# Idaho National Laboratory Site Treatment Plan

January 2019

INL-STP
Revision 38

# Idaho National Laboratory
# Site Treatment Plan

**January 2019**

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

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# ABBREVIATIONS, INITALISMS, 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 |

| | | |
|---|---|---|
| 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 Isostactic Pressing |
| 38 | HLW | high-level waste |
| 39 | HMPPS | High Modulus Polymeric Packaging System |
| 40 | HTRE-3 | Heat Transfer Reactor Experiment No. 3 |
| 41 | HWMA | Hazardous Waste Management Act |
| 42 | IBC | interbuilding cask |
| 43 | IBO | Idaho Branch Office |
| 44 | ICP | inductively coupled plasma |
| 45 | IDAPA | Idaho Administrative Procedures Act |
| 46 | IDHW | Idaho Department of Health and Welfare |
| 47 | IET | Initial Engine Test |
| 48 | INL | Idaho National Laboratory |
| 49 | INTEC | Idaho Nuclear Technology and Engineering Center |
| 50 | IPA | isopropyl alcohol |
| 51 | ISV | in situ vitrification |
| 52 | IWTU | Integrated Waste Treatment Unit |
| 53 | LDR | land disposal restriction |
| 54 | LLM | low-level mixed |
| 55 | LLMW | low-level mixed waste |
| 56 | LLW | low-level waste |
| 57 | LSA | low specific activity (waste) |
| 58 | M&EC | Materials & Energy Corporation |
| 59 | MFC | Materials and Fuels Complex |
| 60 | MIS | Mare Island Naval Shipyard |
| 61 | MLLW | mixed low-level waste |

| | | |
|---|---|---|
| MTR | Materials Test Reactor |
| MTRU | mixed transuranic (waste) |
| MW | mixed waste |
| MWSF | Mixed Waste Storage Facility |
| N/A | not applicable |
| NEPA | National Environmental Policy Act |
| NHLWR | National High-Level Waste Repository |
| NNSS | Nevada National Security Site |
| NRC | Nuclear Regulatory Commission |
| NRF | Naval Reactors Facility |
| NWCF | New Waste Calcining Facility |
| OMB | Office of Management and Budget |
| PCB | polychlorinated biphenyl |
| PESI | Perma-Fix Environmental Services, Inc. |
| PVC | polyvinyl chloride |
| PWTU | Portable Water Treatment Unit |
| Q | quarter |
| R&D | research and development |
| RCRA | Resource Conservation and Recovery Act |
| RE | Retrieval Enclosure |
| RH | remote handled |
| ROD | Record of Decision |
| RWDP | Remote-Handled Waste Disposition Project |
| SAPC | safe agitene parts cleaner |
| SBW | sodium-bearing waste |
| SCDF | Subtitle C Disposal Facility |
| SCMS | Sodium Components Maintenance Shop |
| SDS | Sodium Distillation System |
| STP | Site Treatment Plan |
| TAN | Test Area North |
| TBD | to be determined |

| | | |
|---|---|---|
| 93 | TCA | trichloroethane |
| 94 | TCE | trichloroethylene |
| 95 | TCLP | toxicity characteristic leaching procedure |
| 96 | TRA | Test Reactor Area |
| 97 | TRANS | Transport |
| 98 | TRU | transuranic (waste) |
| 99 | TRUPACT | transuranic package |
| 100 | TSA | Transuranic Storage Area |
| 101 | TSCA | Toxic Substances Control Act |
| 102 | TSDF | treatment, storage, and disposal facility |
| 103 | USC | United States Code |
| 104 | VOC | volatile organic compound |
| 105 | VOG | vessel off-gas |
| 106 | WAC | waste acceptance criteria |
| 107 | WCS | Waste Control Specialists, LLC |
| 108 | WERF | Waste Experimental Reduction Facility |
| 109 | WIPP | Waste Isolation Pilot Plant |
| 110 | WS | waste stream |

# 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 |

# 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.

## 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.

## 1.5 Definitions

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**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

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

### 2.2.2 Milestones and Planning Dates

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

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

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

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

***2.2.2.2.3*** Schedule dates shall be identified by reference to fiscal year quarters and the specific date of the milestone or planning date shall be the last day of the quarter identified. 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. The fourth quarter or "4Q" shall have September 30 as its corresponding specific date.

### 2.2.3 Categories of Milestones and Planning Dates

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

***2.2.3.1 Plan Where Treatment Technologies Exist [RCRA Section 3021(b)(1)(B)(i)].*** For identified and developed treatment technologies for waste which will be treated on-Site, the milestones and planning dates identified in Section 5.1, "Schedules for Treatment Facilities for Which 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 2-1 below.

**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

***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.

**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.

#### *2.2.3.3 Requirements Pertaining to Radionuclide Separation [RCRA Section 3021(b)(1)(B)(iii)].*

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

**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

***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."

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

## 2.3 Quarterly Meetings, Annual STP Updates, and Reports

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

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

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

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

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

(b) May include any proposed Extensions, Revisions (including proposed waste treatment plans for new waste streams), or other changes to the STP

(c) Shall include information on DOE's funding for the STP and identify any funding issues which may impact the STP schedules

(d) May include notification of planning date extensions and changes in covered waste volumes

(e) May be a vehicle for input from the public, affected states, and EPA to be obtained if Revisions to the STP are proposed.

## 2.4 Inclusion of New Mixed Waste Streams

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

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

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

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

## 2.5 Revisions

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

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

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

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

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

## 2.6 Extensions

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

(a) The milestone or planning date sought to be extended;

(b) The length of the extension sought;

(c) The good causes(s) for the extension; and

(d) Any related milestone or planning date that would be affected if the extension were granted.

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

(a) Inadequate funding after DOE complies with Section 2.8, “Funding.”

(b) A delay caused by DEQ's failure to meet any requirement imposed under the STP or Consent Order;

(c) A delay caused by the good faith invocation of dispute resolution or the initiation of administrative or judicial action;

(d) A delay caused, or which is likely to be caused, by the grant of an extension in regard to another milestone;

(e) A delay caused by additional work agreed to by DOE and the DEQ;

(f) Circumstances unforeseen at the time this STP was prepared that significantly affects the work required under the STP;

(g) Delay in review of a permit application;

(h) Inconsistency with the requirement of any other existing agreement, order, or permit between DOE and DEQ; and

(i) Any other event or series of events mutually agreed to by DOE and the DEQ as constituting good cause.

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

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

## 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.”

# 2.8 Funding

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## 2.9 Disputes

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

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

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

(a) the nature of the dispute;

(b) the work affected by the dispute;

(c) the disputing Party's position with respect to the dispute; and

(d) the information the disputing Party is relying upon to support its position.

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

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

***2.9.3.2*** Following elevation of a dispute to the DRC, the DRC shall have 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 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 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 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.

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

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

## 2.10 Project Managers

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

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

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

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

## 2.11 Notification

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

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

Project Manager
Idaho Department of Health and Welfare
Division of Environmental Quality
1410 N. Hilton
Boise, ID 83706

Project Manager
Department of Energy
Idaho Operations Office
850 Energy Drive
Idaho Falls, ID 83401-1563

## 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

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

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

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

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

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

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

***2.13.5.4*** The Project Manager's Quarterly Meeting minutes may document DEQ approvals, conditional approvals, or agreement on DEQ approvals or conditional approvals with modification.

## 2.14 Modification

The STP schedules, covered wastes, and other provisions of Sections 3 through 6 may be amended or modified by mutual agreement of the DEQ and DOE Project Managers, or may be made by approval of the DEQ of a proposal submitted by DOE pursuant to Section 2.13, "Submittal and Review of Deliverables." Any such amendment or modification of this STP shall be in writing and shall be incorporated into the STP and be enforceable in the same manner as any other requirement of the STP. Agreement or approval of such modifications may be documented in the Quarterly Meeting Minutes. If an amendment or modification constitutes a Revision it shall be subject to the procedures applicable to a conditionally approved Revision set forth in Section 2.5.

Notwithstanding any other provision of this STP, DOE and DEQ agree to immediately modify the schedules in the STP to be consistent with the schedules in the Settlement Agreement and Consent Order issued by the Court on October 17, 1995, in the actions *Public Service Co. of Colorado v. Batt*, No. CV 91-0035-S-EJL (D.Id.) and *United States v. Batt*, No. CV-91-0054-S-EJL (D.Id.), and to reissue this STP accordingly, by a target date of November 30, 1995.

# 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**.**

Table 3-1. INL Treatment Facilities.

| Facility | System | Handling * | HLW * | TRU * | LLW * | Facility Status |
|---|---|---|---|---|---|---|
| Advanced Mixed Waste Treatment Project | CH TRU/MLLW Treatment Unit | CH | N | Y | Y | 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 Components Maintenance Shop | Deactivation, Open/Melt/Drain, Neutralization, Stabilization, Water Reaction | B | 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 |
| ARP VII Debris Repackaging Facility | Sort, Segregate, Absorption, Sizing, Decontamination | B | N | Y | Y | Existing, operating |
| Radioactive Mixed Waste Staging Facility (CPP-2725 and CPP-1617) | Macroencapsulation | B | N | N | Y | Existing, operating |
| CPP-659, Room 428 | Macroencapsulation | CH | N | N | Y | Existing, operating |

*Key: RH = remote handled
CH = contact handled
B = both RH and CH
Y = Yes
N = No

## 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.

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

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

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

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

### 3.2.2 Government-Owned Off-Site Disposal Facilities

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

### 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.

### 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 the High Modulus Polymeric Packaging System (HMPPS) macroencapsulation for drums and boxed waste. The HMPPS is made from high-strength HDPE and polypropylene specially formulated to resist contaminants and leachate. It consists of a zippered inner bag, a PVC-coated nylon middle liner, and a zippered outer shell.

### 3.2.8 Radioactive Mixed Waste Staging Facility (CPP-1617 and CPP-2725)

The INTEC Radioactive Mixed Waste Staging Facility, CPP-1617 and CPP-2725, currently is HWMA/RCRA permitted to perform commercially available macroencapsulation using macropacks for smaller, lighter weight, and lower radiation dose wastes or macrobag/liner system from PacTec known as the HMPPS. The HMPPS uses a polymeric organic liner/jacket for secure macroencapsulation of radioactive lead solids and hazardous debris in soft-sided bags of various sizes. Heavier, bulkier, or higher radiation dose wastes are anticipated to be macroencapsulated in cement, grout-based, custom macroencapsulation unit(s).

### 3.2.9 INTEC, CPP-659

The INTEC CPP-659, Room 428, facility currently is HWMA/RCRA permitted to perform commercially available macroencapsulation using macropacks for smaller, lighter weight, and lower radiation dose wastes or a macrobag/liner system described above, the HMPPS. As noted, above, the HMPPS uses a polymeric organic liner/jacket for secure macroencapsulation of radioactive lead solids and hazardous debris in soft-sided bags of various sizes.

## 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 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 and VII (ARP V and VII). 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.

a. See footnote g in Section 5.4, infra.

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

### 3.3.2 Advanced Mixed Waste Treatment Project

The ultimate goal of AMWTP is to prepare Transuranic Storage Area (TSA) waste for shipment and to produce final waste forms that are certified for disposal at WIPP. The AMWTP is designed to process approximately 65,000 $m^3$ of primarily MLLW and TRU CH mixed waste and radioactive waste from the TSA, plus an additional 20,000 $m^3$ of waste (similar in content to the 65,000 $m^3$) during the first 13 years of operations. The original volume of TRU-contaminated mixed waste is listed in Table 4-2. Section 4.2 also includes the volume of this waste that has been processed to meet the requirement of Section 5.4. The TSA-stored waste slated for the AMWTP waste management units is retrieved from storage; characterized for storage, treatment, or direct shipment; stored (if necessary); treated (as required); packaged; and certified for disposal at WIPP or determined to be appropriately managed as MLLW as described in Section 5.4.[b]

### 3.3.3 ARP V Sludge Repackaging Facility

The ARP V Sludge Repackaging Facility (ARP V) manages sludge waste drums and boxes currently in storage at the AMWTP. The sludge waste includes various organic and inorganic waste streams. The ARP V processes the waste at WMF-1617 by opening the drums, emptying the contents onto a sorting tray or table, sorting and segregating the waste by removing any prohibited items, adding absorbent to any liquids, performing certified visual examination, performing any required

b. See footnote g in Section 5.4, infra.

characterization, and repackaging the waste to meet the WIPP WAC. The facility also stores the waste after processing pending transfer back to AMWTP.

### 3.3.4 ARP VII Debris Repackaging Facility (WMF-1619)

The ARP VII Debris Repackaging Facility (WMF-1619) manages debris waste boxes currently in storage at the AMWTP. The boxed waste includes various large debris that cannot be handled effectively at AMWTP. The debris repackaging facilities process the waste at WMF-1619 by opening the boxes, removing the container from around the debris waste, segregating/sorting the loose debris into separate waste boxes, opening/crushing inner containers with liquid content, adding absorbent to liquids with the absorbed material being placed into the boxes of repackaged loose debris, segregating WIPP-prohibited items, and sizing waste to fit into containers. In addition, the large debris items may be decontaminated by operations personnel in personal protective equipment followed by absorption of any decontamination fluids. All waste processing activities are performed in secondary containment pans located within WMF-1619. The facility also stages and stores the waste before and after processing, pending transfer back to AMWTP.

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

The INL currently manages both calcine solids and sodium-bearing waste (SBW). The calcine solids are considered to be mixed high-level waste (HLW). The SBW is currently being assessed by DOE for proper radiological waste classification. *The Idaho High-Level Waste & Facilities Disposition, Final Environmental Impact Statement* (DOE/EIS-0287; September 2002) analyzed the environmental impacts of alternative treatment disposal options for these wastes. In a December 2005 Record of Decision (ROD), DOE decided to treat SBW using steam reforming technology. Until such time as regulatory approvals are obtained, DOE will manage the waste for storage at the INL Site until a disposition path is available.

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

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

### 3.4.1 Calcine Disposition Facility

The Calcine Disposition Facility will use the HIP treatment process. The HIP processes the highly radioactive solid-granule calcine with additives that will convert the waste to a monolithic, glass-ceramic waste form that can meet the most stringent standards of the *Civilian Radioactive Waste Management System - Waste Acceptance System Requirements Document* (WASRD) (DOE/RW-0351).

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

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

- Prepare and treat the mixed HLW calcine solids with the HIP so they will be suitable for disposal in a repository
- Treat and dispose of associated radioactive wastes
- Provide safe storage of HLW calcine destined for a repository
- 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 435.1, "Radioactive Waste Management," 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.

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-180CH | Sodium – MLLW Contact Handled | 12.725 | 0.00 |
| CH-ANL-180RH | Sodium MLLW Remote Handled | 40.422 | 0.00 |
| CH-ANL-182CH | Sodium Potassium NaK Contact Handled | 2.033 | 0.00 |
| CH-ANL-182RH | Sodium Potassium NaK Remote Handled | 0.500 | 0.00 |
| CH-ANL-553 | WCA Mixed Waste | 0.212 | 0.00 |
| CH-ANL-716CH | MLLW Contact Handled | 0.000 | 1.05 |
| CH-ANL-716RH | MLLW Remote Handled | 1.700 | 1.05 |
| CH-ANL-722 | Lithium Hydride | 4.160 | 0.00 |
| ID-AMWTP-100 | Mixed Waste Incidental to Processing | 2.762 | 50.00 |
| ID-INL-803 | Aerosol Waste | 0.000 | 0.00 |
| ID-INL-804 | TSCA Waste | 0.000 | 0.00 |
| ID-INL-806 | INTEC Mixed Low-Level Waste | 1.320 | 1.10 |
| ID-SDS-MLLW | Non-Settlement Agreement, Non-TRU MLLW, Containers of Waste and Debris with Sodium and Cadmium from SDS System | 5.158 | 0.57 |
| ID-TEC-175 | INTEC Liquid Waste | 48.450 | 5.7 |
| NR-NRF-673 | Heavy Metal Debris | 0.000 | 0.00 |
| | **Total** | **119.444** | **59.47** |

## 4.2 Transuranic-Contaminated Waste Streams

The waste streams in Section 4.2, "Transuranic-Contaminated Waste Streams," are the original TRU-contaminated waste streams (i.e., waste stored as TRU at the time the Idaho Settlement Agreement and Consent Order were signed and approved by the court on October 17, 1995). These streams included 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 MTRU and α-MLLW 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 WIPP. Under the WAC, WIPP only accepts MTRU and TRU waste that has been characterized per 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 currently 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. The first two sections of this table list the MTRU waste streams managed by the AMWTP. After retrieval from the AMWTP TSA-RE, waste streams remaining to be treated at the AMWTP, the ARP V Sludge Repackaging Facility, the ARP VII Debris Repackaging Facility, and the RWDP often cannot be differentiated one from another. This waste is segregated after retrieval for further characterization, treatment, and ultimate disposal at WIPP into two main waste categories: debris, and solids/soil as shown in the first column of Table 4-2. The total in Summary Table 4-2 represents the original TRU-contaminated waste volume.

Summary Table 4-2 summarizes the progress to-date in managing these waste streams for disposal off-Site and at WIPP. MTRU waste generated after the date of execution of the Settlement Agreement is included in Section 4.2a.

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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.

In managing the TRU-contaminated waste streams, much of the waste is required to be retrieved from an above-ground, covered waste area, called the Transuranic Storage Area-Retrieval Enclosure (TSA-RE), at the AMWTP. Waste is also treated at the AMWTP, the ARP V Sludge Repackaging Facility, the ARP VII Debris Repackaging Facility, and the RWDP. If additional treatment is necessary to meet LDR requirements for α-MLLW, appropriate amendments will be made to this STP. PCB-contaminated TRU-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 WIPP, and the mixed CH-TRU-contaminated waste will be managed by the AMWTP for disposal to WIPP.

As of February 21, 2017, all of the "original volume" TRU waste stored at the time of the Idaho Settlement Agreement and Consent Order was retrieved. The estimated volume of "original volume" of TRU was approximately 65,000 $m^3$, as presented in Table 4-2 and the final volume retrieved was 66,400 $m^3$. Future reporting will be based on the final retrieved volume processed at the INL and will be documented in Summary Table 4-2. Table 4-2 will remain for documenting historical progress against the "original volume."

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

| Waste Category | STP ID | Waste Stream Name | STP ID Total ($m^3$) | Deleted Waste Streams |
|---|---|---|---|---|
| **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 | X |
| 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 | X |
| 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-BWX-500T | BABCOCK AND WILCOX | 15.58 | |
| 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-MCO-500T | MONSANTO DAYTON LABORATORY WASTE | 19.83 | |
| 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 | |

Table 4-2. (continued).

| Waste Category | STP ID | Waste Stream Name | STP ID Total ($m^3$) | Deleted Waste Streams |
|---|---|---|---|---|
| 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 | X |
| 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-MXA-142 | MEXICAN AMERICIUM | 55.88 | |
| 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 | X |
| Debris | ID-RFO-301T | GRAPHITE CORES | 7.63 | |
| Debris | ID-RFO-302T | BENELEX AND PLEXIGLASS | 4.66 | |
| 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 | |

Table 4-2. (continued).

| Waste Category | STP ID | Waste Stream Name | STP ID Total ($m^3$) | Deleted Waste Streams |
|---|---|---|---|---|
| Debris | ID-RFO-970T | WOOD | 4.66 | |
| 65% Debris | ID-RFO-9999T | PRE-73 DRUMS | 4,865.99 | |
| Debris | ID-TAN-200T | AMERICIUM SOURCES | 0.21 | X |
| Debris | ID-TEC-156 | CHEM CELL RIP-OUT | 28.53 | X |
| Debris | ID-TEC-172 | HEPA FILTERS | 27.91 | X |
| Debris | ID-TEC-699T | MIXED TRU WASTE FROM NWCF AND CSSF | 2.7563 | |
| | | **TOTAL DEBRIS** | **49,810.33** | |
| **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 | X |
| 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 | X |
| Solids/Soil | ID-RFO-980T | FILTER SLUDGE | 0.21 | |
| Solids/Soil | ID-RFO-990T | DIRT | 99.64 | |
| 35% Solids/Soil | ID-RFO-9999T | PRE-73 DRUMS | 2,620.15 | |
| Solids/Soil | ID-TEC-151T | SOLIDIFIED FUEL SLUDGE | 0.23 | X |
| Solids/Soil | ID-TRA-291T | TRU HEAVY METAL SLUDGE | 2.54 | X |
| | | **TOTAL SOLIDS/SOIL** | **13,951.28** | |

1

Table 4-2. (continued).

| Waste Category | STP ID | Waste Stream Name | STP ID Total Remaining FY-18 ($m^3$) |
|---|---|---|---|
| **RWDP MANAGED MIXED-TRU AND TRU WASTE STREAMS** | | | |
| NA | CH-ANL-180T | SODIUM – TRU | 0.442 |
| NA | CH-ANL-241T | TRU-CD-HOT CELL WASTE | 0.110 |
| NA | ID-DTR-LLW | RWDP DAUGHTERS TO BE DISPOSED OF AS LOW LEVEL WASTE | 1.026 |
| NA | ID-DTR-MLLW | RWDP DAUGHTERS TO BE DISPOSED OF AS MIXED LOW LEVEL WASTE | 0.456 |
| NA | ID-RWDP-RH | WASTE TO BE PROCESSED BY RWDP | 1.694 |
| NA | ID-SDS-TRU | TRU WASTE FROM SDS TREATMENT | 10.374 |
| NA | ID-TRU-RHNH | RH TRU, NON-HAZARDOUS WASTE GENERATED FROM RWDP TREATMENT | 0.228 |
| Two waste streams, ID-DTR-LLW and ID-DTR-MLLW, which were generated from RWDP treatment of original, TRU-contaminated waste streams, were added to this table, as these waste streams will continue to be managed as part of the original, TRU-contaminated waste streams until they are deleted from the STP per Section 2.7. | | | |

**Summary Table 4-2**

| STP ID | Waste Stream Name | STP ID Total ($m^3$) | Processed Total ($m^3$) |
|---|---|---|---|
| **RWDP AND AMWTP MANAGED MIXED-TRU AND TRU WASTE STREAMS SUMMARY** | | | |
| AMWTP MANAGED WASTE STREAMS TOTALS | DEBRIS/SOLIDS AND SOILS | 66,400[a] | 60,475.327 |
| RWDP MANAGED WASTE STREAMS TOTALS | VARIOUS (see Table 4-2 continued above) | 14.330 | 0 |
| | Totals | 66,414.330 | 60,475.327 |

**NOTE:** *The original volume of TRU-contaminated waste processed to the end of FY 2018 is 60,475.327 $m^3$. The volume of 60,475.327 $m^3$ includes 5,632 $m^3$ processed from 1999 to 2005 and 54,843.512 $m^3$ 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 (i.e., waste listed on Table 4-2), through the Advanced Mixed Waste Treatment Project or other facilities (see Section 5-4, "Mixed Transuranic-Contaminated Waste Shipped to WIPP"). The cumulative total of the yearly milestone from 2006 through FY 2018 equals 58,500 $m^3$.*

**[a] This volume has been adjusted from 63,761.61 $m^3$ to 66,400 $m^3$ to reflect the actual stored TRU waste volume retrieved.**

# 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 | 0.114 | 0.00 |
| CH-ANL-241Ta | MTRU REMOTE HANDLED TO BE WIPP CERTIFIED IN CPP-659 | 1.040 | 7.23 |
| CH-ANL-241Ta1 | MTRU REMOTE HANDLED TO BE REPACKAGED IN CPP-666 | 1.100 | 0.00 |
| CH-ANL-505Ta | MTRU CONTACT HANDLED | 0.416 | 1.06 |
| ID-AMWTP-100Ta | MTRU INCIDENTAL TO PROCESSING | 163.406 | 140.00 |
| ID-SDS-TRUa | TRU WASTE FROM SDS TREATMENT | 0.688 | TBD |
| ID-TEC-172Ta | MIXED TRU HEPA FILTERS | 0.906 | 1.00 |
| ID-TEC-670Ta | MTRU LABORATORY ANALYTICAL WASTE | 9.752 | 0.00 |

Table 4-2a. (continued).

| STP ID | Waste Stream Name | STP Total ($m^3$) | 5-year Generation ($m^3$) |
|---|---|---|---|
| ID-TEC-699Ta | MIXED TRU WASTE FROM NWCF AND CSSF | 0.320 | 0.00 |
| ID-TRU-RHMa | RH TRU MIIXED WASTE GENERATED FROM RWDP TREATMENT PROCESS | 0.342 | 0.342 |
| ID-TRU-RHNHa | RH TRU, NON-HAZARDOUS GENERATED FROM RWDP TREATMENT PROCESS | 2.510 | 0.00 |
| | **Total** | **180.594** | **150.672** |

## 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 | 3,222.44 | 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.

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

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

| Waste Stream ID | Waste Stream Name | Received into Storage at INL $m^3$ (gross) | Received into Storage at INL $m^3$ (net) | Shipped Off-Site ($m^3$) | 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** | | | | | | | |
| 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 Pre- and Post-Treatment/Storage of Off-Site Mixed Waste

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

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

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

The following process will be used for notification and documentation:

(a) Subsequent to approval of the treatment plan by DEQ, DOE will notify DEQ of the proposed schedule for receipt and completion of the primary treatment of off-Site mixed waste, and shipment of the treated waste and waste treatment residues off-Site at the quarterly meeting or, if necessary, no later than one week prior to the shipment of the waste. This notification will be accomplished by submittal of a new STP Table 4-5 that lists the waste streams and the corresponding dates.

(b) The DOE STP Project Manager will also orally notify the DEQ STP Project Manager of the actual dates the off-Site mixed waste is received at the INL, when the primary treatment step listed in Table 6-2 is complete, and when the waste and treatment residues are shipped off-Site. This oral notification will be made within two working days of the occurrence. Table 4-5 will be updated at each quarterly INL STP meeting to reflect the actual dates if these dates differ from

the dates proposed in Table 4-5. When a waste stream has been shipped off-Site, it will be removed from Table 4-5 at the next quarterly INL STP meeting.

(c) In the event delays beyond the control of DOE occur (such as treatment unit downtime, maintenance, or transportation delays) that could impact the ability to meet the proposed schedule submitted in Table 4-5, the DOE Project Manager will orally notify the DEQ STP Project Manager within five days of knowledge of the delay. A modified Table 4-5 will be developed by DOE and submitted to DEQ in writing within 10 working days of the initial oral notification of the delay.

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

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<br>P = Proposed<br>A = Actual | Date of Primary Treatment or Sampling, etc.<br>P = Proposed<br>A = Actual | Date Treated Wastes and/or Treatment Residues Shipped Off-Site<br>P= Proposed<br>A= Actual |
|---|---|---|---|---|---|---|
| | | | | | | |
| **NOTE:** *No off-Site waste was received on-Site during FY 2018.* | | | | | | |

## 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 |
|---|---|---|
| AECHDM-PK | ARGONNE NATIONAL LABORATORY-CHICAGO<br>Disposition: Treated and Shipped Off-Site. | 12/14/13 |
| AECHHM-PK | ARGONNE NATIONAL LABORATORY-CHICAGO<br>Disposition: Treated and Shipped Off-Site. | 3/18/14 |
| AE-W015 | ORGANIC SOLVENTS<br>Disposition: Alternative treatment technology. | 1/24/01 |

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|---|---|---|
| AE-W030 | COMBUSTIBLE SOLIDS W/ METALS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| AE-W031 | COMBUSTIBLE SOLIDS W/ ORGANICS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| AE-W034 | PPE CONTAMINATED WITH LEAD<br>Disposition: Alternative treatment technology. | 1/24/01 |
| AF-MW-01 | AIR FORCE MUNITIONS MAINTENANCE WASTE<br>Disposition: Alternative treatment technology. | 1/24/01 |
| ANL-E (debris) | ARGONNE NATIONAL LABORATORY-CHICAGO<br>Disposition: Treated and Shipped Off-Site. | 1/3/12 |
| ANL-E (sludge) | ARGONNE NATIONAL LABORATORY-CHICAGO<br>Disposition: Treated and Shipped Off-Site. | 1/3/12 |
| BN-W007 | MERCURY WASTE<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| BT-W001 | ORGANIC LIQUID WASTE WITH HEAVY METALS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| BT-W002 | SPENT SOLVENT RAGS<br>Disposition: Treated and no future generation of this waste stream. | 10/29/97 |
| BT-W003 | ORGANIC WASTE WITH HEAVY METALS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| BT-W005 | PAINT CHIPS W/ HEAVY METALS MAY HAVE PCB<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| BT-W007 | SOLIDS WITH SOLVENTS<br>Disposition: Treated with no future generation of this waste stream. | 10/29/97 |
| BT-W008 | MERCURY-CONTAINING WASTE<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| BT-W009 | VOC-CONTAMINATED SOIL<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| BT-W010 | ORGANIC LIQUIDS W/ HEAVY METALS PCBs, & VOC<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| BT-W012 | VOC & PCB-CONTAMINATED DEBRIS<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| BT-W013 | VOC & PCB-CONTAMINATED SOIL<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| BT-W017 | ION EXCHANGE RESIN<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| BT-W018 | TCLP EXTRACTION FLUID<br>Disposition: Alternative treatment technology. | 1/24/01 |
| BT-W019 | ELEMENTAL LEAD<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|---|---|---|
| BT-W020 | BRASS AND BRONZE<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| BT-W028 | VOC AND PCB-CONTAMINATED WATER<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| BT-W029 | VOC-CONTAMINATED SEDIMENT/SLUDGE<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| BT-W030 | VOC-CONTAMINATED DEBRIS<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| BT-W031 | VOC AND PCB-CONTAMINATED SLUDGE<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| BT-W033 | IGNITABLE LIQUID<br>Disposition: Treated with no future generation of this waste stream. | 10/29/97 |
| BT-W036 | PCB-CONTAMINATED INORGANIC DEBRIS/PARTIC<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| CH-ANL-111 | URANIUM/CADMIUM FROM FCF<br>Disposition: Treated and no longer generated | 4/22/09 |
| CH-ANL-142 | LEAD CONTAM. SOLIDS ANL-W OPERATIONS<br>Disposition: Treated and no longer generated. | 10/31/10 |
| CH-ANL-142T | LEAD-CONTAMINATED WASTE<br>Disposition: Treated and no longer generated. | 10/11/14 |
| CH-ANL-179 | SODIUM (CONTAMINATED) TIN BISMUTH<br>Disposition: Treated and no longer generated. | 01/24/18 |
| CH-ANL-180 | SODIUM-LLW CONTACT HANDLED<br>Disposition: Treated and no longer generated. | 9/28/13 |
| CH-ANL-182 | SODIUM POTASSIUM NAK<br>Disposition: Treated and no longer generated. | 9/28/13 |
| CH-ANL-182T | SODIUM POTASSIUM -NAK- TRU<br>Disposition: Treated and no longer generated. | 1/21/16 |
| CH-ANL-183 | RADIOACTIVE PAINT STRIPPING WASTE<br>Disposition: Treated and no longer generated. | 10/27/04 |
| CH-ANL-184 | SOLVENT DECON SOLUTION (NONHALOGENATED)<br>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<br>Disposition: Combined with another waste stream. | 4/22/09 |
| CH-ANL-224 | CONTAMINATED HG-IBC CASK MAINTENANCE<br>Disposition: Treated and no longer generated. | 10/31/10 |
| CH-ANL-243T | METAL WASTE FORM<br>Disposition: This waste will not be generated as a mixed waste, LLW only. | 6/30/97 |

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|---|---|---|
| CH-ANL-244 | ICP WASTE SOLUTIONS W/ HEAVY METALS<br>Disposition: Treated and no longer generated. | 4/22/09 |
| CH-ANL-245T | ELECTROREFINER CADMIUM<br>Disposition: Combined with another waste stream. | 4/22/09 |
| CH-ANL-246T | ELECTROREFINER INSOLUBLES W/ CADMIUM<br>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<br>Disposition: Treated and no longer generated. | 4/22/09 |
| CH-ANL-503T | TRU WASTE USED PRE-FILTERS<br>Disposition: Treated and no longer generated. | 10/29/14 |
| CH-ANL-503Ta | TRU WASTE USED PRE-FILTERS<br>Disposition: Treated and no longer generated. | 10/29/14 |
| CH-ANL-506 | SODIUM STORED IN BUILDING 703 AND OTHER<br>Disposition: Moved to CH-ANL-180CH. | 10/29/14 |
| CH-ANL-554 | LEAD-CONTAMINATED DEBRIS<br>Disposition: Treated and no longer generated. | 10/31/10 |
| CH-ANL-601 | Cd-CONTAMINATED CLEANUP WASTE<br>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<br>Disposition: Treated and no longer generated. | 10/31/10 |
| CH-ANL-669 | MLLW Cd: FCF MODIFICATION AND ER WORK<br>Disposition: Treated and no longer generated. | 1/21/04 |
| CH-ANL-683 | LABORATORY CORROSIVE WASTE<br>Disposition: Treated and no longer generated. | 4/22/09 |
| CH-ANL-691 | TREAT/PHP STACK CONDENSATE WATER<br>Disposition: Treated and no longer generated. | 1/21/04 |
| CH-ANL-711 | EML ETCHING SOLUTION<br>Disposition: Treated and no longer generated. | 1/21/04 |
| CH-ANL-712 | ANL-W ETCHING SOLUTIONS<br>Disposition: Treated and no longer generated. | 1/21/04 |
| CH-ANL-716 | DEBRIS AND/OR SOLIDS W/HEAVY METALS<br>Disposition: Treated and no longer generated. | 9/28/13 |
| CH-ANL-RPK | REPACKAGED WASTE FOR SCMS<br>Disposition: Treated and no longer generated. | 10/31/10 |
| CN-W002 | LEAD AND LEAD-BEARING MATERIALS<br>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<br>Disposition: Treated and no longer generated. | 4/21/04 |

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|---|---|---|
| CN-W005 | Cd-PLATED METALS<br>Disposition: Treated and no longer generated. | 4/21/04 |
| CN-W006 | BRASS & BRONZE<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ET-CC-01 | WASTE OILS<br>Disposition: Has or will be treated by another site. Will not be received at the INL. | 4/27/99 |
| ET-W009 | PAINT CHIPS<br>Disposition: Has or will be treated by another site. Will not be received at the INL. | 4/27/99 |
| ET-W019 | CHROME SALT CORES<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| ET-W020 | LABORATORY ANALYTICAL REAGENT WASTE<br>Disposition: Has or will be treated by another site. Will not be received at the INL. | 4/27/99 |
| ET-W023 | ELEMENTAL MERCURY<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>Disposition: Has or will be treated by another site. Will not be received at the INL. | 4/27/99 |

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|---|---|---|
| GA-W037 | WASTE W/ F-LISTED SOLVENTS<br>Disposition: Has or will be treated by another site. Will not be received at the INL. | 4/27/99 |
| GA-W038 | MISCELLANEOUS LIQUID SOLVENTS<br>Disposition: Has or will be treated by another site. Will not be received at the INL. | 4/27/99 |
| GA-W043 | SVA ORGANIC LIQUID<br>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<br>Disposition: Has or will be treated by another site. Will not be received at the INL. | 4/27/99 |
| GEV Debris | DEBRIS WASTE FROM GENERAL ELECTRIC VALLECITOS OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 11/19/10 |
| GJPO-94-017 | WASTE OIL SLUDGE<br>Disposition: Alternative treatment technology. | 1/24/01 |
| GJPO-96-017 | MISC. COMBUSTIBLE MIXED WASTE<br>Disposition: Alternative treatment technology. | 1/24/01 |
| GJPO-97-030 | ACTIVATED CARBON<br>Disposition: Alternative treatment technology. | 1/24/01 |
| HNF Waste | HANFORD OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 6/27/11 |
| ID-AEO-100 | GENERAL PLANT WASTE<br>Disposition: Combined with ID-AEO-100. | 10/26/06 |
| ID-AEO-101 | CUT UP GLOVEBOXES<br>Disposition: Combined with ID-AEO-101T. | 10/26/06 |
| ID-AEO-101T | CUT UP GLOVEBOXES<br>Disposition: Treated, and remaining volume combined with BN510. | 10/26/06 |
| ID-AEO-102 | ABSORBED LIQUIDS<br>Disposition: Combined with ID-AEO-102T. | 10/26/06 |
| ID-AMWTP-200 | RECLASSIFIED MLLW FROM TRU<br>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<br>Disposition: The waste was moved back into the original waste stream of CH-ANL-553 for tracking purposes. | 10/23/13 |
| ID-ANL-160T | ANL-W HFEF ANALYTICAL CHEMISTRY AND METAL<br>Disposition: Treated and shipped to WIPP. | 10/26/10 |
| ID-ANL-163T | ANL-W ACL COLD-LINED ABSORBED LIQUID, MIS (vol. moved to BN510)<br>Disposition: Treated and no longer generated. | 7/27/16 |

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|---|---|---|
| ID-BCO-201 | NONCOMBUSTIBLE SOLIDS<br>Disposition: Combined with ID-BCO-201T. | 10/26/06 |
| ID-BCO-202 | COMBUSTIBLE SOLIDS<br>Disposition: Combined with ID-BCO-202T. | 10/26/06 |
| ID-BCO-203 | PAPER, METALS, GLASS<br>Disposition: Combined with ID-BCO-203T. | 10/26/06 |
| ID-BCO-204 | SOLIDIFIED SOLUTIONS<br>Disposition: Combined with ID-BCO-204T. | 10/26/06 |
| ID-BTO-010 | RAGS, GLOVES, POLY<br>Disposition: Combined with ID-BTO-010T. | 10/26/06 |
| ID-BTO-020 | NONCOMPRESSIBLE, NONCOMBUSTIBLE<br>Disposition: Combined with ID-BTO-020T. | 10/26/06 |
| ID-BTO-030 | SOLIDIFIED GRINDING SLUDGE, ETC<br>Disposition: Combined with ID-BTO-030T. | 10/26/06 |
| ID-CFA-103 | LIQUID LAB WASTE W/ METALS AND ORGANICS<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-CFA-107 | ARA-IV SUMP SLUDGE<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-CFA-108 | BA AND CD CALIBRATION SOURCES<br>Disposition: Treated and no longer generated. | 10/26/04 |
| ID-CFA-121 | HEAVY METAL LIQUID LAB WASTES<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-CFA-193 | EXPERIMENTAL BREEDER REACTOR-I NaK<br>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<br>Disposition: Treated and no longer generated. | 1/21/04 |
| ID-CFA-257 | METHYLENE CHLORIDE LAB WASTE<br>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<br>Disposition: Treated and no longer generated. | 10/27/04 |
| ID-CFA-260 | RADIOACTIVE PCB OIL W/ HEAVY METALS<br>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<br>Disposition: No future generation of this waste stream. | 2/23/98 |
| ID-CFA-285 | METHYLENE CHLORIDE LAB DEBRIS<br>Disposition: Incinerated at WERF. No waste is currently in storage (no backlog) and waste is not projected to be generated. | 5/28/96 |

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|---|---|---|
| ID-CFA-298 | DISTILLATION LIQUID WITH PYRIDINE<br>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<br>Disposition: This waste stream was determined to be nonhazardous through TCLP testing. | 2/12/96 |
| ID-CFA-533 | ARA-I D&D NONCOMPACTIBLE LEAD<br>Disposition: Treated and no longer generated. | 1/21/04 |
| ID-CFA-535 | SAMPLE ACIDIFIED FOR SULFIDE AND CYANIDE<br>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<br>Disposition: Treated and no longer generated. | 1/21/04 |
| ID-CFA-556 | AQUEOUS WASTE SUBJECT TO UHCS<br>Disposition: Treated and no longer generated. | 10/27/04 |
| ID-CFA-661 | ELECTRICAL COMPONENTS W/ LEAD<br>Disposition: Treated and no longer generated. | 10/27/04 |
| ID-CFA-662 | SCINTILLATION COCKTAILS<br>Disposition: Treated and no longer generated. | 1/21/04 |
| ID-CFA-664 | EDTA AND LEAD<br>Disposition: Treated and no longer generated. | 10/27/04 |
| ID-CFA-667 | MIXED LEAD<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-CFA-676 | RESIN COLUMN MEDIA<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-CFA-677 | DEMINERALIZER FILTER<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-CFA-688 | ARA-1 SOILS W/ LEAD<br>Disposition: Treated and no longer generated. | 1/21/04 |
| ID-CFA-695 | ARA-II SEPTIC TANK SOLIDIFIED SLUDGE<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-CFA-701 | PAINT RESIDUE CONTAMINATED W/ PCBS<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-CFA-702 | ARA-1 D&D PPE and PIPING/DRAINS<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-CFA-705 | VERMICULITE WITH GREASE<br>Disposition: Treated and no longer generated. | 10/27/04 |
| ID-CFA-732 | CONTAMINATED GROUNDWATER SAMPLES<br>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<br>Disposition: Treated and no longer generated. | 1/21/04 |

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|---|---|---|
| ID-CPP-151T | SOLIDIFIED FUEL SLUDGE<br>Disposition: Renumbered ID-TEC-151T. | 10/26/04 |
| ID-CPP-156 | CHEM CELL RIP-OUT<br>Disposition: Renumbered ID-TEC-156. | 10/26/04 |
| ID-CPP-172 | HEPA FILTERS<br>Disposition: Renumbered ID-TEC-172. | 10/26/04 |
| ID-INL-100 | REPACKAGED WASTE<br>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<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-INL-142 | LEAD CONTAMINATED DEBRIS<br>Disposition: Waste moved to new Waste Stream Identifier (ID-INL-803). | 1/19/05 |
| ID-INL-143 | RADIOACTIVELY CONTAMINATED LEAD<br>Disposition: Waste moved to new Waste Stream Identifier (ID-INL-800 and ID-INL-801). | 1/19/05 |
| ID-INL-150 | LABORATORY WASTE<br>Disposition: Combined with ID-INL-150T. | 10/26/06 |
| ID-INL-155 | SCRAP<br>Disposition: Combined with ID-INL-155T. | 10/26/06 |
| ID-INL-187 | SIG SODIUM<br>Disposition: Treated and no longer generated. | 4/22/09 |
| ID-INL-213 | MERCURY-CONTAMINATED DEBRIS & ASBESTOS<br>Disposition: Waste moved to new Waste Stream Identifier. | 1/19/05 |
| ID-INL-220 | ACTIVATED CARBON LLMW<br>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<br>Disposition: Treated and no longer generated. | 10/27/04 |
| ID-INL-267 | PWTU SPENT FILTERS<br>Disposition: Treated and no longer generated. | 10/27/04 |
| ID-INL-268 | PWTU SPENT RESINS<br>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<br>Disposition: Treated and no longer generated. | 10/27/04 |
| ID-INL-289 | MISC. LABORATORY WASTES<br>Disposition: Combined with ID-INL-289T. | 10/26/06 |

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|---|---|---|
| ID-INL-299 | SAMPLE WASTE<br>Disposition: Remaining waste was classified as TRU. | 1/19/05 |
| ID-INL-550 | MLLW FROM WERF OPERATIONS<br>Disposition: Waste moved to new Waste Stream Identifier (ID-INL-803). | 1/19/05 |
| ID-INL-687 | LEGACY SAMPLES<br>Disposition: Treated and no longer generated. | 10/26/04 |
| ID-INL-694 | RETURNED SAMPLING RESIDUE<br>Disposition: Treated and no longer generated. | 10/26/04 |
| ID-INL-700 | PCB CONTAMINATED DEBRIS AND RESIDUE<br>Disposition: Treated and no longer generated. | 10/26/04 |
| ID-INL-710 | MLLW FLOOR STRIPPING MATERIALS<br>Disposition: Treated and no longer generated. | 10/27/04 |
| ID-INL-724 | MIXED LOW-LEVEL LIQUIDS<br>Disposition: Waste moved to new Waste Stream Identifier (ID-INL-803). | 1/19/05 |
| ID-INL-725 | LISTED DEBRIS<br>Disposition: Treated and no longer generated. | 10/26/04 |
| ID-INL-726 | MLLW OILS<br>Disposition: Treated and no longer generated. | 10/27/04 |
| ID-INL-800 | CLASS B & C WASTE<br>Disposition: Treated and no longer generated. | 7/29/15 |
| ID-INL-801 | CLASS A WASTE<br>Disposition: Treated and no longer generated. | 7/29/15 |
| ID-INL-802 | INTEC CLASS A WASTE<br>Disposition: Treated and no longer generated. | 7/29/15 |
| ID-INL-805 | INTEC CLASS B & C WASTE<br>Disposition: Waste moved to new waste stream identifier (ID-INL-806). | 7/29/15 |
| ID-IRC-271 | BIOPROCESSING MIXED WASTE<br>Disposition: Treated and no longer generated. | 1/21/04 |
| ID-IRC-501 | Cd AND Pb CONTAMINATED SOIL, TRACE RAD<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-IRC-668 | BIOASSAY ANALYSIS WASTE<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-MDO-803 | METAL, EQUIPMENT, PIPES, VALVES, ETC<br>Disposition: Combined with ID-MDO-803T. | 10/26/06 |
| ID-MDO-824 | NONCOMBUSTIBLE EQUIPMENT BOXES<br>Disposition: Combined with ID-MDO-824T. | 10/26/06 |
| ID-MDO-824T | NONCOMBUSTIBLE EQUIPMENT BOXES<br>Disposition: Treated, and remaining volume combined with BN510. | 10/26/06 |

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|---|---|---|
| ID-MDO-826 | COMBUSTIBLE EQUIPMENT BOXES OR FLOOR SWEEP<br>Disposition: Combined with ID-MDO-826T. | 10/26/06 |
| ID-MDO-834 | HIGH-LEVEL ACID<br>Disposition: Combined with ID-MDO-834T. | 10/26/06 |
| ID-MDO-835 | HIGH-LEVEL CAUSTIC<br>Disposition: Combined with ID-MDO-835T. | 10/26/06 |
| ID-MDO-836 | HIGH-LEVEL SLUDGE/CEMENT<br>Disposition: Combined with ID-MDO-836T. | 10/26/06 |
| ID-MDO-838 | <10 nCi/g, NONCOMBUSTIBLE<br>Disposition: Treated and no longer generated. | 7/27/16 |
| ID-MDO-842 | CONTAMINATED SOIL<br>Disposition: Combined with ID-MDO-842T. | 10/26/06 |
| ID-MDO-842T | CONTAMINATED SOIL<br>Disposition: Treated, and remaining volume combined with BN510. | 10/26/06 |
| ID-MDO-847 | LSA <100 nCi/g COMBUSTIBLE<br>Disposition: Combined with ID-MDO-847T. | 10/26/06 |
| ID-MDO-848 | LSA < 100 nCi/g<br>Disposition: Combined with ID-MDO-848T. | 10/26/06 |
| ID-MFC-100 | D&D SODIUM/NaK<br>Disposition: Waste treated and no longer generated. | 9/30/12 |
| ID-NRF-217 | HEAVY METAL RADIOACTIVE OIL<br>Disposition: Incinerated at WERF. No waste currently in storage (no backlog) and waste is not projected to be generated. | 5/28/96 |
| ID-OFS-111 | RESEARCH GENERATED WASTE NONCOMPACTIBLE<br>Disposition: Combined with ID-OFS-111T. | 10/26/06 |
| ID-OFS-121 | DECONTAMINATION AND DECOMMISSIONING WASTE<br>Disposition: Combined with ID-OFS-111T. | 10/26/06 |
| ID-PBF-147 | SOLIDIFIED WERF ASH (FAILED TCLP)<br>Disposition: Treated and no longer generated. | 10/26/04 |
| ID-PBF-153 | TAN/IET HOT WASTE SLUDGE<br>Disposition: Treated and no longer generated. | 1/21/04 |
| ID-PBF-212 | Pb AND Cd-CONTAMINATED SOIL<br>Disposition: Treated and no longer generated. | 10/27/04 |
| ID-PBF-261 | WERF BAGHOUSE BAGS (TEFLON)<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-PBF-263 | WERF HEPA FILTERS AND PREFILTERS<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-PBF-264 | WERF BAGHOUSE BAGS (BLUE MAX)<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-PBF-272 | URANIUM SPIKES AND LEAD<br>Disposition: Treated and no longer generated. | 10/27/04 |

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|---|---|---|
| ID-PBF-274 | WERF FLY ASH<br>Disposition: Treated and no longer generated. | 10/27/04 |
| ID-PBF-275 | WERF BOTTOM ASH<br>Disposition: Treated and no longer generated. | 10/27/04 |
| ID-PBF-277 | WERF SIZING BAGHOUSE DUST<br>Disposition: Treated and no longer generated. | 10/27/04 |
| ID-PBF-292 | FREON SYSTEM WASTE – LIQUID<br>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<br>Disposition: Incinerated at WERF. No waste currently in storage (no backlog) and waste is not projected to be generated. | 8/13/96 |
| ID-PBF-297 | TREATABILITY STUDY RESIDUES<br>Disposition: Treated and no longer generated. | 10/26/04 |
| ID-PBF-545 | CERCLA SOIL CONTAMINATED WITH CHROMIUM<br>Disposition: Treated and no longer generated. | 10/27/04 |
| ID-PBF-549 | AQUEOUS LIQUID W/ METALS AND PCBs<br>Disposition: Treated and no longer generated. | 1/21/04 |
| ID-PBF-550 | MLLW FROM WERF OPERATIONS<br>Disposition: Treated and no longer generated. | 7/27/16 |
| ID-PBF-558 | WERF MERCURY IN OIL<br>Disposition: Treatability study on 100% of waste. No future generation of this waste stream. | 2/23/98 |
| ID-PBF-678 | MWSF PIPING AND VALVES<br>Disposition: Treated and no longer generated. | 10/27/04 |
| ID-PBF-681 | DEBRIS FROM HEAT EXCHANGER CHANGE-OUT<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-PBF-684 | RINSATE WATER<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-PBF-686 | MERCURY CONTAMINATED RAGS<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-PBF-714 | WERF INCINERATOR FLY ASH<br>Disposition: Treated and no longer generated. | 10/27/04 |
| ID-PBF-715 | WERF INCINERATOR BOTTOM ASH<br>Disposition: Treated and no longer generated. | 10/27/04 |
| ID-RFO-000 | NOT RECORDED – UNKNOWN<br>Disposition: Combined with ID-RFO-000T. | 10/26/06 |
| ID-RFO-001 | FIRST STAGE SLUDGE<br>Disposition: Combined with ID-RFO-001T. | 10/26/06 |
| ID-RFO-002 | SECOND STAGE SLUDGE<br>Disposition: Combined with ID-RFO-002T. | 10/26/06 |

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|---|---|---|
| ID-RFO-003 | ORGANIC SETUPS, OIL SOLIDS<br>Disposition: Combined with ID-RFO-003T. | 10/26/06 |
| ID-RFO-004 | SPECIAL SETUPS (CEMENT)<br>Disposition: Combined with ID-RFO-004T. | 10/26/06 |
| ID-RFO-005 | EVAPORATOR SALTS<br>Disposition: Combined with ID-RFO-005T. | 10/26/06 |
| ID-RFO-007 | BLDG. 374 DRY SLUDGE<br>Disposition: Combined with ID-RFO-007T. | 10/26/06 |
| ID-RFO-112 | SOLIDIFIED ORGANICS<br>Disposition: Combined with ID-RFO-112T. | 10/26/06 |
| ID-RFO-113 | SOLID LAB WASTE<br>Disposition: Combined with ID-RFO-113T. | 10/26/06 |
| ID-RFO-114 | SOLIDIFIED PROCESS SOLIDS<br>Disposition: Combined with ID-RFO-114T. | 10/26/06 |
| ID-RFO-116 | COMBUSTIBLE WASTE<br>Disposition: Combined with ID-RFO-116T. | 10/26/06 |
| ID-RFO-117 | METAL WASTE<br>Disposition: Combined with ID-RFO-117T. | 10/26/06 |
| ID-RFO-119 | HEPA FILTER WASTE<br>Disposition: Combined with ID-RFO-119T. | 10/26/06 |
| ID-RFO-122 | INORGANIC SOLID WASTE<br>Disposition: Combined with ID-RFO-122T. | 10/26/06 |
| ID-RFO-123 | LEADED RUBBER R<br>Disposition: Combined with ID-RFO-123T. | 10/26/06 |
| ID-RFO-241 | AMERICIUM PROCESS RESIDUE<br>Disposition: Combined with ID-RFO-241T. | 10/26/06 |
| ID-RFO-292 | CEMENTED SLUDGE<br>Disposition: Combined with ID-RFO-292T. | 10/26/06 |
| ID-RFO-300 | GRAPHITE MOLDS<br>Disposition: Characterization data showed that this waste stream was nonhazardous. | 4/27/99 |
| ID-RFO-300T | GRAPHITE MOLDS<br>Disposition: Characterization data showed that this waste stream was nonhazardous. | 4/27/99 |
| ID-RFO-301 | GRAPHITE CORES<br>Disposition: Combined with ID-RFO-301T. | 10/26/06 |
| ID-RFO-302 | BENELEX AND PLEXIGLAS<br>Disposition: Combined with ID-RFO-302T. | 10/26/06 |
| ID-RFO-320 | HEAVY NONSPECIAL SOURCE METAL<br>Disposition: Combined with ID-RFO-320T. | 10/26/06 |

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|---|---|---|
| ID-RFO-328 | FULFLO INCINERATOR FILTERS<br>Disposition: Combined with ID-RFO-328T. | 10/26/06 |
| ID-RFO-330 | DRY PAPER AND RAGS<br>Disposition: Combined with ID-RFO-330T. | 10/26/06 |
| ID-RFO-335 | ABSOLUTE 8 X 8 FILTERS<br>Disposition: Combined with ID-RFO-335T. | 10/26/06 |
| ID-RFO-336 | MOIST PAPER AND RAGS<br>Disposition: Combined with ID-RFO-336T. | 10/26/06 |
| ID-RFO-337 | PLASTICS, TEFLON, WASH, PVC<br>Disposition: Combined with ID-RFO-337T. | 10/26/06 |
| ID-RFO-338 | INSULATION AND CHEMICAL WARFARE SERVICE<br>Disposition: Combined with ID-RFO-338T. | 10/26/06 |
| ID-RFO-339 | LEADED RUBBER GLOVES AND APRONS<br>Disposition: Combined with ID-RFO-339T. | 10/26/06 |
| ID-RFO-360 | INSULATION<br>Disposition: Combined with ID-RFO-360T. | 10/26/06 |
| ID-RFO-371 | FIREBRICK<br>Disposition: Combined with ID-RFO-371T. | 10/26/06 |
| ID-RFO-374 | BLACKTOP, CONCRETE, DIRT AND SAND<br>Disposition: Combined with ID-RFO-374T. | 10/26/06 |
| ID-RFO-375 | OIL-DRI RESIDUE FROM INCINERATOR<br>Disposition: Combined with ID-RFO-375T. | 10/26/06 |
| ID-RFO-376 | CEMENTED INSULATION FILTER MEDIA<br>Disposition: Combined with ID-RFO-376T. | 10/26/06 |
| ID-RFO-430 | UNLEACHED ION COLUMN RESIN<br>Disposition: Combined with ID-RFO-430T. | 10/26/06 |
| ID-RFO-431 | LEACHED RESIN<br>Disposition: Combined with ID-RFO-431T. | 10/26/06 |
| ID-RFO-432 | LEACHED AND CEMENTED RESIN<br>Disposition: Combined with ID-RFO-432T. | 10/26/06 |
| ID-RFO-440 | GLASS<br>Disposition: Combined with ID-RFO-440T. | 10/26/06 |
| ID-RFO-441 | UNLEACHED RASHIG RINGS<br>Disposition: Combined with ID-RFO-441T. | 10/26/06 |
| ID-RFO-442 | LEACHED RASHIG RINGS<br>Disposition: Combined with ID-RFO-442T. | 10/26/06 |
| ID-RFO-463 | LEADED RUBBER GLOVES AND APRONS<br>Disposition: Combined with ID-RFO-463T. | 10/26/06 |
| ID-RFO-464 | BENELEX AND PLEXIGLASS<br>Disposition: Combined with ID-RFO-464T. | 10/26/06 |

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|---|---|---|
| ID-RFO-480 | NONSPECIAL SOURCE METAL<br>Disposition: Combined with ID-RFO-480T. | 10/26/06 |
| ID-RFO-481 | LEACHED NONSPECIAL SOURCE METAL<br>Disposition: Combined with ID-RFO-481T. | 10/26/06 |
| ID-RFO-490 | CHEMICAL WARFARE SERVICE FILTERS<br>Disposition: Combined with ID-RFO-490T. | 10/26/06 |
| ID-RFO-900 | LOW SPECIFIC ACTIVITY PLASTICS, PAPER, ETC.<br>Disposition: Combined with ID-RFO-900T. | 10/26/06 |
| ID-RFO-950 | LOW SPECIFIC ACTIVITY METAL, GLASS, ETC<br>Disposition: Combined with ID-RFO-950T. | 10/26/06 |
| ID-RFO-970 | WOOD<br>Disposition: Combined with ID-RFO-970T. | 10/26/06 |
| ID-RFO-976 | BLDG. 776 PROCESS SLUDGE<br>Disposition: Combined with ID-RFO-976T. | 10/26/06 |
| ID-RFO-978 | LAUNDRY SLUDGE<br>Disposition: Combined with ID-RFO-978T. | 10/26/06 |
| ID-RFO-978T | LAUNDRY SLUDGE<br>Disposition: Treated, and remaining volume combined with BN510. | 10/26/06 |
| ID-RFO-9999 | PRE-73 DRUMS<br>Disposition: Combined with ID-RFO-9999T. | 10/26/06 |
| ID-RWDP-RHa | RH MTRU WASTE TO BE PROCESSED BY RWDP<br>Disposition: Treated and no longer generated. | 7/27/16 |
| ID-RWM-221 | IGNITABLE LIQUID<br>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<br>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<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-RWM-508 | EQUIPMENT PIT DECON WASTE<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-RWM-685 | HEPA FILTERS FROM DRUM VENT FACILITY<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-RWM-692 | NITRATE SALTS<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-SMC-133 | MISCELLANEOUS LAB WASTES<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-SMC-149A | SPENT GM 141 SAPC SOLVENT<br>Disposition: No future generation of this waste stream. All inventory has been treated via incineration. | 8/17/98 |

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|---|---|---|
| ID-SMC-149B | SPENT STODDARD SOLVENT<br>Disposition: No future generation of this waste stream. All inventory has been treated via incineration. | 8/17/98 |
| ID-SMC-301 | TCA STILL BOTTOMS<br>Disposition: Treated and no longer generated. | 1/21/04 |
| ID-SMC-303 | MISCELLANEOUS PAINT WASTES<br>Disposition: Treated and no longer generated. | 1/21/04 |
| ID-SMC-304 | CALCINED URANYL NITRATE<br>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<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-SMC-400 | RAD-CONTAMINATED LEAD<br>Disposition: Treated and no longer generated. | 1/21/04 |
| ID-SMC-411 | MIXED WASTE DEBRIS<br>Disposition: Treated and no longer generated. | 10/27/04 |
| ID-SMC-412 | ETHYLENE GLYCOL HYDRAULIC FLUID<br>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)<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-SMC-528 | CADMIUM-CONTAMINATED MOP WATER<br>Disposition: Treated and no longer generated. | 1/21/04 |
| ID-SMC-529 | ACID CONCRETE ETCH<br>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<br>Disposition: Treated and no longer generated. | 10/27/04 |
| ID-SMC-691 | NITRIC ACID<br>Disposition: Treated and no longer generated. | 1/21/04 |
| ID-SMC-696 | LEGACY TCE AND CORROSIVE WASTE<br>Disposition: Treated and no longer generated. | 1/21/04 |
| ID-TAN-124 | HTRE-3 Hg CONTAMINATED CONCRETE<br>Disposition: Treated and no longer generated. | 10/27/04 |
| ID-TAN-126 | HTRE-3 SPILL CLEANUP MATERIAL<br>Disposition: Treated and no longer generated. | 10/26/04 |
| ID-TAN-161 | TAN TCLP SLUDGE (TCE, PCE)<br>Disposition: Treated and no longer generated. | 10/26/04 |
| ID-TAN-162 | TAN DECON SOLVENT WASTE<br>Disposition: No future generation of this waste stream. All inventory has been treated. | 10/23/13 |

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|---|---|---|
| ID-TAN-163 | TAN DECON HEAVY METAL SOLIDS AND DEBRIS<br>Disposition: No future generation of this waste stream. All inventory has been treated. | 10/23/13 |
| ID-TAN-170 | IET LIQUID WASTE<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-TAN-188 | TURCO DECON SOLUTION (UNUSED)<br>Disposition: Treated and no longer generated. | 1/21/04 |
| ID-TAN-200T | AMERICIUM SOURCES<br>Disposition: Treated and no longer generated. | 7/27/16 |
| ID-TAN-209 | TURCO DECON (OXIDIZER)<br>Disposition: Treated and no longer generated. | 10/27/04 |
| ID-TAN-254 | HTRE-III TREATMENT SLUDGE<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-TAN-276 | WATER WITH TRICHLOROETHYLENE<br>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<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-TAN-502 | ISV HEPA FILTERS<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-TAN-531 | LEAD SHIELDING LOFT MOBILE TEST<br>Disposition: Treated and no longer generated. | 10/27/04 |
| ID-TAN-534 | TAN-616 LEAD SHIELDING (PLATING)<br>Disposition: Treated and no longer generated. | 1/21/04 |
| ID-TAN-547 | RADIOACTIVE CADMIUM SOURCES<br>Disposition: Treated and no longer generated. | 10/27/04 |
| ID-TAN-548 | MACROENCAPSULATED LEAD SWARF<br>Disposition: Treated and no longer generated. | 10/27/04 |
| ID-TAN-557 | TAN-607 FLOOR SWEEPINGS & VAT RESIDUE<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-TAN-559 | GWTF AND PWTU WASTE<br>Disposition: Treated and no longer generated. | 10/26/04 |
| ID-TAN-666 | PCB-CONTAMINATED DEBRIS<br>Disposition: Waste moved to new Waste Stream Identifier (ID-INL-804). | 1/19/05 |
| ID-TAN-679 | TAN-648 RPSSA RAINWATER<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-TAN-709 | DRUM EVAPORATOR SOLIDS<br>Disposition: Treated and no longer generated. | 10/27/04 |
| ID-TAN-718 | SAMPLING EQUIPMENT AND RESIDUE<br>Disposition: Treated and no longer generated. | 10/27/04 |

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|---|---|---|
| ID-TAN-721 | SILVER ZEOLITE<br>Disposition: Treated and no longer generated. | 10/27/04 |
| ID-TAN-723 | PAINT CHIPS WITH LEAD/PCBs<br>Disposition: Treated and no longer generated. | 10/27/04 |
| ID-TAN-727 | TAN WASTE FROM CLEAN-UP ACTIVITIES<br>Disposition: Waste moved to new Waste Stream Identifier (ID-INL-800). | 1/19/05 |
| ID-TEC-111 | CADMIUM-CONTAMINATED SOLIDS<br>Disposition: Treated and no longer generated. | 10/27/04 |
| ID-TEC-131 | MERCURY-CONTAMINATED SOLIDS<br>Disposition: Waste moved to new Waste Stream Identifier (ID-INL-800). | 1/19/05 |
| ID-TEC-151T | SOLIDIFIED FUEL SLUDGE<br>Disposition: Treated and no longer generated. | 7/27/16 |
| ID-TEC-154 | RADIOACTIVE CONTAMINATED LEAD<br>Disposition: Treated and no longer generated. | 10/26/04 |
| ID-TEC-156 | CHEM CELL RIP-OUT<br>Disposition: Treated, and remaining volume combined with BN510. | 10/26/06 |
| ID-TEC-160 | PCB CONTAMINATED WASTE<br>Disposition: Treated and no longer generated. | 10/26/04 |
| ID-TEC-172 | HEPA FILTERS<br>Disposition: Treated and no longer generated. | 1/27/10 |
| ID-TEC-201 | F002 CONTAMINATED SOLIDS<br>Disposition: Treated and no longer generated. | 1/21/04 |
| ID-TEC-217 | SCRUB PUMP RADIOACTIVE OIL<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-TEC-300 | “A” CADMIUM RACKS<br>Disposition: Treated and no longer generated. | 1/21/04 |
| ID-TEC-301 | LIQUID ACID/MERCURY MIXED WASTE<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-TEC-302 | LIQUID HIGH CHLORIDE CORROSIVE MW<br>Disposition: Treated and no longer generated. | 10/26/04 |
| ID-TEC-303 | SOLID, SILVER-CONTAMINATED LLMW<br>Disposition: No future generation of this waste stream. All inventory treated via a treatability study. | 8/17/98 |
| ID-TEC-304 | CONTAMINATED DEBRIS<br>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<br>Disposition: Treated and no longer generated. | 10/28/15 |
| ID-TEC-306 | D006-D011 CONTAMINATED SOLIDS<br>Disposition: Treated and no longer generated. | 10/26/04 |

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|---|---|---|
| ID-TEC-307 | CONTAMINATED LABORATORY RESIDUE<br>Disposition: Waste moved to new Waste Stream Identifier (ID-INL-800). | 1/19/05 |
| ID-TEC-308 | LWT&D HEPA FILTERS<br>Disposition: Treated and no longer generated. | 7/27/16 |
| ID-TEC-504 | NON-DEBRIS SOLIDS<br>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<br>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<br>Disposition: Treated and no longer generated. | 1/21/04 |
| ID-TEC-511 | SLUDGE–LISTED<br>Disposition: Treated and no longer generated. | 1/21/04 |
| ID-TEC-512 | SLUDGE – CHARACTERISTIC<br>Disposition: Waste stream will not be generated. | 2/23/98 |
| ID-TEC-527 | CONTAMINATED SOIL-LISTED<br>Disposition: Treated and no longer generated. | 10/27/04 |
| ID-TEC-530 | D006-D011 CONTAMINATED NON-DEBRIS<br>Disposition: Recharacterized as TRU waste. | 1/19/05 |
| ID-TEC-552 | RADIOACTIVE LEAD WITH LISTED CODES<br>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<br>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<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-TEC-713 | TURCO DESCALER AT NWCF<br>Disposition: Treated and no longer generated. | 10/27/04 |
| ID-TEC-717 | SAMPLE RESIDUE FROM CERAMIC SAMPLING<br>Disposition: Treated and no longer generated. | 10/20/04 |
| ID-TEC-720 | FDP HEPA FILTERS<br>Disposition: Treated and no longer generated. | 10/28/15 |
| ID-TEC-721 | VOG HEPA FILTERS<br>Disposition: Treated and no longer generated. | 10/28/15 |
| ID-TRA-127 | TRA SCINTILLATION COCKTAILS (ALPHA <10)<br>Disposition: Treated and no longer generated. | 1/21/04 |

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|---|---|---|
| ID-TRA-128 | LABORATORY EQUIPMENT AND DEBRIS<br>Disposition: Treated and no longer generated. | 10/27/04 |
| ID-TRA-155 | TRA LAB SCINTILLATION COCKTAILS<br>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<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-TRA-210 | FREON DECON WASTE<br>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<br>Disposition: Incinerated at WERF. No waste currently in storage (no backlog) and waste is not projected to be generated. | 5/28/96 |
| ID-TRA-251 | ELECTROPLATING SOLUTION<br>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<br>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<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-TRA-269 | ELECTRONIC BOARD & MISC. MACHINERY<br>Disposition: Treated and no longer generated. | 10/27/04 |
| ID-TRA-281 | ETR NONCOMPACTIBLE LEAD<br>Disposition: Treated and no longer generated. | 1/21/04 |
| ID-TRA-282 | MTR D&D NONCOMPACTIBLE LEAD<br>Disposition: Treated and no longer generated. | 1/21/04 |
| ID-TRA-291T | TRU HEAVY METAL SLUDGE<br>Disposition: Treated and no longer generated. | 10/27/11 |
| ID-TRA-294 | SOLVENT-CONTAMINATED RAGS<br>Disposition: Waste moved to new Waste Stream Identifier (ID-INL-803). | 1/19/05 |
| ID-TRA-525 | SOLVENT EXTRACTANTS<br>Disposition: Treated and no longer generated. | 1/21/04 |
| ID-TRA-526 | RADIOACTIVE METALS (Cr, Cd, Pb, Ba, etc.)<br>Disposition: Waste stream will not be generated. | 10/23/13 |
| ID-TRA-536 | ELEMENTAL Hg CONTAMINATED W/ RAD MATERIAL<br>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<br>Disposition: Treated and no longer generated. | 10/27/04 |

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|---|---|---|
| ID-TRA-693 | LEAD-CONTAMINATED PAINT CHIPS<br>Disposition: Treated and no longer generated. | 10/27/04 |
| ID-TRA-704 | ARMF AND CFRMF COMPONENTS AND SHIELDING<br>Disposition: Treated and no longer generated. | 4/21/04 |
| ID-TRA-707 | NITRIC ACID FROM TMI FUEL FINES<br>Disposition: Treated and no longer generated. | 10/31/10 |
| ID-VCO-100T | VCO GENERATED TRU AND RH TRU WASTE<br>Disposition: Treated and shipped off-Site. | 10/27/08 |
| KA-W001 | MISC. LABORATORY CHEMICALS W/O METALS<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| KA-W002 | CUTTING OILS AND LIQUIDS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| KA-W003 | TRICHLOROETHYLENE<br>Disposition: Treated and no future generation of this waste stream. | 10/29/97 |
| KA-W006 | FREON 113 ON RAGS<br>Disposition: Treated with no future generation of this waste stream. | 10/29/97 |
| KA-W007 | OILS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| KA-W009 | ORGANIC DEBRIS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| KA-W011 | ELEMENTAL LEAD<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| KA-W013 | ORGANIC DEBRIS W/O METALS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| KA-W014 | ORGANIC SLUDGE AND PARTICULATES<br>Disposition: Alternative treatment technology. | 1/24/01 |
| KA-W015 | SOILS<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| KA-W018 | Hg-CONTAMINATED ORGANICS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| KA-W019 | Hg-CONTAMINATED INORGANICS<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| KA-W020 | ELEMENTAL Hg<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| KA-W021 | PCB-CONTAMINATED WASTE<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| KA-W022 | PCB-CONTAMINATED WASTE (Nonincinerable)<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| KEBASIN01 | HANFORD OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 6/16/08 |

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|---|---|---|
| KEBASIN0T.001 | HANFORD OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 11/15/13 |
| KK-W003 | OILS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| KK-W004 | MISC. LABORATORY CHEMICALS W/O METALS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| KK-W005 | ORGANIC DEBRIS CONTAINING HEAVY METALS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| KK-W008 | ORGANIC SLUDGES/PARTICULATES<br>Disposition: Alternative treatment technology. | 1/24/01 |
| KK-W009 | ORGANIC DEBRIS WITHOUT METALS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| KK-W010 | LEAD BRICKS, SHEETS, OR WOOL<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| KK-W011 | CUTTING OILS AND LIQUIDS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| KK-W013 | SOILS<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| KK-W014 | Hg-CONTAMINATED ORGANICS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| KK-W015 | Hg-CONTAMINATED INORGANICS<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| KK-W016 | ELEMENTAL Hg<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| KK-W017 | PCB-CONTAMINATED WASTE<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| KK-W018 | PCB-CONTAMINATED WASTE (Nonincinerable)<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| KW-W001 | OILS<br>Disposition: Waste is not expected to be generated. This waste will not be received at the INL. | 5/14/97 |
| KW-W003 | ORGANIC DEBRIS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| KW-W006 | ORGANIC SLUDGES/PARTICULATES<br>Disposition: Alternative treatment technology. | 1/24/01 |
| KW-W008 | MISCELLANEOUS LABORATORY CHEMICALS<br>Disposition: Waste stream deleted per generator update. | 10/27/99 |
| KW-W009 | SOILS<br>Disposition: Waste stream deleted per generator update. | 10/27/99 |
| KW-W010 | Hg-CONTAMINATED ORGANICS<br>Disposition: Waste stream deleted per generator update. | 10/27/99 |

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|---|---|---|
| KW-W011 | Hg-CONTAMINATED INORGANICS<br>Disposition: Waste stream deleted per generator update. | 10/27/99 |
| KW-W012 | ELEMENTAL Hg<br>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<br>Disposition: Waste streams treated and disposed of. Waste will not be generated again. | 10/19/05 |
| LA-CIN01.001 | LOS ALAMOS NATIONAL LABORATORY (LANL) OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 8/31/10 |
| LA-CIN02.001 | LOS ALAMOS NATIONAL LABORATORY (LANL) OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 5/31/08 |
| LA-MIN02-V.001 | LOS ALAMOS NATIONAL LABORATORY (LANL) OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 9/7/13 |
| LA-MIN03<br>(Lot 1) | LOS ALAMOS NATIONAL LABORATORY (LANL) OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 7/27/11 |
| LA-MIN03.001 | LOS ALAMOS NATIONAL LABORATORY (LANL) OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 7/27/11 |
| LA-MIN04<br>(Lot 1, Set 1) | LOS ALAMOS NATIONAL LABORATORY (LANL) OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 4/20/12 |
| LA-MIN04<br>(Lot 1, Set 2) | LOS ALAMOS NATIONAL LABORATORY (LANL) OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 10/18/12 |
| LA-MIN04.001<br>(Lot 1) | LOS ALAMOS NATIONAL LABORATORY (LANL) OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 7/27/11 |
| LANL CIN03<br>(Lot 1) | LOS ALAMOS NATIONAL LABORATORY (LANL) OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 11/15/13 |
| LANL MIN03<br>(Lot 1) | LOS ALAMOS NATIONAL LABORATORY (LANL) OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 7/27/11 |
| LANL MIN04<br>(Lot 1 Set 1) | LOS ALAMOS NATIONAL LABORATORY (LANL) OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 10/18/12 |
| LANL MIN04<br>(Lot 1 Set 2) | LOS ALAMOS NATIONAL LABORATORY (LANL) OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 11/15/13 |

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|---|---|---|
| LANL MSGS03 (Lot 1) | LOS ALAMOS NATIONAL LABORATORY (LANL) OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 11/15/13 |
| LANL MSGS04 (Lot 1) | LOS ALAMOS NATIONAL LABORATORY (LANL) OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 7/5/13 |
| LANL MSGS04.001 (Lot 1) | LOS ALAMOS NATIONAL LABORATORY (LANL) OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 7/5/13 |
| LANL Soils | LOS ALAMOS NATIONAL LABORATORY (LANL) OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 11/15/13 |
| LANL-ER-1 | TA-35 TANK D&D WASTE<br>Disposition: Alternative treatment technology. | 1/24/01 |
| LA-W901 | IPA WASTES<br>Disposition: Waste stream treated and residuals sent to Envirocare. | 3/4/97 |
| LA-W902 | SCINTILLATION VIALS<br>Disposition: Waste stream treated and residuals sent to Envirocare. | 3/4/97 |
| LA-W903 | LEAD BLANKETS<br>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<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LA-W905 | ER SOILS<br>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<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LA-W907 | HALOGENATED ORGANIC LIQUIDS<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LA-W908 | NONHALOGENATED ORGANIC LIQUIDS<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LA-W909 | BULK OILS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| LA-W910 | PCB WASTES WITH RCRA COMPONENTS<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LA-W911 | ORGANIC-CONTAMINATED COMBUSTIBLE SOLIDS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| LA-W912 | COMBUSTIBLE DEBRIS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| LA-W913 | AQUEOUS WASTES WITH HEAVY METALS<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|---|---|---|
| LA-W914 | CORROSIVE SOLUTIONS<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LA-W915 | AQUEOUS CYANIDES, NITRATES, CHROMATES<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LA-W916 | WATER-REACTIVE WASTES<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LA-W919 | ORGANIC-CONTAMINATED NONCOMBUSTIBLE<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LA-W920 | ELEMENTAL MERCURY<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LA-W921 | ACTIVATED OR INSEPARABLE LEAD<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LA-W922 | NONCOMBUSTIBLE DEBRIS<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LA-W923 | INORGANIC SOLID OXIDIZERS<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LA-W925 | MERCURY WASTES – TBD<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LA-W929 | NONRADIOACTIVE AND SUSPECT WASTE ITEMS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| LA-W930 | SURFACE-CONTAMINATED LEAD<br>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<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LB-CC-116 | ORGANIC SOLIDS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| LB-CC-118 | LAB-PACKED CHEMICALS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| LB-CC-120 | PUMP OIL<br>Disposition: Alternative treatment technology. | 1/24/01 |
| LB-CC-124 | CONTAMINATED DEBRIS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| LB-CC-125 | ORGANIC LIQUIDS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| LB-CC-126 | WASTE CONTAINING OIL<br>Disposition: Alternative treatment technology. | 1/24/01 |
| LBNL WASTE (S5400) | LAWRENCE BERKELEY NATIONAL LABORATORY OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 10/20/11 |

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|---|---|---|
| LBNL-CC-114 | CYANIDE SOLUTION<br>Disposition: Alternative treatment technology. | 1/24/01 |
| LB-W001 | ACIDIC AQUEOUS AND SOLID LAB PACKS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| LB-W002 | BASIC AQUEOUS LIQUIDS - LOW ALPHA<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LB-W004 | ORGANIC LIQUIDS AND SOLIDS: LAB PACKED<br>Disposition: Alternative treatment technology. | 1/24/01 |
| LB-W005 | BLOCK & SHEET Pb-INDUCED & SURFACE CONTAM.<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LB-W006 | LIQUID-INDUCED MERCURY<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LB-W007 | SCINTILLATION FLUIDS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| LB-W008 | AQUEOUS AND SOLID CHEMICAL OXIDIZERS LAB<br>Disposition: Alternative treatment technology. | 1/24/01 |
| LB-W009 | SOLIDS OR CONTAMINATED DEBRIS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| LB-W011 | ACIDIC AQUEOUS SOLUTIONS/SOLIDS W/ METALS<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LB-W012 | BASIC SOLIDS W/ METALS - HIGH ALPHA<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LB-W014 | LIQUIDS/SOLIDS CONTAINING SOLVENTS & OIL<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LB-W017 | ORGANIC SCINTILLATION FLUIDS<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LB-W018 | AQUEOUS/SOLID OXIDIZERS<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LB-W019 | DEBRIS CONTAMINATED w/ ORGANIC VOLATILES<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LB-W101 | AQUEOUS ORGANIC LIQUID<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LB-W111 | AQUEOUS LIQUIDS OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 11/15/01 |
| LB-W124 | VERMICULITE W/ OIL-SOLVENTS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| LLNL Debris and Sludge | LAWRENCE BERKELEY NATIONAL LABORATORY OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 2/28/11 |

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|---|---|---|
| LLNL Debris and Sludge (Campaign 2) | LAWRENCE BERKELEY NATIONAL LABORATORY OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 11/15/13 |
| LLNL-CC-01 | CONTAMINATED OIL<br>Disposition: Alternative treatment technology. | 1/24/01 |
| LL-W003 | LOW-LEVEL MIXED INORGANIC TRASH-1<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LL-W006 | LOW-LEVEL MIXED SCRAP METAL<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LL-W007 | ELEMENTAL LEAD<br>Disposition: Has or will be treated by another site. Will not be received at the INL. | 4/27/99 |
| LL-W015 | INORGANIC DEBRIS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| LL-W017 | LOW-LEVEL MIXED INORGANIC TRASH-3<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LL-W021 | LAB PACKS WITH METALS<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| LL-W024 | LIQUID MERCURY WASTE<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| MD-W021 | OIL-CONTAMINATED FLORCO<br>Disposition: Alternative treatment technology. | 1/24/01 |
| MD-W023 | SCINTILLATION COCKTAIL CONTAMIN. FLORCO<br>Disposition: Alternative treatment technology. | 1/24/01 |
| MD-W024 | SCINTILLATION COCKTAIL CONTAMIN. TRASH<br>Disposition: Alternative treatment technology. | 1/24/01 |
| MI-W001 | SOLID WASTE WITH HEAVY METALS<br>Disposition: Waste was shipped off-Site for disposal. | 10/31/03 |
| MI-W002 | SOLIDIFIED SOLUTION WITH HEAVY METALS<br>Disposition: Treated and no longer generated. | 4/21/04 |
| MI-W003 | PAINT CHIPS W/ HEAVY METALS<br>Disposition: Treated and no longer generated. | 4/21/04 |
| MI-W004 | EQUIPMENT CONTAINING THALLIUM<br>Disposition: Treated and no longer generated. | 4/21/04 |
| MI-W005 | SOLID WASTE WITH PETROLEUM PRODUCTS<br>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<br>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 |

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|---|---|---|
| MI-W008 | BRASS AND BRONZE<br>Disposition: Waste was shipped off-Site for disposal. | 10/31/03 |
| MI-W009 | SOLID WASTE WITH CORROSIVES<br>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<br>Disposition: Treated and no longer generated. | 4/21/04 |
| MI-W011 | MATERIALS CONTAINING PCBs<br>Disposition: Treated and no longer generated. | 4/21/04 |
| MI-W012 | COMBUSTIBLE DEBRIS<br>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<br>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<br>Disposition: Waste was shipped off-Site for disposal. | 10/31/03 |
| MU-W001 | MIXED LOW-LEVEL WASTE<br>Disposition: Alternative treatment technology. | 1/24/01 |
| NAVY ASH | ASH FROM INCINERATION OF WASTE FROM SEVERAL SITES<br>Disposition: Treated and shipped off-Site. | 11/15/13 |
| NA-W001 | SOLID WASTE WITH HEAVY METALS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| NA-W005 | ELEMENTAL LEAD SHIELDING<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| NN-W001 | LEAD/CHROMIUM-BASED PAINT CHIPS<br>Disposition: Sent to Hanford for treatment. Waste not received at the INL. | 5/14/97 |
| NN-W002 | ORGANIC WASTE WITH HEAVY METALS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| NN-W003 | DEBRIS WITH HEAVY METALS<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| NN-W011 | DEBRIS/SLUDGE CONT. W/ METALS/LISTED/ORG.<br>Disposition: Alternative treatment technology. | 1/24/01 |
| NRD | NRD LIMITED LIABILITY CORPORATION (NRD, LLC) (formerly known as Nuclear Radiation Development) OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 11/8/11 |

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|---|---|---|
| NR-NRF-117 | CADMIUM SHEETS<br>Disposition: Treated and no longer generated. | 1/21/04 |
| NR-NRF-142 | LEAD-CONTAMINATED DEBRIS<br>Disposition: Treated and no longer generated. | 10/27/04 |
| NR-NRF-143 | RADIOACTIVE-CONTAMINATED LEAD (NRF)<br>Disposition: Treated and no longer generated. | 10/27/04 |
| NR-NRF-190 | LEAD FILINGS<br>Disposition: Treated and no longer generated. | 4/21/04 |
| NR-NRF-514 | PAINT CHIPS<br>Disposition: Treated and no longer generated. | 10/27/04 |
| NR-NRF-515 | LIQUID MERCURY<br>Disposition: Treated and no longer generated. | 1/21/04 |
| NR-NRF-517 | OIL WITH HEAVY METALS<br>Disposition: Treated and no longer generated. | 4/21/04 |
| NR-NRF-518 | WATER WITH HEAVY METALS<br>Disposition: Treated and no longer generated. | 4/21/04 |
| NR-NRF-520 | BRASS AND BRONZE<br>Disposition: Treated and no longer generated. | 4/21/04 |
| NR-NRF-665 | PAINT CHIPS W/ PCB AND RCRA<br>Disposition: Waste moved to new Waste Stream Identifier (ID-INL-804). | 1/19/05 |
| NR-NRF-682 | MERCURY LIGHT BULBS<br>Disposition: Treated and no longer generated. | 7/27/16 |
| NR-NRF-703 | CORROSIVE LIQUIDS WITH HEAVY METALS<br>Disposition: Treated and no longer generated. | 1/21/04 |
| NR-NRF-706 | RH PARTICULATES<br>Disposition: Treated and no longer generated. | 7/27/16 |
| NR-NRF-720 | CH MLLW PARTICLES CONTAINING HEAVY METAL<br>Disposition: Treated and no longer generated. | 7/27/16 |
| OR-NFS-CH-GROUT | OAK RIDGE NATIONAL LABORATORY (ORNL) OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 11/15/13 |
| OR-NFS-CH-HOM-A | OAK RIDGE NATIONAL LABORATORY (ORNL) OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 11/15/13 |
| PA-F030 | LEAD-CONTAMINATED DEBRIS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| PA-G001 | FLAMMABLE MATERIALS/PAINTS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| PA-K038 | SPENT SOLVENT SOLIDS/WOOD<br>Disposition: Alternative treatment technology. | 1/24/01 |

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|---|---|---|
| PA-L038 | SOFT COMBUSTIBLE DEBRIS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| PA-M038 | SOFT COMBUSTIBLE DEBRIS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| PA-W003 | WASTE MINERAL SPIRITS PAINT WASTE<br>Disposition: Alternative treatment technology. | 1/24/01 |
| PA-W003 | USE PAINT WASTE SOLIDS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| PA-W003-USEC | PAINT WASTE SOLIDS OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 11/15/01 |
| PH-W002 | LIQUID CONTAINING 1,1,1-TRICHLOROETHANE<br>Disposition: Treated with no future generation of this waste stream. | 10/29/97 |
| PH-W004 | ORGANIC WASTE<br>Disposition: Alternative treatment technology. | 1/24/01 |
| PH-W006 | ELEMENTAL LEAD<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| PN-W015 | SOLIDS CONTAM. WITH POTASSIUM CHROMATE<br>Disposition: Alternative treatment technology. | 1/24/01 |
| PO-W006 | WASTE HG, METALLIC<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| PO-W008 | MOTOR CLEANING SOLUTION<br>Disposition: Waste stream deleted per generator update. | 10/27/99 |
| PO-W012 | URANIUM RECOVERY SOLVENT<br>Disposition: Alternative treatment technology. | 1/24/01 |
| PO-W013 | CHROMIC CLOSURE WASTE<br>Disposition: Alternative treatment technology. | 1/24/01 |
| PO-W028 | LAB WASTE<br>Disposition: Alternative treatment technology. | 1/24/01 |
| PO-W029 | WASTE ANTIFREEZE<br>Disposition: Alternative treatment technology. | 1/24/01 |
| PO-W040 | ACETONE STILL BOTTOMS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| PO-W048 | GAS ANALYZER SOLUTIONS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| PO-W057 | SOLVENTS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| PO-W058 | ACTIVATED CARBON SLUDGE<br>Disposition: Alternative treatment technology. | 1/24/01 |
| PO-W061 | MERCURY SOLIDS<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|---|---|---|
| PO-W077 | NEAT TCE<br>Disposition: Alternative treatment technology. | 1/24/01 |
| PO-W078 | DIESEL FUEL, GASOLINE, KEROSENE<br>Disposition: Alternative treatment technology. | 1/24/01 |
| PS-W001 | ORGANIC DEBRIS WITH HEAVY METALS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| PS-W004 | LIQUID WITH F-LISTED SOLVENTS<br>Disposition: Treated with no future generation of this waste stream. | 10/29/97 |
| PS-W005 | DEBRIS WITH F-LISTED SOLVENTS<br>Disposition: Treated with no future generation of this waste stream. | 10/29/97 |
| PS-W006 | SOLIDIFIED LIQUID WITH F-LISTED SOLVENTS<br>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<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| PS-W009 | PAINT THINNER WITH BUTYL ALCOHOL<br>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<br>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<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| PS-W013 | ELEMENTAL LEAD<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| PS-W019 | FILTERS W/ ASBESTOS AND DIOCTYL PHTHALATE<br>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<br>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<br>Disposition: Alternative treatment technology. | 1/24/01 |
| PXSTP#-2.1 | WASTE WATER<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| PXSTP#-6.2 | INORGANIC DEBRIS; CONTAMINATED<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| RF-W017 | PCB LIQUIDS/LLM<br>Disposition: Waste stream deleted per generator update. | 10/27/99 |
| RF-W027 | PAINTS/LLM<br>Disposition: Waste stream deleted per generator update. | 10/27/99 |

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|---|---|---|
| RF-W049 | MISCELLANEOUS LIQUIDS/LLM<br>Disposition: Waste stream deleted per generator update. | 10/27/99 |
| RF-W071-GAC | GRANULATED-ACTIVATED CARBON<br>Disposition: Alternative treatment technology. | 1/24/01 |
| RF-W083 | EXCESS CHEMICALS ORGANOMETALLIC LAB PACK<br>Disposition: Waste stream deleted per generator update. | 10/27/99 |
| RF-W085 | EXCESS CHEMICALS NON-LABPACKS W/D009/LLM<br>Disposition: Waste stream deleted per generator update. | 10/27/99 |
| RF-W086 | EXCESS CHEMICALS NON-LAB PACKS-OTHER/LLM<br>Disposition: Waste stream deleted per generator update. | 10/27/99 |
| RL-601-01 | MIXED WASTE DEBRIS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| RL-AL0 | ORGANIC ABSORBED LIQUIDS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| RL-LPO | ORGANIC LAB PACKS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| RLM216Z9S | HANFORD OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 11/15/13 |
| RLM325D.002 | HANFORD OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 11/15/13 |
| RLPUNIT | HANFORD OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 1/19/09 |
| RP-W001 | NE FAST REACTOR PHYSICS SODIUM<br>Disposition: Waste will not be received at the INL for treatment. | 10/31/01 |
| SA-TG-11 | ORGANIC LIQUIDS 11: OILS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| SA-TG-12 | ORGANIC DEBRIS W/ TCLP METALS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| SA-TG-17-A | ABSORBED MACHINE OILS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| SA-TG-17-B | SANDIA NATIONAL LABORATORY SEPTIC TANKS RESIDUE OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 11/15/99 |
| SA-TG-18 | PARTICULATES W/ ORGANIC CONTAMINANTS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| SA-TG-7 | ORGANIC LIQUIDS/SCINTILLATION COCKTAILS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| SA-TG-8/10 | ORGANIC DEBRIS W/ SOLVENTS/HETER DEBRIS<br>Disposition: Alternative treatment technology. | 1/24/01 |

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|---|---|---|
| SNL Waste, Sandia National Laboratory | SANDIA NATIONAL LABORATORY OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 1/3/12 |
| SR-321-HOM (Lot 1) | SRS OFFSITE WASTE OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 6/5/13 |
| SR-BCDLP.003.001 (Lot 1) | SRS OFFSITE WASTE OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 6/5/13 |
| SR-MD SOIL | SRS OFFSITE WASTE OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 1/13/12 |
| SR-MD-HOM-B | SRS OFFSITE WASTE OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 11/15/13 |
| SR-MD-HOM-C | SRS OFFSITE WASTE OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 5/3/12 |
| SR-SDD-HOM-A | SRS OFFSITE WASTE OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 3/16/13 |
| SR-SDD-HOM-B | SRS OFFSITE WASTE OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 1/12/13 |
| SR-SDD-HOM-C | SRS OFFSITE WASTE OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 11/15/13 |
| SR-SWMF-SOIL (Lot 1) | SRS OFFSITE WASTE OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 11/15/13 |
| SR-SWMF-SOIL (Lot 2) | SRS OFFSITE WASTE OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 1/13/12 |
| SR-W014 | TRITIATED MERCURY<br>Disposition: Has or will be treated by another site. Will not be received at the INL. | 4/27/99 |
| SR-W026-221F-HOM (Lot 1) | SRS OFFSITE WASTE OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 4/9/12 |
| SR-W027/SR-AGNS-HOM | SRS OFFSITE WASTE OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 2/16/12 |
| SR-W027-221H-HOM (Lot 1) | SRS OFFSITE WASTE OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 5/14/12 |
| SR-W027-235F-HOM (Lot 1) | SRS OFFSITE WASTE OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site | 5/14/12 |
| SR-W027-773A-HOM (Lot 1) | SRS OFFSITE WASTE OFF-SITE WASTE<br>Disposition: Treated and shipped off-Site. | 5/14/12 |
| SR-W049 | TANK E-3-1 CLEAN OUT MATERIAL<br>Disposition: Waste was treated at another DOE site and will not be received at the INL. | 1/27/99 |

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|---|---|---|
| SR-W068 | LIQUID ELEMENTAL MERCURY<br>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<br>Disposition: Waste is being treated on the Weldon Springs site and will not come to the INL. | 11/16/98 |
| WS-W030 | PAINT SLUDGE<br>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<br>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<br>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<br>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<br>Disposition: Waste is being treated at the Weldon Springs site and will not come to the INL. | 11/16/98 |
| WS-WITS-6435 | UTS SLUDGE<br>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<br>Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W005 | DECON SOLUTION<br>Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W006 | Pu SCINTILLATION (nCi/G)<br>Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W007 | PYRIDINE/CYANIDE WASTE<br>Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W008 | OIL WITH MERCURY<br>Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W009 | METHANOL<br>Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W010 | PAINT<br>Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W012 | PAINT W/ METALS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W014 | Sr ORGANIC WASTE<br>Disposition: Alternative treatment technology. | 1/24/01 |

Table 4-6. (continued).

| Waste Stream ID | Waste Stream Name | Disposition Date |
|---|---|---|
| WV-W016 | R&D TOLUENE<br>Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W017 | Tc AQUEOUS WASTE<br>Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W018 | DU-SQUEEZE<br>Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W021 | IGNITABLE ORGANIC LIQUIDS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W022 | SPENT DEGREASER<br>Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W025 | CAUSTIC WASTE<br>Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W027 | OXIDIZERS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W029 | IMMERSION BUCKET SOLUTION<br>Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W030 | AQUEOUS LAB WASTE<br>Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W032 | INGITABLE CHEMICAL PRODUCTS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W033 | IGNITABLE METAL WASTE<br>Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W034 | ACIDIC AQUEOUS WASTE<br>Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W037 | DECONTAMINATED SUPERNATANT<br>Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W042 | ORGANIC SLUDGES<br>Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W043 | IGNITABLE LIQUIDS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W044 | IGNITABLE ORGANIC LIQUIDS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W047 | INORGANIC SLUDGES<br>Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W053 | SODIUM BROHYDRIDE<br>Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W054 | CORROSIVE/FLAMMABLE LIQUIDS<br>Disposition: Alternative treatment technology. | 1/24/01 |
| WV-W056 | REACTIVES<br>Disposition: Alternative treatment technology. | 1/24/01 |

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# 5. INL TREATMENT FACILITY SCHEDULES

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

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

Milestones and planning dates are identified by reference to quarters, as outlined in Section 2.2.2.2.3. 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]

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)<br>P-2, Procure Contracts (Completed)<br>P-3, Initiate Construction (Completed)<br>P-4, Commence Full-Scale System Testing (Completed)<br>P-5, Commence Operations: 4Q 2016 (9/30/16)[a]<br>P-6, Schedule for System Backlog (Completed) |
| | | |
| Calcine Disposition Project | | P-1, Submit Part B (Completed)<br>P-2, Procure Contracts: 4Q 2019 (9/30/19)<br>P-3, Initiate Construction: 4Q 2020 (9/30/20)<br>P-4, Conduct System Testing: 2Q 2023 (3/31/23)<br>P-5, Commence Operation: 2Q 2024 (3/31/24)<br>P-6, Schedule for System Backlog: 3Q 2024 (6/30/24) |

a. Justification for SBW Treatment Facility P-5 Milestone—DOE requested an extension for the P-5 milestone to commence operations at the SBW Treatment Facility on September 30, 2016, replacing the date with a "TBD" (to be determined). DEQ responded to that request, stating that the state of Idaho favors no change at this time.

***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 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.

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

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

## 5.2 Schedules for Treatment Facilities for Which Technology Exists but Needs Adaptation, or for Which No Technology Exists

(Reserved - Currently, no waste streams are identified for treatment.)
Facilities for which technology exists, but that technology needs adaptation, or for which no technology exists. (Reserved)

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

### 5.2.1 Mixed Waste to be Treated by Planned Facilities

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

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

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

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

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

- **P-1, Identify Funding Requirements:** The date on which the cost and schedule for spending funds are submitted in an Activity Data Sheet to DOE-HQ for the identification and development of technology.

- **P-2, Identify and Develop Technology:** The date on which technologies are identified and incorporated into the conceptual design.

- **P-3, Submit Treatability Study Notification:** The date on which DEQ is notified that treatability studies are required to assist in the development of treatment technology for a specified technology and will be performed pursuant to the exemption in 40 CFR 261.4(e) and (f).

- **P-4, Submit R&D Permit Applications:** The date on which the research and development (R&D) permit application is submitted to DEQ.

- **P-5, Schedule for Table 5-1 Milestones:** The date on which the Table 5-1 milestones are submitted to DEQ for inclusion in the approved STP.

- **P-6, Proposal for Feasibility Study:** The date on which DOE solicits proposals for feasibility studies.

- **P-7, Submit RCRA Part B Application:** The date on which the INL presents the RCRA Part B submittal to DEQ for approval.

### 5.2.2 Facility-Specific Schedules

Table 5-2 (Reserved).

# 5.3 Schedules for Mixed Waste Streams Planned for Treatment Off-Site

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

### 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).

## 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 WIPP or an appropriate MLLW facility.[6] 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 the end of 1QFY 2019 as follows[7]:

1. Commencing in FY 2006 through FY 2018, 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 WIPP, or (2) declared that the waste will be managed as MLLW or LLW.

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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 Sections 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.

(b) When the total volume of a mixed waste stream managed by the RWDP or a waste category (i.e., debris, sludge, or soil) for a mixed waste stream managed by the AMWTP 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."

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

2. In FY 2019, DOE agrees to complete the treatment of original volume of TRU-contaminated waste (excluding the treatment of sludge waste) through the AMWTP or other facility as follows:

(a) The term "treatment" as used in this section means that the original volume of TRU-contaminated waste has been physically treated or reconfigured through one of the facilities described in Section 3.3, "Description of Facilities Required to Treat the Mixed Transuranic-Contaminated Waste at the INL," to be in a container type suitable for transportation to and disposal at WIPP. Final containers may be considered "treatment complete" when characterization indicates compliance to the WIPP WAC.

(b) When the total volume of a mixed waste stream managed by the RWDP or a waste category (i.e., debris, sludge, or soil) for a mixed waste stream managed by the AMWTP 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."

3. DOE shall declare that specific mixed waste will be managed as MLLW by adding it to Table 4-1, "Mixed Low-Level Waste Streams Requiring Treatment," and submitting the table along with other pertinent information at the quarterly meetings or in writing prior to such

meetings. Only waste identified in such written submissions to DEQ shall be considered MLLW and counted toward meeting the requirements for processing waste under this section.

4. Commencing in FY 2020 and continuing through FY 2022, DOE shall complete certification of treated CH-TRU by the schedule in Table 5-5a. Carryover of volume in excess of the milestone is allowed from one year to the next. Sludge treatment will be completed in FY 2020.

5. DOE will submit a schedule for RH-TRU certification per the schedule in Table 5-5a.

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

7. The term "original volume," as used in this section, means the waste volume prior to processing that was stored as TRU at the time the Idaho Settlement Agreement and Consent Order were signed and approved by the court on October 17, 1995.

Nothing in this STP affects or modifies the obligations and remedies in the October 17, 1995, Settlement Agreement. The INL facilities to treat MTRU contaminated waste include the RWDP (at CPP-659 and CPP-666), AMWTP, and the ARP V and ARP VII Repackaging Facility.

## 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 2025. 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 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 of 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."

## 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 5-5a and 5-5b.

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

| Facility | FY-19($m^3$) | FY-20($m^3$) | FY-21($m^3$) |
|---|---|---|---|
| Sodium Components Maintenance Shop | 6 | | |
| Commercial Treatment | 0 | 0 | 0 |
| Original Volume Transuranic Contaminated Waste (contact-handled waste) | Complete Treatment[a] Excludes treatment of sludge waste | 25%[b] Certified and Complete treatment of sludge waste | 25%[b] Certified |
| Original Volume Transuranic Contaminated Waste (remote-handled waste)[c] | 0 | 0 | 0 |
| Original Volume TRU Reclassified as Mixed Low-Level Waste | Remaining Volume[d] | | |
| Remote-Handled Waste Disposition Project[e] | 1 | | |
| Treatment of ID-AMWTP-100Ta Waste[f] | NA | NA | NA |

a. The Complete Treatment milestone will exclude all sludge waste due to the recovery actions ongoing from the ARP V event. The estimated volume of sludge waste is 800 $m^3$.
b. 25% of the waste volume will be certified per fiscal year from FY 2020–FY 2022, followed by 15% in FY 2023 and 10% in FY-2024, until all waste containers are certified. Carryover of volume in excess of the milestone is allowed from one year to the next.
c. Certification projections for RH-TRU will be proposed no later than fourth quarter FY 2021.
d. All original volume TRU waste reclassified as mixed low-level waste will be dispositioned off-site.
e. Carryover of volume in excess of the milestone is allowed from one year to the next.
f. Remaining volume of ID-AMWTP-100Ta will be dispositioned off-site after contact handled waste has been certified (FY 2025)

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

| Facility | FY-19($m^3$) | FY-20($m^3$) | FY-21($m^3$) |
|---|---|---|---|
| Sodium-Bearing Waste Treatment Facility (IWTU) | TBD | TBD | TBD |

**NOTE:** *The volume to be treated is based on current tank volume of 851,900 gallons.*

# 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 current treatment plans for each. 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.

Table 6-1. Summary of the Treatment Selection Process by Preferred Treatment Option.

| Waste Stream ID | Waste Stream Name | Waste Stream ID | Waste Stream Name |
|---|---|---|---|
| **AMWTP ADVANCED MIXED WASTE TREATMENT PROJECT** | | | |
| ***INL waste streams:*** | | | |
| 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-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-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-BWX-500T | BABCOCK & WILCOX | ID-INL-155T | SCRAP |
| ID-INL-157T | MISCELLANEOUS SOURCES | ID-MCO-500T | MONSANTO DAYTON LABORATORY WASTE |
| 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-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-847T | LOW SPECIFIC ACTIVITY (<100 nCi/g) COMB. | ID-MDO-848T | LOW SPECIFIC ACTIVITY (<100 nCi/g) NONC. |
| ID-MXA-142 | MEXICAN AMERICIUM | 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 |
| ID-RFO-301T | GRAPHITE CORES | ID-RFO-302T | BENELEX AND PLEXIGLASS |
| ID-RFO-312T | COARSE GRAPHITE | ID-RFO-320T | HEAVY NONSPECIAL SOURCE METAL |

Table 6-1. (continued).

| Waste Stream ID | Waste Stream Name | Waste Stream ID | Waste Stream Name |
|---|---|---|---|
| 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-980T | FILTER SLUDGE |
| ID-RFO-990 | DIRT | ID-RFO-9999T | PRE-73 DRUMS |
| ID-TEC-670Ta | MTRU LABORATORY ANALYTICAL WASTE | ID-TEC-699T | MIXED TRU WASTE FROM NWCF AND CSSF |
| ID-TEC-699Ta | 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-180RH | SODIUM-MLLW REMOTE-HANDLED | CH-ANL-182CH | SODIUM POTASSIUM NaK CONTACT-HANDLED |
| Ch-ANL-182RH | SODIUM POTASSIUM NAK REMOTE-HANDLED-MLLW | CH-ANL-553 | WCA MIXED-WASTE |
| CH-ANL-716CH | MLLW CONTACT-HANDLED | CH-ANL-716RH | MLLW REMOTE-HANDLED-MLLW |
| CH-ANL-722 | LITHIUM HYDRIDE | ID-AMWTP-100 | MIXED WASTE INCIDENTAL TO PROCESSING |
| ID-BTO-030T | SOLIDIFIED GRINDING SLUDGE, ETC-MLLW | ID-INL-803 | AEROSOL WASTE |
| ID-INL-804 | TSCA WASTE | ID-INL-806 | INTEC MIXED LOW LEVEL WASTE |
| ID-RFO-005T | EVAPORATOR SALTS | ID-RFO-990 | DIRT |
| ID-SDS-MLLW | NON-SETTLEMENT AGREEMENT, NON-TRU MLLW, CONTAINERS OF WASTE DEBRIS WITH SODIUM AND CADMIUM FROM SDS SYSTEM | ID-TEC-172Ta | MIXED TRU HEPA FILTERS |
| NR-NRF-673 | HEAVY METAL DEBRIS | | |

Table 6-1. (continued).

| Waste Stream ID | Waste Stream Name | Waste Stream ID | Waste Stream Name |
|---|---|---|---|
| **CALCINE DISPOSITION FACILITY** | | | |
| ***INL waste streams:*** | | | |
| ID-TEC-174 | HIGH-LEVEL WASTE CALCINE SOLIDS | | |
| **GOVERNMENT-OWNED OFF-SITE DISPOSAL FACILITY (NNSS)** | | | |
| ***INL waste streams:*** | | | |
| BN510 | BOX AND BIN VOLUME | CH-ANL-180CH | SODIUM-MLLW CONTACT-HANDLED |
| CH-ANL-180RH | SODIUM-MLLW REMOTE-HANDLED | CH-ANL-182RH | SODIUM POTASSIUM NAK REMOTE-HANDLED |
| CH-ANL-716CH | MLLW CONTACT-HANDLED | CH-ANL-716RH | MLLW REMOTE-HANDLED |
| CH-ANL-722 | LITHIUM HYDRIDE | ID-AMWTP-100 | MIXED WASTE INCIDENTAL TO PROCESSING |
| ID-BTO-030T | SOLIDIFIED GRINDING SLUDGE, ETC. | ID-BTO-040T | SOLID BINARY SCRAP POWDER, ETC |
| 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 |
| **RWDP REMOTE-HANDLED WASTE DISPOSITION PROJECT** | | | |
| ***INL waste streams:*** | | | |
| 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-241T | TRU CD-HOT CELL WASTE | CH-ANL-241Ta | MTRU REMOTE HANDLED TO BE WIPP CERTIFIED IN CPP-659 |
| CH-ANL-241Ta1 | MTRU REMOTE HANDLED TO BE REPACKAGED IN CPP-666 | 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 | RESEARCHH-GENERATED WASTE NONCOMPACTIBLE | ID-RWDP-RH | 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-TRU-RHNH | RH TRU, NON-HAZARDOUS GENERATED FROM RWDP TREATMENT | ID-TRU-RHNHa | RH TRU, NON-HAZARDOUS GENERATED FROM RWDP TREATMENT |
| ID-TRU-RHMa | RH-TRU MIXED WASTE GENERATED FROM THE RWDP TREATMENT PROCESS | | |
| **SBW TREATMENT FACILITY (IWTU)** | | | |
| ***INL waste streams:*** | | | |
| ID-TEC-173 | SODIUM-BEARING WASTE | ID-TEC-175 | INTEC LIQUID WASTE |
| **SCMS DEACT** | | | |
| ***INL waste streams:*** | | | |
| 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 | | | |

Table 6-1. (continued).

| Waste Stream ID | Waste Stream Name | Waste Stream ID | Waste Stream Name |
|---|---|---|---|
| **SCMS OPEN/MELT/DRAIN** | | | |
| ***INL waste streams:*** | | | |
| CH-ANL-180CH | SODIUM – MLLW CONTACT HANDLED | | |
| **SCMS STABILIZATION** | | | |
| ***INL waste streams:*** | | | |
| None at this time | | | |
| **SUBTITLE C DISPOSAL FACILITY (SCDF)** | | | |
| CH-ANL-553 | WCA MIXED WASTE | CH-ANL-716CH | MLLW CONTACT HANDLED |
| ID-AMWTP-100 | MIXED WASTE INCIDENTAL TO PROCESSING | ID-INL-803 | AEROSOL WASTE |
| ID-INL-806 | INTEC MIXED LOW-LEVEL WASTE | ID-RFO-990 | DIRT |
| ID-DSD-MLLW | NON-SETTLEMENT AGREEMENT, NON-TRU MLLW DEBRIS WITH SODIUM AND CADIUM FROM SDS SYSTEM | ID-TEC-172Ta | INTEC TRU HEPA FILTERS |
| NR-NRF-673 | HEAVY METAL DEBRIS | | |
| **WIPP DISPOSAL - CONTACT-HANDLED** | | | |
| ***INL waste streams:*** | | | |
| 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-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-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-BWX-500T | BABCOX & WILCOX |
| ID-INL-150T | LABORATORY WASTE | ID-INL-155T | SCRAP |
| ID-INL-157T | MISCELLANEOUS SOURCES | ID-MCO-500T | MONSANTO DAYTON LABORATORY WASTE |
| 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-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-842T | CONTAMINATED SOIL | ID-MDO-847T | LOW SPECIFIC ACTIVITY (<100 nCi/g) COMB. |
| ID-MDO-848T | LOW SPECIFIC ACTIVITY (<100 nCi/g) NONC. | ID-MXA-142 | MEXICAN AMERICIUM |
| 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 |

Table 6-1. (continued).

| Waste Stream ID | Waste Stream Name | Waste Stream ID | Waste Stream Name |
|---|---|---|---|
| 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 | 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-980T | FILTER SLUDGE | ID-RFO-990 | DIRT |
| ID-RFO-9999T | PRE-73 DRUMS | 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 |

Table 6-1. (continued).

| Waste Stream ID | Waste Stream Name | Waste Stream ID | Waste Stream Name |
|---|---|---|---|
| **WIPP DISPOSAL - REMOTE-HANDLED** | | | |
| ***INL waste streams:*** | | | |
| CH-ANL-180T | SODIUM TRU | CH-ANL-180Ta | SODIUM – TRU |
| CH-ANL-241T | TRU-CD-HOT CELL WASTE | CH-ANL-241Ta | MTRU REMOTE HANDLED TO BE WIPP CERTIFIED IN CPP-659 |
| CH-ANL-241Ta1 | MTRU REMOTE HANDLED TO BE REPACKAGED IN CPP-666 | 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-SDS-TRU | TRU WASTE FROM SDS TREATMENT | ID-SDS-TRUa | TRU WASTE FROM SDS TREATMENT |
| ID-TEC-172Ta | INTEC TRU HEPA FILTERS | ID-TEC-699Ta | MIXED TRU WASTE FROM NWCF AND CSSF |
| ID-TRU-RHNH | RH TRU, NON-HAZARDOUS GENERATED FROM RWDP TREATMENT | ID-TRU-RHNHa | RH TRU NON-HAZARDOUS GENERATED FROM RWDP TREATMENT |

Table 6-2. Treatment Plans.

| STP ID/NAME | Step | Facility Abbr. | Unit Name |
|---|---|---|---|
| ON-SITE MIXED WASTE TREATMENT PLANS | | | |
| **BN510—BOX AND BIN VOLUME** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | NNSS | Disposal |
| **CH-ANL-179—SODIUM (CONTAMINATED) TIN BISMUTH ALLOY** | | | |
| | a | SCMS/CTF | DEACT/Commercial Treatment Facility |
| | b | LLW | Disposal - Contact-Handled |
| **CH-ANL-180CH—SODIUM – MLLW CONTACT HANDLED** | | | |
| | a | SCMS/CTF | DEACT/Commercial Treatment Facility |
| | b | LLW/NNSS | Disposal - Contact-Handled |
| **CH-ANL-180RH—SODIUM – MLLW REMOTE HANDLED** | | | |
| | a | RWDP Disposition | Remote-Handled Waste Disposition Project |
| | b | LLW/NNSS | Disposal – Remote Handled |
| | c | MLLW/CTF | Commercial Treatment Facility |
| **CH-ANL-180T—SODIUM – TRU** | | | |
| | a | RWDP | Remote-Handled Waste Disposition Project |
| | b | TRANS | Transport – 72B Cask |
| | c | WIPP | Disposal - Remote-Handled |
| **CH-ANL-180Ta—SODIUM – TRU** | | | |
| | 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** | | | |
| | a | SCMS/CTF | DEACT/Commercial Treatment Facility |
| | b | LLW | Disposal - Contact-Handled |
| **CH-ANL-182RH—SODIUM POTASSIUM NaK REMOTE HANDLED** | | | |
| | a | RWDP | Remote-Handled Waste Disposition Project |
| | b | LLW/NNSS | Disposal - Remote-Handled |
| | c | MLLW/CTF | Commercial Treatment Facility |
| **CH-ANL-241T—TRU-CD-HOT CELL WASTE** | | | |
| | a | RWDP | Remote Waste Disposition Project |
| | b | TRANS | Transport – 72B Cask |
| | c | WIPP | Disposal - Remote-Handled |
| **CH-ANL-241Ta—MTRU REMOTE HANDLED TO BE WIPP CERTIFIED IN CPP-659** | | | |
| | a | RWDP | Remote-Handled Waste Disposition Project |
| | b | TRANS | Transport – 72B Cask |
| | c | WIPP | Disposal - Remote-Handled |
| **CH-ANL-241Ta1—MTRU REMOTE HANDLED TO BE REPACKAGED IN CPP-666** | | | |
| | a | RWDP | Remote-Handled Waste Disposition Project, CPP-666 |
| | b | TRANS | Transport – 72B Cask |
| | c | WIPP | Disposal - Remote-Handled |
| **CH-ANL-505T—ALHC UPGRADE DECON DEBRIS** | | | |
| | a | RWDP | Remote-Handled Waste Disposition Project |
| | b | TRANS | Transport – 72B Cask |
| | c | WIPP | Disposal - Remote-Handled |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |

Table 6-2. (continued).

| STP ID/NAME | Step | Facility Abbr. | Unit Name |
|---|---|---|---|
| **CH-ANL-505Ta—MTRU CONTACT HANDLED** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **CH-ANL-553—WCA MIXED WASTE** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | SCDF | Disposal - Contact-Handled |
| | a | CTF | Commercial Treatment |
| | b | SCDF | Disposal - Contact-Handled |
| **CH-ANL-716CH—MLLW CONTACT HANDLED** | | | |
| | a | CTF | Commercial Treatment |
| | b | SCDF or NNSS | Disposal Contact Handled |
| **CH-ANL-716RH—MLLW REMOTE HANDLED** | | | |
| | a | RWDP | Remote-Handled Waste Disposition Project |
| | b | LLW/NNSS | Disposal Remote-Handled |
| | c | MLLW/CTF | Commercial Treatment Facility Disposal Remote Handled |
| **CH-ANL-722—LITHIUM HYDRIDE** | | | |
| | a | SCMS/CTF | DEACT/Commercial Treatment Facility |
| | b | LLW | Disposal - Contact-Handled |
| **ID-AEO-100T—GENERAL PLANT WASTE** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | 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-102T—ABSORBED LIQUIDS** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-AEO-105T—EMPTY BOTTLES AND ABSORBENTS** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-AEO-106T—SPECIAL SOURCE MATERIAL** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-AEO-107T—REMOTE-HANDLED WASTE** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Remote-Handled |
| **ID-AEO-110T—RESEARCH-GENERATED WASTE COMPACT. & COMB.** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |

Table 6-2. (continued).

| STP ID/NAME | Step | Facility Abbr. | Unit Name |
|---|---|---|---|
| **ID-AEO-120T—COMPACTIBLE AND COMBUSTIBLE WASTE** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-AMWTP-100—MIXED WASTE INCIDENTAL TO PROCESSING** | | | |
| | a | AMWTP/CTF or NNSS | Advanced Mixed Waste Treatment Project/Commercial Treatment |
| | b | SCDF | Disposal - Contact-Handled |
| **ID-AMWTP-100Ta—MTRU INCIDENTAL TO PROCESSING** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-ANL-161—ANL-W ANALYTICAL CHEMISTRY LAB GLASSWARE** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-ANL-162T—ANL-W FMF EFL Zr-U FUEL CASTING ALLOYS R** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-BCO-201T—NONCOMBUSTIBLE SOLIDS** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-BCO-202T—COMBUSTIBLE SOLIDS** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-BCO-203T—PAPER, METALS, GLASS** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-BCO-204T—SOLIDIFIED SOLUTIONS** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-BTO-010T—RAGS, GLOVES, POLY** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-BTO-020T—NONCOMPRESSIBLE, NONCOMBUSTIBLE** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-BTO-030T—SOLIDIFIED GRINDING SLUDGE, ETC.** | | | |
| | a | RWDP | Remote-Handled Disposition Project |
| | b | TRANS | Transport-72B |
| | c | WIPP | Disposal – Remote Handled |
| | d | LLW/NNSS | Disposal – LLW |
| | e | MLLW/CTF | Commercial Treatment Facility |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-BTO-040T—SOLID BINARY SCRAP POWDER, ETC.** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |

Table 6-2. (continued).

| STP ID/NAME | Step | Facility Abbr. | Unit Name |
|---|---|---|---|
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| | d | LLW/NNSS | Disposal-LLW |
| **ID-BWX-500T—BABCOCK & WILCOX** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-INL-150T—LABORATORY WASTE** | | | |
| | a | RWDP | Remote Waste Disposition Project |
| | b | TRANS | Transport – 72B Cask |
| | c | WIPP | Disposal - Remote-Handled |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-INL-155T—SCRAP** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-INL-157T—MISCELLANEOUS SOURCES** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-INL-803—AEROSOL WASTE** | | | |
| | a | CTF | Commercial Macroencapsulation |
| | b | SCDF | Disposal - Contact-Handled |
| **ID-INL-804—TSCA WASTE** | | | |
| | a | CTF or NNSS | Commercial Macroencapsulation |
| | b | SCDF | Disposal - Contact-Handled |
| **ID-INL-806—INTEC MIXED LOW-LEVEL WASTE** | | | |
| | a | CTF or NNSS | Commercial Macroencapsulation |
| | b | SCDF | Disposal - Contact-Handled |
| **ID-MCO-500T—MONSANTO DAYTON LABORATORY WASTE** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-MDO-801T—RAGS, PAPER, WOOD, ETC.** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-MDO-802T—DRY BOX GLOVES AND O-RINGS** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-MDO-803T—METAL, EQUIPMENT, PIPES, VALVES, ETC.** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-MDO-805T—ASBESTOS FILTERS** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |

Table 6-2. (continued).

| STP ID/NAME | Step | Facility Abbr. | Unit Name |
|---|---|---|---|
| **ID-MDO-810T—GLASS, FLASKS, SAMPLE VIALS, ETC.** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-MDO-811T—EVAPORATOR AND DISSOLVER SLUDGE** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-MDO-813T—GLASS FILTERS AND FIBERGLASS** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-MDO-814T—CONTAMINATED MERCURY OR GRAPHITE CRUCIBLE** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-MDO-815T—CLASSIFIED PARTS** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport – TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-MDO-826T—COMBUSTIBLE EQUIPMENT BOXES OR FLOOR SWE** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-MDO-827T—COMBUSTIBLE EQUIPMENT DRUMS** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-MDO-834T—HIGH-LEVEL ACID** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-MDO-835T—HIGH-LEVEL CAUSTIC** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-MDO-836T—HIGH-LEVEL SLUDGE/CEMENT** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |

Table 6-2. (continued).

| STP ID/NAME | Step | Facility Abbr. | Unit Name |
|---|---|---|---|
| **ID-MDO-847T—LOW SPECIFIC ACTIVITY (<100 nCi/g) COMB.** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-MDO-848T—LOW SPECIFIC ACTIVITY (<100 nCi/g) NONC.** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-MXA-142—MEXICAN AMERICIUM** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-OFS-111T—RESEARCH-GENERATED WASTE NONCOMPACTIBLE** | | | |
| | a | RWDP | Remote-Handled Disposition Project |
| | b | TRANS | Transport – 72B |
| | c | WIPP | Disposal – Remote Handled |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-OFS-121T—DECONTAMINATION AND DECOMMISSIONING WASTE** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-000T—NOT RECORDED – UNKNOWN** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-001T—FIRST STAGE SLUDGE** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-002T—SECOND STAGE SLUDGE** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-003T—ORGANIC SETUPS, OIL SOLIDS** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-004T—SPECIAL SETUPS (CEMENT)** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |

Table 6-2. (continued).

| STP ID/NAME | Step | Facility Abbr. | Unit Name |
|---|---|---|---|
| **ID-RFO-005T—EVAPORATOR SALTS** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| | a | CTF | Commercial Treatment Facility |
| | b | SCDF | Disposal-Contact handled |
| **ID-RFO-007T—BLDG 374 DRY SLUDGE** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-090—DIRT** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| | a | CTF | Commercial Treatment Facility |
| | b | SCDF | Disposal-Contact handled |
| **ID-RFO-112T—SOLIDIFIED ORGANICS** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-113T—SOLID LAB WASTE** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-114T—SOLIDIFIED PROCESS SOLIDS** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-116T—COMBUSTIBLE WASTE** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-117T—METAL WASTE** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-118T—GLASS WASTE** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport – TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-119T—HEPA FILTER WASTE** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |

Table 6-2. (continued).

| STP ID/NAME | Step | Facility Abbr. | Unit Name |
|---|---|---|---|
| **ID-RFO-122T—INORGANIC SOLID WASTE** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-123T—LEADED RUBBER** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-241T—AMERICIUM PROCESS RESIDUE** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-290—FILTER SLUDGE** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-292T—CEMENTED SLUDGE** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-300T—GRAPHITE MOLDS** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-301T—GRAPHITE CORES** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-302T—BENELEX AND PLEXIGLASS** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-312T—COARSE GRAPHITE** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-320T—HEAVY NONSPECIAL SOURCE METAL** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-328T—FULFLO INCINERATOR FILTERS** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-330T—DRY PAPER AND RAGS** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |

Table 6-2. (continued).

| STP ID/NAME | Step | Facility Abbr. | Unit Name |
|---|---|---|---|
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-335T—ABSOLUTE 8 X 8 FILTERS** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-336T—MOIST PAPER AND RAGS** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-337T—PLASTICS, TEFLON, WASH, PVC** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-338T—INSULATION AND CHEMICAL WARFARE SERVICE** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-339T—LEADED RUBBER GLOVES AND APRONS** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-360T—INSULATION** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-371T—FIREBRICK** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-374T—BLACKTOP, CONCRETE, DIRT, AND SAND** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-375T—OIL-DRI RESIDUE FROM INCINERATOR** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-376T—CEMENTED INSULATION AND FILTER MEDIA** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-409T—MOLTEN SALTS - 30% UNPULVERIZED** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |

Table 6-2. (continued).

| STP ID/NAME | Step | Facility Abbr. | Unit Name |
|---|---|---|---|
| **ID-RFO-414T—DIRECT OXIDE REDUCTION SALT** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-430T—UNLEACHED ION COLUMN RESIN** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-431T—LEACHED RESIN** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-432T—LEACHED AND CEMENTED RESIN** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-440T—GLASS** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-441T—UNLEACHED RASHIG RINGS** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-442T—LEACHED RASHIG RINGS** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-460T—WASHABLES, RUBBER, PLASTICS** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport – TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-463T—LEADED RUBBER GLOVES AND APRONS** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-464T—BENELEX AND PLEXIGLASS** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-480T—NONSPECIAL SOURCE METAL** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |

Table 6-2. (continued).

| STP ID/NAME | Step | Facility Abbr. | Unit Name |
|---|---|---|---|
| **ID-RFO-481T—LEACHED NONSPECIAL SOURCE METAL** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-490T—CHEMICAL WARFARE SERVICE FILTERS** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-700T—ORGANIC AND SLUDGE IMMOBILIZATION SYSTEM** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-900T—LOW SPECIFIC ACTIVITY PLASTICS, PAPER, ETC.** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-950T—LOW SPECIFIC ACTIVITY METAL, GLASS, ETC.** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-970T—WOOD** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-976T—BLDG 776 PROCESS SLUDGE** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-980T—FILTER SLUDGE** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport – TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RFO-990T—DIRT** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport – TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| | a | CTF | Commercial Treatment Facility |
| | b | SCDF | Disposal-Contact handled |
| **ID-RFO-9999T—PRE-73 DRUMS** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| **ID-RWDP-RH—RH-TRU TO BE TREATED AT RWDP** | | | |
| | a | RWDP | RH - Preparation/Treatment |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Remote-Handled |

Table 6-2. (continued).

| STP ID/NAME | Step | Facility Abbr. | Unit Name |
|---|---|---|---|
| **ID-SDS-MLLW—NON-SETTLEMENT AGREEMENT, NON-TRU MLLW, CONTAINERS OF WASTE DEBRIS WITH SODIUM AND CADMIUM FROM SDS SYSTEM** | | | |
| | a | RWDP | Remote-Handled Waste Disposal Project |
| | b | LLW or NNSS | Disposal LLW |
| | c | SCDF | Disposal - Remote-Handled/Contact Handled |
| | d | MLLW/CTF | Commercial Treatment Facility |
| **ID-SDS-TRU—TRU WASTE FROM SDS TREATMENT** | | | |
| | a | RWDP | Remote-Handled Waste Disposition Project |
| | b | TRANS | Transport – 72B Cask |
| | c | WIPP | Disposal – Remote-Handled |
| **ID-SDS-TRUa—TRU WASTE FROM SDS TREATMENT** | | | |
| | a | RWDP | Remote-Handled Waste Disposition Project |
| | b | TRANS | Transport – 72B Cask |
| | c | WIPP | Disposal – Remote-Handled |
| **ID-TEC-172Ta—INTEC TRU HEPA FILTERS** | | | |
| | 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 | CTF | Commercial Treatment Facility |
| | c | SCDF | Disposal - Contact-Handled |
| **ID-TEC-173—SODIUM-BEARING WASTE** | | | |
| | a | IWTU | Treatment Facility |
| | b | TRANS | Transport-TBD |
| | c | TBD | Disposal-TBD |
| **ID-TEC-174—HIGH-LEVEL WASTE CALCINE SOLIDS** | | | |
| | a | Calcine Disposition Facility | |
| | b | TRANS | Transport - HLW |
| | c | NHLWR | Disposal - HLW Repository |
| **ID-TEC-175—INTEC LIQUID WASTE** | | | |
| | a | IWTU | Treatment Facility |
| | b | TRANS | Transport - TBD |
| | c | TBD | Disposal - TBD |

Table 6-2. (continued).

| STP ID/NAME | Step | Facility Abbr. | Unit Name |
|---|---|---|---|
| **ID-TEC-670Ta—MTRU LABORATORY ANALYTICAL WASTE** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| | d | CTF | Commercial Treatment Facility |
| **ID-TEC-699T—MIXED TRU WASTE FROM NWCF AND CSSF** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |
| | | | |
| **ID-TEC-699Ta—MIXED TRU WASTE FROM NWCF AND CSSF** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport - TRUPACT |
| | c | WIPP | Disposal - Remote-Handled |
| **ID-TRU-RHMA—RH TRU MIXED WASTE GENERATED FROM THE RWDP TREATMENT PROCESS** | | | |
| | a | RWDP | Remote-Handled Waste Disposition Project |
| | b | TRANS | Transport - 72B cask |
| | c | WIPP | Disposal - Remote-Handled |
| **ID-TRU-RHNH—RH TRU, NON-HAZARDOUS GENERATED FROM RWDP TREATMENT** | | | |
| | a | RWDP | Remote-Handled Waste Disposition Project |
| | b | TRANS | Transport– 72B cask |
| | c | WIPP | Disposal - Remote-Handled |
| **ID-TRU-RHNHa—RH TRU, NON-HAZARDOUS GENERATED FROM RWDP TREATMENT** | | | |
| | a | RWDP | Remote-Handled Waste Disposition Project |
| | b | TRANS | Transport - 72B cask |
| | c | WIPP | Disposal - Remote-Handled |
| **NR-NRF-673—HEAVY METAL DEBRIS** | | | |
| | a | CTF | Commercial Treatment |
| | b | SCDF or NNSS | Disposal - Contact-Handled |
| OFF-SITE MIXED WASTE TREATMENT PLANS | | | |
| **NOTE:** *The INL did not receive any off-Site waste during FY 2018, nor are there plans, currently, to receive any in FY 2019.* | | | |
| **Argonne National Laboratory – East** | | | |
| INL AECHHM Lot 2 Sludge | | | |
| INL AECHDM Debris | | | |
| **Los Alamos National Laboratory Waste** | | | |
| MSG04.001 Lot 1 | | | |
| MN02-V.001 | | | |
| LA-MHD01.001 Heterogeneous Debris | | | |
| LA-MHD03.001 Heterogeneous Debris | | | |
| LA-MHD04.001 Heterogeneous Debris | | | |
| LA-MHD09.001 Heterogeneous Debris | | | |
| **Treatment Plan for Off-Site Waste Streams** | | | |
| | a | AMWTP | Advanced Mixed Waste Treatment Project |
| | b | TRANS | Transport – TRUPACT |
| | c | WIPP | Disposal - Contact-Handled |