 | RESIN COLUMN MEDIA Disposition: Treated and no longer generated. | 4/21/04 |
| ID-CFA-677 | DEMINERALIZER FILTER Disposition: Treated and no longer generated. | 4/21/04 |
| ID-CFA-688 | ARA-1 SOILS W/ LEAD Disposition: Treated and no longer generated. | 1/21/04 |
| ID-CFA-695 | ARA-II SEPTIC TANK SOLIDIFIED SLUDGE Disposition: Treated and no longer generated. | 4/21/04 |
| ID-CFA-701 | PAINT RESIDUE CONTAMINATED W/ PCBS Disposition: Treated and no longer generated. | 4/21/04 |
| ID-CFA-702 | ARA-1 D&D PPE and PIPING/DRAINS Disposition: Treated and no longer generated. | 4/21/04 |
| ID-CFA-705 | VERMICULITE WITH GREASE Disposition: Treated and no longer generated. | 10/27/04 |

INL Site Treatment Plan

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|-----------------|--|------------------|
| ID-CFA-732 | CONTAMINATED GROUNDWATER SAMPLES Disposition: Treatability study on 100% of waste. No future generation of this waste stream. | 2/23/98 |
| ID-CFA-734 | XYLENE, ALIQUOT 336 WITH PERCHLORATE Disposition: Treated and no longer generated. | 1/21/04 |
| ID-INL-100 | REPACKAGED WASTE 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. | 5/15/98 |
| ID-INL-117 | CONTAMINATED CADMIUM SHEETING Disposition: Treated and no longer generated. | 4/21/04 |
| ID-INL-142 | LEAD CONTAMINATED DEBRIS Disposition: Waste moved to new Waste Stream Identifier (ID-INL-803). | 1/19/05 |
| ID-INL-143 | RADIOACTIVELY CONTAMINATED LEAD Disposition: Waste moved to new Waste Stream Identifier (ID-INL-800 and ID-INL-801). | 1/19/05 |
| ID-INL-187 | SIG SODIUM Disposition: Treated and no longer generated. | 4/22/09 |
| ID-INL-213 | MERCURY-CONTAMINATED DEBRIS & ASBESTOS Disposition: Waste moved to new Waste Stream Identifier. | 1/19/05 |
| ID-INL-220 | ACTIVATED CARBON LLMW 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. | 2/24/97 |
| ID-INL-266 | WERF MONITOR DEBRIS Disposition: Treated and no longer generated. | 10/27/04 |
| ID-INL-267 | PWTU SPENT FILTERS Disposition: Treated and no longer generated. | 10/27/04 |
| ID-INL-268 | PWTU SPENT RESINS 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. | 2/24/97 |
| ID-INL-270 | HEAVY METAL-CONTAMINATED SOLIDS Disposition: Treated and no longer generated. | 10/27/04 |
| ID-INL-299 | SAMPLE WASTE Disposition: Remaining waste was classified as TRU. | 1/19/05 |
| ID-INL-550 | MLLW FROM WERF OPERATIONS Disposition: Waste moved to new Waste Stream Identifier (ID-INL-803). | 1/19/05 |
| ID-INL-710 | MLLW FLOOR STRIPPING MATERIALS Disposition: Treated and no longer generated. | 10/27/04 |

INL Site Treatment Plan

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|-----------------|---|------------------|
| ID-INL-724 | MIXED LOW-LEVEL LIQUIDS Disposition: Waste moved to new Waste Stream Identifier (ID-INL-803). | 1/19/05 |
| ID-INL-726 | MLLW OILS Disposition: Treated and no longer generated. | 10/27/04 |
| ID-INL-800 | CLASS B & C WASTE Disposition: Treated and no longer generated. | 7/29/15 |
| ID-INL-801 | CLASS A WASTE Disposition: Treated and no longer generated. | 7/29/15 |
| ID-INL-802 | INTEC CLASS A WASTE Disposition: Treated and no longer generated. | 7/29/15 |
| ID-INL-805 | INTEC CLASS B & C WASTE Disposition: Waste moved to new waste stream identifier (ID-INL-806). | 7/29/15 |
| ID-IRC-271 | BIOPROCESSING MIXED WASTE Disposition: Treated and no longer generated. | 1/21/04 |
| ID-IRC-501 | Cd AND Pb CONTAMINATED SOIL, TRACE RAD Disposition: Treated and no longer generated. | 4/21/04 |
| ID-IRC-668 | BIOASSAY ANALYSIS WASTE Disposition: Treated and no longer generated. | 4/21/04 |
| ID-MFC-100 | D&D SODIUM/NaK Disposition: Waste treated and no longer generated. | 9/30/12 |
| ID-NRF-217 | HEAVY METAL RADIOACTIVE OIL Disposition: Incinerated at WERF. No waste currently in storage (no backlog) and waste is not projected to be generated. | 5/28/96 |
| ID-PBF-153 | TAN/IET HOT WASTE SLUDGE Disposition: Treated and no longer generated. | 1/21/04 |
| ID-PBF-212 | Pb AND Cd-CONTAMINATED SOIL Disposition: Treated and no longer generated. | 10/27/04 |
| ID-PBF-261 | WERF BAGHOUSE BAGS (TEFLON) Disposition: Treated and no longer generated. | 4/21/04 |
| ID-PBF-263 | WERF HEPA FILTERS AND PREFILTERS Disposition: Treated and no longer generated. | 4/21/04 |
| ID-PBF-264 | WERF BAGHOUSE BAGS (BLUE MAX) Disposition: Treated and no longer generated. | 4/21/04 |
| ID-PBF-272 | URANIUM SPIKES AND LEAD Disposition: Treated and no longer generated. | 10/27/04 |
| ID-PBF-274 | WERF FLY ASH Disposition: Treated and no longer generated. | 10/27/04 |
| ID-PBF-275 | WERF BOTTOM ASH Disposition: Treated and no longer generated. | 10/27/04 |

INL Site Treatment Plan

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|-----------------|---|------------------|
| ID-PBF-277 | WERF SIZING BAGHOUSE DUST Disposition: Treated and no longer generated. | 10/27/04 |
| ID-PBF-292 | FREON SYSTEM WASTE – LIQUID Disposition: No future generation of this waste stream. All inventory has been treated via incineration. | 8/17/98 |
| ID-PBF-293 | FREON SYSTEM WASTE – SOLIDS Disposition: Incinerated at WERF. No waste currently in storage (no backlog) and waste is not projected to be generated. | 8/13/96 |
| ID-PBF-545 | CERCLA SOIL CONTAMINATED WITH CHROMIUM Disposition: Treated and no longer generated. | 10/27/04 |
| ID-PBF-549 | AQUEOUS LIQUID W/ METALS AND PCBs Disposition: Treated and no longer generated. | 1/21/04 |
| ID-PBF-558 | WERF MERCURY IN OIL Disposition: Treatability study on 100% of waste. No future generation of this waste stream. | 2/23/98 |
| ID-PBF-678 | MWSF PIPING AND VALVES Disposition: Treated and no longer generated. | 10/27/04 |
| ID-PBF-681 | DEBRIS FROM HEAT EXCHANGER CHANGE-OUT Disposition: Treated and no longer generated. | 4/21/04 |
| ID-PBF-684 | RINSATE WATER Disposition: Treated and no longer generated. | 4/21/04 |
| ID-PBF-686 | MERCURY CONTAMINATED RAGS Disposition: Treated and no longer generated. | 4/21/04 |
| ID-PBF-714 | WERF INCINERATOR FLY ASH Disposition: Treated and no longer generated. | 10/27/04 |
| ID-PBF-715 | WERF INCINERATOR BOTTOM ASH Disposition: Treated and no longer generated. | 10/27/04 |
| ID-RFO-300 | GRAPHITE MOLDS Disposition: Characterization data showed that this waste stream was nonhazardous. | 4/27/99 |
| ID-RFO-300T | GRAPHITE MOLDS Disposition: Characterization data showed that this waste stream was nonhazardous. | 4/27/99 |
| ID-RWM-221 | IGNITABLE LIQUID Disposition: Incinerated at WERF. No waste currently in storage (no backlog) and waste is not projected to be generated. | 5/28/96 |
| ID-RWM-222 | CARBURETOR GREASE Disposition: Incinerated at WERF. No waste currently in storage (no backlog) and waste is not projected to be generated. | 5/28/96 |
| ID-RWM-255 | MERCURY CONTAMINATED SOIL Disposition: Treated and no longer generated. | 4/21/04 |

INL Site Treatment Plan

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|-----------------|--|------------------|
| ID-RWM-508 | EQUIPMENT PIT DECON WASTE Disposition: Treated and no longer generated. | 4/21/04 |
| ID-RWM-685 | HEPA FILTERS FROM DRUM VENT FACILITY Disposition: Treated and no longer generated. | 4/21/04 |
| ID-RWM-692 | NITRATE SALTS Disposition: Treated and no longer generated. | 4/21/04 |
| ID-SMC-133 | MISCELLANEOUS LAB WASTES Disposition: Treated and no longer generated. | 4/21/04 |
| ID-SMC-149A | SPENT GM 141 SAPC SOLVENT Disposition: No future generation of this waste stream. All inventory has been treated via incineration. | 8/17/98 |
| ID-SMC-149B | SPENT STODDARD SOLVENT Disposition: No future generation of this waste stream. All inventory has been treated via incineration. | 8/17/98 |
| ID-SMC-301 | TCA STILL BOTTOMS Disposition: Treated and no longer generated. | 1/21/04 |
| ID-SMC-303 | MISCELLANEOUS PAINT WASTES Disposition: Treated and no longer generated. | 1/21/04 |
| ID-SMC-304 | CALCINED URANYL NITRATE 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. | 2/12/96 |
| ID-SMC-305 | HEAVY METAL CONTAMINATED WASTE OILS Disposition: Treated and no longer generated. | 4/21/04 |
| ID-SMC-400 | RAD-CONTAMINATED LEAD Disposition: Treated and no longer generated. | 1/21/04 |
| ID-SMC-411 | MIXED WASTE DEBRIS Disposition: Treated and no longer generated. | 10/27/04 |
| ID-SMC-412 | ETHYLENE GLYCOL HYDRAULIC FLUID Disposition: No future generation of this waste stream. All inventory has been treated via incineration. | 8/17/98 |
| ID-SMC-507 | EUTECTIC SALT WITH LEAD (Pb) Disposition: Treated and no longer generated. | 4/21/04 |
| ID-SMC-528 | CADMIUM-CONTAMINATED MOP WATER Disposition: Treated and no longer generated. | 1/21/04 |
| ID-SMC-529 | ACID CONCRETE ETCH Disposition: Incinerated at WERF. No waste currently in storage (no backlog) and waste is not projected to be generated. | 8/13/96 |
| ID-SMC-537 | MERCURY-CONTAMINATED MATERIALS Disposition: Treated and no longer generated. | 10/27/04 |
| ID-SMC-691 | NITRIC ACID Disposition: Treated and no longer generated. | 1/21/04 |

INL Site Treatment Plan

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|-----------------|--|------------------|
| ID-SMC-696 | LEGACY TCE AND CORROSIVE WASTE Disposition: Treated and no longer generated. | 1/21/04 |
| ID-TAN-124 | HTRE-3 Hg CONTAMINATED CONCRETE Disposition: Treated and no longer generated. | 10/27/04 |
| ID-TAN-162 | TAN DECON SOLVENT WASTE Disposition: No future generation of this waste stream. All inventory has been treated. | 10/23/13 |
| ID-TAN-163 | TAN DECON HEAVY METAL SOLIDS AND DEBRIS Disposition: No future generation of this waste stream. All inventory has been treated. | 10/23/13 |
| ID-TAN-170 | IET LIQUID WASTE Disposition: Treated and no longer generated. | 4/21/04 |
| ID-TAN-188 | TURCO DECON SOLUTION (UNUSED) Disposition: Treated and no longer generated. | 1/21/04 |
| ID-TAN-209 | TURCO DECON (OXIDIZER) Disposition: Treated and no longer generated. | 10/27/04 |
| ID-TAN-254 | HTRE-III TREATMENT SLUDGE Disposition: Treated and no longer generated. | 4/21/04 |
| ID-TAN-276 | WATER WITH TRICHLOROETHYLENE Disposition: Incinerated at WERF. No waste currently in storage (no backlog) and waste is not projected to be generated. | 8/13/96 |
| ID-TAN-413 | LEAD CONTAMINATED SCRAP METAL Disposition: Treated and no longer generated. | 4/21/04 |
| ID-TAN-502 | ISV HEPA FILTERS Disposition: Treated and no longer generated. | 4/21/04 |
| ID-TAN-531 | LEAD SHIELDING LOFT MOBILE TEST Disposition: Treated and no longer generated. | 10/27/04 |
| ID-TAN-534 | TAN-616 LEAD SHIELDING (PLATING) Disposition: Treated and no longer generated. | 1/21/04 |
| ID-TAN-547 | RADIOACTIVE CADMIUM SOURCES Disposition: Treated and no longer generated. | 10/27/04 |
| ID-TAN-548 | MACROENCAPSULATED LEAD SWARF Disposition: Treated and no longer generated. | 10/27/04 |
| ID-TAN-557 | TAN-607 FLOOR SWEEPINGS & VAT RESIDUE Disposition: Treated and no longer generated. | 4/21/04 |
| ID-TAN-666 | PCB-CONTAMINATED DEBRIS Disposition: Waste moved to new Waste Stream Identifier (ID-INL-804). | 1/19/05 |
| ID-TAN-679 | TAN-648 RPSSA RAINWATER Disposition: Treated and no longer generated. | 4/21/04 |
| ID-TAN-709 | DRUM EVAPORATOR SOLIDS Disposition: Treated and no longer generated. | 10/27/04 |

INL Site Treatment Plan

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|-----------------|---|------------------|
| ID-TAN-718 | SAMPLING EQUIPMENT AND RESIDUE Disposition: Treated and no longer generated. | 10/27/04 |
| ID-TAN-721 | SILVER ZEOLITE Disposition: Treated and no longer generated. | 10/27/04 |
| ID-TAN-723 | PAINT CHIPS WITH LEAD/PCBs Disposition: Treated and no longer generated. | 10/27/04 |
| ID-TAN-727 | TAN WASTE FROM CLEAN-UP ACTIVITIES Disposition: Waste moved to new Waste Stream Identifier (ID-INL-800). | 1/19/05 |
| ID-TEC-111 | CADMIUM-CONTAMINATED SOLIDS Disposition: Treated and no longer generated. | 10/27/04 |
| ID-TEC-131 | MERCURY-CONTAMINATED SOLIDS Disposition: Waste moved to new Waste Stream Identifier (ID-INL-800). | 1/19/05 |
| ID-TEC-201 | F002 CONTAMINATED SOLIDS Disposition: Treated and no longer generated. | 1/21/04 |
| ID-TEC-217 | SCRUB PUMP RADIOACTIVE OIL Disposition: Treated and no longer generated. | 4/21/04 |
| ID-TEC-300 | “A” CADMIUM RACKS Disposition: Treated and no longer generated. | 1/21/04 |
| ID-TEC-301 | LIQUID ACID/MERCURY MIXED WASTE Disposition: Treated and no longer generated. | 4/21/04 |
| ID-TEC-303 | SOLID, SILVER-CONTAMINATED LLMW Disposition: No future generation of this waste stream. All inventory treated via a treatability study. | 8/17/98 |
| ID-TEC-304 | CONTAMINATED DEBRIS Disposition: Waste moved to new Waste Stream Identifier (ID-INL-800, ID-INL-802, ID-INL-803, ID-INL-804, ID-INL-805). | 1/19/05 |
| ID-TEC-305 | LLW APS HEPA FILTERS Disposition: Treated and no longer generated. | 10/28/15 |
| ID-TEC-307 | CONTAMINATED LABORATORY RESIDUE Disposition: Waste moved to new Waste Stream Identifier (ID-INL-800). | 1/19/05 |
| ID-TEC-504 | NON-DEBRIS SOLIDS Disposition: Waste moved to new Waste Stream Identifier (ID-INL-800, ID-INL-802, ID-INL-805). | 1/19/05 |
| ID-TEC-509 | USED HEXONE 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. | 2/12/96 |
| ID-TEC-510 | DEBRIS TREATMENT RESIDUE–LISTED Disposition: Treated and no longer generated. | 1/21/04 |

INL Site Treatment Plan

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|-----------------|---|------------------|
| ID-TEC-511 | SLUDGE–LISTED Disposition: Treated and no longer generated. | 1/21/04 |
| ID-TEC-512 | SLUDGE – CHARACTERISTIC Disposition: Waste stream will not be generated. | 2/23/98 |
| ID-TEC-527 | CONTAMINATED SOIL-LISTED Disposition: Treated and no longer generated. | 10/27/04 |
| ID-TEC-530 | D006-D011 CONTAMINATED NON-DEBRIS Disposition: Recharacterized as TRU waste. | 1/19/05 |
| ID-TEC-552 | RADIOACTIVE LEAD WITH LISTED CODES Disposition: Treated and no longer generated. | 10/27/04 |
| ID-TEC-670 | Changed to read ID-TEC-670Ta to reflect newly generated waste. | 1/4/15 |
| ID-TEC-698 | SOIL, WOOD, CONCRETE, PPE Disposition: Waste moved to new Waste Stream Identifier (ID-INL-800, ID-INL-802, ID-INL-805). | 1/19/05 |
| ID-TEC-708 | NWCF HEPA FILTER SAMPLE RESIDUES Disposition: Treated and no longer generated. | 4/21/04 |
| ID-TEC-713 | TURCO DESCALER AT NWCF Disposition: Treated and no longer generated. | 10/27/04 |
| ID-TEC-717 | SAMPLE RESIDUE FROM CERAMIC SAMPLING Disposition: Treated and no longer generated. | |
| ID-TEC-720 | FDP HEPA FILTERS Disposition: Treated and no longer generated. | 10/28/15 |
| ID-TEC-721 | VOG HEPA FILTERS Disposition: Treated and no longer generated. | 10/28/15 |
| ID-TRA-127 | TRA SCINTILLATION COCKTAILS (ALPHA <10) Disposition: Treated and no longer generated. | 1/21/04 |
| ID-TRA-128 | LABORATORY EQUIPMENT AND DEBRIS Disposition: Treated and no longer generated. | 10/27/04 |
| ID-TRA-155 | TRA LAB SCINTILLATION COCKTAILS Disposition: Incinerated at WERF. No waste currently in storage (no backlog) and waste is not projected to be generated. | 5/28/96 |
| ID-TRA-157 | TRA WARM WASTE POND SAMPLES Disposition: Treated and no longer generated. | 4/21/04 |
| ID-TRA-210 | FREON DECON WASTE Disposition: Incinerated at WERF. No waste currently in storage (no backlog) and waste is not projected to be generated. | 10/30/96 |
| ID-TRA-214 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE Disposition: Incinerated at WERF. No waste currently in storage (no backlog) and waste is not projected to be generated. | 5/28/96 |

INL Site Treatment Plan

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|-----------------|---|------------------|
| ID-TRA-251 | ELECTROPLATING SOLUTION Disposition: Consumed in a treatability study. No waste currently in storage (no backlog) and waste is not projected to be generated. | 2/24/97 |
| ID-TRA-252 | FREON SLUDGE Disposition: Incinerated at WERF. No waste currently in storage (no backlog) and waste is not projected to be generated. | 10/30/96 |
| ID-TRA-253 | CADMIUM FUEL GRID Disposition: Treated and no longer generated. | 4/21/04 |
| ID-TRA-269 | ELECTRONIC BOARD & MISC. MACHINERY Disposition: Treated and no longer generated. | 10/27/04 |
| ID-TRA-281 | ETR NONCOMPACTIBLE LEAD Disposition: Treated and no longer generated. | 1/21/04 |
| ID-TRA-282 | MTR D&D NONCOMPACTIBLE LEAD Disposition: Treated and no longer generated. | 1/21/04 |
| ID-TRA-294 | SOLVENT-CONTAMINATED RAGS Disposition: Waste moved to new Waste Stream Identifier (ID-INL-803). | 1/19/05 |
| ID-TRA-525 | SOLVENT EXTRACTANTS Disposition: Treated and no longer generated. | 1/21/04 |
| ID-TRA-526 | RADIOACTIVE METALS (Cr, Cd, Pb, Ba, etc.) Disposition: Waste stream will not be generated. | 10/23/13 |
| ID-TRA-536 | ELEMENTAL Hg CONTAMINATED W/ RAD MATERIAL Disposition: Treated by Generator Treatment Plan. No waste currently in storage (no backlog) and the waste is not projected to be generated. | 5/28/96 |
| ID-TRA-667 | PCB ACID DIGESTION RESIDUE Disposition: Treated and no longer generated. | 10/27/04 |
| ID-TRA-693 | LEAD-CONTAMINATED PAINT CHIPS Disposition: Treated and no longer generated. | 10/27/04 |
| ID-TRA-704 | ARMF AND CFRMF COMPONENTS AND SHIELDING Disposition: Treated and no longer generated. | 4/21/04 |
| ID-TRA-707 | NITRIC ACID FROM TMI FUEL FINES Disposition: Treated and no longer generated. | 10/31/10 |
| KA-W001 | MISC. LABORATORY CHEMICALS W/O METALS Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| KA-W002 | CUTTING OILS AND LIQUIDS Disposition: Alternative treatment technology. | 1/24/01 |
| KA-W003 | TRICHLOROETHYLENE Disposition: Treated and no future generation of this waste stream. | 10/29/97 |
| KA-W006 | FREON 113 ON RAGS Disposition: Treated with no future generation of this waste stream. | 10/29/97 |
| KA-W007 | OILS Disposition: Alternative treatment technology. | 1/24/01 |

INL Site Treatment Plan

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|-----------------|--|------------------|
| KA-W009 | ORGANIC DEBRIS Disposition: Alternative treatment technology. | 1/24/01 |
| KA-W011 | ELEMENTAL LEAD Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| KA-W013 | ORGANIC DEBRIS W/O METALS Disposition: Alternative treatment technology. | 1/24/01 |
| KA-W014 | ORGANIC SLUDGE AND PARTICULATES Disposition: Alternative treatment technology. | 1/24/01 |
| KA-W015 | SOILS Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| KA-W018 | Hg-CONTAMINATED ORGANICS Disposition: Alternative treatment technology. | 1/24/01 |
| KA-W019 | Hg-CONTAMINATED INORGANICS Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| KA-W020 | ELEMENTAL Hg Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| KA-W021 | PCB-CONTAMINATED WASTE Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| KA-W022 | PCB-CONTAMINATED WASTE (Nonincinerable) Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| KK-W003 | OILS Disposition: Alternative treatment technology. | 1/24/01 |
| KK-W004 | MISC. LABORATORY CHEMICALS W/O METALS Disposition: Alternative treatment technology. | 1/24/01 |
| KK-W005 | ORGANIC DEBRIS CONTAINING HEAVY METALS Disposition: Alternative treatment technology. | 1/24/01 |
| KK-W008 | ORGANIC SLUDGES/PARTICULATES Disposition: Alternative treatment technology. | 1/24/01 |
| KK-W009 | ORGANIC DEBRIS WITHOUT METALS Disposition: Alternative treatment technology. | 1/24/01 |
| KK-W010 | LEAD BRICKS, SHEETS, OR WOOL Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| KK-W011 | CUTTING OILS AND LIQUIDS Disposition: Alternative treatment technology. | 1/24/01 |
| KK-W013 | SOILS Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| KK-W014 | Hg-CONTAMINATED ORGANICS Disposition: Alternative treatment technology. | 1/24/01 |
| KK-W015 | Hg-CONTAMINATED INORGANICS Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |

INL Site Treatment Plan

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|-----------------|--|------------------|
| KK-W016 | ELEMENTAL Hg Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| KK-W017 | PCB-CONTAMINATED WASTE Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| KK-W018 | PCB-CONTAMINATED WASTE (Nonincinerable) Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| KW-W001 | OILS Disposition: Waste is not expected to be generated. This waste will not be received at the INL. | 5/14/97 |
| KW-W003 | ORGANIC DEBRIS Disposition: Alternative treatment technology. | 1/24/01 |
| KW-W006 | ORGANIC SLUDGES/PARTICULATES Disposition: Alternative treatment technology. | 1/24/01 |
| KW-W008 | MISCELLANEOUS LABORATORY CHEMICALS Disposition: Waste stream deleted per generator update. | 10/27/99 |
| KW-W009 | SOILS Disposition: Waste stream deleted per generator update. | 10/27/99 |
| KW-W010 | Hg-CONTAMINATED ORGANICS Disposition: Waste stream deleted per generator update. | 10/27/99 |
| KW-W011 | Hg-CONTAMINATED INORGANICS Disposition: Waste stream deleted per generator update. | 10/27/99 |
| KW-W012 | ELEMENTAL Hg Disposition: KAPL - Windsor no longer expects to generate this waste. This waste will not be received at the INL. | 5/28/96 |
| KW-W014 | PCB-CONTAMINATED WASTE Disposition: Waste streams treated and disposed of. Waste will not be generated again. | 10/19/05 |
| LA-W901 | IPA WASTES Disposition: Waste stream treated and residuals sent to Envirocare. | 3/4/97 |
| LA-W902 | SCINTILLATION VIALS Disposition: Waste stream treated and residuals sent to Envirocare. | 3/4/97 |
| LA-W903 | LEAD BLANKETS Disposition: Was sent to Envirocare for treatment and disposal. Waste not received at the INL. April Quarterly Meeting. | 5/14/97 |
| LA-W904 | SOIL WITH HEAVY METALS Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LA-W905 | ER SOILS Disposition: Was sent to Envirocare for treatment and disposal. Waste not received at the INL. April Quarterly Meeting. | 5/14/97 |
| LA-W906 | AQUEOUS ORGANIC WASTES Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |

INL Site Treatment Plan

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|-----------------|--|------------------|
| LA-W907 | HALOGENATED ORGANIC LIQUIDS Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LA-W908 | NONHALOGENATED ORGANIC LIQUIDS Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LA-W909 | BULK OILS Disposition: Alternative treatment technology. | 1/24/01 |
| LA-W910 | PCB WASTES WITH RCRA COMPONENTS Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LA-W911 | ORGANIC-CONTAMINATED COMBUSTIBLE SOLIDS Disposition: Alternative treatment technology. | 1/24/01 |
| LA-W912 | COMBUSTIBLE DEBRIS Disposition: Alternative treatment technology. | 1/24/01 |
| LA-W913 | AQUEOUS WASTES WITH HEAVY METALS Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LA-W914 | CORROSIVE SOLUTIONS Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LA-W915 | AQUEOUS CYANIDES, NITRATES, CHROMATES Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LA-W916 | WATER-REACTIVE WASTES Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LA-W919 | ORGANIC-CONTAMINATED NONCOMBUSTIBLE Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LA-W920 | ELEMENTAL MERCURY Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LA-W921 | ACTIVATED OR INSEPARABLE LEAD Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LA-W922 | NONCOMBUSTIBLE DEBRIS Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LA-W923 | INORGANIC SOLID OXIDIZERS Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LA-W925 | MERCURY WASTES – TBD Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LA-W929 | NONRADIOACTIVE AND SUSPECT WASTE ITEMS Disposition: Alternative treatment technology. | 1/24/01 |
| LA-W930 | SURFACE-CONTAMINATED LEAD Disposition: Will be sent to Envirocare under the Mixed Waste Focus Area Cooperative Agreement. This waste will not be received at the INL. | 10/30/96 |
| LA-W931 | LEAD REQUIRING SORTING Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |

INL Site Treatment Plan

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|-----------------|---|------------------|
| LANL-ER-1 | TA-35 TANK D&D WASTE Disposition: Alternative treatment technology. | 1/24/01 |
| LB-CC-116 | ORGANIC SOLIDS Disposition: Alternative treatment technology. | 1/24/01 |
| LB-CC-118 | LAB-PACKED CHEMICALS Disposition: Alternative treatment technology. | 1/24/01 |
| LB-CC-120 | PUMP OIL Disposition: Alternative treatment technology. | 1/24/01 |
| LB-CC-124 | CONTAMINATED DEBRIS Disposition: Alternative treatment technology. | 1/24/01 |
| LB-CC-125 | ORGANIC LIQUIDS Disposition: Alternative treatment technology. | 1/24/01 |
| LB-CC-126 | WASTE CONTAINING OIL Disposition: Alternative treatment technology. | 1/24/01 |
| LB-W001 | ACIDIC AQUEOUS AND SOLID LAB PACKS Disposition: Alternative treatment technology. | 1/24/01 |
| LB-W002 | BASIC AQUEOUS LIQUIDS - LOW ALPHA Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LB-W004 | ORGANIC LIQUIDS AND SOLIDS: LAB PACKED Disposition: Alternative treatment technology. | 1/24/01 |
| LB-W005 | BLOCK & SHEET Pb-INDUCED & SURFACE CONTAM. Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LB-W006 | LIQUID-INDUCED MERCURY Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LB-W007 | SCINTILLATION FLUIDS Disposition: Alternative treatment technology. | 1/24/01 |
| LB-W008 | AQUEOUS AND SOLID CHEMICAL OXIDIZERS LAB Disposition: Alternative treatment technology. | 1/24/01 |
| LB-W009 | SOLIDS OR CONTAMINATED DEBRIS Disposition: Alternative treatment technology. | 1/24/01 |
| LB-W011 | ACIDIC AQUEOUS SOLUTIONS/SOLIDS W/ METALS Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LB-W012 | BASIC SOLIDS W/ METALS - HIGH ALPHA Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LB-W014 | LIQUIDS/SOLIDS CONTAINING SOLVENTS & OIL Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LB-W017 | ORGANIC SCINTILLATION FLUIDS Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LB-W018 | AQUEOUS/SOLID OXIDIZERS Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |

INL Site Treatment Plan

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|-----------------|---|------------------|
| LB-W019 | DEBRIS CONTAMINATED w/ ORGANIC VOLATILES Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LB-W101 | AQUEOUS ORGANIC LIQUID Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LB-W124 | VERMICULITE W/ OIL-SOLVENTS Disposition: Alternative treatment technology. | 1/24/01 |
| LBNL-CC-114 | CYANIDE SOLUTION Disposition: Alternative treatment technology. | 1/24/01 |
| LL-W003 | LOW-LEVEL MIXED INORGANIC TRASH-1 Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LL-W006 | LOW-LEVEL MIXED SCRAP METAL Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LL-W007 | ELEMENTAL LEAD Disposition: Has or will be treated by another site. Will not be received at the INL. | 4/27/99 |
| LL-W015 | INORGANIC DEBRIS Disposition: Alternative treatment technology. | 1/24/01 |
| LL-W017 | LOW-LEVEL MIXED INORGANIC TRASH-3 Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LL-W021 | LAB PACKS WITH METALS Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LL-W024 | LIQUID MERCURY WASTE Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LLNL-CC-01 | CONTAMINATED OIL Disposition: Alternative treatment technology. | 1/24/01 |
| MD-W021 | OIL-CONTAMINATED FLORCO Disposition: Alternative treatment technology. | 1/24/01 |
| MD-W023 | SCINTILLATION COCKTAIL CONTAMIN. FLORCO Disposition: Alternative treatment technology. | 1/24/01 |
| MD-W024 | SCINTILLATION COCKTAIL CONTAMIN. TRASH Disposition: Alternative treatment technology. | 1/24/01 |
| MI-W001 | SOLID WASTE WITH HEAVY METALS Disposition: Waste was shipped off-Site for disposal. | 10/31/03 |
| MI-W002 | SOLIDIFIED SOLUTION WITH HEAVY METALS Disposition: Treated and no longer generated. | 4/21/04 |
| MI-W003 | PAINT CHIPS W/ HEAVY METALS Disposition: Treated and no longer generated. | 4/21/04 |
| MI-W004 | EQUIPMENT CONTAINING THALLIUM Disposition: Treated and no longer generated. | 4/21/04 |

INL Site Treatment Plan

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|-----------------|--|------------------|
| MI-W005 | SOLID WASTE WITH PETROLEUM PRODUCTS Disposition: Waste will be sent to SEG as nonhazardous waste. This waste stream will not be received at the INL. | 2/12/96 |
| MI-W007 | LEAD BRICKS, SHEETS, WOOL, SCRAPINGS 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. | 2/24/97 |
| MI-W008 | BRASS AND BRONZE Disposition: Waste was shipped off-Site for disposal. | 10/31/03 |
| MI-W009 | SOLID WASTE WITH CORROSIVES Disposition: This waste stream was determined to be nonhazardous by Mare Island personnel. This waste will not be received at the INL. | 2/12/96 |
| MI-W010 | BATTERIES AND FILM PACKS WITH MERCURY Disposition: Treated and no longer generated. | 4/21/04 |
| MI-W011 | MATERIALS CONTAINING PCBs Disposition: Treated and no longer generated. | 4/21/04 |
| MI-W012 | COMBUSTIBLE DEBRIS Disposition: This waste stream was determined to be nonhazardous by Mare Island personnel. This waste will not be received at the INL. | 2/12/96 |
| MI-W013 | ORGANIC PROCESS RESIDUES Disposition: This waste stream was determined to be nonhazardous by Mare Island personnel. This waste will not be received at the INL. | 2/12/96 |
| MI-W014 | INORGANIC DEBRIS W/ HEAVY METALS W/O Hg Disposition: Waste was shipped off-Site for disposal. | 10/31/03 |
| MU-W001 | MIXED LOW-LEVEL WASTE Disposition: Alternative treatment technology. | 1/24/01 |
| NA-W001 | SOLID WASTE WITH HEAVY METALS Disposition: Alternative treatment technology. | 1/24/01 |
| NA-W005 | ELEMENTAL LEAD SHIELDING Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| NN-W001 | LEAD/CHROMIUM-BASED PAINT CHIPS Disposition: Sent to Hanford for treatment. Waste not received at the INL. | 5/14/97 |
| NN-W002 | ORGANIC WASTE WITH HEAVY METALS Disposition: Alternative treatment technology. | 1/24/01 |
| NN-W003 | DEBRIS WITH HEAVY METALS Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| NN-W011 | DEBRIS/SLUDGE CONT. W/ METALS/LISTED/ORG. Disposition: Alternative treatment technology. | 1/24/01 |
| NR-NRF-117 | CADMIUM SHEETS Disposition: Treated and no longer generated. | 1/21/04 |

INL Site Treatment Plan

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|-----------------|---|------------------|
| NR-NRF-142 | LEAD-CONTAMINATED DEBRIS Disposition: Treated and no longer generated. | 10/27/04 |
| NR-NRF-143 | RADIOACTIVE-CONTAMINATED LEAD (NRF) Disposition: Treated and no longer generated. | 10/27/04 |
| NR-NRF-190 | LEAD FILINGS Disposition: Treated and no longer generated. | 4/21/04 |
| NR-NRF-514 | PAINT CHIPS Disposition: Treated and no longer generated. | 10/27/04 |
| NR-NRF-515 | LIQUID MERCURY Disposition: Treated and no longer generated. | 1/21/04 |
| NR-NRF-517 | OIL WITH HEAVY METALS Disposition: Treated and no longer generated. | 4/21/04 |
| NR-NRF-518 | WATER WITH HEAVY METALS Disposition: Treated and no longer generated. | 4/21/04 |
| NR-NRF-520 | BRASS AND BRONZE Disposition: Treated and no longer generated. | 4/21/04 |
| NR-NRF-665 | PAINT CHIPS W/ PCB AND RCRA Disposition: Waste moved to new Waste Stream Identifier (ID-INL-804). | 1/19/05 |
| NR-NRF-703 | CORROSIVE LIQUIDS WITH HEAVY METALS Disposition: Treated and no longer generated. | 1/21/04 |
| PA-F030 | LEAD-CONTAMINATED DEBRIS Disposition: Alternative treatment technology. | 1/24/01 |
| PA-G001 | FLAMMABLE MATERIALS/PAINTS Disposition: Alternative treatment technology. | 1/24/01 |
| PA-K038 | SPENT SOLVENT SOLIDS/WOOD Disposition: Alternative treatment technology. | 1/24/01 |
| PA-L038 | SOFT COMBUSTIBLE DEBRIS Disposition: Alternative treatment technology. | 1/24/01 |
| PA-M038 | SOFT COMBUSTIBLE DEBRIS Disposition: Alternative treatment technology. | 1/24/01 |
| PA-W003 | WASTE MINERAL SPIRITS PAINT WASTE Disposition: Alternative treatment technology. | 1/24/01 |
| PA-W003 | USE PAINT WASTE SOLIDS Disposition: Alternative treatment technology. | 1/24/01 |
| PH-W002 | LIQUID CONTAINING 1,1,1-TRICHLOROETHANE Disposition: Treated with no future generation of this waste stream. | 10/29/97 |
| PH-W004 | ORGANIC WASTE Disposition: Alternative treatment technology. | 1/24/01 |
| PH-W006 | ELEMENTAL LEAD Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |

INL Site Treatment Plan

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|-----------------|--|------------------|
| PN-W015 | SOLIDS CONTAM. WITH POTASSIUM CHROMATE Disposition: Alternative treatment technology. | 1/24/01 |
| PO-W006 | WASTE HG, METALLIC Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| PO-W008 | MOTOR CLEANING SOLUTION Disposition: Waste stream deleted per generator update. | 10/27/99 |
| PO-W012 | URANIUM RECOVERY SOLVENT Disposition: Alternative treatment technology. | 1/24/01 |
| PO-W013 | CHROMIC CLOSURE WASTE Disposition: Alternative treatment technology. | 1/24/01 |
| PO-W028 | LAB WASTE Disposition: Alternative treatment technology. | 1/24/01 |
| PO-W029 | WASTE ANTIFREEZE Disposition: Alternative treatment technology. | 1/24/01 |
| PO-W040 | ACETONE STILL BOTTOMS Disposition: Alternative treatment technology. | 1/24/01 |
| PO-W048 | GAS ANALYZER SOLUTIONS Disposition: Alternative treatment technology. | 1/24/01 |
| PO-W057 | SOLVENTS Disposition: Alternative treatment technology. | 1/24/01 |
| PO-W058 | ACTIVATED CARBON SLUDGE Disposition: Alternative treatment technology. | 1/24/01 |
| PO-W061 | MERCURY SOLIDS Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| PO-W077 | NEAT TCE Disposition: Alternative treatment technology. | 1/24/01 |
| PO-W078 | DIESEL FUEL, GASOLINE, KEROSENE Disposition: Alternative treatment technology. | 1/24/01 |
| PS-W001 | ORGANIC DEBRIS WITH HEAVY METALS Disposition: Alternative treatment technology. | 1/24/01 |
| PS-W004 | LIQUID WITH F-LISTED SOLVENTS Disposition: Treated with no future generation of this waste stream. | 10/29/97 |
| PS-W005 | DEBRIS WITH F-LISTED SOLVENTS Disposition: Treated with no future generation of this waste stream. | 10/29/97 |
| PS-W006 | SOLIDIFIED LIQUID WITH F-LISTED SOLVENTS Disposition: Waste was determined to meet LDR standards. Waste not received at the INL. April Quarterly Meeting. | 5/14/97 |
| PS-W007 | DEBRIS WITH HEAVY METALS AND PCBS Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |

INL Site Treatment Plan

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|-----------------|--|------------------|
| PS-W009 | PAINT THINNER WITH BUTYL ALCOHOL Disposition: This waste stream will not be received at the INL. April Quarterly Meeting. | 5/14/97 |
| PS-W011 | DEBRIS W/ HEAVY METALS & F-LISTED SOLVENT Disposition: This waste will not be received at the INL. April Quarterly Meeting. | 5/14/97 |
| PS-W012 | PAINT CHIPS WITH HEAVY METALS AND PCBS Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| PS-W013 | ELEMENTAL LEAD Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| PS-W019 | FILTERS W/ ASBESTOS AND DIOCTYL PHTHALATE Disposition: This waste is no longer regulated due to revisions in state regulations. This waste will not be received at the INL. | 5/28/96 |
| PS-W020 | COMPRESSED FILTER MEDIA W/ DIOCTYL PHTHAL Disposition: This waste is no longer regulated due to revisions in state regulations. This waste will not be received at the INL. | 5/28/96 |
| PX-6.1 | SOLVENT AND HEAVY METAL CONTAMIN. DEBRIS Disposition: Alternative treatment technology. | 1/24/01 |
| PXSTP#-2.1 | WASTE WATER Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| PXSTP#-6.2 | INORGANIC DEBRIS; CONTAMINATED Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| RF-W017 | PCB LIQUIDS/LLM Disposition: Waste stream deleted per generator update. | 10/27/99 |
| RF-W027 | PAINTS/LLM Disposition: Waste stream deleted per generator update. | 10/27/99 |
| RF-W049 | MISCELLANEOUS LIQUIDS/LLM Disposition: Waste stream deleted per generator update. | 10/27/99 |
| RF-W071-GAC | GRANULATED-ACTIVATED CARBON Disposition: Alternative treatment technology. | 1/24/01 |
| RF-W083 | EXCESS CHEMICALS ORGANOMETALLIC LAB PACK Disposition: Waste stream deleted per generator update. | 10/27/99 |
| RF-W085 | EXCESS CHEMICALS NON-LABPACKS W/D009/LLM Disposition: Waste stream deleted per generator update. | 10/27/99 |
| RF-W086 | EXCESS CHEMICALS NON-LAB PACKS-OTHER/LLM Disposition: Waste stream deleted per generator update. | 10/27/99 |
| RL-601-01 | MIXED WASTE DEBRIS Disposition: Alternative treatment technology. | 1/24/01 |
| RL-AL0 | ORGANIC ABSORBED LIQUIDS Disposition: Alternative treatment technology. | 1/24/01 |
| RL-LPO | ORGANIC LAB PACKS Disposition: Alternative treatment technology. | 1/24/01 |

INL Site Treatment Plan

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|-----------------|--|------------------|
| RP-W001 | NE FAST REACTOR PHYSICS SODIUM Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| SA-TG-7 | ORGANIC LIQUIDS/SCINTILLATION COCKTAILS Disposition: Alternative treatment technology. | 1/24/01 |
| SA-TG-8/10 | ORGANIC DEBRIS W/ SOLVENTS/HETER DEBRIS Disposition: Alternative treatment technology. | 1/24/01 |
| SA-TG-11 | ORGANIC LIQUIDS 11: OILS Disposition: Alternative treatment technology. | 1/24/01 |
| SA-TG-12 | ORGANIC DEBRIS W/ TCLP METALS Disposition: Alternative treatment technology. | 1/24/01 |
| SA-TG-17-A | ABSORBED MACHINE OILS Disposition: Alternative treatment technology. | 1/24/01 |
| SA-TG-18 | PARTICULATES W/ ORGANIC CONTAMINANTS Disposition: Alternative treatment technology. | 1/24/01 |
| SR-W014 | TRITIATED MERCURY Disposition: Has or will be treated by another site. Will not be received at the INL. | 4/27/99 |
| SR-W049 | TANK E-3-1 CLEAN OUT MATERIAL Disposition: Waste was treated at another DOE site and will not be received at the INL. | 1/27/99 |
| SR-W068 | LIQUID ELEMENTAL MERCURY Disposition: Has or will be treated by another site. Will not be received at the INL. | 4/27/99 |
| WS-W005 | 2 4 D POWDER/CONTAMINATED SOLIDS Disposition: Waste is being treated on the Weldon Springs site and will not come to the INL. | 11/16/98 |
| WS-W030 | PAINT SLUDGE Disposition: Waste is being treated at the Weldon Springs site and will not come to the INL. | 11/16/98 |
| WS-W044 | PAINT WASTE WITH MERCURY Disposition: Waste is being treated at the Weldon Springs site and will not come to the INL. | 11/16/98 |
| WS-W052 | SLUDGE WITH D040 Disposition: Waste is being treated at the Weldon Springs site and will not come to the INL. | 11/16/98 |
| WS-WITS-4847 | ORGANIC WASTE WATER Disposition: Waste is being treated at the Weldon Springs site and will not come to the INL. | 11/16/98 |
| WS-WITS-6311 | CONSOLIDATED OILS Disposition: Waste is being treated at the Weldon Springs site and will not come to the INL. | 11/16/98 |

INL Site Treatment Plan

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|-----------------|--|------------------|
| WS-WITS-6435 | UTS SLUDGE Disposition: Waste is being treated on the Weldon Springs site and will not come to the INL. | 11/16/98 |
| WV-W003 | ORGANIC EXTRACTION WASTE Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W005 | DECON SOLUTION Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W006 | Pu SCINTILLATION (nCi/G) Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W007 | PYRIDINE/CYANIDE WASTE Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W008 | OIL WITH MERCURY Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W009 | METHANOL Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W010 | PAINT Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W012 | PAINT W/ METALS Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W014 | Sr ORGANIC WASTE Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W016 | R&D TOLUENE Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W017 | Tc AQUEOUS WASTE Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W018 | DU-SQUEEZE Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W021 | IGNITABLE ORGANIC LIQUIDS Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W022 | SPENT DEGREASER Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W025 | CAUSTIC WASTE Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W027 | OXIDIZERS Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W029 | IMMERSION BUCKET SOLUTION Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W030 | AQUEOUS LAB WASTE Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W032 | INGITABLE CHEMICAL PRODUCTS Disposition: Alternative treatment technology. | 1/24/01 |

INL Site Treatment Plan

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|-----------------|---|------------------|
| WV-W033 | IGNITABLE METAL WASTE Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W034 | ACIDIC AQUEOUS WASTE Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W037 | DECONTAMINATED SUPERNATANT Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W042 | ORGANIC SLUDGES Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W043 | IGNITABLE LIQUIDS Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W044 | IGNITABLE ORGANIC LIQUIDS Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W047 | INORGANIC SLUDGES Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W053 | SODIUM BOROXYDRIDE Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W054 | CORROSIVE/FLAMMABLE LIQUIDS Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W056 | REACTIVES Disposition: Alternative treatment technology. | 1/24/01 |

1

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 2.2.2.2.3. 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]

INL Site Treatment Plan

Table 5-1. Milestones/Planning Dates for Mixed Wastes with Existing Treatment Technologies.

| Facility | Assumptions | Schedule |
|--|-------------|--|
| SBW Treatment Facility (liquid sodium waste) | | P-1, Transmit Permit Modification Request and/or Temporary Authorization 4Q 2008 (Completed) P-2, Procure Contracts (Completed) P-3, Initiate Construction (Completed) P-4, Commence Full-Scale System Testing (Completed) P-5, Commence Operations: 4Q 2016 (9/30/16) P-6, Schedule for System Backlog (Completed) |
| Remote-Handled Waste Disposition Project (sodium-contaminated waste) | | P-1, Submit Part B (Completed) P-2, Procure Contracts: N/A P-3, Initiate Construction: N/A P-4, Commence System Testing (Completed) P-5, Commence Operations (Completed) P-6, Schedule for System Backlog: 1Q 2016 (12/31/15) |
| Calcine Disposition Project | | P-1, Submit Part B (Completed) P-2, Procure Contracts: 4Q 2019 (9/30/19) P-3, Initiate Construction: 4Q 2020 (9/30/20) P-4, Conduct System Testing: 2Q 2023 (3/31/23) P-5, Commence Operation: 2Q 2024 (3/31/24) P-6, Schedule for System Backlog: 3Q 2024 (6/30/24) |

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

INL Site Treatment Plan

- 1 • **P-6, Schedule for System Backlog:** The date on which the INL submits a schedule after
2 commencing operation identifying time required for processing waste currently in storage. This
3 includes waste in storage at the INL.
4
- 5 • **S-1, State Action:** Estimated date of approved Part B. This date is not a milestone or planning
6 date.
7

8 **5.2 Schedules for Treatment Facilities for Which Technology** 9 **Exists but Needs Adaptation,** 10 **or for Which No Technology Exists**

11 (Reserved - Currently, no waste streams are identified for treatment.)

12 Facilities for which technology exists, but which needs adaptation, or for which no technology exists.

13 (Reserved)
14

15
16 Schedules for the modification or development of needed technologies, for mixed waste streams
17 for which technology exists but needs some modification to be applicable to INL waste streams, or for
18 which technology development is needed and have been developed for the treatment facilities that will
19 treat these mixed waste streams. Section 5.2.2 presents the schedules for these planned treatment
20 technologies.
21

22 **5.2.1 Mixed Waste to be Treated by Planned Facilities**

23
24 Waste streams identified to be treated in the individual facilities in this section are found in
25 Table 6-1 of this STP.
26

27 **5.2.1.1 General Assumptions for Planned Facility Schedules**

28
29 (Reserved - Currently, no waste streams are identified for treatment that require treatment development.)
30

31 **5.2.1.2 General Milestone and Planning Date Descriptions.** The following are general
32 descriptions for milestones and planning dates for planned facilities identified in this section. Specific
33 descriptions of milestones and planning dates that differ from the general descriptions are identified in the
34 individual facility section.
35

- 36 • **P-0, Define Project:** The date on which system analysis, private-sector evaluation, or other
37 appropriate studies, including the use of mobile treatment units have been completed and an
38 appropriate method(s) of providing treatment or waste management in accordance with LDR
39 requirements can be proposed to the State of Idaho.

INL Site Treatment Plan

- 1
- 2 • **P-1, Identify Funding Requirements:** The date on which the cost and schedule for spending
- 3 funds are submitted in an Activity Data Sheet to DOE-HQ for the identification and development
- 4 of technology.
- 5
- 6 • **P-2, Identify and Develop Technology:** The date on which technologies are identified and
- 7 incorporated into the conceptual design.
- 8
- 9 • **P-3, Submit Treatability Study Notification:** The date on which the DEQ is notified that
- 10 treatability studies are required to assist in the development of treatment technology for a
- 11 specified technology and will be performed pursuant to the exemption in 40 CFR 261.4(e) and
- 12 (f).
- 13
- 14 • **P-4, Submit R&D Permit Applications:** The date on which the research and development
- 15 (R&D) permit application is submitted to the DEQ.
- 16
- 17 • **P-5, Schedule for Table 5-1 Milestones:** The date on which the Table 5-1 milestones are
- 18 submitted to the DEQ for inclusion in the approved STP.
- 19
- 20 • **P-6, Proposal for Feasibility Study:** The date on which DOE solicits proposals for feasibility
- 21 studies.
- 22
- 23 • **P-7, Submit RCRA Part B Application:** The date on which the INL presents the RCRA Part B
- 24 submittal to the DEQ for approval.
- 25

26 5.2.2 Facility-Specific Schedules

27
28 Table 5-2 (Reserved).

30 5.3 Schedules for Mixed Waste Streams Planned for 31 Treatment Off-Site

32
33 (Reserved - Currently, no waste streams are identified for off-Site treatment that require treatment
34 development.)

35

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

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

5.3.2 General Milestone and Planning Date Descriptions

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

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

5.3.3 Facility-Specific Schedules

Table 5-3 (Reserved).

INL Site Treatment Plan

5.4 Mixed Transuranic-Contaminated Waste Shipped to WIPP

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) is mixed waste containing between 10 and 100 nCi of alpha-emitting transuranic isotopes per gram 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.^f 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:^g

1. Commencing in FY 2006, DOE agrees to process a cumulative average of 4,500 cubic meters of original volume of TRU-contaminated waste per year (waste listed in Table 4-2) through the AMWTP or other facility as follows:
 - (a) DOE may count the waste as processed toward the annual 4,500 cubic meters requirement once DOE has either: (1) certified the waste for disposal at the WIPP, or (2) declared that the waste will be managed as MLLW or LLW.
 - (b) When the total volume of a mixed waste stream in Table 4-2 has been certified for disposal at WIPP, it may be deleted from the STP under Section 2.7.1, "Deletion of Waste Streams." When deleted, the waste stream will be included in Table 4-6, "Deleted Waste Streams."

f. 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.

g. 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.

INL Site Treatment Plan

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

8
9 2. The term "cumulative average" as used in this section means the amount of waste required to be
10 processed annually (4,500 cubic meters) multiplied by the number of years starting in FY 2006.
11 For example, by FY 2010, DOE must have processed 22,500 cubic meters of original volume of
12 TRU-contaminated waste (5 years times 4,500 cubic meters). The amount of waste processed in
13 any year in excess of the required amount may be applied toward the cumulative average in
14 subsequent years.

15
16 3. The term "original volume" as used in this section means the waste volume prior to processing
17 that is identified in Table 4-2, "Transuranic Waste Streams Designated for WIPP."

18
19 Nothing in this STP affects or modifies the obligations and remedies in the October 17, 1995,
20 Settlement Agreement and Court Order. The INL facilities to treat MTRU contaminated waste include the
21 RWDP (at CPP-659 and CPP-666), AMWTP Treatment Plant, and the ARP V Repackaging Facility.
22
23

5.4a Processing of Newly Generated Mixed Transuranic-Contaminated Waste

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

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

INL Site Treatment Plan

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 2.2.2.2.3. 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 Tables 5-4a 5-4b.

Table 5-4a. Milestones for Treatment of Waste Backlog Per Treatment Unit.

| Facility | FY-16 (m ³) | FY-17 (m ³) | FY-18 (m ³) |
|--|----------------------------|----------------------------|----------------------------|
| Sodium Component Maintenance Shop | 0 | 2 | 2 |
| Commercial Treatment | 10 | 10 | 10 |
| Original Volume Transuranic-Contaminated Waste ^a Carryover from FY-15 = 3,768 m ³ | 4,500 | 4,500 | 4,500 |
| NOTE: ID-AMWTP-100Ta was added to the STP, and a commitment was made to DEQ to treat the waste by 1Q 2020. | | | |

Table 5-4b. Milestone for Treatment of Waste Backlog in Sodium-Bearing Waste Treatment Facility.

| Facility | FY-16 (%) | FY-17 (%) | FY-18 (%) |
|--|--------------|--------------|--------------|
| Sodium-Bearing Waste Treatment Facility (IWTU) | 0 | 30 | 70 |
| NOTE: The volume to be treated is based on current tank volume of 846,700 gallons. The 70% volume, in FY-18, is a cumulative volume due June 30, 2018. | | | |

INL Site Treatment Plan

1

6. WASTE STREAM TREATMENT PLANS

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

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

INL Site Treatment Plan

1 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 | | | |
| <i>INL waste streams:</i> | | | |
| BN510 | BOX AND BIN VOLUME | CH-ANL-505T | ALHC UPGRADE DECON DEBRIS |
| CH-ANL-505Ta | MTRU CONTACT HANDLED | CH-ANL-553 | WCA MIXED WASTE |
| ID-AEO-100T | GENERAL PLANT WASTE | ID-AEO-101T | CUT UP GLOVEBOXES |
| ID-AEO-102T | ABSORBED LIQUIDS | ID-AEO-105T | EMPTY BOTTLES AND ABSORBENTS |
| ID-AEO-106T | SPECIAL SOURCE MATERIAL | ID-AEO-107T | REMOTE-HANDLED WASTE |
| ID-AEO-110T | RESEARCH-GENERATED WASTE COMPACTIBLE & COMBUSTIBLE | ID-AEO-120T | COMPACTIBLE AND COMBUSTIBLE WASTE |
| ID-AMWTP-100 | MIXED WASTE INCIDENTAL TO PROCESSING | ID-AMWTP-100Ta | MTRU INCIDENTAL TO PROCESSING |
| ID-ANL-161 | ANL-W ANALYTICAL CHEMISTRY LAB GLASSWARE | ID-ANL-162T | ANL-W FMF EFL Zr-U FUEL CASTING ALLOYS |
| ID-ANL-163T | ANL-W ACL COLD-LINE ABSORBED LIQUID, MIS. | ID-BCO-201T | NONCOMBUSTIBLE SOLIDS |
| ID-BCO-202T | COMBUSTIBLE SOLIDS | ID-BCO-203T | PAPER, METALS, GLASS |
| ID-BCO-204T | SOLIDIFIED SOLUTIONS | ID-BTO-010T | RAGS, GLOVES, POLY. |
| ID-BTO-020T | NONCOMPRESSIBLE, NONCOMBUSTIBLE | ID-BTO-030T | SOLIDIFIED GRINDING SLUDGE, ETC. |
| ID-BTO-040T | SOLID BINARY SCRAP POWDER, ETC. | ID-INL-150T | LABORATORY WASTE |
| ID-INL-155T | SCRAP | ID-INL-157T | MISCELLANEOUS SOURCES |
| ID-MDO-801T | RAGS, PAPER, WOOD, ETC. | ID-MDO-802T | DRY BOX GLOVES AND O-RINGS |
| ID-MDO-803T | METAL, EQUIPMENT, PIPES, VALVES, ETC. | ID-MDO-805T | ASBESTOS FILTERS |
| ID-MDO-810T | GLASS, FLASKS, SAMPLE VIALS, ETC. | ID-MDO-811T | EVAPORATOR AND DISSOLVER SLUDGE |
| ID-MDO-813T | GLASS FILTERS AND FIBERGLASS | ID-MDO-814T | CONTAMINATED MERCURY OR GRAPHITE CRUCIBLE |
| ID-MDO-815T | CLASSIFIED PARTS | ID-MDO-824T | NONCOMBUSTIBLE EQUIPMENT BOXES |
| ID-MDO-826T | COMBUSTIBLE EQUIPMENT BOXES OR FLOOR SW | ID-MDO-827T | COMBUSTIBLE EQUIPMENT DRUMS |
| ID-MDO-834T | HIGH-LEVEL ACID | ID-MDO-835T | HIGH-LEVEL CAUSTIC |
| ID-MDO-836T | HIGH-LEVEL SLUDGE/CEMENT | ID-MDO-838 | <10 nCi/g NONCOMBUSTIBLE |
| ID-MDO-842T | CONTAMINATED SOIL | ID-MDO-847T | LOW SPECIFIC ACTIVITY (<100 nCi/g) COMB. |
| ID-MDO-848T | LOW SPECIFIC ACTIVITY (<100 nCi/g) NONC. | ID-OFS-111T | RESEARCH-GENERATED WASTE NONCOMPACTIBLE |
| ID-OFS-121T | DECONTAMINATION AND DECOMMISSIONING WASTE | 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-300T | GRAPHITE MOLDS |

INL Site Treatment Plan

Table 6-1. (continued).

| Waste Stream ID | Waste Stream Name | Waste Stream ID | Waste Stream Name |
|--|---|-----------------|---|
| 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-9999T | PRE-73 DRUMS |
| ID-TEC-156 | CHEM CELL RIP-OUT | ID-TEC-670Ta | MTRU LABORATORY ANALYTICAL WASTE |
| ID-TEC-699T | MIXED TRU WASTE FROM NWCF AND CSSF | | |
| Off-Site Waste Streams | | | |
| ANL-E WASTE | ARGONNE NATIONAL LABORATORY-CHICAGO WASTE | LANL WASTE | LOS ALAMOS NATIONAL LABORATORY WASTE |
| CPP-659 HEPA FILTER DISPOSITION | | | |
| INL waste streams: | | | |
| ID-TEC-172 | HEPA FILTERS | ID-TEC-172Ta | INTEC MIXED TRU HEPA FILTERS |
| COMMERCIAL TREATMENT FACILITY (CTF) | | | |
| INL waste streams: | | | |
| CH-ANL-179 | SODIUM (CONTAMINATED) TIN BISMUTH ALLOY | CH-ANL-180CH | SODIUM-LLW CONTACT-HANDLED |
| CH-ANL-182CH | SODIUM POTASSIUM NaK CONTACT-HANDLED | CH-ANL-553 | WCA MIXED-WASTE |
| CH-ANL-716CH | MLLW CONTACT-HANDLED | CH-ANL-722 | LITHIUM HYDRIDE |
| ID-AMWTP-100 | MIXED WASTE INCIDENTAL TO PROCESSING | ID-INL-803 | AEROSOL WASTE |
| ID-INL-804 | TSCA WASTE | ID-INL-806 | INTEC MIXED LOW LEVEL WASTE |
| ID-SDS-MLLW | NON-SETTLEMENT AGREEMENT, NON-TRU MLLW DEBRIS WITH SODIUM AND CADMIUM FROM SDS SYSTEM | ID-TEC-172Ta | MIXED TRU HEPA FILTERS |
| NR-NRF-673 | HEAVY METAL DEBRIS | | |

INL Site Treatment Plan

Table 6-1. (continued).

| Waste Stream ID | Waste Stream Name | Waste Stream ID | Waste Stream Name |
|---|---|-----------------|--|
| CALCINE DISPOSITION FACILITY | | | |
| <i>INL waste streams:</i> | | | |
| ID-TEC-174 | HIGH-LEVEL WASTE CALCINE SOLIDS | | |
| GOVERNMENT-OWNED OFF-SITE DISPOSAL FACILITY (NNSS) | | | |
| <i>INL waste streams:</i> | | | |
| BN510 | BOX AND BIN VOLUME | CH-ANL-180CH | SODIUM-LLW CONTACT-HANDLED |
| CH-ANL-716CH | MLLW CONTACT-HANDLED | CH-ANL-722 | LITHIUM HYDRIDE |
| ID-AMWTP-100 | MIXED WASTE INCIDENTAL TO PROCESSING | ID-INL-804 | TSCA WASTE |
| ID-INL-806 | INTEC MIXED LOW LEVEL WASTE | ID-SDS-MLLW | NON-SETTLEMENT AGREEMENT, NON-TRU MLLW DEBRIS WITH SODIUM AND CADMIUM FROM SDS SYSTEM |
| NR-NRF-673 | HEAVY METAL DEBRIS | | |
| SBW TREATMENT FACILITY (IWTU) | | | |
| <i>INL waste streams:</i> | | | |
| ID-TEC-173 | SODIUM-BEARING WASTE | ID-TEC-175 | INTEC LIQUID WASTE |
| RWDP REMOTE-HANDLED WASTE DISPOSITION PROJECT | | | |
| <i>INL waste streams:</i> | | | |
| CH-ANL 180RH | SODIUM MLLW REMOTE HANDLED | CH-ANL-180T | SODIUM – TRU |
| CH-ANL-180Ta | SODIUM – TRU | CH-ANL-182RH | SODIUM POTASSIUM NaK REMOTE HANDLED |
| CH-ANL-182T | SODIUM POTASSIUM -NaK- TRU | CH-ANL-241T | TRU CD-HOT CELL WASTE |
| CH-ANL-241Ta | MTRU REMOTE HANDLED | CH-ANL-505T | ALHC UPGRADE DECON DEBRIS |
| CH-ANL-716RH | MLLW REMOTE HANDLED | ID-AEO-100T | GENERAL PLANT WASTE |
| ID-BTO-030T | SOLIDIFIED GRINDING SLUDGE, ETC. | ID-INL-150T | LABORATORY WASTE |
| ID-OFS-111T | RESEARCHHH-GENERATED WASTE NONCOMPACTIBLE | ID-RWDP-RH | WASTE TO BE TREATED AT RWDP |
| ID-RWDP-RHa | WASTE TO BE TREATED AT RWDP | ID-SDS-MLLW | NON-SETTLEMENT AGREEMENT, NON-TRU MLLW, CONTAINERS OF WASTE AND DEBRIS WITH SODIUM AND CADMIUM FROM SDS SYSTEM |
| ID-SDS-TRU | TRU WASTE FROM SDS TREATMENT | ID-TAN-200T | AMERICIUM SOURCES |
| SCMS DEACT | | | |
| <i>INL waste streams:</i> | | | |
| CH-ANL-179 | SODIUM (CONTAMINATED) TIN BISMUTH ALLOY | CH-ANL-180CH | SODIUM –MLLW CONTACT HANDLED |
| CH-ANL-182CH | SODIUM POTASSIUM NaK CONTACT HANDLED | CH-ANL-722 | LITHIUM HYDRIDE |
| SCMS NEUTRALIZATION | | | |
| None at this time | | | |
| SCMS OPEN/MELT/DRAIN | | | |
| <i>INL waste streams:</i> | | | |
| CH-ANL-180CH | SODIUM – MLLW CONTACT HANDLED | | |
| SCMS STABILIZATION | | | |
| <i>INL waste streams:</i> | | | |
| None at this time | | | |

INL Site Treatment Plan

Table 6-1. (continued).

| Waste Stream ID | Waste Stream Name | Waste Stream ID | Waste Stream Name |
|--|---|-----------------|--|
| WIPP DISPOSAL - CONTACT-HANDLED | | | |
| <i>INL waste streams:</i> | | | |
| BN510 | BOX AND BIN VOLUME | CH-ANL-505T | ALHC UPGRADE DECON DEBRIS |
| CH-ANL-505Ta | MTRU CONTACT HANDLED | CH-ANL-553 | WCA MIXED WASTE |
| ID-AEO-100T | GENERAL PLANT WASTE | ID-AEO-101T | CUT UP GLOVEBOXES ID-AEO-102T, ABSORBED LIQUIDS |
| ID-AEO-102T | ABSORBED LIQUIDS | ID-AEO-105T | EMPTY BOTTLES AND ABSORBENTS |
| ID-AEO-106T | SPECIAL SOURCE MATERIAL | ID-AEO-110T | RESEARCH-GENERATED WASTE COMPACTIBLE & COMB. |
| ID-AMWTP-100Ta | MTRU INCIDENTAL TO PROCESSING | ID-AEO-120T | COMPACTIBLE AND COMBUSTIBLE WASTE |
| ID-ANL-161 | ANL-W ANALYTICAL CHEMISTRY LAB GLASSWARE | ID-ANL-162T | ANL-W FMF EFL Zr-U FUEL CASTING ALLOYS |
| ID-ANL-163T | ANL-W ACL COLD-LINE ABSORBED LIQUID, MIS. | ID-BCO-201T | NONCOMBUSTIBLE SOLIDS |
| ID-BCO-202T | COMBUSTIBLE SOLIDS | ID-BCO-203T | PAPER, METALS, GLASS |
| ID-BCO-204T | SOLIDIFIED SOLUTIONS | ID-BTO-010T | RAGS, GLOVES, POLY |
| ID-BTO-020T | NONCOMPRESSIBLE, NONCOMBUSTIBLE | ID-BTO-030T | SOLIDIFIED GRINDING SLUDGE, ETC. |
| ID-BTO-040T | SOLID BINARY SCRAP POWDER, ETC. | ID-INL-150T | LABORATORY WASTE |
| ID-INL-155T | SCRAP | ID-INL-157T | MISCELLANEOUS SOURCES |
| ID-MDO-801T | RAGS, PAPER, WOOD, ETC. | ID-MDO-802T | DRY BOX GLOVES AND O-RINGS |
| ID-MDO-803T | METAL, EQUIPMENT, PIPES, VALVES, ETC. | ID-MDO-805T | ASBESTOS FILTERS |
| ID-MDO-810T | GLASS, FLASKS, SAMPLE VIALS, ETC. | ID-MDO-811T | EVAPORATOR AND DISSOLVER SLUDGE |
| ID-MDO-813T | GLASS FILTERS AND FIBERGLASS | ID-MDO-814T | CONTAMINATED MERCURY OR GRAPHITE CRUCIBLE |
| ID-MDO-815T | CLASSIFIED PARTS | ID-MDO-824T | NONCOMBUSTIBLE EQUIPMENT BOXES |
| ID-MDO-826T | COMBUSTIBLE EQUIPMENT BOXES OR FLOOR SWE | ID-MDO-827T | COMBUSTIBLE EQUIPMENT DRUMS |
| ID-MDO-834T | HIGH-LEVEL ACID | ID-MDO-835T | HIGH-LEVEL CAUSTIC |
| ID-MDO-836T | HIGH-LEVEL SLUDGE/CONS | ID-MDO-838 | <10 nCi/g NONCOMBUSTIBLE |
| ID-MDO-842T | CONTAMINATED SOIL | ID-MDO-847T | LOW SPECIFIC ACTIVITY (<100 nCi/g) COMB. |
| ID-MDO-848T | LOW SPECIFIC ACTIVITY (<100 nCi/g) NONC. | ID-OFS-111T | RESEARCH-GENERATED WASTE NONCOMPACTIBLE, RH MTRU |
| ID-OFS-121T | DECONTAMINATION AND DECOMMISSIONING WASTE | 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-300T | GRAPHITE MOLDS |

INL Site Treatment Plan

Table 6-1. (continued).

| Waste Stream ID | Waste Stream Name | Waste Stream ID | Waste Stream Name |
|---------------------------------------|--|-----------------|---|
| 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-670Ta | MTRU LABORATORY ANALYTICAL WASTE | ID-TEC-699T | MIXED TRU WASTE FROM NWCF AND CSSF |
| Off-Site waste streams: | | | |
| ANL-E WASTE | ARGONNE NATIONAL LABORATORY-EAST | LANL WASTE | LOS ALAMOS NATIONAL LABORATORY WASTE |
| WIPP DISPOSAL - REMOTE-HANDLED | | | |
| INL waste streams: | | | |
| CH-ANL-180T | SODIUM TRU | CH-ANL-180Ta | SODIUM – TRU |
| CH-ANL-182T | SODIUM POTASSIUM –NaK– TRU | CH-ANL-241T | TRU-CD-HOT CELL WASTE |
| CH-ANL-241Ta | MTRU REMOTE HANDLED | CH-ANL-505T | ALHC UPGRADE DECON DEBRIS |
| ID-AEO-100T | GENERAL PLANT WASTE | ID-AEO-107T | REMOTE-HANDLED WASTE |
| ID-BTO-030T | SOLIDIFIED GRINDING SLUDGE | ID-INL-150T | LABORATORY WASTE |
| ID-OFS-111T | RESEARCH GENERATED WASTE NON-COMPACTABLE | ID-RWDP-RH | RH WASTE TO BE TREATED AT RWDP |
| ID-RWDP-RHa | RH WASTE TO BE TREATED AT RWDP | ID-SDS-TRU | TRU WASTE FROM SDS TREATMENT |
| ID-TAN-200T | AMERICIUM SOURCES | ID-TEC-172Ta | INTEC TRU HEPA FILTERS |
| ID-TEC-699T | MIXED TRU WASTE FROM NWCF AND CSSF | ID-TRA-291T | TRU HEAVY METAL SLUDGE |

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INL Site Treatment Plan

Table 6-2. Treatment Plans.

| STP ID/NAME | Step | Facility Abbr. | Unit Name | Volume Stored (m ³) | 5 Yr Generation (m ³) | | |
|---|------|------------------|--|---------------------------------|-----------------------------------|---------------------------|-------------|
| ON-SITE MIXED WASTE TREATMENT PLANS | | | | | | | |
| BN510—BOX AND BIN VOLUME | | | | Storage (m ³): | 34,424.38 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| | a | AMWTP | Private Unit | | | | |
| | b | NNSS | Disposal | | | | |
| CH-ANL-179—SODIUM (CONTAMINATED) TIN BISMUTH ALLOY | | | | Storage (m ³): | 1.85 | 5-Year (m ³): | 0.00 |
| | a | SCMS/CTF | DEACT | | | | |
| | b | LLW | Disposal - Contact-Handled | | | | |
| CH-ANL-180CH—SODIUM – MLLW CONTACT HANDLED | | | | Storage (m ³): | 17.74 | 5-Year (m ³): | 0.00 |
| | a | SCMS/CTF | Deact | | | | |
| | b | LLW | Disposal - Contact-Handled | | | | |
| CH-ANL-180RH—SODIUM – MLLW REMOTE HANDLED | | | | Storage (m ³): | 40.42 | 5-Year (m ³): | 0.00 |
| | a | RWDP Disposition | Remote-Handled Waste Disposition Project | | | | |
| | b | LLW | Disposal – Remote Handled | | | | |
| CH-ANL-180T—SODIUM – TRU | | | | Storage (m ³): | 0.82 | 5-Year (m ³): | 0.00 |
| | a | RWDP | Remote-Handled Waste Disposition Project | | | | |
| | b | TRANS | Transport – 72B Cask | | | | |
| | c | WIPP | Disposal - Remote-Handled | | | | |
| CH-ANL-180Ta—SODIUM – TRU | | | | Storage (m ³): | 0.51 | 5-Year (m ³): | 0.50 |
| | a | RWDP | Remote-Handled Waste Disposition Project | | | | |
| | b | TRANS | Transport – 72B Cask | | | | |
| | c | WIPP | Disposal - Remote-Handled | | | | |
| CH-ANL-182CH—SODIUM POTASSIUM NaK CONTACT HANDLED | | | | Storage (m ³): | 2.03 | 5-Year (m ³): | 0.00 |
| | a | SCMS/CTF | DEACT | | | | |
| | b | LLW | Disposal - Contact-Handled | | | | |
| CH-ANL-182RH—SODIUM POTASSIUM NaK REMOTE HANDLED | | | | Storage (m ³): | 0.50 | 5-Year (m ³): | 0.00 |
| | a | RWDP | Remote-Handled Waste Disposition Project | | | | |
| | b | LLW | Disposal - Remote-Handled | | | | |

INL Site Treatment Plan

Table 6-2. (continued).

| STP ID/NAME | Step | Facility Abbr. | Unit Name | Volume Stored (m ³) | | 5 Yr Generation (m ³) | |
|--|------|----------------|--|---------------------------------|-------------|-----------------------------------|-------------|
| CH-ANL-182T—SODIUM POTASSIUM -NaK-TRU | | | | Storage (m ³): | 0.78 | 5-Year (m ³): | 0.00 |
| | a | RWDP | Remote-Handled Waste Disposition Project | | | | |
| | b | TRANS | Transport – 72B Cask | | | | |
| | c | WIPP | Disposal - Remote-Handled | | | | |
| CH-ANL-241T—TRU-CD-HOT CELL WASTE | | | | Storage (m ³): | 0.11 | 5-Year (m ³): | 0.00 |
| | a | RWDP | Remote Waste Disposition Project | | | | |
| | b | TRANS | Transport – 72B Cask | | | | |
| | c | WIPP | Disposal - Remote-Handled | | | | |
| CH-ANL-241Ta—MTRU REMOTE HANDLED | | | | Storage (m ³): | 1.43 | 5-Year (m ³): | 0.00 |
| | a | RWDP | Remote-Handled Waste Disposition Project | | | | |
| | b | TRANS | Transport – 72B Cask | | | | |
| | c | WIPP | Disposal - Remote-Handled | | | | |
| CH-ANL-505T—ALHC UPGRADE DECON DEBRIS | | | | Storage (m ³): | 0.63 | 5-Year (m ³): | 0.00 |
| | a | RWDP | Remote-Handled Waste Disposition Project | | | | |
| | b | TRANS | Transport – 72B Cask | | | | |
| | c | WIPP | Disposal - Remote-Handled | | | | |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| CH-ANL-505Ta—MTRU CONTACT HANDLED | | | | Storage (m ³): | 0.63 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| CH-ANL-553—WCA MIXED WASTE | | | | Storage (m ³): | 2.97 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| | a | AMWTP | Private Unit | | | | |
| | b | SCDF | Disposal - Contact-Handled | | | | |

INL Site Treatment Plan

Table 6-2. (continued).

| STP ID/NAME | Step | Facility Abbr. | Unit Name | Volume Stored (m ³) | | 5 Yr Generation (m ³) | |
|---|------|----------------|--|---------------------------------|--------------|-----------------------------------|-------------|
| | a | CTF | Commercial Treatment | | | | |
| | b | SCDF | Disposal - Contact-Handled | | | | |
| CH-ANL-716CH—MLLW CONTACT HANDLED | | | | Storage (m ³): | 0.00 | 5-Year (m ³): | 1.05 |
| | a | CTF | Commercial Treatment | | | | |
| | b | SCDF or NNSS | Disposal Contact Handled | | | | |
| CH-ANL-716RH—MLLW REMOTE HANDLED | | | | Storage (m ³): | 1.70 | 5-Year (m ³): | 1.05 |
| | a | RWDP | Remote-Handled Waste Disposition Project | | | | |
| | b | TRANS | Transport | | | | |
| | c | TSDF | Disposal | | | | |
| CH-ANL-722—LITHIUM HYDRIDE | | | | Storage (m ³): | 4.16 | 5-Year (m ³): | 0.00 |
| | a | SCMS/CTF | DEACT | | | | |
| | b | LLW | Disposal - Contact-Handled | | | | |
| ID-AEO-100T—GENERAL PLANT WASTE | | | | Storage (m ³): | 20.40 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| | a | RWDP | Remote-Handled Preparation Treatment | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Remote-Handled | | | | |
| ID-AEO-101T—CUT UP GLOVEBOXES | | | | Storage (m ³): | 0.00 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-AEO-102T—ABSORBED LIQUIDS | | | | Storage (m ³): | 22.26 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-AEO-105T—EMPTY BOTTLES AND ABSORBENTS | | | | Storage (m ³): | 1.48 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |

INL Site Treatment Plan

Table 6-2. (continued).

| STP ID/NAME | Step | Facility Abbr. | Unit Name | Volume Stored (m ³) | | 5 Yr Generation (m ³) | |
|--|------|--------------------------|-----------------------------------|---------------------------------|---------------|-----------------------------------|---------------|
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-AEO-106T—SPECIAL SOURCE MATERIAL | | | | Storage (m ³): | 0.21 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-AEO-107T—REMOTE-HANDLED WASTE | | | | Storage (m ³): | 24.74 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-AEO-110T—RESEARCH-GENERATED WASTE COMPACT. & COMB. | | | | Storage (m ³): | 0.42 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-AEO-120T—COMPACTIBLE AND COMBUSTIBLE WASTE | | | | Storage (m ³): | 0.42 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-AMWTP-100—MIXED WASTE INCIDENTAL TO PROCESSING | | | | Storage (m ³): | 32.40 | 5-Year (m ³): | 50.00 |
| | a | AMWTP/ CTF or NNSS | Private Unit/Commercial Treatment | | | | |
| | b | SCDF | Disposal - Contact-Handled | | | | |
| ID-AMWTP-100Ta—MTRU INCIDENTAL TO PROCESSING | | | | Storage (m ³) | 614.35 | 5-Year (m ³): | 350.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-ANL-161—ANL-W ANALYTICAL CHEMISTRY LAB GLASSWARE | | | | Storage (m ³): | 1.06 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-ANL-162T—ANL-W FMF EFL Zr-U FUEL CASTING ALLOYS R | | | | Storage (m ³): | 10.58 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |

INL Site Treatment Plan

Table 6-2. (continued).

| STP ID/NAME | Step | Facility Abbr. | Unit Name | Volume Stored (m ³) | | 5 Yr Generation (m ³) | |
|---|------|----------------|------------------------------------|---------------------------------|---------------|-----------------------------------|-------------|
| ID-ANL-163T—ANL-W ACL COLD-LINE ABSORBED LIQUID, MIS | | | | Storage (m ³): | 1.27 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-BCO-201T—NONCOMBUSTIBLE SOLIDS | | | | Storage (m ³): | 8.90 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-BCO-202T—COMBUSTIBLE SOLIDS | | | | Storage (m ³): | 0.64 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-BCO-203T—PAPER, METALS, GLASS | | | | Storage (m ³): | 5.51 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-BCO-204T—SOLIDIFIED SOLUTIONS | | | | | | | |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-BTO-010T—RAGS, GLOVES, POLY | | | | Storage (m ³): | 199.28 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-BTO-020T—NONCOMPRESSIBLE, NONCOMBUSTIBLE | | | | Storage (m ³): | 168.33 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-BTO-030T—SOLIDIFIED GRINDING SLUDGE, ETC. | | | | Storage (m ³): | 9.96 | 5-Year (m ³): | 0.00 |
| | a | RWDP | Remote-Handled Disposition Project | | | | |
| | b | TRANS | Transport-72B | | | | |
| | c | WIPP | Disposal – Remote Handled | | | | |

INL Site Treatment Plan

Table 6-2. (continued).

| STP ID/NAME | Step | Facility Abbr. | Unit Name | Volume Stored (m ³) | | 5 Yr Generation (m ³) | |
|--|------|----------------|----------------------------------|---------------------------------|---------------|-----------------------------------|---------------|
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-BTO-040T—SOLID BINARY SCRAP POWDER, ETC. | | | | Storage (m ³): | 36.46 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-INL-150T—LABORATORY WASTE | | | | Storage (m ³): | 31.09 | 5-Year (m ³): | 0.00 |
| | a | RWDP | Remote Waste Disposition Project | | | | |
| | b | TRANS | Transport – 72B Cask | | | | |
| | c | WIPP | Disposal - Remote-Handled | | | | |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-INL-155T—SCRAP | | | | Storage (m ³): | 3.60 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-INL-157T—MISCELLANEOUS SOURCES | | | | Storage (m ³): | 3.8120 | 5-Year (m ³): | 0.0000 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-INL-803—AEROSOL WASTE | | | | Storage (m ³): | 0.00 | 5-Year (m ³): | 0.00 |
| | a | CTF | Commercial Macroencapsulation | | | | |
| | b | SCDF | Disposal - Contact-Handled | | | | |
| ID-INL-804—TSCA WASTE | | | | Storage (m ³): | 0.00 | 5-Year (m ³): | 0.00 |
| | a | CTF or NNSS | Commercial Macroencapsulation | | | | |
| | b | SCDF | Disposal - Contact-Handled | | | | |

INL Site Treatment Plan

Table 6-2. (continued).

| STP ID/NAME | Step | Facility Abbr. | Unit Name | Volume Stored (m ³) | | 5 Yr Generation (m ³) | |
|--|------|----------------|-------------------------------|---------------------------------|--------------|-----------------------------------|-------------|
| ID-INL-806—INTEC MIXED LOW-LEVEL WASTE | | | | Storage (m ³): | 1.43 | 5-Year (m ³): | 0.00 |
| | a | CTF or NNSS | Commercial Macroencapsulation | | | | |
| | b | SCDF | Disposal - Contact-Handled | | | | |
| ID-MDO-801T—RAGS, PAPER, WOOD, ETC. | | | | Storage (m ³): | 7.42 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-MDO-802T—DRY BOX GLOVES AND O-RINGS | | | | Storage (m ³): | 25.65 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-MDO-803T—METAL, EQUIPMENT, PIPES, VALVES, ETC. | | | | Storage (m ³): | 38.16 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-MDO-805T—ASBESTOS FILTERS | | | | Storage (m ³): | 8.06 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-MDO-810T—GLASS, FLASKS, SAMPLE VIALS, ETC. | | | | Storage (m ³): | 2.76 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-MDO-811T—EVAPORATOR AND DISSOLVER SLUDGE | | | | Storage (m ³): | 0.85 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-MDO-813T—GLASS FILTERS AND FIBERGLASS | | | | Storage (m ³): | 0.64 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |

INL Site Treatment Plan

Table 6-2. (continued).

| STP ID/NAME | Step | Facility Abbr. | Unit Name | Volume Stored (m ³) | | 5 Yr Generation (m ³) | |
|--|------|----------------|----------------------------|---------------------------------|---------------|-----------------------------------|-------------|
| ID-MDO-814T—CONTAMINATED MERCURY OR GRAPHITE CRUCIBLE | | | | Storage (m ³): | 0.42 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-MDO-815T—CLASSIFIED PARTS | | | | Storage (m ³): | 0.42 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-MDO-824T—NONCOMBUSTIBLE EQUIPMENT BOXES | | | | Storage (m ³): | 0.00 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-MDO-826T—COMBUSTIBLE EQUIPMENT BOXES OR FLOOR SWE. | | | | Storage (m ³): | 1.06 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-MDO-827T—COMBUSTIBLE EQUIPMENT DRUMS | | | | Storage (m ³): | 1.91 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-MDO-834T—HIGH-LEVEL ACID | | | | Storage (m ³): | 191.01 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-MDO-835T—HIGH-LEVEL CAUSTIC | | | | Storage (m ³): | 355.10 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-MDO-836T—HIGH-LEVEL SLUDGE/CEMENT | | | | Storage (m ³): | 885.74 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |

INL Site Treatment Plan

Table 6-2. (continued).

| STP ID/NAME | Step | Facility Abbr. | Unit Name | Volume Stored (m ³) | | 5 Yr Generation (m ³) | |
|--|------|----------------|------------------------------------|---------------------------------|-----------------|-----------------------------------|-------------|
| ID-MDO-838—<10 nCi/g NONCOMBUSTIBLE | | | | Storage (m ³): | 0.21 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-MDO-842T—CONTAMINATED SOIL | | | | Storage (m ³): | 0.00 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-MDO-847T—LOW SPECIFIC ACTIVITY (<100 nCi/g) COMB. | | | | Storage (m ³): | 157.09 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-MDO-848T—LOW SPECIFIC ACTIVITY (<100 nCi/g) NONC. | | | | Storage (m ³): | 28.41 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-OFS-111T—RESEARCH-GENERATED WASTE NONCOMPACTIBLE | | | | Storage (m ³): | 832.52 | 5-Year (m ³): | 0.00 |
| | a | RWDP | Remote-Handled Disposition Project | | | | |
| | b | TRANS | Transport – 72B | | | | |
| | c | WIPP | Disposal – Remote Handled | | | | |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-OFS-121T—DECONTAMINATION AND DECOMMISSIONING WASTE | | | | Storage (m ³): | 0.21 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-000T—NOT RECORDED – UNKNOWN | | | | Storage (m ³): | 4,024.40 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |

INL Site Treatment Plan

Table 6-2. (continued).

| STP ID/NAME | Step | Facility Abbr. | Unit Name | Volume Stored (m ³) | | 5 Yr Generation (m ³) | |
|---|------|----------------|----------------------------|---------------------------------|-----------------|-----------------------------------|-------------|
| ID-RFO-001T—FIRST STAGE SLUDGE | | | | Storage (m ³): | 2,567.90 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-002T—SECOND STAGE SLUDGE | | | | Storage (m ³): | 1,639.18 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-003T—ORGANIC SETUPS, OIL SOLIDS | | | | Storage (m ³): | 1,533.18 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-004T—SPECIAL SETUPS (CEMENT) | | | | Storage (m ³): | 327.54 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-005T—EVAPORATOR SALTS | | | | Storage (m ³): | 11.02 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-007T—BLDG 374 DRY SLUDGE | | | | Storage (m ³): | 923.47 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-090—DIRT | | | | Storage (m ³): | 28.62 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-112T—SOLIDIFIED ORGANICS | | | | Storage (m ³): | 169.18 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |

INL Site Treatment Plan

Table 6-2. (continued).

| STP ID/NAME | Step | Facility Abbr. | Unit Name | Volume Stored (m ³) | | 5 Yr Generation (m ³) | |
|--|------|----------------|----------------------------|---------------------------------|--------------|-----------------------------------|-------------|
| ID-RFO-113T—SOLID LAB WASTE | | | | Storage (m ³): | 16.96 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-114T—SOLIDIFIED PROCESS SOLIDS | | | | Storage (m ³): | 74.84 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-116T—COMBUSTIBLE WASTE | | | | Storage (m ³): | 0.85 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-117T—METAL WASTE | | | | Storage (m ³): | 35.17 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-118T—GLASS WASTE | | | | Storage (m ³): | 16.12 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-119T—HEPA FILTER WASTE | | | | Storage (m ³): | 65.51 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-122T—INORGANIC SOLID WASTE | | | | Storage (m ³): | 30.53 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-123T—LEADED RUBBER | | | | Storage (m ³): | 65.93 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |

INL Site Treatment Plan

Table 6-2. (continued).

| STP ID/NAME | Step | Facility Abbr. | Unit Name | Volume Stored (m ³) | | 5 Yr Generation (m ³) | |
|--|------|----------------|----------------------------|---------------------------------|---------------|-----------------------------------|-------------|
| ID-RFO-241T—AMERICIUM PROCESS RESIDUE | | | | Storage (m ³): | 25.23 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-290—FILTER SLUDGE | | | | Storage (m ³): | 0.21 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-292T—CEMENTED SLUDGE | | | | Storage (m ³): | 115.33 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-300T—GRAPHITE MOLDS | | | | Storage (m ³): | 410.22 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-301T—GRAPHITE CORES | | | | Storage (m ³): | 7.63 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-302T—BENELEX AND PLEXIGLASS | | | | Storage (m ³): | 4.66 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-312T—COARSE GRAPHITE | | | | Storage (m ³): | 1.91 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-320T—HEAVY NONSPECIAL SOURCE METAL | | | | Storage (m ³): | 96.88 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |

INL Site Treatment Plan

Table 6-2. (continued).

| STP ID/NAME | Step | Facility Abbr. | Unit Name | Volume Stored (m ³) | | 5 Yr Generation (m ³) | |
|--|------|----------------|----------------------------|---------------------------------|-----------------|-----------------------------------|-------------|
| ID-RFO-328T—FULFLO INCINERATOR FILTERS | | | | Storage (m ³): | 1.70 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-330T—DRY PAPER AND RAGS | | | | Storage (m ³): | 1,085.86 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-335T—ABSOLUTE 8 X 8 FILTERS | | | | Storage (m ³): | 27.54 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-336T—MOIST PAPER AND RAGS | | | | Storage (m ³): | 1,584.06 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-337T—PLASTICS, TEFLON, WASH, PVC | | | | Storage (m ³): | 488.45 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-338T—INSULATION AND CHEMICAL WARFARE SERVICE | | | | Storage (m ³): | 53.64 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-339T—LEADED RUBBER GLOVES AND APRONS | | | | Storage (m ³): | 152.43 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-360T—INSULATION | | | | Storage (m ³): | 50.67 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |

INL Site Treatment Plan

Table 6-2. (continued).

| STP ID/NAME | Step | Facility Abbr. | Unit Name | Volume Stored (m ³) | | 5 Yr Generation (m ³) | |
|---|------|----------------|----------------------------|---------------------------------|---------------|-----------------------------------|-------------|
| ID-RFO-371T—FIREBRICK | | | | Storage (m ³): | 218.78 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-374T—BLACKTOP, CONCRETE, DIRT, AND SAND | | | | Storage (m ³): | 269.03 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-375T—OIL-DRI RESIDUE FROM INCINERATOR | | | | Storage (m ³): | 4.03 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-376T—CEMENTED INSULATION AND FILTER MEDIA | | | | Storage (m ³): | 532.76 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-409T—MOLTEN SALTS - 30% UNPULVERIZED | | | | Storage (m ³): | 6.57 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-414T—DIRECT OXIDE REDUCTION SALT | | | | Storage (m ³): | 1.06 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-430T—UNLEACHED ION COLUMN RESIN | | | | Storage (m ³): | 6.15 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-431T—LEACHED RESIN | | | | Storage (m ³): | 1.27 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |

INL Site Treatment Plan

Table 6-2. (continued).

| STP ID/NAME | Step | Facility Abbr. | Unit Name | Volume Stored (m ³) | | 5 Yr Generation (m ³) | |
|--|------|----------------|----------------------------|---------------------------------|---------------|-----------------------------------|-------------|
| ID-RFO-432T—LEACHED AND CEMENTED RESIN | | | | Storage (m ³): | 60.42 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-440T—GLASS | | | | Storage (m ³): | 301.89 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-441T—UNLEACHED RASHIG RINGS | | | | Storage (m ³): | 333.69 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-442T—LEACHED RASHIG RINGS | | | | Storage (m ³): | 261.82 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-460T—WASHABLES, RUBBER, PLASTICS | | | | Storage (m ³): | 1.27 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-463T—LEADED RUBBER GLOVES AND APRONS | | | | Storage (m ³): | 11.24 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-464T—BENELEX AND PLEXIGLASS | | | | Storage (m ³): | 9.96 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-480T—NONSPECIAL SOURCE METAL | | | | Storage (m ³): | 541.66 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |

INL Site Treatment Plan

Table 6-2. (continued).

| STP ID/NAME | Step | Facility Abbr. | Unit Name | Volume Stored (m ³) | | 5 Yr Generation (m ³) | |
|--|------|----------------|----------------------------|---------------------------------|---------------|-----------------------------------|-------------|
| ID-RFO-481T—LEACHED NONSPECIAL SOURCE METAL | | | | Storage (m ³): | 189.10 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-490T—CHEMICAL WARFARE SERVICE FILTERS | | | | Storage (m ³): | 16.11 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-700T—ORGANIC AND SLUDGE IMMOBILIZATION SYSTEM | | | | Storage (m ³): | 1.91 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-900T—LOW SPECIFIC ACTIVITY PLASTICS, PAPER, ETC. | | | | Storage (m ³): | 74.20 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-950T—LOW SPECIFIC ACTIVITY METAL, GLASS, ETC. | | | | Storage (m ³): | 23.32 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-970T—WOOD | | | | Storage (m ³): | 4.66 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-976T—BLDG 776 PROCESS SLUDGE | | | | Storage (m ³): | 1.48 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-978T—LAUNDRY SLUDGE | | | | Storage (m ³): | 0.00 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |

INL Site Treatment Plan

Table 6-2. (continued).

| STP ID/NAME | Step | Facility Abbr. | Unit Name | Volume Stored (m ³) | | 5 Yr Generation (m ³) | |
|---|------|----------------|---|---------------------------------|-----------------|-----------------------------------|-------------|
| ID-RFO-980T—FILTER SLUDGE | | | | Storage (m ³): | 0.21 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport – TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RFO-9999T—PRE-73 DRUMS | | | | Storage (m ³): | 7,486.14 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-RWDP-RH—RH-TRU TO BE TREATED AT RWDP | | | | Storage (m ³): | 0.91 | 5-Year (m ³): | TBD |
| | a | RWDP | RH - Preparation/ Treatment | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Remote-Handled | | | | |
| ID-RWDP-RHa—RH-TRU TO BE TREATED AT RWDP | | | | Storage (m ³): | 0.02 | 5-Year (m ³): | TBD |
| | a | RWDP | RH - Preparation/ Treatment | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Remote-Handled | | | | |
| ID-SDS-MLLW—NON-SETTLEMENT AGREEMENT, NON-TRU MLLW, CONTAINERS OF WASTE DEBRIS WITH SODIUM AND CADMIUM FROM SDS SYSTEM | | | | Storage (m ³): | 5.16 | 5-Year (m ³): | 0.57 |
| | a | RWDP | Remote-Handled Waste Disposal Project | | | | |
| | b | CTF or NNSS | Commercial Treatment | | | | |
| | c | SCDF | Disposal - Remote-Handled/Contact Handled | | | | |
| ID-SDS-TRU—TRU WASTE FROM SDS TREATMENT | | | | Storage (m ³): | 8.55 | 5-Year (m ³): | 0.57 |
| | a | RWDP | Remote-Handled Waste Disposition Project | | | | |
| | b | TRANS | Transport – 72B Cask | | | | |
| | c | WIPP | Disposal – Remote-Handled | | | | |
| ID-TAN-200T—AMERICIUM SOURCES | | | | Storage (m ³): | 0.21 | 5-Year (m ³): | 0.00 |
| | a | RWDP | RH - Preparation/ Treatment | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Remote-Handled | | | | |

INL Site Treatment Plan

Table 6-2. (continued).

| STP ID/NAME | Step | Facility Abbr. | Unit Name | Volume Stored (m ³) | | 5 Yr Generation (m ³) | |
|--|------|-------------------------------|--|---------------------------------|-----------------|-----------------------------------|----------------|
| ID-TEC-156—CHEM CELL RIP-OUT | | | | Storage (m ³): | 28.53 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transportation - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-TEC-172—HEPA FILTERS | | | | Storage (m ³): | 0.4530 | 5-Year (m ³): | 18.6600 |
| | a | CPP659 | Segregation | | | | |
| | b | CPP659 | Extraction - HEPA Filter Leach | | | | |
| | c | LLW | Disposal - Remote-Handled or Contact Handled | | | | |
| | a | Commercial Treatment | | | | | |
| | b | SCDF | Disposal - Contact-Handled | | | | |
| | a | Reclassified as RH-TRU | | | | | |
| | b | TRANS | Transportation - TRUPACT | | | | |
| | c | WIPP | Disposal - Remote-Handled | | | | |
| ID-TEC-172Ta—INTEC TRU HEPA FILTERS | | | | Storage (m ³): | 0.68 | 5-Year (m ³): | 1.00 |
| | a | RH-TRU | | | | | |
| | b | CPP659 | Extraction - HEPA Filter Leach | | | | |
| | c | TRANS | Transportation - TRUPACT | | | | |
| | d | WIPP | Disposal - Remote-Handled | | | | |
| | a | RH-TRU | | | | | |
| | b | CPP659 | Extraction - HEPA Filter Leach | | | | |
| | c | Reclassified as LLW | Disposal - Remote-Handled or Contact Handled | | | | |
| | a | Reclassified as MLLW-RH or CH | | | | | |
| | b | Commercial Treatment | | | | | |
| | c | SCDF | Disposal - Contact-Handled | | | | |
| ID-TEC-173—SODIUM-BEARING WASTE | | | | Storage (m ³): | 3,222.14 | 5-Year (m ³): | 0.00 |
| | a | IWTU | Treatment Facility | | | | |

INL Site Treatment Plan

Table 6-2. (continued).

| STP ID/NAME | Step | Facility Abbr. | Unit Name | Volume Stored (m ³) | | 5 Yr Generation (m ³) | |
|---|------|---------------------------------|--|---------------------------------|-----------------|-----------------------------------|-------------|
| ID-TEC-174—HIGH-LEVEL WASTE CALCINE SOLIDS | | | | Storage (m ³): | 4,386.00 | 5-Year (m ³): | 0.00 |
| | a | Calcine Disposition Facility | | | | | |
| | b | TRANS | Transport - HLW | | | | |
| | c | NHLWR | Disposal - HLW Repository | | | | |
| ID-TEC-175—INTEC LIQUID WASTE | | | | Storage (m ³): | 47.7 | 5-Year (m ³): | 0.00 |
| | a | IWTU | Treatment Facility | | | | |
| | b | TRANS | Transport - TBD | | | | |
| | c | TBD | Disposal - TBD | | | | |
| ID-TEC-670Ta—MTRU LABORATORY ANALYTICAL WASTE | | | | Storage (m ³): | 13.57 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| ID-TEC-699T—MIXED TRU WASTE FROM NWCF AND CSSF | | | | Storage (m ³): | 2.7563 | 5-Year (m ³): | 0.00 |
| | a | AMWTP | Private Unit | | | | |
| | b | TRANS | Transport - TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |
| | d | WIPP | Disposal - Remote-Handled | | | | |
| ID-TRA-291T—TRU HEAVY METAL SLUDGE | | | | Storage (m ³): | 2.54 | 5-Year (m ³): | 0.00 |
| | a | INTEC 659 Packaging/Repackaging | Remote-Handled Waste Disposition Project | | | | |
| | b | TRANS | Transport - CNS 10-160B cask | | | | |
| | c | WIPP | Disposal - Remote-Handled | | | | |
| NR-NRF-673—HEAVY METAL DEBRIS | | | | Storage (m ³): | 0.00 | 5-Year (m ³): | 0.00 |
| | a | CTF | Commercial Treatment | | | | |
| | b | SCDF | Disposal - Contact-Handled | | | | |

INL Site Treatment Plan

Table 6-2. (continued).

| STP ID/NAME | Step | Facility Abbr. | Unit Name | Volume Stored (m ³) | 5 Yr Generation (m ³) | | |
|--|------|----------------|--|---------------------------------|-----------------------------------|---------------------------|---------------|
| OFF-SITE MIXED WASTE TREATMENT PLANS | | | | | | | |
| *Storage volumes include past and present waste receipts. | | | | | | | |
| NOTE: The INL did not receive any off-Site waste during FY 2015, nor are there plans, currently, to receive any in FY 2016. | | | | | | | |
| Argonne National Laboratory – East | | | | Storage (m ³): | 8.48 | 5-Year (m ³): | 53.52 |
| INL AECHHM Lot 2 Sludge | | | | | 0.424 | | 30.576 |
| INL AECHDM Debris | | | | | 8.056 | | 22.944 |
| Los Alamos National Laboratory Waste | | | | Storage (m ³): | 2.968 | 5-Year (m ³): | 64.408 |
| MSG04.001 Lot 1 | | | | | 1.484 | | 0.000 |
| MN02-V.001 | | | | | 1.484 | | 0.000 |
| LA-MHD01.001 Heterogeneous Debris | | | | | | | 2.56 |
| LA-MHD03.001 Heterogeneous Debris | | | | | | | 2.56 |
| LA-MHD04.001 Heterogeneous Debris | | | | | | | 48.64 |
| LA-MHD09.001 heterogeneous Debris | | | | | | | 7.68 |
| Treatment Plan for Off-Site Waste Streams | | | | | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project | | | | |
| | b | TRANS | Transport – TRUPACT | | | | |
| | c | WIPP | Disposal - Contact-Handled | | | | |