

## AR TARGET SHEET

The following document was too large to scan as one unit, therefore, it has been broken down into sections.

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TITLE: Hanford Facility RCRA  
Permit, Dangerous Waste  
Portion, Rev 008, 9/04

## APPENDIX A

## Acronyms (sheet 1 of 3)

|           |  |
|-----------|--|
| AAMSR     | Aggregate Area Management Study Report                               |
| ADS       | Activity Data Sheet  |
| AFP       | Approved Funding Plan  |
| ALARA     | As Low As Reasonably Achievable                                      |
| ALE       | Fitzner/Eberhardt Arid Lands Ecology Reserve                         |
| AMU       | Aqueous Makeup Unit  |
| ARAR      | Applicable, or Relevant and Appropriate Requirement                  |
| ATSDR     | Agency for Toxic Substances and Disease Registry                     |
| BAT/AKART | Best Available Technology/All Known and Reasonable Technologies      |
| BWIP      | Basalt Waste Isolation Project                                       |
| CAMU      | Correction Action Management Unit                                    |
| CDR       | Conceptual Design Report   |
| CERCLA    | Comprehensive Environmental Response, Compensation and Liability Act |
| CFR       | Code of Federal Regulations  |
| CMD       | Corrective Measures Design   |
| CMI       | Corrective Measures Implementation                                   |
| CMS       | Corrective Measures Study  |
| CPP       | CERCLA Past Practice   |
| CRP       | Community Relations Plan   |
| DCRT      | Double-Contained Receiver Tank                                       |
| DOE       | U.S. Department of Energy  |
| DOE-HQ    | U.S. Department of Energy - Headquarters                             |
| DOE-RL    | DOE Richland Operations Office (also known as RL)                    |
| DOI       | U.S. Department of Interior  |
| DQO       | Data Quality Objectives  |
| DRC       | Dispute Resolution Committee   |
| DST       | Double Shell Tank  |
| D&D       | Decommissioning and Decontamination                                  |
| DW        | Dangerous Waste  |
| EA        | Environmental Assessment   |
| ECA       | Environmental Corporation of America                                 |
| Ecology   | State of Washington Department of Ecology                            |
| EEA       | Engineering Evaluation of Alternative                                |
| EE/CA     | Engineering Evaluation/Cost Analysis                                 |
| EIS       | Environmental Impact Statement                                       |
| EM        | DOE Office of Environmental Management                               |
| EPA       | U.S. Environmental Protection Agency                                 |
| ER        | Environmental Restoration  |
| FDC       | Functional Design Criteria   |
| FFTF      | Fast Flux Test Facility  |
| FFS       | Focused Feasibility Study  |
| FS        | Feasibility Study  |
| GIS       | Geographic Information System (used on page G-2)                     |
| GPM       | Gallons Per Minute   |
| GPS       | Global Positioning System  |
| HLW       | High-Level Waste   |
| HSWA      | Hazardous and Solid Waste Amendments (of 1984)                       |
| HSWMUR    | Hanford Site Waste Management Units Report                           |
| HWMA      | Hazardous Waste Management Act                                       |
| HWVP      | Hanford Waste Vitrification Plant                                    |

## APPENDIX A

## Acronyms (sheet 2 of 3)

|         |  |
|---------|--|
| IAMIT   | Inter-Agency Management Integration Team               |
| IM      | Interim Measure  |
| IRA     | Interim Response Actions                               |
| IRM     | Information Records Management                         |
| ISS     | Interim Safe Storage (of the reactors)                 |
| ISV     | In-situ Vitrification                                  |
| LDR     | Land Disposal Restrictions                             |
| LERF    | Liquid Effluent Retention Facility                     |
| LES     | Liquid Effluent Study                                  |
| LFI     | Limited Field Investigation                            |
| LLBG    | Low-Level Burial Ground                                |
| LLW     | Low-Level Waste  |
| LWDF    | Liquid Waste Disposal Facility                         |
| M/S     | Milestone(s)   |
| MASF    | Maintenance and Storage Facility                       |
| MB      | Megabyte   |
| MCL     | Maximum Contaminant Level                              |
| MREM    | Millirem   |
| MWTF    | Multi-Function Waste Tank Facility                     |
| NCAW    | Neutralized Current Acid Waste                         |
| NCP     | National Oil and Hazardous Substances Contingency Plan |
| NCRW    | Neutralized Cladding Removal Waste                     |
| NEPA    | National Environmental Policy Act                      |
| NOAA    | National Oceanic and Atmospheric Administration        |
| NOD     | Notice of Deficiency                                   |
| NPDES   | National Pollutant Discharge Elimination System        |
| NPL     | National Priorities List                               |
| NRC     | Nuclear Regulatory Commission                          |
| NRDWL   | Nonradioactive Dangerous Waste Landfill                |
| O&M     | Operation and Maintenance                              |
| OMB     | Office of Management and Budget                        |
| ORP     | Office of River Protection                             |
| OU      | Operable Unit  |
| PA/SI   | Preliminary Assessment and Site Investigation          |
| PCHB    | Pollution Control Hearings Board                       |
| pCi/L   | Pico Curies per Liter                                  |
| PFP     | Plutonium Finishing Plant (Z Plant)                    |
| PNRS    | Preliminary Natural Resource Survey                    |
| PUREX   | Plutonium/Uranium Extraction                           |
| QA      | Quality Assurance                                      |
| QA/QC   | Quality Assurance/Quality Control                      |
| QC      | Quality Control  |
| QUAPjPs | Quality Assurance Project Plans                        |
| R&D     | Research and Development                               |
| RA      | Remedial Action  |
| RCRA    | Resource Conservation and Recovery Act                 |
| RCW     | Revised Code of Washington                             |
| RD      | Remedial Design  |
| RD/RA   | Remedial Design and Remedial Action                    |
| RD&D    | Research, Development, and Demonstration               |
| REDOX   | Reduction-Oxidation (Facility)                         |

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Acronyms (sheet 3 of 3)

|         |   |
|---------|---|
| RFA     | RCRA Facility Assessment                              |
| RFI     | RCRA Facility Investigation                           |
| RFI/CMS | RCRA Facility Investigation/Corrective Measures Study |
| RI      | Remedial Investigation                                |
| RI/FS   | Remedial Investigation/Feasibility Study              |
| RL      | Richland Operations Office (DOE)                      |
| RMW     | Radioactive Mixed Waste                               |
| ROD     | Record of Decision                                    |
| RPP     | RCRA Past Practice                                    |
| SAFER   | Streamlined Approach for Environmental Restoration    |
| SAP     | Sampling and Analysis Plan                            |
| SARA    | Superfund Amendments and Reauthorization Act of 1986  |
| SEC     | Senior Executive Committee                            |
| SHMS    | Standard Hydrogen Monitoring Systems                  |
| SMS     | Site Management System                                |
| SST     | Single-Shell Tank                                     |
| SWMU    | Solid Waste Management Unit                           |
| TAG     | Technical Assistance Grant                            |
| TBD     | To Be Decided / Determined                            |
| TCD     | Tank Characterization Database                        |
| TCRs    | Tank Characterization Reports                         |
| TMACS   | Tank Monitor and Control System                       |
| TPA     | Tri-Party Agreement                                   |
| TRU     | Transuranic   |
| TRUEX   | Transuranic Extraction (process)                      |
| TRUSAF  | Transuranic Waste Storage and Assay Facility          |
| TSD     | Treatment, Storage, and Disposal                      |
| TWAP    | Tank Waste Analysis Plan's                            |
| TWINS   | Tank Waste Information Network System                 |
| TWRS    | Tank Waste Remediation System                         |
| U.S.C.  | U.S. Code   |
| USDOE   | United States Department of Energy                    |
| USEPA   | United States Environmental Protection Agency         |
| USQ     | Unreviewed Safety Questions                           |
| WAC     | Washington Administrative Code                        |
| WESEF   | Waste Encapsulation and Storage Facility              |
| WGL     | Washington Guidance Level                             |
| WIDS    | Waste Information Data System                         |
| WPPSS   | Washington Public Power Supply System                 |
| WRAP    | Waste Receiving and Processing                        |
| WM      | Waste Management                                      |

## APPENDIX A

### Definition of Terms Used in the Action Plan (sheet 1 of 17)

**Acceptance Criteria:** A set of DOE-HQ approved criteria, as discussed in Section 14 of this document, which ensure a facility has: 1) successfully completed the facility transition phase, 2) prepared surveillance and maintenance (S&M) plan, and 3) maintained the S&M plan as a current document. As a result of meeting these conditions, the DOE Office of Environmental Restoration makes a determination of whether to accept the facility into the S&M phase (until a priority decision is made to disposition the facility).

**Administrative Record:** The administrative record is the body of documents and information that is considered or relied upon in arriving at a final decision for a remedial action, interim response action (i.e. removal action), corrective measure, interim measure, RCRA permit, or approved RCRA closure plan.

**Agency (Agencies):** Unless otherwise specified, the State of Washington Department of Ecology and the U.S. Environmental Protection Agency.

**Agency for Toxic Substances and Disease Registry:** The agency under the Department of Health and Human Services, Public Health Service, that is responsible for conducting health assessments at Superfund sites for EPA. (see Section 7.7)

**Agreement:** The Hanford Federal Facility Agreement and Consent Order, including all attachments, addenda and modifications, which are required to be written and to be incorporated into or appended.

**Applicable or Relevant and Appropriate Requirement (ARAR):** Any standard, requirement, criteria or limitation as provided in Section 121(d)(2) of CERCLA. (see Section 7.5)

**Authority:** Legal jurisdiction enabling a governmental agency to administer and implement federal or state laws and regulations.

**B Plant:** Old Hanford plutonium recovery and separations facility converted in 1968 for waste fractionation.

**Base RCRA Program:** Those elements of the federal Resource Conservation and Recovery Act of 1976, as amended, for which the state of Washington has received authorization to implement. The state implements its own dangerous waste program in lieu of the base RCRA program.

**Burial Ground:** Land area specifically designated to receive contaminated waste packages and equipment, usually in trenches covered with overburden.

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### Definition of Terms Used in the Action Plan (sheet 2 of 17)

**Carbon Tetrachloride:** A chlorinated organic solvent used in the plutonium extraction process at the Plutonium Finishing Plant. Carbon tetrachloride is a known human liver carcinogen via inhalation and ingestion. Other toxic effects include central nervous system damage.

**Chromium:** An inorganic element, found in the environment in two forms: hexavalent and trivalent. Hexavalent chromium is carcinogenic via inhalation; hexavalent and trivalent chromium are less toxic via ingestion. Hexavalent chromium is a primary contaminant in groundwater beneath the 100 Area at Hanford.

**CERCLA Past Practice (CPP):** A process by which a past practice unit containing hazardous substances will be addressed for response action (as opposed to RCRA past practice). (see Section 7.3)

**Closure:** Actions taken to reduce the human health and environmental threats posed by a hazardous waste treatment, storage and/or disposal (TSD) facility or unit (along with its structures and contiguous land) after the facility or unit has received its final volume of hazardous waste. Closure must satisfy applicable requirements of 40CFR Part 264, subpart G, and of WAC 173-303-610. For purposes of this Agreement, use of the word closure also includes actions necessary for the facility or unit to meet post closure requirements.

**Code of Federal Regulations (CFR):** Regulations developed by the federal government to implement statutory requirements.

**Community Relations Plan (CRP):** A report that assesses and defines a community's informational needs concerning potential hazards posed by conditions at hazardous waste sites. The CRP also encourages and ensures two-way communication between an affected community and the public agency overseeing the site cleanup. (see Section 10.0)

**Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), also known as Superfund:** The federal statute enacted in 1980 and reauthorized in 1986, which provides the statutory authority for cleanup of hazardous substances that could endanger public health or welfare or the environment.

**Conceptual Design Report:** DOE's initial design phase for a new hazardous waste management or support unit at Hanford; a specific element necessary in DOE's planning and budget process.

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**Definition of Terms Used in the Action Plan (sheet 3 of 17)**

**Confined Aquifer:** An aquifer having defined, relatively impermeable upper and lower boundaries and the pressure of which is significantly greater than atmospheric.

**Containment Building (for the purposes of RCRA Interim Status Standards):** A completely enclosed, self-supporting structure that is designed and constructed of manmade materials of sufficient strength and thickness to support themselves, the waste contents, and any personnel and heavy equipment that operate within the units. It has a primary barrier designed to be: 1) sufficiently durable to withstand the movement of personnel and the handling of equipment within the unit and 2) operated to ensure containment and prevent the tracking of materials from the unit by personnel or equipment. (Ref. 40 CFR 265.1100)

**Contamination (Groundwater and Surface Water):** An impairment of quality by biological, chemical, or radiological materials that lowers the water quality to a degree which creates a potential hazard to the environment, public health, or interferes with a beneficial use.

**Corrective Action:** The RCRA processes of interim and corrective measures. See definitions for Interim Measure and Corrective Measure.

**Corrective Measure:** An action taken under RCRA authority to permanently resolve a hazardous waste release or to significantly reduce the potential for a future release from a unit or group of units.

**Corrective Measures Implementation (CMI):** The step in RCRA past practice process in which a corrective action system is designed and implemented; comparable to the Remedial Design and Remedial Action phases of the CERCLA process. (see Section 7.4)

**Corrective Measures Study (CMS):** The step in the RCRA past practice process in which alternatives for a corrective action system are investigated and screened; comparable to the Feasibility Study phase of the CERCLA process. (see Section 7.4)

**Crib:** An underground structure designed to receive liquid waste that can percolate into the soil directly and/or after travelling through a connected tile field.

**Cyanide:** An extremely hazardous substance used in the extraction of ores, treatment of metals, and in the manufacture of pharmaceuticals.

**Dangerous Waste (DW):** Those solid wastes designated in WAC 173-303-070 through 173-303-103 as dangerous or extremely hazardous wastes.

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### Definition of Terms Used in the Action Plan (sheet 4 of 17)

Data Quality Objective (as used for a planning process): The formal decision making process between the laboratory and the client that defines necessary analytical requirements based on the end-use of the data.

Days: Calendar days, unless otherwise specified. Any submittal, Written Notice of Position or written statement of dispute that would be due under the terms of this Agreement on a Saturday, Sunday or federal or state holiday shall be due on the following business day.

Deactivation: Activities associated with removing facility systems and/or areas from operational service with the intent of being ready for facility transition to either convert the facility for another use or move to permanent shutdown. These activities could include the removal of fuel, draining and/or de-energizing of systems, removal of accessible stored radioactive and hazardous materials and other actions to place the facility systems and/or areas in a safe and stable condition so that a surveillance and maintenance program will be able to most cost effectively prevent any unacceptable risk to the public or the environment until ultimate disposition of the facility. (Note: These activities are usually conducted during the facility transition phase.)

Decontamination and Decommissioning (D&D)-(as defined by DOE Order 5840.2 for the D&D Program):

- Decontamination: The process of removing radioactive and/or hazardous contamination from facilities, equipment, or soils by physical removal, washing, heating, chemical action, mechanical cleaning or other techniques to achieve a stated objective or end condition.
- Decommissioning: Actions taken to reduce the potential health and safety impacts of DOE contaminated facilities, including activities to stabilize, reduce, or remove radioactive materials or to demolish the facilities.

Definitive Design: DOE's design phase in which detailed construction drawings and specifications are prepared following conceptual design for a new, or modification to a facility or unit.

Dismantlement: The process of disassembly and/or demolition of all or portions of a facility, and appropriate disposal of the residue.

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### Definition of Terms Used in the Action Plan (sheet 5 of 17)

- Double Shell Tank (DST): A reinforced concrete underground vessel with two inner steel liners to provide containment and backup containment of liquid wastes; annulus is instrumented to permit detection of leaks from inner liner.
- Entombment: The remedial process to encapsulate a facility in place as a method of final disposition once cleanout has been completed.
- Executive Manager: For DOE, executive managers are the Assistant Managers with responsibility for implementing terms and conditions of the Agreement regarding the projects under his/her authority. For Ecology, the executive manager is the Program Manager of the Nuclear Waste Program. For EPA Region 10, the Executive Manager is the Program Manager, Hanford Project Office.
- Expedited Response Action: A general term referring to either an interim response action (i. e. removal action) under authority of CERCLA, or an interim measure under the authority of HSWA.
- Extremely Hazardous Waste (EHW): Those solid wastes designated in WAC 173-303-070 through 173-303-103 as dangerous or extremely hazardous wastes.
- Facility (as applied to the Facility Decommissioning Process): A free-standing building, plant, laboratory, or other enclosure and associated buildings and disposal sites under its responsibility that fulfills, or fulfilled, a specific purpose, and is owned by or otherwise under the responsibility of the DOE-HQ. (Note: This usage differs substantially from that in the Comprehensive Environmental Response, Compensation, and Liability Act [CERCLA] and RCRA).
- Facility Decommissioning Process: The sequential phases for a facility, once a shutdown decision is made by DOE-HQ, beginning with facility transition, through surveillance and maintenance (S&M), and final facility disposition.
- Facility Disposition Phase: Final period in the life of a facility. This phase occurs when no future use is identified as part of the DOE-HQ facility assessment process and priority is given to proceed with disposition. This phase primarily involves processes to achieve a final end state for the facility (e.g., entombment, and/or dismantlement and site restoration), including closure of any TSDs. Facility disposition may be integrated with cleanup of past-practice units covered under CERCLA Remedial Action or RCRA Corrective Measure Authority.

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**Definition of Terms Used in the Action Plan (sheet 6 of 17)**

**Facility End Point Criteria (as used during facility transition phase):**  
Facility-specific criteria prepared during facility transition planning to support development of the transition planning documentation, work plans, and ultimately the project management plan (see Section 14.0). Collectively these criteria provide a technical description of the acceptable state of facility components to be achieved at the end of the facility transition phase and are prepared consistent with EM acceptance criteria objectives outlined in the DOE-HQ EM Guidance Document. This definition includes a status of how tanks, piping, rooms/areas and miscellaneous systems and equipment will be left at the end of the transition phase for a period of surveillance and maintenance prior to final disposition. (Note: End point criteria for regulated units and hazardous substances that will remain in the facility following transition will be approved by the regulators.)

**Facility End State Criteria (as used during facility disposition phase):**  
Facility-specific criteria prepared during facility disposition planning to support development of planning documentation, work plans, and ultimately the disposition Project Management Plan (see Section 14.0). It provides a technical description and end state of the facility or facility area to be achieved (in accordance with the NEPA process, CERCLA and/or RCRA requirements, stakeholder input, and final land use planning) at the end of the facility disposition phase.

**Facility Startup:** The time at which the Department of Energy has completed their readiness assessment and has provided the operating contractor approval via letter to start initial operations. At this time the contractor has completed their readiness review verifying that: 1) all operability tests have been completed, 2) operating procedures are available for use, and 3) a trained operating staff capable of operating the facility is in place.

**Facility Surveillance and Maintenance (S&M) Phase:** Period in the life of a facility following completion of the transition phase until such time as the facility is dispositioned for other use, or facility disposition has commenced. The S&M program provides direction, management, and performance assessments to be carried out in accordance with an approved S&M Plan. The S&M phase ensures that facilities are maintained in a safe and environmentally sound manner until a final disposition occurs. In addition, the S&M level of effort will be established in the S&M Plan to minimize the costs of final disposition (i.e. as low as economically achievable) whether the facility is planned by DOE-HQ to be released for alternate use or for dismantlement and site restoration, and/or entombment under the facility disposition phase.

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### Definition of Terms Used in the Action Plan (sheet 7 of 17)

Facility Transition Phase: A period of time during which activities necessary to place the subject facility in a safe, stable, and environmentally sound condition, suitable for an extended period of surveillance and maintenance pending final disposition are completed. Facility transition starts with termination of operations, includes the establishment of a S&M program, and ends with the achievement of facility-specific end point criteria.

These actions could include the collective conversion of the facility for potential other uses or permanent shutdown; by the removal of fuel, draining and/or de-energizing of systems, removal of accessible stored radioactive and hazardous materials and other deactivation actions to place the facility in a safe and stable condition for the surveillance and maintenance program. This phase usually involves stabilization and deactivation processes and may also include some decontamination activities necessary to effectively result in reduced S&M cost for the facility. (Note: Facility transition documentation describing end point criteria for regulated units and hazardous substances that will remain in the facility following transition will be approved by the regulators.)

Fast Flux Test Facility (FFTF): A liquid metal test reactor that serves as a test tool for advanced reactor technology. Operations at the FFTF began in April 1982 and have since expanded into other areas, such as fusion research, space power systems and isotope production.

Feasibility Study (FS): The step in the CERCLA process in which alternatives for a remedial action system are investigated and screened (see Section 7.3).

Final Disposition of the Reactors: Final disposition of the reactors will consist of removing the reactor cores from their present location to a disposal facility in the 200 Area of the Hanford Site as specified in the FEIS-ROD. Associated structure(s) and residual wastes will be removed so as to meet established cleanup requirements pertaining to Hanford's 100 Area. Resulting wastes will be disposed at Hanford's ERDF, or other disposal facility as may be approved by the parties.

Fiscal Year (FY): As used in this document, the federal government fiscal year, October 1 through September 30. Note that the State of Washington fiscal year is July 1 through June 30.

Focused Feasibility Study: A study conducted such that a limited number of alternative are evaluated that are focused to the scope of the response action planned.

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### Definition of Terms Used in the Action Plan (sheet 8 of 17)

**French Drain:** A rock-filled encasement with an open bottom to allow seepage of liquid waste into the ground.

**Future Site Uses Working Group:** A group of representatives from tribal, government, business, economic development, labor, agriculture, environmental groups, and public interest groups with interests in Hanford. The group was charged with the task of articulating a range of visions for the future use of the Hanford Site, discussion on the implications of those visions on cleanup, and probing for commonalities and convergencies within the participants' visions as they applied to cleanup scenarios and priorities.

**Groundwater:** Water which fills the spaces between soil, sand, rock, and gravel particles beneath the earth's surface. Rain that does not immediately flow to streams and rivers slowly percolates down through the soil to a point of saturation to form groundwater reservoirs. Groundwater flows at a very slow rate, compared to surface water, along gradients which often lead to river systems. If occurring in significant quantities, groundwater can be withdrawn for domestic, industrial, and agricultural purposes.

**Grout:** A fluid mixture of cementitious materials and liquid waste that sets up as a solid mass and is used for waste fixation and immobilization. The Hanford Grout facility will be regulated under the RCRA program.

**Grout Campaign:** The complete filling of one vault with treated waste/grout mixture.

**Hanford Operable Units Report:** Documents the assignment of individual units to operable units and provides the rationale and justification for the prioritization of the operable units for the remedial investigation process.

**Hanford Past Practice Strategy:** A strategy developed with the primary objective to develop a uniform, stream-lined process to meet statutory requirements and integrate/coordinate CERCLA RI/FS and RCRA past-practice RFI/CMS requirements through effective cleanup actions.

**Hanford Site:** Also referred to as "Hanford" or "Site", the approximately 560 square miles in Southeastern Washington State, excluding leased lands, and State and Bonneville Power Administration owned lands, which is owned by the United States and which is commonly known as the Hanford Reservation (Figure 7-1 in the Action Plan). This definition is not intended to limit CERCLA or RCRA authority regarding hazardous wastes, substances, pollutants or contaminants which have migrated off the Hanford Site.

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**Definition of Terms Used in the Action Plan (sheet 9 of 17)**

Hanford Site Waste Management Units Report (HSWMUR): Document listing all known waste management units at Hanford and summarizes the wastes handled, dates of use and other information about each unit. (see Section 3.5)

Hanford Waste Vitrification Plant (HWVP): A facility to be constructed for treatment of high level liquid radioactive waste. Liquids are vitrified or glassified in order to reduce the potential for radioactive and hazardous contamination leaching into the environment. This unit will be regulated under RCRA.

Hazardous and Solid Waste Amendments of 1984, P.L. 98-616 (HSWA): The reauthorization of the RCRA program, enacted by Congress on November 8, 1984.

Hazardous Substance: Substances regulated under CERCLA, as defined in CERCLA Sec. 101(14).

Hazardous Waste: Those wastes included in the definitions of RCRA 1004(5) and RCW 70.105.010(15).

Hazardous Waste Constituent, also referred to as "hazardous constituent" or "constituent": A constituent that caused the Administrator of the Environmental Protection Agency to list the hazardous waste in 40 CFR Part 261, Subpart D or a constituent listed in Table 1 of 40 CFR 261.24. (Hazardous constituents are listed in 40 CFR Part 261, Appendix VIII.)

Hazardous Waste Management Act (HWMA): The Hazardous Waste Management Act, codified at Ch. 70.105 RCW, and its implementing regulation at Ch. 173-303 Washington Administrative Code. (A state program, commonly referred to as the State Dangerous Waste Program, which regulates the generation, treatment, storage and/or disposal of hazardous wastes in cooperation with RCRA).

Imminent and Substantial Endangerment: A situation in which the lead regulatory agency and DOE immediately respond to a release of a hazardous substance or hazardous waste in order to abate the danger or threat to public health or welfare or the environment. Such action may be taken under CERCLA, RCRA, or HWMA authority, as appropriate.

In-Situ Vitrification (ISV): A process by which electrical current is passed through contaminated soils in-place heating the soil to a molten state. While cooling the soils become a homogenous glass-like block thereby minimizing the leachability of contaminants.

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### Definition of Terms Used in the Action Plan (sheet 10 of 17)

**Interagency Management Integration Team (IAMIT):** A committee of the Executive Managers from each agency with the functions of negotiation of new milestones, adjustment of scope and schedule of existing interim milestones, and Tri-Party Agreement Issue Resolution/Dispute Resolution. The IAMIT also serves as the interface with the Hanford Advisory Board (HAB).

**Interim Isolation (as pertains to Single-Shell Tanks):** Disconnecting and blanking or capping pipelines from SST systems and installing barriers to avoid inadvertent liquid addition.

**Interim Measure (IM):** An expedited response action taken under RCRA authority to mitigate a hazardous waste release or to reduce the potential for a future release from a unit. (see Section 7.2.4)

**Interim Response Action (IRA):** An expedited response action taken under CERCLA authority to mitigate a hazardous substance release or to reduce the potential for a future release from a unit. (see Section 7.2.4)  
Referred to as a removal action in the NCP.

**Interim Safe Storage (ISS) of the Reactors:** Interim Safe Storage (ISS) is the first stage of final disposition. It consists of (i) ensuring that facility hazardous substances are and will remain safe and secure, and (ii) reducing the footprint of the reactor building to the primary shield wall, and sealing all openings such that the facility is in an environmentally safe and secure condition prior to initiation of disposition phase II. During reactor ISS all ancillary structures surrounding the shield wall will be removed. Resulting wastes will be disposed at Hanford's Environmental Restoration Disposal Facility (ERDF), or other disposal facility as may be approved by the parties. On completion of ISS, surveillance and maintenance systems will be upgraded as appropriate to provide for remote monitoring of the remaining structure prior to disposition phase II.

**Interim Stabilization (as pertains to Single-Shell Tanks):** Is the removal of pumpable supernatant and interstitial liquid from SST systems into DST systems. As much liquid as practicable will be removed. Supernatant is free standing liquid. Interstitial liquid is that liquid in the waste matrix contained within the pore spaces of the salts and sludges, some of which is capable of gravity drainage while the rest is held by capillary forces. Remaining uncompleted milestones and associated target dates for interim stabilization of DOE's Single-Shell Tanks are deleted from the scope of the Tri-Party Agreement.

**Interim Status:** A RCRA provision which grants a facility the right to continue to operate (treat, store, or dispose of hazardous waste) in accordance with applicable RCRA or state regulations until a RCRA permit is issued.

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**Definition of Terms Used in the Action Plan (sheet 11 of 17)**

- Land Disposal Restriction Waste (LDR): RCRA hazardous wastes, subject to Section 3004(d) through (m) of RCRA and 40 CFR 268.
- Lead Regulatory Agency: The agency (EPA or Ecology) which is assigned regulatory oversight responsibility with respect to actions under this Agreement regarding a particular Operable Unit, TSD group/unit or milestone pursuant to Section 5.6 of the Action Plan. The designation of a Lead Regulatory Agency shall not change the jurisdictional authorities of the Parties.
- National Oil and Hazardous Substances Pollution Contingency Plan (NCP): The title of the federal regulations (40 CFR Part 300) promulgated under the authority of CERCLA.
- National Priorities List (NPL): EPA's list of priority waste sites containing hazardous substances that will be investigated and cleaned up under the Superfund program.
- Notice of Deficiency (NOD): A RCRA administrative action in which the lead regulatory agency defines specific deficiencies or omissions in RCRA primary documents. (see Section 9.2)
- Office of River Protection (ORP): DOE's organizational structure at the Hanford Site that is responsible for managing all aspects of the Tank Waste Remediation System (Also referred to as the Hanford Tank Farm Operations). The Manager of the Office of River Protection reports directly to DOE's Assistant Secretary of Energy for Environmental Management.
- Operable Unit: A discrete portion of the Hanford Site, as identified in Section 3.3 of the Action Plan. An operable unit at Hanford is a group of land disposal sites placed together for the purposes of doing a Remedial Investigation/ Feasibility Study (RI/FS) and subsequent cleanup actions. The primary criteria for placement of a site into an operable unit includes geographic proximity, similarity of waste characteristics and site type, and the possibility for economies of scale.
- Parties: The U.S. Environmental Protection Agency, the State of Washington Department of Ecology, and the U.S. Department of Energy, all of which are signing the Agreement and Action Plan.
- Plutonium Uranium Extraction (PUREX): Latest in a line of separation technologies, preceded by bismuth phosphate and REDOX.
- Post-Closure: The period of care, including maintenance, monitoring, and reporting, that is undertaken at a facility or unit (e. g. landfill or impoundment closed as disposal facilities or units) after closure to ensure continued environmental safety. Post closure care must satisfy applicable requirements of 40 CFR Part 264, subpart G, and of WAC 173-303-610.

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### Definition of Terms Used in the Action Plan (sheet 12 of 17)

**Preliminary Assessment and Site Inspection (PA/SI):** Normally the first step in analyzing the nature and severity of contamination at a potential CERCLA site and is used to determine if a site should be nominated for the NPL. Based upon extensive documentation previously submitted to EPA by DOE, this requirement is considered to have been satisfied for the Hanford Site.

**Primary Documents:** Documents which contain information, documentation, data, and proposals upon which key decisions will be made with respect to the remedial action or permitting process. Primary documents are subject to dispute resolution and are part of the administrative record. (see Section 9.2)

**Project Manager:** The individual responsible for implementing the terms and conditions of the Agreement at the specific operable unit level on behalf of his/her respective Party. The project manager has direct responsibility for completion of targets and milestones and has authority to agree to modifications of scope and schedule, in accordance with Section 12.0 of the Action Plan.

**Quality Assurance (QA):** The systematic actions necessary to provide adequate confidence that a material, component, system, process, or facility performs satisfactorily, or as planned in service.

**Quality Control (QC):** The quality assurance actions that control the attributes of a material, process, component, system, or facility in accordance with predetermined quality requirements.

**Radioactive Mixed Waste:** Also called "mixed waste", wastes that contain both hazardous waste subject to RCRA, as amended, and radioactive waste subject to the Atomic Energy Act of 1954, as amended. Mixed waste is regulated under the State Dangerous Waste Program.

**Radioactive Waste:** A solid, liquid, or gaseous material of negligible economic value that contains radionuclides in excess of threshold quantities except for radioactive material from post-weapons-test activities.

**Record of Decision (ROD):** The CERCLA document used to select the method of remedial action to be implemented at a site after the Feasibility Study/Proposed Plan process has been completed. (see Section 7.3)

**Remedial Action:** An action taken under CERCLA authority to permanently resolve a hazardous substance release or to significantly reduce the potential for a release from a unit or group of units.

**APPENDIX A**

**Definition of Terms Used in the Action Plan (sheet 13 of 17)**

Remedial Action (RA) Phase: The CERCLA process of remedial action implementation after the investigative steps have been completed and after issuance of the Record of Decision and after Remedial Design has been completed. (see Section 7.3)

Remedial Design (RD): The CERCLA process of design for the remedial action alternative that was selected in the Record of Decision. (see Section 7.3)

Remedial Investigation (RI): The CERCLA process of determining the extent of hazardous substance contamination and, as appropriate, conducting treatability investigations. The RI is done in conjunction with the Feasibility Study. (see Section 7.3)

Resource Conservation and Recovery Act (RCRA): 42 U.S.C. Sec. 6901 et seq., as amended. For purposes of this Agreement, "RCRA" also includes the HWMA Ch. 70.105 RCW. (A federal law enacted in 1976 that regulates the generation, transportation, treatment, storage, and disposal of hazardous wastes).

Response Action: The CERCLA processes of interim response and remedial actions. See definitions for Interim Response Action and Remedial Action.

Responsiveness Summary: A summary of oral and/or written public comments received during a comment period on key documents, and agency responses to those comments. The responsiveness summary is especially valuable during the decision process at a site, because it highlights community concerns about the proposed decision.

RCRA Facility Assessment (RFA): The initial RCRA process to determine whether corrective action for a RCRA past practice unit is warranted, or to define what additional data must be gathered to make this determination; analogous to a CERCLA Preliminary Assessment and Site Inspection (see Section 7.4)

RCRA Facility Investigation (RFI): The RCRA process of determining the extent of hazardous waste contamination; analogous to the CERCLA Remedial Investigation. (see Section 7.4)

RCRA Past Practice (RPP): A process by which a past practice unit containing hazardous wastes or hazardous constituents will be addressed for corrective action, regardless of the date waste was received or discharged at a unit. (see Section 7.4)

**APPENDIX A**

**Definition of Terms Used in the Action Plan (sheet 14 of 17)**

**RCRA Permit:** A permit under RCRA and/or HWMA for treatment, storage or disposal of hazardous waste.

**Revised Code of Washington (RCW):** The Washington State statutes.

**Risk Assessment:** An analysis of the potential adverse effects to human health and/or the environment (current or future) caused by radionuclide and/or hazardous substance releases from a site in the absence of any actions to control or mitigate these releases.

**S&M Surplus Facilities:** Facilities on the Hanford Site transferred from DOE Operations to the surveillance and maintenance phase under the responsibility of EM (Office of Environmental Restoration) prior to the establishment of the EM (Office of Facility Transition). The facility decommissioning process for these special case facilities will be completed entirely under the disposition phase funded on a DOE-HQ priority basis by EM (Office of Environmental Restoration).

**Secondary Document:** As distinguished from Primary Document, it is considered to be a supporting document providing information or data and does not, in itself, reflect key decisions. A secondary document is subject to review by the regulatory agencies and is part of the administrative record. It is not subject to dispute resolution. (see Section 9.2)

**Shutdown Decision:** A formal DOE-HQ documented determination that a facility is surplus (see surplus facility).

**Signatories:** The Signatories are: For the DOE, the signatory shall be the Manager, Richland Operations Office. For the EPA, the Signatory shall be the Regional Administrator for Region X. For the State of Washington Department of Ecology, the signatory shall be the Director.

**Single-Shell Tank (SST):** At Hanford, 149 single-shell carbon steel tanks (ranging in size from 55,000 to 1 million gallons) that have been used to store high-level radioactive wastes.

**Skyshine:** Gamma radiation emitted from a source that is reflected off particles in the air, sometimes landing several hundred meters from their point of origin.

**APPENDIX A**

**Definition of Terms Used in the Action Plan (sheet 15 of 17)**

**Stabilization:** The combination of steps or activities to secure, convert and/or confine radioactive and/or hazardous material within enclosures, exhaust ducts, and process equipment within a facility. These activities may include; removal of loose equipment items, draining process fluids to the maximum extent practicable, coating internal surfaces with a fixative coating, removal of waste materials, installing seals and blank flanges, termination of nonessential energy sources, and/or conversion of reactive residues to a stable form suitable for extended safe storage. (Note: Stabilization activities are usually performed during the facility transition phase, but may be performed before the transition phase as a best management practice for cost efficiency, as low as reasonably achievable [ALARA], and/or safety purposes.)

**State of Washington Department of Ecology (Ecology):** The State of Washington Department of Ecology, its employees and Authorized Representatives.

**State-only Wastes:** Any liquid, solid, gas or sludge, regardless of quantity that exhibits any of the physical, chemical, or biological properties described in WAC 173-303-070 through 103.

**Superfund Amendments and Reauthorization Act of 1986 (SARA):** The reauthorization of the CERCLA statute, enacted by Congress in December 1986.

**Support Agency:** The regulatory agency (EPA or Ecology) which is not designated as the lead regulatory agency at an operable unit. The support agency will provide assistance to the lead regulatory agency, as needed.

**Surplus Facility:** Any facility or site (including equipment) that has no identified programmatic use by the operating phase Program Secretarial Officer.

**Surveillance and Maintenance:** Activities conducted to assure that a site or facility remains in a physically safe and environmentally secure condition, and includes periodic inspections and monitoring of the property, appropriate contamination control actions, and required maintenance of barriers controlling access. (Note: This process continues as a best management practice through the facility disposition phase until final disposition is achieved as defined in Section 8.0 of this Action Plan.)

**APPENDIX A**

**Definition of Terms Used in the Action Plan (sheet 16 of 17)**

**Tank Waste Task Force:** A group of representatives from tribal, government, business, economic development, labor, agriculture, environmental groups, and public interest groups focused on Hanford, labor, and public health. The task force was charged with providing values relative to the Tank Waste Remediation System and with principles for the overall Tri-Party Agreement package during the renegotiations of the Tri-Party Agreement, Summer 1993.

**Technical Assistance Grant (TAG):** A grant available from EPA designed to enhance public participation as described in Section 117 of CERCLA. A maximum of \$50,000 per NPL site is available. Grant money must be used for the purpose of interpreting information regarding CERCLA activity at the site.

**Treatment, Storage, or Disposal (TSD):** A RCRA term referring to the treatment, storage, or disposal of hazardous waste. Under RCRA, TSD activity can occur only at units which received or stored hazardous waste after November 19, 1980, the effective date of the RCRA regulations.

**Treatment, Storage, or Disposal (TSD) Group:** A grouping of TSD units for the purpose of preparing and submitting a permit application and/or closure plan pursuant to the requirements under RCRA, as determined in the Action Plan.

**Treatment, Storage, or Disposal (TSD) Unit:** A unit used for treatment, storage, or disposal of hazardous waste and is required to be permitted and/or closed pursuant to RCRA requirements as determined in this Action Plan.

**United States Department of Energy (DOE):** The United States Department of Energy, its employees and Authorized Representatives.

**United States Environmental Protection Agency (EPA):** The United States Environmental Protection Agency, its employees and Authorized Representatives.

**Unplanned Release:** An unintentional release, including a spill, of hazardous waste or hazardous substance into the environment.

**Vadose Zone:** The unsaturated region of soil between the ground surface and the water table.

**APPENDIX A**

**Definition of Terms Used in the Action Plan (sheet 17 of 17)**

**Validated Data:** Data that DOE has determined meets criteria contained in the "Data Validation Guidelines for Contract Laboratory Program Organic Analyses" and "Data Validation Guidelines for Contract Laboratory Program Inorganic Analyses" that are contained in the Sample Management Administrative Manual.

**Verified Data:** Data that has been checked for accuracy and consistency by DOE following a transfer action (e.g., from manual log to computer or from distributed data base to centralized data repository).

**Vitrification:** [see Hanford Waste Vitrification Plant (HWVP) or In-Situ Vitrification.]

**Washington Administrative Code (WAC):** The Washington State regulations.

**Waste Information Data System (WIDS):** A database which identifies all waste management units on the Hanford Site. It describes the current status of each unit, along with descriptive information. (see Section 3.5)

**APPENDIX A**

**Definition of Other Technical Terms (sheet 1 of 6)**

Note: These terms are not considered part of the Action Plan, but are provided to the reader for informational purposes only.

Absorption: The process by which radiation imparts some or all of its energy to any material through which it passes; the taking up of a substance by another substance.

Alpha-Emitter: A radioactive substance, such as plutonium, that emits alpha particles. Alpha radiation is much less penetrating than gamma or beta radiation, but is much more ionizing, and therefore potentially extremely toxic.

Aquifer: A geologic formation, group of formations, or part of a formation capable of yielding significant quantities of groundwater to wells, springs, or other points of discharge.

Aquifer System: A logical grouping of aquifers in a region, grouped on the basis of characteristics such as superficial geology, water quality, and vulnerability.

Annulus: Also called "annular space", this is the space between the outer and inner casing of a well, or the space between the wall of the drilled hole and the casing.

As Low As Reasonably Achievable (ALARA): A radiation protection principle applied to radiation exposure, with costs and benefits taken into account.

Background Water Quality: The natural levels of chemical, physical, biological, and radiological constituents or parameters upgradient of a unit, practice, or activity that have not been affected by that unit, practice, or activity.

Barrier: A manmade addition to a disposal site that is designed to retard or preclude contaminant transport and/or to preserve the integrity of the disposal site.

Basalt: A dark, fine-grained, extrusive igneous rock.

Basalt Waste Isolation Project (BWIP): Program to study Hanford as a possible location for the high-level nuclear waste repository.

Beneficial Uses: Uses of waters of the state that include but are not limited to use for domestic water, irrigation, agriculture, fish, shellfish, recreation, industrial water, and generation of electric power.

**APPENDIX A**

**Definition of Other Technical Terms (sheet 2 of 6)**

**Beta Radiation:** Essentially weightless charged particles (electrons or positrons) emitted from the nucleus of atoms undergoing nuclear transformation.

**Bottoms (tank bottoms):** The concentrated material remaining in the waste tanks after most of the contents have been pumped out for solidification or transfer to other storage tanks; refers also to specific tanks used to collect such bottoms waste from several other tanks.

**Byproduct Material:** Waste produced by extraction or concentration of uranium or thorium from any ore processed primarily for its source material content, including discrete surface waste resulting from uranium solution extraction processes; excludes fission products and other radioactive material covered in 10 CFR Part 20.3(3).

**Cold Standby:** A condition whereby a reactor is defueled and maintained in a state that will allow the reactor to be restarted, if necessary.

**Criteria:** Numerical or narrative values which represent the maximum level a contaminant must not exceed to maintain a given beneficial use.

**Curie (Ci):** The basic unit used to describe the intensity of radioactivity. A curie is equal disintegrations to 37 billion per second.

**Defense Waste:** Radioactive waste from any activity performed in whole or in part in support of DOE atomic energy defense activities; term excludes waste under purview of the Nuclear Regulatory Commission or generated by the commercial nuclear power industry.

**Ditch:** An unlined conveyance for transport of liquid wastes to a pond or trench structure designed for percolation.

**Drywell:** A drainage receptacle constructed by digging a hole and refilling with coarse gravel; also a watertight well casing used for inserting monitoring equipment.

**Enforcement Standard:** The value assigned to any contaminant for the purposes of regulating that contaminant.

**Ethylene Glycol:** An organic compound used primarily as an anti-freeze. Ethylene glycol is moderately toxic when ingested.

**Evapotranspiration:** The combined loss of water from soil by evaporation and from the surfaces of plant structures.

**APPENDIX A**

**Definition of Other Technical Terms (sheet 3 of 6)**

**Half-life:** The time required for a radionuclide's activity to decay to half its value, used as a measure of the persistence of radioactive materials; each radionuclide has a characteristic constant half-life.

**Halogenated Hydrocarbons:** Organic compounds containing atoms such as chlorine, fluorine, iodine, or bromine.

**Hydraulic Continuity:** A term used to describe the relationship between groundwater and surface water, wherein they are often connected, allowing flow in either or both directions.

**Iodine:** A gaseous inorganic chemical produced in the plutonium production reactors at Hanford. Radioactive isotopes of iodine are found in most radioactive waste streams at Hanford.

**Ion Exchange:** Process for selectively removing a hazardous constituent from a waste stream by reversibly transferring ions between an insoluble solid and the waste stream; the exchange medium (usually from a column of resin) can then be washed to collect the waste or taken directly to disposal. Both the residue and liquid stream from this process may still be a hazardous waste.

**Isotope:** Any of two or more forms of a chemical with the same atomic number and nearly identical chemical behavior but different atomic mass and physical (e.g. radioactive) properties.

**Jet Pumping:** A technique for removing interstitial liquor from single-shell tanks.

**Leachate:** The product obtained from the passage of water through landfills or storage piles.

**Lead:** A heavy metal used for shielding material in nuclear reactors. Lead can be toxic when ingested or inhaled. Lead can impair nervous system development in children and can cause nervous system damage in adults. Lead is also a reproductive toxin.

**Level of Detection:** The level at which a constituent can be detected by a department approved method of analysis.

**Liquid Waste Disposal Site:** Units used for discharge of contaminated liquids to the ground.

**Low-Level Waste (LLW):** Typically contains small amounts of radioactivity in large volumes, and most can be handled without protective shielding. Solid low-level waste consists of trash such as clothing, tools, and glassware. Liquid waste consists primarily of water circulated as cooling water.

**APPENDIX A**

**Definition of Other Technical Terms (sheet 4 of 6)**

**Lysimeter:** An instrument for measuring the water percolating through soils and determining the materials dissolved by the water.

**Maximum Contaminant Level (MCL):** The maximum level of a contaminant in water that can exist without harming the beneficial use of drinking water. Defined specifically in the Safe Drinking Water Act.

**N-Reactor:** N-Reactor is a dual purpose reactor, generating electricity from its steam by-product in addition to producing plutonium. It is the only plutonium production reactor at Hanford that has operated since 1971. It is currently in standby status.

**National Pollutant Discharge Elimination System (NPDES):** Grants authority to EPA and authorized states to issue permits for discharge of wastewaters into certain surface water bodies within prescribed limits for constituents, concentrations and volumes.

**Percolation:** Gravity flow of water through pore spaces in rock or soil.

**pH:** A measure of acidity and alkalinity.

**Plume:** A defined area of groundwater contamination.

**Plutonium:** A radioactive element used as the primary fuel in nuclear weapons. Plutonium is purified during various production operations at Hanford.

**Point of Compliance:** A RCRA term, the point at which the groundwater protection standard applies and where monitoring must be conducted. The point of compliance is a vertical surface located at the hydraulically downgradient limit of the waste management area that extends down into the uppermost aquifer underlying the regulated units.

**Ponds:** Surface impoundments used to contain low-level liquid radioactive wastes, mixed wastes, or hazardous wastes.

**Receptor:** Any living entity potentially affected by release of substances to the environment from Hanford operations.

**Recharge:** The net process of groundwater replenishment by infiltration of surface water through the soil column. Sources of recharge include precipitation and surface runoff from natural and man-made water courses and impoundments.

**Reduction/Oxidation (REDOX):** A facility and/or processes for separating plutonium from irradiated reactor fuels by using successive steps of chemical reduction/oxidation together with solvent extraction.

**APPENDIX A**

**Definition of Other Technical Terms (sheet 5 of 6)**

**Reverse Well:** Liquid waste disposal structure consisting of a well (sometimes drilled into the water table) into which waste solutions were pumped.

**Salt Cake:** Crystallized nitrate and other salts deposited in waste tanks, usually after active measures are taken to remove moisture.

**Sanitary Landfill:** A burial operation for disposing of nonradioactive, nonhazardous waste or garbage.

**Saturated Zone:** The subsurface zone in which all interconnected voids or pores are filled with water.

**Seepage Pond:** An artificial body of surface water formed by discharge from Hanford process operations.

**Solid Waste (radioactive):** Either solid radioactive material or solid objects that contain radioactive material or bear radioactive surface contamination.

**Stabilization:** Treatment of waste or a waste site to protect the environment from contamination.

**State Waste Discharge Permit:** A permit issued pursuant to Chapter 173-216 WAC.

**Strontium 90:** A highly radioactive isotope common in most radioactive waste streams at Hanford.

**Sulfuric Acid:** A highly corrosive inorganic acid used in various production processes at Hanford.

**Surplus Facility:** Any facility or site (including equipment) that has no identified programmatic use and may or may not be radioactively contaminated to levels that require controlled access.

**Synthetic Organic:** Man-made chemical compounds that contain carbon and may be highly persistent in the environment.

**Tank Farm:** An installation of multiple adjacent tanks, usually interconnected, for storage of liquid waste, or substances used in Hanford operations. Major tank farms at Hanford at underground.

**Transuranic (TRU) Waste:** Waste contaminated with long-lived transuranic elements in concentrations within a specified range established by DOE, EPA, and the Nuclear Regulatory Commission (NRC). These are elements shown above uranium on the chemistry periodic table, such as plutonium, americium, and neptunium.

**APPENDIX A**

**Definition of Other Technical Terms (sheet 6 of 6)**

**Trend Analysis:** A statistical methodology used to detect net changes or trends in contaminant levels over time.

**Tritium:** A radioactive isotope of hydrogen used in nuclear weapons to increase the efficiency of the nuclear reaction.

**Tunnel:** A large underground storage structure for large pieces of equipment, often on railroad cars; PUREX storage tunnels.

**Unconfined Aquifer:** An aquifer overlain with permeable material and sensitive to contamination; also, an aquifer that has a water table or surface at atmospheric pressure.

**Vault:** A RCRA approved, subsurface structure designed for permanent disposal of low-level mixed wastes in grout.

**Washington Guidance Level (WGL):** An interim health level for a contaminant which does not have an established criterion but which may create a public health hazard. A WGL is based on less stringent development processes than a criterion and is meant to act as an enforcement guide until a criterion is established. WGL will be based on the most current available data which may include, but not be limited to: (a) USEPA Maximum Contaminant Level Goals, (b) USEPA Priority Pollutant Values, (c) USEPA Ambient Water Quality Criteria, (d) USEPA Health Advisories, (e) Other States criteria or Guidance Levels, and (f) Department of Social and Health Services Health Risk Assessments.

**Water Table:** The upper boundary of an unconfined aquifer surface below which soil saturated with groundwater occurs; defined by the levels at which water stands in wells that barely penetrate the aquifer.

**200 Areas Plateau:** The highest portion (aside from Rattlesnake and Gable Mountains) on the Hanford Site, containing most of the waste processing and storage facilities.

## APPENDIX B

## Listing of Treatment, Storage, and Disposal Groups/Units. (sheet 1 of 17)

| Treatment, Storage, and Disposal |  |                               | Planned Action |                  |
|----------------------------------|--|-------------------------------|----------------|------------------|
| Group Number                     | Group/Units                                    | Operable Unit (if applicable) | Closure*       | Operating Permit |
| D-1-1                            | 100-D Ponds (120-D-1)                          | 100-DR-1                      | X              |                  |
| T-1-1                            | 105-DR (122-DR-1) Sodium Fire Facility         |                               | X              |                  |
| D-1-2                            | 1301-N/1325-N Liquid Waste Disposal Facilities | 100-NR-1                      | X              |                  |
|                                  | 116-N-1 Crib                                   |                               |                |                  |
|                                  | 116-N-3 Crib                                   |                               |                |                  |
| T-1-2                            | 1324-N/1324-NA Liquid Waste Facilities         | 100-NR-1                      | X              |                  |
|                                  | 120-N-1 Pond                                   |                               |                |                  |
|                                  | 120-N-2 Neutralization Unit                    |                               |                |                  |
| T-1-3**                          | 1706-KE Treatment Facility (116-KE6 A-D):      |                               | X              |                  |
|                                  | 1706-KE Waste Accumulation Tank                |                               |                |                  |
|                                  | 1706-KE Ion Exchange Column                    |                               |                |                  |
|                                  | 1706-KE Solidification Unit (Evaporator)       |                               |                |                  |
|                                  | 1706-KE Condensate Tank                        |                               |                |                  |

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|          |   |           |   |           |
|----------|---|-----------|---|-----------|
| T-1-4    | 183-H Solar Evaporation Basins (116-H-6)                | 100-HR-1  | X |           |
| S-2-8    | 200 East Area Liquid Effluent Retention Facility (LERF) |           |   | Storage   |
| T-2-1    | 200-E8 Borrow Pit Demolition Site                       |           | X |           |
| T-2-2    | 200-W Ashpit Demolition Site                            |           | X |           |
| T-2-3*** | 204-AR Waste Unloading Station                          |           |   | Treatment |
| S-2-7    | 207-A South Retention Basin                             | 200-PO-5  | X |           |
| D-2-1    | 2101-M Pond   |           | X |           |
| D-2-2    | 216-A-10 Crib   | 200-PO-2  | X |           |
| D-2-3    | 216-A-29 Ditch  | 200-BP-11 | X |           |
| D-2-4    | 216-A-36B Crib  | 200-PO-2  | X |           |
| D-2-10   | 216-A-37-1 Crib   | 200-PO-4  | X |           |
| D-2-5    | 216-B-3 Pond System:                                    | 200-BP-11 | X |           |
|          | 216-B-3 Pond  |           |   |           |
|          | 216-B-3A Pond   |           |   |           |
|          | 216-B-3B Pond   |           |   |           |
|          | 216-B-3C Pond   |           |   |           |
|          | 216-B-3-3 Ditch   |           |   |           |
| S-2-3    | Double-Shell Tanks                                      |           |   | Storage   |
|          | 241-AN Farm (7 tanks)                                   |           |   |           |
|          | 241-AP Farm (8 tanks)                                   |           |   |           |
|          | 241-AW Farm (6 tanks)                                   |           |   |           |
|          | 241-AY Farm (2 tanks/2 diversion boxes)                 |           |   |           |
|          | 241-AZ Farm (2 tanks)                                   |           |   |           |
|          | 241-SY Farm (3 tanks)                                   |           |   |           |
|          | 241-EW-151 Vent Station Catch Tank                      |           |   |           |
|          | 244-AR Vault  |           |   |           |
|          | 244-CR Vault  |           |   |           |
|          | 244-TX Receiver Tank                                    |           |   |           |

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|       |                         |           |   |
|-------|-------------------------|-----------|---|
|       | 244-BX Receiver Tank    |           |   |
|       | 244-U Receiver Tank     |           |   |
|       | 244-S Receiver Tank     |           |   |
|       | 244-A Receiver Tank     |           |   |
| S-2-9 | 241-CX-70 Tank          | 200-SO-1  | X |
| D-2-6 | 216-B-63 Trench         | 200-BP-11 | X |
| D-2-7 | 216-S-10 Pond and Ditch | 200-RO-1  | X |
|       | 216-S-10D Ditch         |           |   |
|       | 216-S-10P Pond          |           |   |

|         |   |          |   |                        |
|---------|---|----------|---|------------------------|
| D-2-8   | 216-U-12 Crib   | 200-UP-2 | X |                        |
| D-2-9   | Low-Level Burial Grounds                                |          |   |                        |
|         | 218-E-10  |          |   | Landfill               |
|         | 218-E-12B   |          |   | Landfill               |
|         | 218-W-3A  |          |   | Landfill               |
|         | 218-W-3AE   |          |   | Landfill               |
|         | 218-W-4B  |          |   | Landfill               |
|         | 218-W-4C  |          |   | Landfill               |
|         | 218-W-5   |          |   | Landfill               |
|         | 218-W-6   |          |   | Landfill               |
| S-2-1   | Purex Tunnels 1 and 2                                   |          |   | Storage                |
|         | 218-E-14  |          |   |                        |
|         | 218-E-15  |          |   |                        |
| T-2-4** | 221-T Containment System Test Facility                  |          | X |                        |
| TS-2-1  | 222-S Laboratories Treatment Tanks and Storage Building |          |   |                        |
|         | 222-S Storage Pad                                       |          |   |                        |
|         | *** 219-S Hot Waste Facility Tank 102                   |          |   | Storage                |
|         | *** 219-S Hot Waste Facility Tank 103                   |          |   | Treatment<br>Treatment |

|       |   |   |          |
|-------|---|---|----------|
| S-2-2 | 224-T Transuranic Storage and Assay Facility (TRUSAF) |   |          |
| S-2-4 | Single-Shell Tanks                                    | X | Storage  |
|       | 241-A Farm (6 tanks/2 diversion boxes)                |   | 200-PO-3 |
|       | 241-AX Farm (4 tanks/1 diversion box)                 |   | 200-PO-3 |
|       | 241-B Farm (16 tanks/5 diversion boxes)               |   | 200-BP-7 |
|       | 241-BX Farm (12 tanks/6 diversion boxes)              |   | 200-BP-7 |
|       | 241-BY Farm (12 tanks/3 diversion boxes)              |   | 200-BP-7 |
|       | 241-C Farm (16 tanks/6 diversion boxes)               |   | 200-PO-3 |
|       | 241-S Farm (12 tanks/2 diversion boxes)               |   | 200-RO-4 |
|       | 241-SX Farm (15 tanks/2 diversion boxes)              |   | 200-RO-4 |
|       | 241-T Farm (16 tanks/6 diversion boxes)               |   | 200-TP-6 |
|       | 241-TX Farm (18 tanks/4 diversion boxes)              |   | 200-TP-5 |
|       | 241-TY Farm (6 tanks/1 diversion boxes)               |   | 200-TP-5 |
|       | 241-U Farm (16 tanks/8 diversion boxes)               |   | 200-UP-3 |

## APPENDIX B

## Listing of Treatment, Storage, and Disposal Groups/Units. (sheet 6 of 17)

| <u>Operable Unit</u>                 | <u>Title of Units</u>          | <u>Unit Type</u>  |
|--------------------------------------|--------------------------------|-------------------|
| S-2-4 Single Shell Tanks (continued) |                                |                   |
| 200-BP-7                             | 241-B Tank Farm<br>(16 Units)  | Single-Shell Tank |
|                                      | 241-B-151                      | Diversion Box     |
|                                      | 241-B-152                      | Diversion Box     |
|                                      | 241-B-153                      | Diversion Box     |
|                                      | 241-B-252                      | Diversion Box     |
|                                      | 241-B-301B                     | Catch Tank        |
|                                      | 241-BR-152                     | Diversion Box     |
|                                      | 241-BX Tank Farm<br>(12 Units) | Single-Shell Tank |
|                                      | 241-BX-153                     | Diversion Box     |
|                                      | 241-BX-302A                    | Catch Tank        |
|                                      | 241-BXR-151                    | Diversion Box     |
|                                      | 241-BXR-152                    | Diversion Box     |
|                                      | 241-BXR-153                    | Diversion Box     |
|                                      | 241-BY Tank Farm<br>(12 Units) | Single-Shell Tank |
|                                      | 241-BYR-152                    | Diversion Box     |
|                                      | 241-BYR-153                    | Diversion Box     |
|                                      | 241-BYR-154                    | Diversion Box     |
|                                      | 242-B-151                      | Diversion Box     |
|                                      | 244-BXR                        | Receiving Vault   |
|                                      | 2607-EB                        | Septic Tank       |
|                                      | UN-200-E-43                    | Unplanned Release |
|                                      | UN-200-E-76                    | Unplanned Release |

**APPENDIX B**

Listing of Treatment, Storage, and Disposal Groups/Units. (sheet 6 of 17)

| <u>Operable Unit</u> | <u>Title of Units</u>    | <u>Unit Type</u>  |
|----------------------|--------------------------|-------------------|
|                      | UN-200-E-79 UN-200-E-101 | Unplanned Release |
|                      | UN-200-E-105             | Unplanned Release |
|                      | UN-200-E-109             | Unplanned Release |
|                      |                          | Unplanned Release |

S-2-4 Single Shell Tanks (continued)

|          |                               |                   |
|----------|-------------------------------|-------------------|
| 200-PO-3 | 216-A-39                      | Crib              |
|          | 216-C-8                       | French Drain      |
|          | 241-A Tank Farm<br>(6 Units)  | Single-Shell Tank |
|          | 241-A-152                     | Diversion Box     |
|          | 241-A-153                     | Diversion Box     |
|          | 241-A-350                     | Catch Tank        |
|          | 241-A-417                     | Catch Tank        |
|          | 241-A-A                       | Diversion Box     |
|          | 241-A-B                       | Diversion Box     |
|          | 241-AR-151                    | Diversion Box     |
|          | 241-AX Tank Farm<br>(4 Units) | Single-Shell Tank |
|          | 241-AX-151                    | Diversion Box     |
|          | 241-AX-152-CT                 | Catch Tank        |
|          | 241-AX-152-DS                 | Diversion Box     |
|          | 241-AX-155                    | Diversion Box     |
|          | 241-AX-501                    | Valve Pit         |
|          | 241-AX-A                      | Diversion Box     |
|          | 241-AX-B                      | Diversion Box     |

S-2-4 Single Shell Tanks (continued)

| 200-PO-3<br>(Continued) | 241-C Tank Farm<br>(16 Units) | Single-Shell Tank |
|-------------------------|-------------------------------|-------------------|
|                         | 241-C-151                     | Diversion Box     |
|                         | 241-C-152                     | Diversion Box     |
|                         | 241-C-153                     | Diversion Box     |
|                         | 241-C-252                     | Diversion Box     |
|                         | 241-C-301C                    | Catch Tank        |
|                         | 241-CR-151                    | Diversion Box     |
|                         | 241-CR-152                    | Diversion Box     |
|                         | 241-CR-153                    | Diversion Box     |
|                         | 241-ER-153                    | Diversion Box     |
|                         | 2607-ED                       | Septic Tank       |
|                         | 2607-EG                       | Septic Tank       |
|                         | 2607-EJ                       | Septic Tank       |
|                         | UN-200-E-16                   | Unplanned Release |
|                         | UN-200-E-18                   | Unplanned Release |
|                         | UN-200-E-27                   | Unplanned Release |
|                         | UN-200-E-47                   | Unplanned Release |
|                         | UN-200-E-48                   | Unplanned Release |
|                         | UN-200-E-68                   | Unplanned Release |
|                         | UN-200-E-72                   | Unplanned Release |
|                         | UN-200-E-81                   | Unplanned Release |
|                         | UN-200-E-82                   | Unplanned Release |
|                         | UN-200-E-86                   | Unplanned Release |
|                         | UN-200-E-91                   | Unplanned Release |
|                         | UN-200-E-94                   | Unplanned Release |
|                         | UN-200-E-99                   | Unplanned Release |
|                         | UN-200-E-100                  | Unplanned Release |
|                         | UN-200-E-107                  | Unplanned Release |
|                         | UN-200-E-118                  | Unplanned Release |

S-2-4 Single Shell Tanks (continued)

|          |                                |                   |
|----------|--------------------------------|-------------------|
| 200-RO-4 | 241-S Tank Farm<br>(12 Units)  | Single-Shell Tank |
|          | 241-S-152                      | Diversion Box     |
|          | 241-S-302B                     | Catch Tank        |
|          | 241-S-A                        | Valve Pit         |
|          | 241-S-B                        | Valve Pit         |
|          | 241-S-C                        | Valve Pit         |
|          | 241-S-D                        | Valve Pit         |
|          | 241-SX Tank Farm<br>(15 Units) | Single-Shell Tank |
|          | 241-SX-151                     | Diversion Box     |
|          | 241-SX-152                     | Diversion Box     |
|          | UN-200-W-10                    | Unplanned Release |
|          | UN-200-W-80                    | Unplanned Release |
|          | UN-200-W-81                    | Unplanned Release |
| 200-TP-5 | 241-TX Tank Farm<br>(18 Units) | Single-Shell Tank |
|          | 241-TX-153                     | Diversion Box     |
|          | 241-TX-302A                    | Catch Tank        |
|          | 241-TX-302-XB                  | Catch Tank        |
|          | 241-TXR                        | Vault             |
|          | 241-TXR-152                    | Diversion Box     |
|          | 241-TXR-153                    | Diversion Box     |
|          | 241-TY Tank Farm<br>(6 Units)  | Single-Shell Tank |
|          | 241-TY-153                     | Diversion Box     |
|          | 241-TY-302A                    | Catch Tank        |
|          | 241-TY-302B                    | Catch Tank        |
|          | 242-T-151                      | Diversion Box     |
|          | 244-TXR                        | Vault             |
|          | 2607-WT                        | Septic Tank       |
|          | 2607-WTX                       | Septic Tank       |

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UN-200-W-100

Unplanned Release  
Unplanned Release  
Unplanned Release

S-2-4 Single Shell Tanks (continued)

|          |                               |                   |
|----------|-------------------------------|-------------------|
| 200-TP-6 | 241-T Tank Farm<br>(16 Units) | Single-Shell Tank |
|          | 241-T-151                     | Diversion Box     |
|          | 241-T-152                     | Diversion Box     |
|          | 241-T-153                     | Diversion Box     |
|          | 241-T-252                     | Diversion Box     |
|          | 241-T-301                     | Catch Tank        |
|          | 241-T-302                     | Catch Tank        |
|          | 241-TR-152                    | Diversion Box     |
|          | 241-TR-153                    | Diversion Box     |
|          | UN-200-W-62                   | Unplanned Release |
|          | UN-200-W-64                   | Unplanned Release |
|          | UN-200-W-97                   | Unplanned Release |
| 200-UP-3 | 241-U Tank Farm<br>(16 Units) | Single-Shell Tank |
|          | 241-U-151                     | Diversion Box     |
|          | 241-U-152                     | Diversion Box     |
|          | 241-U-153                     | Diversion Box     |
|          | 241-U-252                     | Diversion Box     |
|          | 241-U-301                     | Catch Tank        |
|          | 241-U-A                       | Diversion Box     |
|          | 241-U-B                       | Diversion Box     |
|          | 241-U-C                       | Diversion Box     |
|          | 241-U-D                       | Diversion Box     |
|          | 241-UR-151                    | Diversion Box     |
|          | 241-UR-152                    | Diversion Box     |
|          | 241-UR-153                    | Diversion Box     |
|          | 241-UR-154                    | Diversion Box     |
|          | 244-UR                        | Receiving Vault   |
|          | 2607-WUT                      | Septic Tank       |
|          | UN-200-W-6                    | Unplanned Release |

UN-200-W-71

Unplanned Release

**APPENDIX B**

Listing of Treatment, Storage, and Disposal Groups/Units. (sheet 14 of 17)

| <u>Treatment, Storage, and Disposal</u> |  | <u>Planned Action</u>                |                 |                         |
|---|--|--------------------------------------|-----------------|-------------------------|
| <u>Group Number</u>                     | <u>Group/Units</u>                                     | <u>Operable Unit (if applicable)</u> | <u>Closure*</u> | <u>Operating Permit</u> |
| T-2-5***                                | 241-Z Treatment Tank (D-5)                             |                                      |                 | Treatment               |
| T-2-6                                   | 242-A Evaporator                                       |                                      |                 | Treatment               |
| S-2-5                                   | 2727-S Nonradioactive Dangerous Waste Storage Facility |                                      | X               |                         |

|        |  |   |
|--------|--|---|
| TS-2-2 | Hexone Storage and Treatment                       | X |
|        | 276-S-141 Tank                                     |   |
|        | 276-S-142 Tank                                     |   |
|        | Railcar Storage Tanks (Future)                     |   |
|        | Distillation System (Future)                       |   |
|        | Incinerator (Future)                               |   |
| T-3-1  | 300 Area Solvent Evaporator                        | X |
| TS-3-1 | 300 Area Waste Acid System                         | X |
|        | 313 Building Waste Acid Neutralization Tank        |   |
|        | 313 Building Centrifuge                            |   |
|        | 313 Filter Press                                   |   |
|        | 333 Building Chromium Treatment Tanks<br>(2 tanks) |   |
|        | ***311 Neutralized Waste Tanks (2 tanks)           |   |
|        | 334-A Waste Acid Storage Tank (2 tanks)            |   |

|         |   |          |   |           |
|---------|---|----------|---|-----------|
| S-3-1   | 303-K Contaminated Waste Storage Facility |          | X |           |
| T-3-2   | 303-M Uranium Oxide Facility              | 300-FF-2 | X |           |
| TS-3-2  | 304 Concretion Facility and Storage Area  |          | X |           |
|         | 304 Concretion Facility                   |          |   |           |
|         | 304 Storage Area                          |          |   |           |
| S-3-2   | 305-B Storage Facility                    |          |   | Storage   |
| D-3-1   | 300 Area Process Trenches (316-5)         | 300-FF-1 | X |           |
| T-3-3** | 324 Sodium Removal Pilot Plant            |          |   | Treatment |
| T-3-4   | 325 Waste Treatment Facility              |          |   | Treatment |

|        |   |          |   |           |
|--------|---|----------|---|-----------|
| TS-3-3 | 3718-F Alkali Metal Treatment and Storage Facility  |          | X |           |
|        | 3718-F Burn Shed                                    |          |   |           |
|        | 3718-F Treatment Tank #1                            |          |   |           |
|        | 3718-F Treatment Tank #2                            |          |   |           |
|        | 3718-F Alkali Metal Treatment Facility              |          |   |           |
|        | Storage   |          |   |           |
| T-4-1  | 400 Area Maintenance and Storage Facility (MASF)    |          |   | Treatment |
| S-4-1  | 4843 FFTF Sodium Storage Facility                   |          | X |           |
| D-6-1  | 600 Area Nonradioactive Dangerous Waste Landfill    | 200-IU-3 | X |           |
| S-6-1  | 616 Nonradioactive Dangerous Waste Storage Facility |          |   | Storage   |
| TS-2-3 | B Plant   |          |   |           |
|        | B Plant Waste Concentrator                          |          |   | Treatment |
|        | B Plant Settle and Decant Tank                      |          |   | Treatment |
|        | B Plant Filter                                      |          |   | Treatment |
|        | B Plant Radioactive Organic Waste Solvent Tank #1   |          |   | Storage   |
|        | B Plant Radioactive Organic Waste Solvent Tank #2   |          |   | Storage   |
|        | B Plant Radioactive Organic Waste Solvent Tank #3   |          |   | Storage   |
|        | B Plant Radioactive Organic Waste Solvent Tank #4   |          |   | Storage   |
|        | B Plant Radioactive Organic Waste Solvent Tank #5   |          |   | Storage   |
|        | B Plant Radioactive Organic Waste                   |          |   | Storage   |

|        |  |                    |
|--------|--|--------------------|
|        | Solvent Tank #6  |                    |
|        | B Plant Radioactive Organic Waste                          | Storage            |
|        | Solvent Tank #7  |                    |
|        | B Plant Storage Area                                       | Storage            |
|        | B Plant Waste Pile   | Storage            |
| T-X-1  | Biological Treatment Test Facilities                       | Treatment          |
| TD-2-1 | Grout  |                    |
|        | Grout Treatment Facility                                   | Treatment          |
|        | Grout Treatment Facility Landfill                          | Treatment/Landfill |
| TS-2-4 | Hanford Central Waste Complex                              |                    |
|        | Waste Receiving and Processing (WRAP)<br>Facility (Future) | Treatment          |
|        | Radioactive Mixed Waste Storage Facility                   | Storage            |

|        |   |        |                   |
|--------|---|--------|-------------------|
| TS-2-5 | Hanford Waste Vitrification Plant (HWVP) (Future)       |        | Treatment/Storage |
| T-X-2  | Physical and Chemical Treatment Test Facilities         | X      |                   |
| TS-2-6 | Purex   |        |                   |
|        | *** Neutralization Tank E-5                             |        | Treatment         |
|        | *** E-F11 Concentrator                                  |        | Treatment         |
|        | *** Neutralization Tank G-7                             |        | Treatment         |
|        | Ammonia Distillate Treatment System (Future Tank)       |        | Treatment         |
|        | *** Neutralization Tank F-18                            |        | Treatment         |
|        | *** Neutralization Tank F-15                            |        | Treatment         |
|        | *** Neutralization Tank F-16                            |        | Treatment         |
|        | *** Neutralization Tank U3                              |        | Treatment         |
|        | *** Neutralization Tank U4                              |        | Treatment         |
|        | Purex Waste Piles                                       |        | Storage           |
| TS-3-4 | Simulated High-Level Waste Slurry Treatment and Storage | X (or) | Treatment/Storage |

|          |  |  |   |           |
|----------|--|--|---|-----------|
| T-2-7*** | T Plant Treatment Tank                           |  |   | Treatment |
| T-X-3    | Thermal Treatment Test Facilities                |  | X |           |
| T-11-1   | 1100 Area Hanford Patrol Academy Demolition Area |  | X |           |

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\*Post-Closure Permit required if closed as a land disposal unit in accordance with Subsection 6.3.2.

\*\*Part A permit application may be withdrawn because unit(s) never handled or never will handle hazardous waste.

\*\*\*Part A permit application may be withdrawn due to reclassification of unit(s) as treatment by generator.

**Appendix C**

Listing by Operable Unit. (Sheet 1 of 85)

| <b>OPERABLE UNIT</b>   | <b>LEAD REGULATORY AGENCY</b>   |                              |                              |
|------------------------|---|------------------------------|------------------------------|
| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>   | <b>Unit Type</b>             | <b>Status</b>                |
| <b>1100-EM-1</b>       | <b>EPA</b>  | <b>CPP</b>                   |                              |
| 1100-1                 | 1100-1, Battery Acid Pit, 1171 Building Sandpit Spills, UPR-1100-1  | Depression/Pit (nonspecific) | Deleted from NPL (9/30/1996) |
| 1100-2                 | 1100-2, Paint and Solvent Pit, UPR-1100-2   | Depression/Pit (nonspecific) | Deleted from NPL (9/30/1996) |
| 1100-3                 | 1100-3, Antifreeze and Degreaser Pit, Antifreeze Pit, UPR-1100-3  | Depression/Pit (nonspecific) | Deleted from NPL (9/30/1996) |
| 1100-4                 | 1100-4, Antifreeze Tank Site, UN-1100-4, 1171 Building Spills, UPR-1100-4                                       | Storage Tank                 | Deleted from NPL (9/30/1996) |
| 1100-11                | 1100-11, Ephemeral Pool   | Pond                         | Deleted from NPL (9/30/1996) |
| HRD                    | HRD, Horn Rapids Disposal, ITT Waste Disposal Landfill, Horn Rapid Landfill (HRL), Gravel Pit #4, Gravel Pit #5 | Sanitary Landfill            | Deleted from NPL (9/30/1996) |
| UPR-1100-5             | UPR-1100-5, UN-1100-5, 1171 Parking Lot   | Unplanned Release            | Deleted from NPL (9/30/1996) |
| UPR-1100-6             | UPR-1100-6, Discolored Soil Site, UN-1100-6   | Depression/Pit (nonspecific) | Deleted from NPL (9/30/1996) |
| <b>1100-EM-2</b>       | <b>EPA</b>  | <b>CPP</b>                   |                              |
| 700 WST                | 700 WST, 700 Area Waste Solvent Tank, 700 Area Underground Waste Solvent Tank, 703-1                            | Storage Tank                 | Deleted From NPL (9/30/1996) |
| 1100 BSUHR             | 1100 BSUHR, 1100 Area Bus Shop Underground Hoist Rams   | Storage Tank                 | Deleted from NPL (9/30/1996) |
| 1100 HWSA              | 1100 HWSA, 1100 Area HWSA, 1100 Area Hazardous Waste Storage Area   | Storage Pad (<90 day)        | Deleted from NPL (9/30/1996) |
| 1100 UOT4              | 1100 UOT4, 1100 Area Used Oil Tank 4, 1100 Area Underground Used Oil Tank (tank #4), 1171-4                     | Storage Tank                 | Deleted from NPL (9/30/1996) |

C-1

**Appendix C**

Listing by Operable Unit. (Sheet 2 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b>       | <b>Waste Unit Aliases</b>  | <b>Unit Type</b>      | <b>Status</b>                |
|------------------------------|--|-----------------------|------------------------------|
| <b>1100-EM-2</b> (continued) |  |                       |                              |
| 1100 UOT5                    | 1100 UOT5, 1100 Area Used Oil Tank 5, 1100 Area Underground Used Oil Tank (Tank #5), 1171-5  | Storage Tank          | Deleted from NPL (9/30/1996) |
| 1100 UOT6                    | 1100 UOT6, 1100 Area Used Oil Tank 6, 1100 Area Underground Used Oil Tank (Tank #6), 1171-6  | Storage Tank          | Deleted from NPL (9/30/1996) |
| 1100 USPT2                   | 1100 USPT2, 1100 Area Underground Steam Pad Tank 2, 1171-2   | Storage Tank          | Deleted from NPL (9/30/1996) |
| 1100 USPT3                   | 1100 USPT3, 1100 Area Underground Steam Pad Tank 3, 1171-3   | Storage Tank          | Deleted from NPL (9/30/1996) |
| 1100-8                       | 1100-8, 1171 Hoist Oil Leak  | Unplanned Release     | Deleted from NPL (9/30/1996) |
| <b>1100-EM-3</b>             | <b>EPA</b>   | <b>CPP</b>            |                              |
| 3000 JYHWSA                  | 3000 JYHWSA, 3000 Area Jones Yard HWSA, 3000 Area Jones Yard Hazardous Waste Storage Area, Hazardous Waste Storage Area (Jones Yard) | Storage Pad (<90 day) | Deleted from NPL (9/30/1996) |
| 3000 UUOT                    | 3000 UUOT, 3000 Area Underground Used Oil Tank, 3000-12  | Storage Tank          | Deleted from NPL (9/30/1996) |
| 3000/1208 HWSA               | 3000/1208 HWSA, 3000 Area 1208 HWSA, 3000 Area 1208 Building Hazardous Waste Storage Area, Hazardous Waste Storage Area (1208)       | Storage Pad (<90 day) | Deleted from NPL (9/30/1996) |
| 3000/1226 HWSA               | 3000/1226 HWSA, 3000 Area 1226 HWSA, 3000 Area 1226 Building Hazardous Waste Storage Area, Hazardous Waste Storage Area (1226)       | Storage Pad (<90 day) | Deleted from NPL (9/30/1996) |
| 3000/1234                    | 3000/1234, 1234 Laydown Yard, 3000 Area 1234 Storage Yard, 1234 Building Storage Yard  | Storage               | Deleted from NPL (9/30/1996) |

**Appendix C**

Listing by Operable Unit. (Sheet 3 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| Waste Unit Name              | Waste Unit Aliases   | Unit Type                 | Status  |
|------------------------------|--|---------------------------|---|
| <b>1100-EM-3 (continued)</b> |  |                           |   |
| 3000/1240 HWSA               | 3000/1240 HWSA, 3000 Area 1240 HWSA, 3000 Area 1240 Building Hazardous Waste Storage Area, Hazardous Waste Storage Area (1240) | Storage Pad (<90 day)     | Deleted from NPL (9/30/1996)  |
| UPR-3000-1                   | UPR-3000-1, UN-3000-1  | Unplanned Release         | Deleted from NPL (9/30/1996)  |
| <b>1100-IU-1</b>             |  |                           |   |
| 600-28                       | 600-28, Rattlesnake Construction Dump  | CPP<br>Dumping Area       | Deleted from NPL (9/30/1996)  |
| 600-112*                     | 600-112, 6652-C SSLAST, 6652-C SSL Active Septic Tank, 6652-C Space Science Laboratory Active Septic Tank                      | Septic Tank               | Deleted from NPL (9/30/1996)  |
| 600-113                      | 600-113, 6652-C SSLIST, 6652-C SSL Inactive Septic Tank, 6652-C Space Science Laboratory Inactive Septic Tank                  | Septic Tank               | Deleted from NPL (9/30/1996)  |
| 600-114                      | 600-114, 6652-G ALEFSBST, 6652-G ALE Field Storage Building Septic Tank, 6607-14B  | Septic Tank               | Deleted from NPL (9/30/1996)  |
| 600-115                      | 600-115, 6652-I ALEHST, 6652-I ALE Headquarters Septic Tank, 6652-I Arid Lands Ecology (ALE) Headquarters Septic Tank, 6607-14 | Septic Tank               | Deleted from NPL (9/30/1996)  |
| 600-116                      | 600-116, RMNMB, Rattlesnake Mountain Nike Missile Base   | Military Compound         | Deleted from NPL (9/30/1996)  |
| <b>100-BC-1</b>              |  |                           |   |
| 100-B-3                      | 100-B-3, Hot Thimble Burial Ground, Undocumented Solid Waste Site  | CPP<br>Burial Ground      | Interim Record of Decision, 100 Area Remaining Sites (1999)†                    |
| 100-B-5                      | 100-B-5, Effluent Vent Disposal Trench, 116-B-9, 105-B Effluent Vent Trench  | Trench                    | Interim Record of Decision, 100 Area Remaining Sites (1999)†                    |
| 100-B-8                      | 100-B-8, 100-B Reactor Cooling Water Effluent Underground Pipelines  | Radioactive Process Sewer | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) |
| 100-B-10                     | 100-B-10, 107-B Basin Leak and Warm Springs  | Unplanned Release         | Interim Record of Decision, 100 Area Remaining Sites (1999)†                    |

**Appendix C**

Listing by Operable Unit. (Sheet 4 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| Waste Unit Name | Waste Unit Aliases   | Unit Type       | Status  |
|-----------------|--|-----------------|---|
| <b>100-BC-1</b> | (continued)  |                 |   |
| 116-B-1         | 116-B-1, 107-B Liquid Waste Disposal Trench, Process Effluent Trench                                   | Trench          | Closed Out (12/8/1999)  |
| 116-B-2         | 116-B-2, 105-B Storage Basin Trench, B-Storage Basin Crib  | Trench          | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) |
| 116-B-3         | 116-B-3, 105-B Pluto Crib  | Crib            | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) |
| 116-B-4         | 116-B-4, 105-B Dummy Decontamination French Drain, 105-B Dummy Decontamination Disposal Crib           | French Drain    | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) |
| 116-B-5         | 116-B-5, 116-B-5 Crib, 116-B-5 Trench, 108-B Crib  | Crib            | Closed Out (1/8/1997)   |
| 116-B-6A        | 116-B-6A, 111-B Crib No. 1, 116-B-6-1  | Crib            | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) |
| 116-B-6B        | 116-B-6B, 111-B Crib No. 2, 116-B-6-2  | Crib            | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) |
| 116-B-7         | 116-B-7, 1904-B-1 Outfall Structure, 1904-B1   | Outfall         | Interim Record of Decision, 100 Area Remaining Sites (1999)†                    |
| 116-B-9         | 116-B-9, 104-B-2 French Drain  | French Drain    | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) |
| 116-B-10        | 116-B-10, 108-B Dry Well, Quench Tank  | Sump            | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) |
| 116-B-11        | 116-B-11, 107-B Retention Basin, 116-B-11 Retention Basin  | Retention Basin | Closed Out (12/8/1999)  |
| 116-B-12        | 116-B-12, 117-B Crib, 117-B Seal Pit Crib  | Crib            | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) |
| 116-B-13        | 116-B-13, 107-B South Sludge Trench, 116-B-8, 107-B #2 Grave, Basin Sludge Burial Pit                  | Trench          | Closed Out (7/22/1999)  |
| 116-B-14        | 116-B-14, 107-B North Sludge Trench, 107-B Liquid Waste Disposal Trench No. 1, 116-B-2, 107-B #1 Grave | Trench          | Closed Out (7/22/1999)  |

**Appendix C**

Listing by Operable Unit. (Sheet 5 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| Waste Unit Name | Waste Unit Aliases  | Unit Type          | Status  |
|-----------------|---|--------------------|---|
| <b>100-BC-1</b> | (continued)   |                    |   |
| 116-B-15        | 116-B-15, 105-B Fuel Storage Basin Cleanout Percolation Pit, 105-B Fuel Storage Discharge Pond, 105-B Pond  | Pond               | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 116-B-16        | 116-B-16, 111-B Fuel Examination Tank   | Storage Tank       | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995); Proximity Site to 116-B-6A |
| 118-B-5         | 118-B-5, Ball 3X Burial Ground  | Burial Ground      |   |
| 118-B-7         | 118-B-7, 111-B Solid Waste Burial Site  | Burial Ground      |   |
| 118-B-10        | 118-B-10, Ball 3X Storage Vault   | Storage Tank       |   |
| 120-B-1         | 120-B-1, 105-B Battery Acid Sump  | Sump               | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 126-B-3         | 126-B-3, 184-B Coal Pit   | Dumping Area       | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 128-B-2         | 128-B-2, 100-B Burn Pit #2  | Burn Pit           | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 128-B-3         | 128-B-3, 100-B Dump Site, 128-B-3 Coal Ash and Demolition Waste Site, 128-B-3 Burning Pit Site, 600-57      | Burn Pit           | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 132-B-1         | 132-B-1, 108-B Tritium Separation Facility  | Process Unit/Plant | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 132-B-3         | 132-B-3, 108-B Ventilation Exhaust Stack Site, 108-B Tritium Pilot Facility, Ventilation Exhaust Stack Site | Burial Ground      | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 132-B-4         | 132-B-4, 117-B Filter Building  | Process Unit/Plant | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 132-B-5         | 132-B-5, 115-B/C Gas Recirculation Facility   | Process Unit/Plant | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 132-B-6         | 132-B-6, 1904-B-2 Outfall Structure Site, 116-B-8, 1904-B2  | Outfall            | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 1607-B2*        | 1607-B2, 1607-B2 Septic Tank System, 124-B-2, 1607-B2 Sanitary Sewer System                                 | Septic Tank        | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |

**Appendix C**

Listing by Operable Unit. (Sheet 6 of 85)

| <b>OPERABLE UNIT</b>   | <b>LEAD REGULATORY AGENCY</b>   |                  |  |
|------------------------|---|------------------|--|
| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>   | <b>Unit Type</b> | <b>Status</b>  |
| <b>100-BC-1</b>        | (continued)   |                  |  |
| 1607-B7                | 1607-B7, 1607-B7 Septic Tank System, 1607-B7 Sanitary Sewer System, 124-C-1   | Septic Tank      | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 116-C-1                | 116-C-1, 107-C Liquid Waste Disposal Trench   | Trench           | Closed Out (1/21/1999)                                       |
| 116-C-5                | 116-C-5, 116-C-5 Retention Basins, 107-C Retention Basins   | Retention Basin  | Closed Out (12/8/1999)                                       |
| 132-C-2                | 132-C-2, 1904-C Outfall, 116-C-4  | Outfall          | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| <b>100-BC-2</b>        | <b>EPA</b>  | <b>CPP</b>       |  |
| 100-B-1                | 100-B-1, Surface Chemical and Solid Waste Dumping Area, Laydown Yard  | Dumping Area     | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 118-B-1                | 118-B-1, 105-B Burial Ground, 105-B Solid Waste Burial Ground, Operations, Solid Waste Burial Ground, 108-B Burial Ground, Ext. to BG No. 1 | Burial Ground    |  |
| 118-B-2                | 118-B-2, Construction Burial Ground No. 1, Minor Construction Burial, Ground No. 1  | Burial Ground    |  |
| 118-B-3                | 118-B-3, Construction Burial Ground No. 2   | Burial Ground    |  |
| 118-B-4                | 118-B-4, 105-B Spacer Burial Ground, 105-B Dummy Burial Ground  | Burial Ground    |  |
| 118-B-6                | 118-B-6, 108-B Solid Waste Burial Ground, 108-B Solid Waste Burial Ground, No. 2  | Burial Ground    |  |
| 1607-B8                | 1607-B8, 1607-B8 Septic Tank System, 124-C-2, 1607-B8 Sanitary Sewer System, Septic Tank & Disposal Field for 190-C Pumphouse               | Septic Tank      | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 1607-B9                | 1607-B9, 1607-B9 Septic Tank System, 1607-B9 Sanitary Sewer System, 124-C-3   | Septic Tank      | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 1607-B10               | 1607-B10, 1607-B10 Septic Tank System, Sewage Disposal Field  | Septic Tank      | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 1607-B11               | 1607-B11, 1607-B11 Septic Tank System   | Septic Tank      | Interim Record of Decision, 100 Area Remaining Sites (1999)† |

**Appendix C**

Listing by Operable Unit. (Sheet 7 of 85)

| <b>OPERABLE UNIT</b>   | <b>LEAD REGULATORY AGENCY</b>   |                           |   |  |
|------------------------|---|---------------------------|---|--|
| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>   | <b>Unit Type</b>          | <b>Status</b>   |  |
| <b>100-BC-2</b>        | (continued)   |                           |   |  |
| 100-C-3                | 100-C-3, 119-C Sample Building French Drain, 119-C French Drain                       | French Drain              | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |  |
| 100-C-6                | 100-C-6, 100-C Reactor Cooling Water Effluent Underground Pipelines                   | Radioactive Process Sewer | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995)                         |  |
| 100-C-7                | 100-C-7, 183-C Filter Building /Pumproom Facility Foundation and Demolition Waste     | Dumping Area              | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |  |
| 116-C-2A               | 116-C-2A, 105-C Pluto Crib, 116-C-2, 105-C Crib                                       | Crib                      | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997) |  |
| 116-C-2B               | 116-C-2B, 105-C Pluto Crib Pump Station, 116-C-2-1, 116-C-2B Pump Station             | Pump Station              | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997) |  |
| 116-C-2C               | 116-C-2C, 105-C Pluto Crib Sand Filter, 116-C-2-2, 116-C-8                            | Sand Filter               | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997) |  |
| 116-C-3                | 116-C-3, 105-C Chemical Waste Tanks   | Storage Tank              | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |  |
| 116-C-6                | 116-C-6, 105-C Fuel Storage Basin Cleanout Percolation Pit, 105-C Pond                | Pond                      | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |  |
| 118-C-1                | 118-C-1, 105-C Burial Ground, 105-C Solid Waste Burial Ground, 118-C-1, Burial Ground | Burial Ground             |   |  |
| 118-C-2                | 118-C-2, 105-C Ball Storage Tank, Ball 3X Storage Tank                                | Storage Tank              |   |  |
| 128-C-1                | 128-C-1, 100-C Burning Pit  | Burn Pit                  | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |  |
| 132-C-1                | 132-C-1, 116-C Reactor Exhaust Stack Site, 105-C Reactor Stack Site,                  | Burial Ground             | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |  |
| 132-C-3                | 132-C-3, 117-C Filter Building  | Process Unit/Plant        | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |  |
| 600-33                 | 600-33, 105-C Reactor Test Loop Burial Site   | Burial Ground             |   |  |
| <b>100-DR-1</b>        | <b>Ecology</b>  | <b>CPP</b>                |   |  |
| 100-D-1                | 100-D-1, Contaminated Drain, Contaminated Storm Drain                                 | Process Sewer             | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |  |

**Appendix C**

Listing by Operable Unit. (Sheet 8 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| Waste Unit Name | Waste Unit Aliases  | Unit Type         | Status  |
|-----------------|---|-------------------|---|
| <b>100-DR-1</b> | (continued)   |                   |   |
| 100-D-2         | 100-D-2, Solid Waste Site, Lead Sheeting  | Foundation        | Interim Record of Decision, 100 Area Remaining Sites (1999)†                    |
| 100-D-3         | 100-D-3, Solid Waste Burial Ground, Silica Gel  | Burial Ground     | Interim Record of Decision, 100 Area Remaining Sites (1999)†                    |
| 100-D-4         | 100-D-4, Sludge Trench #5, 107-DR Sludge Trench #5, 107-D-5, 107-D5                                     | Trench            | Closed Out (3/25/1999)  |
| 100-D-5         | 100-D-5, Waste Site Near 103-D, Undocumented Solid Waste Site, Undocumented Solid Waste Site Near 103-D | Burial Ground     |   |
| 100-D-6         | 100-D-6, Buried VSR Thimble, Minor Construction Burial Ground #1, Burial Ground 4D, 118-D-4D            | Burial Ground     |   |
| 100-D-7         | 100-D-7, Undocumented Solid Waste Site  | Dumping Area      | Interim Record of Decision, 100 Area Remaining Sites (1999)†                    |
| 100-D-8         | 100-D-8, 105-DR Process Sewer Outfall Site, Undocumented Liquid Waste Site, 1907-DR                     | Outfall           | Interim Record of Decision, 100 Area Remaining Sites (1999)†                    |
| 100-D-18        | 100-D-18, Sludge Trench #4, 107-D Sludge Trench #4, 107-D-4, 107-D4                                     | Trench            | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) |
| 100-D-19        | 100-D-19, Sludge Trench #6, 107-D Sludge Trench #6  | Trench            | Interim Record of Decision, 100 Area Remaining Sites (1999)†                    |
| 100-D-20        | 100-D-20, Sludge Trench #3, 107-D Sludge Trench #3, 107-D-3, 107-D3                                     | Trench            | Closed Out (3/25/1999)  |
| 100-D-21        | 100-D-21, Sludge Trench #2, 107-DR Sludge Trench #2, 107-D-2, 107-D2                                    | Trench            | Closed Out (3/25/1999)  |
| 100-D-22        | 100-D-22, Sludge Trench #1, 107-DR Sludge Trench #1, 107-D-1, 107-D1                                    | Trench            | Closed Out (3/25/1999)  |
| 100-D-24        | 100-D-24, 119D Sample Building Drywell  | French Drain      | Interim Record of Decision, 100 Area Remaining Sites (1999)†                    |
| 100-D-25        | 100-D-25, Unplanned Release: 107-DR Basin Leaks   | Unplanned Release | Closed Out (1/6/2000)   |

**Appendix C**

Listing by Operable Unit. (Sheet 9 of 85)

| <b>OPERABLE UNIT</b>   | <b>LEAD REGULATORY AGENCY</b>  |                           |   |
|------------------------|--|---------------------------|---|
| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>  | <b>Unit Type</b>          | <b>Status</b>   |
| <b>100-DR-1</b>        | (continued)  |                           |   |
| 100-D-29               | 100-D-29, Effluent Line Leak #2  | Unplanned Release         | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995); Proximity Site to 100-D-48, 100-D-49 |
| 100-D-30               | 100-D-30, 190-D Sodium Dichromate Soil Contamination, 185-D, 189-D Decontamination & Demolition Project, 185-D Sodium Dichromate Trench & Sump | Unplanned Release         | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-D-31               | 100-D-31, 100-D Water Treatment Facilities Underground Pipelines   | Process Sewer             | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-D-32               | 100-D-32, Minor Construction Burial Ground #6  | Burial Ground             |   |
| 100-D-33               | 100-D-33, Minor Construction Burial Ground #4 East Trench  | Burial Ground             |   |
| 100-D-35               | 100-D-35, Minor Construction Burial Ground #4 West Trench  | Burial Ground             |   |
| 100-D-41               | 100-D-41, Minor Construction Burial Ground #5 Trench, 118-18, 118-D-18   | Burial Ground             |   |
| 100-D-42               | 100-D-42, Buried VSR Thimble Site  | Burial Ground             |   |
| 100-D-45               | 100-D-45, Buried VSR Thimble Site, Burial Ground 4B, 118-D-4B  | Burial Ground             |   |
| 100-D-48               | 100-D-48, 100-D Reactor Cooling Water Effluent Underground Pipelines   | Radioactive Process Sewer | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995)                                       |
| 100-D-48:1             | 100-D-48:1, North Pipelines from 116-D-7 to the Outfalls   |                           |   |
| 100-D-48:2             | 100-D-48:2, West Pipelines from D Avenue to 116-D-7  |                           |   |
| 100-D-48:3             | 100-D-48:3, Effluent Pipelines from D Avenue to 105-D Reactor  |                           |   |
| 100-D-49               | 100-D-49, 100-DR Reactor Cooling Water Effluent Underground Pipelines  | Radioactive Process Sewer | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995)                                       |
| 100-D-49:1             | 100-D-49:1, North Pipelines from 116-DR-9 to the Outfalls  |                           |   |
| 100-D-49:2             | 100-D-49:2, East Pipelines from D Avenue to 116-DR-9   |                           |   |
| 100-D-49:3             | 100-D-49:3, Effluent Pipelines from D Avenue to 105-DR Reactor   |                           |   |

**Appendix C**

Listing by Operable Unit (Sheet 10 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>  | <b>Unit Type</b>    | <b>Status</b>   |
|------------------------|--|---------------------|---|
| <b>100-DR-1</b>        | (continued)  |                     |   |
| 100-D-52               | 100-D-52, 105-D Downcomer Insulation Space Dry Well  | French Drain        | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995); Proximity Site to 100-D-48 |
| 116-D-1A               | 116-D-1A, 105-D Storage Basin Trench #1  | Trench              | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995)                             |
| 116-D-1B               | 116-D-1B, 105-D Storage Basin Trench #2  | Trench              | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995)                             |
| 116-D-2                | 116-D-2, 105-D Pluto Crib, 116-D-2A  | Crib                | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995)                             |
| 116-D-3                | 116-D-3, 108-D Crib #1   | Crib                | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997)     |
| 116-D-4                | 116-D-4, 108-D Crib #2   | Crib                | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995)                             |
| 116-D-5                | 116-D-5, 1904-D Outfall Structure  | Outfall             | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 116-D-6                | 116-D-6, 105-D Cushion Corridor French Drain   | French Drain        | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995)                             |
| 116-D-7                | 116-D-7, 107-D Retention Basin, 107-D  | Retention Basin     | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995)                             |
| 116-D-9                | 116-D-9, 117-D Crib, 117-D Seal Pit Crib   | Crib                | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995)                             |
| 116-D-10               | 116-D-10, 105-D Fuel Storage Basin Cleanout Percolation Pit, 105-D Fuel Storage Discharge Ponds, 105-D Ponds | Pond                | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 120-D-2                | 120-D-2, 186-D Waste Acid Reservoir  | Surface Impoundment | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 126-D-2                | 126-D-2, 184-D Coal Pit/Burial Ground  | Burial Ground       |   |
| 128-D-2                | 128-D-2, 128-D-2 Burn Pit  | Burn Pit            | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 130-D-1                | 130-D-1, 1716-D Gasoline Storage Tank, 1706-D Gasoline Storage Tank  | Storage Tank        | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |

**Appendix C**

Listing by Operable Unit. (Sheet 11 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>   | <b>Unit Type</b>   | <b>Status</b>   |
|------------------------|---|--------------------|---|
| <b>100-DR-1</b>        | (continued)   |                    |   |
| 132-D-1                | 132-D-1, 115-D/DR Gas Recirculating Facility  | Process Unit/Plant | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 132-D-2                | 132-D-2, 117-D Filter Building  | Process Unit/Plant | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 132-D-3                | 132-D-3, 1608-D Waste Water Pumping Station, 1608-D Effluent Pumping Station  | Pump Station       | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 1607-D2                | 1607-D2, 1607-D2 Septic Tank and Associated Drain Fields, 124-D-2, 1607-D2 Sanitary Sewer System, 1607-D2 Septic Tank | Septic Tank        | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995); Proximity Site to 100-D-48           |
| 1607-D2:1              | 1607-D2:1, Original 1607-D2 Tile Field, Eastern 1607-D2 Tile Field  |                    | Closed Out (3/25/1999)  |
| 1607-D2:2              | 1607-D2:2 Replacement 1607-D2 Tile Field, Northern Tile Field   |                    |   |
| 1607-D2:3              | 1607-D2:3, Sanitary Sewer Pipelines   |                    |   |
| 1607-D2:4              | 1607-D2:4, 1607-D2 Septic Tank  |                    | Closed Out (11/23/1999)   |
| 1607-D4                | 1607-D4, 1607-D4 Septic Tank and Associated Drain Field, 124-D-4, 1607-D4 Sanitary Sewer System, 1607-D4 Septic Tank  | Septic Tank        | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 1607-D5*               | 1607-D5, 1607-D5 Septic Tank and Associated Drain Field, 124-D-5, 1607-D5 Sanitary Sewer System, 1607-D5 Septic Tank  | Septic Tank        | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 116-DR-1&2             | 116-DR-1&2, 107-DR Liquid Waste Disposal Trench #1, 107-DR Liquid Waste Disposal Trench #2, 116-DR-1, 116-DR-2        | Trench             | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995)                                       |
| 116-DR-5               | 116-DR-5, 1904-DR Outfall Structure, 1904-DR  | Outfall            | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 116-DR-9               | 116-DR-9, 107-DR Retention Basin, 107-DR  | Retention Basin    | Closed Out (1/6/2000)   |
| 628-3                  | 628-3, 628-3 Burn Pit   | Burn Pit           | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| UPR-100-D-1            | UPR-100-D-1, Oil Soaked Soil  | Unplanned Release  | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| UPR-100-D-2            | UPR-100-D-2, Effluent Line Leak #1  | Unplanned Release  | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995); Proximity Site to 100-D-48, 100-D-49 |

**Appendix C**

Listing by Operable Unit. (Sheet 12 of 85)

| <b>OPERABLE UNIT</b>        | <b>LEAD REGULATORY AGENCY</b>   |                   |   |
|-----------------------------|---|-------------------|---|
| <b>Waste Unit Name</b>      | <b>Waste Unit Aliases</b>   | <b>Unit Type</b>  | <b>Status</b>   |
| <b>100-DR-1</b> (continued) |   |                   |   |
| UPR-100-D-3                 | UPR-100-D-3, Effluent Line Leak #3  | Unplanned Release | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995); Proximity Site to 100-D-48, 100-D-49 |
| UPR-100-D-4                 | UPR-100-D-4, Unplanned Release: 107-D Basin Leaks   | Unplanned Release | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995); Proximity Site to 100-D-48, 100-D-49 |
| UPR-100-D-5                 | UPR-100-D-5, Effluent Line Leak #4  | Unplanned Release | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995); Proximity Site to 100-D-48, 100-D-49 |
| <b>100-DR-2</b>             | <b>Ecology</b>  | <b>RPP</b>        |   |
| 100-D-12                    | 100-D-12, Sodium Dichromate / Acid Railcar and Truck Unload Station and Associated French Drain, Undocumented Liquid Waste Site | Pump Station      | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-D-13                    | 100-D-13, Unnumbered Septic System A, Septic Tank D-13, 100 DR Area Sewage Disposal Unit, 124-DR-3, 1607-DR3                    | Septic Tank       | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-D-15                    | 100-D-15, Debris North of 100-D Area Perimeter Road and Debris South of 100-D Perimeter Road - within 100-D-55 (Gravel Pit #21) | Dumping Area      | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-D-23                    | 100-D-23, 119-DR Sample Building Drywell  | French Drain      | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-D-27                    | 100-D-27, 151-D Substation UPR, A-2 Substation Transformer #A401C Leak  | Unplanned Release | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-D-28                    | 100-D-28, 190-DR Building Septic System   | Septic Tank       | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-D-40                    | 100-D-40, Minor Construction Burial Ground #5 Hole  | Burial Ground     |   |
| 100-D-43                    | 100-D-43, Buried VSR Thimble Site, Burial Ground 4C, 118-D-4C   | Burial Ground     |   |

## Appendix C

Listing by Operable Unit. (Sheet 13 of 85)

## OPERABLE UNIT LEAD REGULATORY AGENCY

| Waste Unit Name | Waste Unit Aliases   | Unit Type     | Status  |
|-----------------|--|---------------|---|
| <b>100-DR-2</b> | (continued)  |               |   |
| 100-D-46        | 100-D-46, Burial Ground 4A, 118-D-4A   | Burial Ground |   |
| 100-D-47        | 100-D-47, Construction C.G. 558-Rod Burial, Burial Ground 4E, 118-D-4E                                     | Burial Ground |   |
| 116-D-8         | 116-D-8, 100-D Cask Storage Pad  | Storage       | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 118-D-1         | 118-D-1, 100-D Burial Ground No. 1   | Burial Ground |   |
| 118-D-2         | 118-D-2, 100-D Burial Ground No. 2   | Burial Ground |   |
| 118-D-3         | 118-D-3, 100-D Burial Ground No. 3   | Burial Ground |   |
| 118-D-4         | 118-D-4, Construction Burial Ground, Burial Ground 4F, 118-D-4F  | Burial Ground |   |
| 118-D-5         | 118-D-5, Ball 3X Burial Ground, Burial Ground 4G, 118-D-4G   | Burial Ground |   |
| 128-D-1         | 128-D-1, 100 D/DR Burning Pit  | Burn Pit      | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 116-DR-3        | 116-DR-3, 105-DR Storage Basin Trench  | Trench        | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997) |
| 116-DR-4        | 116-DR-4, 105-DR Pluto Crib  | Crib          | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997) |
| 116-DR-6        | 116-DR-6, 1608-DR Liquid Disposal Trench, Wash Pad Liquid Waste Site 3C                                    | Trench        | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997) |
| 116-DR-7        | 116-DR-7, 105-DR Inkwell Crib  | Crib          | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 116-DR-8        | 116-DR-8, 117-DR Crib, 117-DR Seal Pit Crib  | Crib          | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 116-DR-10       | 116-DR-10, 105-DR Fuel Storage Basin Cleanout Percolation, 105-DR Fuel Storage Discharge Pond, 105-DR Pond | Pond          | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 118-DR-1        | 118-DR-1, 105-DR Gas Loop Burial Ground.   | Burial Ground |   |
| 126-DR-1*       | 126-DR-1, 190-DR Clearwell Tank Pit  | Dumping Area  |   |

**Appendix C**

Listing by Operable Unit. (Sheet 14 of 85)

| <b>OPERABLE UNIT</b>   | <b>LEAD REGULATORY AGENCY</b>   |                           |   |
|------------------------|---|---------------------------|---|
| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>   | <b>Unit Type</b>          | <b>Status</b>   |
| <b>100-DR-2</b>        | (continued)   |                           |   |
| 132-DR-1               | 132-DR-1, 1608-DR Waste Water Pumping Station, 1608-DR Effluent Pumping Station   | Pump Station              | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 600-30                 | 600-30, 100-DR Construction Lay-down Area   | Dumping Area              | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| <b>100-FR-1</b>        | <b>EPA</b>  | <b>CPP</b>                |   |
| 141-C                  | 141-C, 141-C Animal Barn, Large Animal Barn & Biology Laboratory, Hog Barn  | Laboratory                | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-F-4                | 100-F-4, 108-F Building 12-inch French Drain  | French Drain              | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-F-7                | 100-F-7, Underground Fuel Tank - 1705-F Building  | Storage Tank              | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-F-9                | 100-F-9, French Drain at East End of 105-F Storage Room (Northeast Corner)  | French Drain              | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-F-10               | 100-F-10, French Drain at East End of 105-F Storage Room (Southeast Corner)   | French Drain              | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-F-11               | 100-F-11, 108-F Building 18 inch French Drain   | French Drain              | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-F-12               | 100-F-12, 36 inch French Drain at 105-F Building  | French Drain              | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-F-16               | 100-F-16, 108-F Building 30-inch French Drain, Undocumented   | French Drain              | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-F-18               | 100-F-18, 105-F Condensate Drain Field, Underground Tank at 105-F Building, Undocumented  | Drain/Tile Field          | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-F-19               | 100-F-19, 100-F Reactor Cooling Water Effluent Underground Pipelines, Contaminated Underground Lines, Effluent Water System, 1904-F Process Sewer | Radioactive Process Sewer | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997) |
| 100-F-23               | 100-F-23, 141-C Drywell   | French Drain              | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |

**Appendix C**

Listing by Operable Unit. (Sheet 15 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>  | <b>Unit Type</b>          | <b>Status</b>   |
|------------------------|--|---------------------------|---|
| <b>100-FR-1</b>        | (continued)  |                           |   |
| 100-F-24               | 100-F-24, 145-F Drywell  | French Drain              | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-F-25               | 100-F-25, 146-FR Drywells  | French Drain              | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-F-29               | 100-F-29, 100-F Experimental Animal Farm Process Sewer Pipelines         | Radioactive Process Sewer | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-F-31               | 100-F-31, 144-F Sanitary Sewer System                                    | Septic Tank               | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-F-33               | 100-F-33, 146-F Aquatic Biology Fish Ponds                               | Unplanned Release         | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-F-34               | 100-F-34, Biology Facility French Drain                                  | French Drain              | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 116-F-1                | 116-F-1, Lewis Canal   | Trench                    | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997) |
| 116-F-2                | 116-F-2, 107-F Liquid Waste Disposal Trench                              | Trench                    | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997) |
| 116-F-3                | 116-F-3, 105-F Storage Basin Trench                                      | Trench                    | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997) |
| 116-F-4                | 116-F-4, 105-F Pluto Crib  | Crib                      | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997) |
| 116-F-5                | 116-F-5, Ball Washer Crib  | Crib                      | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997) |
| 116-F-6                | 116-F-6, 1608-F Liquid Waste Disposal Trench, 105-F Cooling Water Trench | Trench                    | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997) |
| 116-F-7                | 116-F-7, 117-F Crib, 116-F-7 Seal Pit Water Crib                         | French Drain              | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 116-F-8                | 116-F-8, 1904-F Outfall Structure  | Outfall                   | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 116-F-9                | 116-F-9, Animal Waste Leaching Trench                                    | Trench                    | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997) |

**Appendix C**

Listing by Operable Unit. (Sheet 16 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>  | <b>Unit Type</b> | <b>Status</b>   |
|------------------------|--|------------------|---|
| <b>100-FR-1</b>        | (continued)  |                  |   |
| 116-F-10               | 116-F-10, 105-F Dummy Decontamination French Drain, 116-F-8, 105 Dummy/Perf Decontamination Crib, Perf Decontamination Drain | French Drain     | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997) |
| 116-F-11               | 116-F-11, 105-F Cushion Corridor French Drain  | French Drain     | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997) |
| 116-F-12               | 116-F-12, 148-F French Drain   | French Drain     | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 116-F-14               | 116-F-14, 107-F Retention Basin, 107-F   | Retention Basin  | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997) |
| 116-F-15               | 116-F-15, 108-F Radiation Crib   | Sump             | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 116-F-16               | 116-F-16, PNL Outfall  | Outfall          | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 126-F-2*               | 126-F-2, 183-F Clearwells  | Dumping Area     | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 128-F-2                | 128-F-2, 100-F Burning Pit   | Burn Pit         | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 132-F-1                | 132-F-1, 132-F-1 Chronic Feeding Barn, 141-F, 141-F Sheep Barn   | Laboratory       | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 132-F-3                | 132-F-3, 115-F Gas Recirculating Facility  | Burial Ground    | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 132-F-4                | 132-F-4, 116-F Reactor Stack, 116-F Reactor Exhaust Stack, 132-F-4 Reactor Stack Demolition Site                             | Burial Ground    | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 132-F-5                | 132-F-5, 117-F Filter Building   | Burial Ground    | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 132-F-6                | 132-F-6, 1608-F Waste Water Pumping Station, 1608-F Effluent Pumping Station, 132-F-6 Lift Station                           | Pump Station     | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |

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Listing by Operable Unit. (Sheet 17 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>  | <b>Unit Type</b>  | <b>Status</b>   |
|------------------------|--|-------------------|---|
| <b>100-FR-1</b>        | (continued)  |                   |   |
| 182-F                  | 182-F, 182-F Reservoir   | Dumping Area      | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 1607-F2                | 1607-F2, 1607-F2 Septic Tank, 124-F-2, 1607-F2 Sanitary Sewer System                   | Septic Tank       | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 1607-F3                | 1607-F3, 1607-F3 Septic Tank, 124-F-3, 1607-F3 Sanitary Sewer System                   | Septic Tank       | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 1607-F4                | 1607-F4, 1607-F4 Septic Tank, 124-F-4, 1607-F4 Sanitary Sewer System                   | Septic Tank       | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 1607-F5                | 1607-F5, 1607-F5 Septic Tank, 124-F-5, 1607-F5 Sanitary Sewer System                   | Septic Tank       | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 1607-F6                | 1607-F6, 1607-F6 Septic Tank, 124-F-6, 1607-F6 Sanitary Sewer System                   | Drain/Tile Field  | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 1607-F7                | 1607-F7, 141-M Building Septic Tank, 124-F-7   | Septic Tank       | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| UPR-100-F-1            | UPR-100-F-1, 141 Building Sewer Line Spill, UN-100-F-1, 141-C to 141-M Sewer Line Leak | Unplanned Release | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| UPR-100-F-2            | UPR-100-F-2, Basin Leak Ditch, 107-F Basin Leak Ditch, 100-F-3                         | Unplanned Release | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997) |
| UPR-100-F-3            | UPR-100-F-3, Mercury Spill   | Unplanned Release | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| <b>100-FR-2</b>        | <b>EPA</b>   | <b>CPP</b>        |   |
| 100-F-2                | 100-F-2, Strontium Garden, PNL Ecological Study Strontium Garden                       | Laboratory        | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-F-14               | 100-F-14, 100-FR-2 Vent Pipe, 100-F Carpenter Shop Waste Site Vent                     | Storage Tank      | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-F-15               | 100-F-15, 108-F Building Ventilation French Drain, Undocumented                        | French Drain      | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997) |
| 100-F-20               | 100-F-20, PNL Parallel Pits  | Trench            |   |
| 100-F-28               | 100-F-28, Septic Tank and Drainfield   | Septic Tank       | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |

**Appendix C**

Listing by Operable Unit. (Sheet 18 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>  | <b>Unit Type</b> | <b>Status</b>   |
|------------------------|--|------------------|---|
| <b>100-FR-2</b>        | (continued)  |                  |   |
| 118-F-1                | 118-F-1, Minor Construction Burial Ground No. 2, Burial Ground No. 1, Solid Waste Burial Ground No. 2                | Burial Ground    |   |
| 118-F-2                | 118-F-2, Burial Ground No. 2, Solid Waste Burial Ground No. 1  | Burial Ground    |   |
| 118-F-3                | 118-F-3, Minor Construction Burial Ground No. 1, Burial Ground No. 3   | Burial Ground    |   |
| 118-F-4                | 118-F-4, 115-F Pit, 115-F Crib   | Crib             | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 118-F-5                | 118-F-5, PNL Sawdust Pit, PNL Sawdust Respository, Battelle Sawdust Pit  | Burial Ground    |   |
| 118-F-6                | 118-F-6, PNL Solid Waste Burial Ground   | Burial Ground    |   |
| 118-F-7                | 118-F-7, 100-F Miscellaneous Hardware Storage Vault, Concrete Box  | Storage          |   |
| 118-F-9                | 118-F-9, PNL Rad Site  | Burial Ground    |   |
| 120-F-1                | 120-F-1, Glass Dump  | Trench           | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 126-F-1                | 126-F-1, 184-F Powerhouse Ash Pit, 188-F Ash Disposal Area   | Coal Ash Pit     | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997) |
| 128-F-1                | 128-F-1, 100-F Burning Pit, 100-F Burning Pit No. 1  | Burn Pit         | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 128-F-3                | 128-F-3, PNL Burn Pit  | Burn Pit         | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 1607-F1                | 1607-F1, 1607-F1 Septic Tank and Associated Drain Field, 124-F-1, 1607-F1 Sanitary Sewer System, 1607-F1 Septic Tank | Septic Tank      | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| <b>100-HR-1</b>        | <b>Ecology</b>   | <b>CPP</b>       |   |
| 100-H-3.               | 100-H-3, 1716-H Garage Fuel Tank Site  | Storage Tank     | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |

**Appendix C**

Listing by Operable Unit. (Sheet 19 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>  | <b>Unit Type</b>          | <b>Status</b>   |
|------------------------|--|---------------------------|---|
| <b>100-HR-1</b>        | (continued)  |                           |   |
| 100-H-4                | 100-H-4, 1717-H Hot Shop, French Drain, and, Contaminated Storage Unit                   | Maintenance Shop          | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-H-5                | 100-H-5, 107-H Retention Basin Sludge Burial Site, 107-H Buried Sludge Site, 107-H Grave | Burial Ground             | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997) |
| 100-H-7                | 100-H-7, French Drain A  | French Drain              | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-H-8                | 100-H-8, French Drain B  | French Drain              | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-H-9                | 100-H-9, French Drain C  | French Drain              | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-H-10               | 100-H-10, French Drain D   | French Drain              | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-H-11               | 100-H-11, Expansion Box French Drain E   | French Drain              | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-H-12               | 100-H-12, Expansion Box French Drain F and Shielding Lead                                | French Drain              | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-H-13               | 100-H-13, French Drain G   | French Drain              | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-H-14               | 100-H-14, Surface Contamination Zone H   | Unplanned Release         | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-H-17               | 100-H-17, 116-H-2 Trench Overflow  | Unplanned Release         | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997) |
| 100-H-21               | 100-H-21, 100-H Reactor Cooling Water Effluent Underground Pipelines                     | Radioactive Process Sewer | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995)                         |
| 100-H-22               | 100-H-22, Soil Contaminated by Effluent Line Leakage                                     | Unplanned Release         | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-H-24               | 100-H-24, 151-H Electrical Facilities, 151-H Substation                                  | Electrical Substation     | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-H-31               | 100-H-31, Polychlorinated Biphenyl in Soil On North Side of 105-H Reactor Building       | Unplanned Release         | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |

**Appendix C**

Listing by Operable Unit. (Sheet 20 of 85)

| <b>OPERABLE UNIT</b>   | <b>LEAD REGULATORY AGENCY</b>  |                  |   |  |
|------------------------|--|------------------|---|--|
| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>  | <b>Unit Type</b> | <b>Status</b>   |  |
| <b>100-IIR-1</b>       | (continued)  |                  |   |  |
| 116-H-1                | 116-H-1, 107-H Liquid Waste Disposal Trench  | Trench           | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995)                         |  |
| 116-H-2                | 116-H-2, 1608-H Liquid Waste Disposal Trench, 1608-H Crib & Trench   | Trench           | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995)                         |  |
| 116-H-3                | 116-H-3, 105-H Dummy Decontamination French Drain, Perf Decontamination Drain  | French Drain     | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997) |  |
| 116-H-4                | 116-H-4, 105-H Pluto Crib  | Crib             | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995)                         |  |
| 116-H-5                | 116-H-5, 116-H-5 Outfall Structure, 1904-H Outfall Structure, 116-H-5 Outfall Structure and Riverlines               | Outfall          | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |  |
| 116-H-7                | 116-H-7, 107-H Retention Basin, 107-H  | Retention Basin  | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995)                         |  |
| 116-H-9                | 116-H-9, 117-H Crib, 117-H Seal Pit Crib   | Crib             | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |  |
| 126-H-2*               | 126-H-2, 183-H Clearwells/Disposal Pit   | Dumping Area     | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |  |
| 132-H-1                | 132-H-1, 116-H Reactor Exhaust Stack Burial Site   | Burial Ground    | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |  |
| 132-H-3                | 132-H-3, 1608-H Waste Water Pumping Station Site, 116-H-8, 1608-H Effluent Pumping Station Site                      | Pump Station     | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |  |
| 1607-H2                | 1607-H2, 1607-H2 Septic Tank and Associated Drain Field, 1607-H2 Sanitary Sewer System, 124-H-2, 1607-H2 Septic Tank | Septic Tank      | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |  |
| 1607-H4                | 1607-H4, 1607-H4 Septic Tank and Associated Drain Field, 1607-H4 Sanitary Sewer System, 124-H-4, 1607-H4 Septic Tank | Septic Tank      | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |  |

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Listing by Operable Unit. (Sheet 21 of 85)

| <b>OPERABLE UNIT</b>   | <b>LEAD REGULATORY AGENCY</b>  |                   |  |
|------------------------|--|-------------------|--|
| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>  | <b>Unit Type</b>  | <b>Status</b>  |
| <b>100-HR-2</b>        | <b>Ecology</b>   | <b>RPP</b>        |  |
| 100-H-2                | 100-H-2, Buried Thimble Site   | Burial Ground     | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995); Proximity Site to 116-H-2 |
| 118-H-1                | 118-H-1, 100-H Burial Ground No. 1, 100-H-1  | Burial Ground     |  |
| 118-H-2                | 118-H-2, H-1 Loop Burial Ground, 100-H Burial Ground No. 2   | Burial Ground     |  |
| 118-H-3                | 118-H-3, Construction Burial Ground  | Burial Ground     |  |
| 118-H-4                | 118-H-4, Ball 3X Burial Ground   | Burial Ground     |  |
| 118-H-5                | 118-H-5, 105-H Thimble Pit   | Burial Ground     |  |
| 128-H-1                | 128-H-1, 100-H Burning Pit, 100-H Burning Pit No. 1  | Burn Pit          | Interim Record of Decision, 100 Area Remaining Sites (1999)†   |
| 128-H-2                | 128-H-2, 100-H Burning Ground #2   | Burn Pit          | Interim Record of Decision, 100 Area Remaining Sites (1999)†   |
| 128-H-3                | 128-H-3, 100-H Burning Ground #3   | Burn Pit          | Interim Record of Decision, 100 Area Remaining Sites (1999)†   |
| 132-H-2                | 132-H-2, 117-H Filter Building Site  | Burial Ground     | Interim Record of Decision, 100 Area Remaining Sites (1999)†   |
| 1607-H1*               | 1607-H1, 1607-H1 Septic Tank and Associated Drain Field, 124-H-1, 1607-H1 Sanitary Sewer System, 1607-H1 Septic Tank | Septic Tank       | Interim Record of Decision, 100 Area Remaining Sites (1999)†   |
| 600-151                | 600-151, Dumping Areas 50 yards and 200 yards Downstream of River Mile 14, Military installation NW of 100H Area     | Dumping Area      | Interim Record of Decision, 100 Area Remaining Sites (1999)†   |
| <b>100-IU-1</b>        | <b>EPA</b>   | <b>CPP</b>        |  |
| 600-41                 | 600-41, H 70 Anti-Aircraft Artillery (AAA) Site  | Military Compound | Deleted From NPL (7/8/1998)  |
| 600-42                 | 600-42, H 71 Anti-Aircraft Artillery (AAA) Site  | Military Compound | Deleted From NPL (7/8/1998)  |
| 600-43                 | 600-43, McGee Fish Farm  | Dumping Area      | Deleted From NPL (7/8/1998)  |

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Listing by Operable Unit. (Sheet 22 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>   | <b>Unit Type</b>             | <b>Status</b>  |
|------------------------|---|------------------------------|--|
| <b>100-IU-1</b>        | <b>(continued)</b>  |                              |  |
| 600-44                 | 600-44, Herbicide/Pesticide Empty Container Pile, Enyert Well Empty Pesticide Container Dump, 600-68                              | Dumping Area                 | Deleted From NPL (7/8/1998)                                  |
| 600-45                 | 600-45, Transite and Metal Debris Pile  | Dumping Area                 | Deleted From NPL (7/8/1998)                                  |
| 600-101                | 600-101, RRCWP, Riverland Railroad Car Wash Pit   | Depression/Pit (nonspecific) | Deleted From NPL (7/8/1998)                                  |
| 600-102                | 600-102, 600 AMBS, 600 Area Army Munitions Burial Site  | Burial Ground                | Deleted From NPL (7/8/1998)                                  |
| <b>100-IU-2</b>        | <b>EPA</b>  | <b>CPP</b>                   |  |
| 600-5                  | 600-5, White Bluffs Waste Oil Dump, Asphalt Heliport  | Dumping Area                 | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 600-52                 | 600-52, White Bluffs Surface Basin  | Drain/Tile Field             | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 600-98                 | 600-98, East White Bluffs City Landfills, East White Bluffs Dump and East White Bluffs Dump #2, East White Bluffs Landfill, EWBCL | Sanitary Landfill            | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 600-99                 | 600-99, JA Jones 2, J. A. Jones #2, JA JONES2   | Burial Ground                | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 600-100                | 600-100, White Bluffs Landfill, White Bluffs City Landfill, WBL, White Bluffs City Dump, 600-119                                  | Sanitary Landfill            | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 600-120                | 600-120, White Bluffs Spare Parts Burn Pit, Spare Parts Burn Pit  | Burn Pit                     | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 600-124                | 600-124, White Bluffs Burn Site and Paint Disposal Area, Burn Site and Paint Disposal Area  | Burn Pit                     | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 600-125                | 600-125, White Bluffs Waste Disposal Trench 1, Waste Disposal Trenches  | Trench                       | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 600-127                | 600-127, White Bluffs Loading Docks and Fuel Storage Area, Fuel Storage Area  | Storage                      | Interim Record of Decision, 100 Area Remaining Sites (1999)† |

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Listing by Operable Unit. (Sheet 23 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>   | <b>Unit Type</b>             | <b>Status</b>  |
|------------------------|---|------------------------------|--|
| <b>100-IU-2</b>        | (continued)   |                              |  |
| 600-128                | 600-128, White Bluffs Oil and Oil Filter Dump Site, Oil and Oil Filter Dump Site  | Dumping Area                 | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 600-129                | 600-129, White Bluffs Pre-MED Community Dump Site 1, Pre-MED White Bluffs Community Dump Site (Oil Can Site)            | Dumping Area                 | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 600-131                | 600-131, White Bluffs Water Station and Special Fabrication Shops and Warehouse, Special Fabrication Shop and Warehouse | Dumping Area                 | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 600-132                | 600-132, White Bluffs Construction Contractor Shop Landfill, Construction Contractor Shop Landfill                      | Depression/Pit (nonspecific) | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 600-139                | 600-139, White Bluffs Automotive Repair Shop and Associated Waste Sites, Automotive Repair Shop                         | Dumping Area                 | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 600-176                | 600-176, White Bluffs Paint Disposal Area   | Dumping Area                 | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 600-181                | 600-181, White Bluffs Oil Dump  | Dumping Area                 | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 600-188                | 600-188, White Bluffs Waste Disposal Trench 2   | Trench                       | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 600-190                | 600-190, White Bluffs Warehouse Tar and/or Paint Disposal Area  | Dumping Area                 | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 600-201                | 600-201, White Bluffs Paint and Solid Waste Disposal Site   | Dumping Area                 | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 628-1                  | 628-1, White Bluffs Burn Pit  | Burn Pit                     | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| <b>100-IU-3</b>        | <b>Ecology</b>  | <b>CPP</b>                   |  |
| 600-6                  | 600-6, MIL - H-12-L, "Battery B" Nike Missile Launch Site   | Military Compound            | Deleted From NPL (7/8/1998)                                  |
| 600-7                  | 600-7, Nike Asbestos Pipe Site, Concrete/Asbestos Pipe Site   | Dumping Area                 | Deleted From NPL (7/8/1998)                                  |

## Appendix C

Listing by Operable Unit. (Sheet 24 of 85)

## OPERABLE UNIT LEAD REGULATORY AGENCY

| Waste Unit Name | Waste Unit Aliases  | Unit Type         | Status                      |
|-----------------|---|-------------------|-----------------------------|
| <b>100-IU-3</b> | (continued)   |                   |                             |
| 600-8           | 600-8, MIL - H-06C, Control Center for "Battery A" Nike Missile, Wahluke Slope Nike Missile Base, WSNMB, 600-103 (Part)       | Military Compound | Deleted From NPL (7/8/1998) |
| 600-9           | 600-9, MIL - H-06L, Battery "A" Nike Missile Installation Launch Site, Wahluke Slope Nike Missile Base, WSNMB, 600-103 (Part) | Military Compound | Deleted From NPL (7/8/1998) |
| 600-10          | 600-10, MIL - H-12C, "Battery B" Nike Missile Control Center  | Military Compound | Deleted From NPL (7/8/1998) |
| 600-11          | 600-11, MIL - H-81R   | Military Compound | Deleted From NPL (7/8/1998) |
| 600-12          | 600-12, MIL - H-83C, Battery "C" Control Center   | Military Compound | Deleted From NPL (7/8/1998) |
| 600-13          | 600-13, MIL - H-83L, Battery "C" Launch Site  | Military Compound | Deleted From NPL (7/8/1998) |
| 600-14          | 600-14, MIL - PSN 01  | Military Compound | Deleted From NPL (7/8/1998) |
| 600-15          | 600-15, MIL - PSN 04  | Military Compound | Deleted From NPL (7/8/1998) |
| 600-16          | 600-16, MIL - PSN 07/10, PSN 10, H-07-H, Base Camp 500  | Military Compound | Deleted From NPL (7/8/1998) |
| 600-17          | 600-17, MIL - PSN 12/14 Site and Military Dump, Tent Camp 505, PSN 12, H-14   | Military Compound | Deleted From NPL (7/8/1998) |
| 600-18          | 600-18, MIL - PSN 72/82, PSN 72, H-82, Tent Camp 515  | Military Compound | Deleted From NPL (7/8/1998) |
| 600-19          | 600-19, MIL - PSN 90, H-90, Base Camp 410   | Military Compound | Deleted From NPL (7/8/1998) |
| 600-72          | 600-72, Wahluke Slope H-12-R Debris Site, H-12R   | Dumping Area      | Deleted From NPL (7/8/1998) |
| 600-73          | 600-73, Wahluke Slope Igloo Sites   | Military Compound | Deleted From NPL (7/8/1998) |
| 600-74          | 600-74, Wahluke Slope PSN 12/14 Military Construction Dump, Motor Pool Dump   | Military Compound | Deleted From NPL (7/8/1998) |
| 600-75          | 600-75, Wahluke Slope PSN 80 Debris Site  | Dumping Area      | Deleted From NPL (7/8/1998) |
| 600-76          | 600-76, Wahluke Slope "Radar" Site, Underground Rooms   | Military Compound | Deleted From NPL (7/8/1998) |

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Listing by Operable Unit. (Sheet 25 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>   | <b>Unit Type</b>             | <b>Status</b>               |
|------------------------|---|------------------------------|-----------------------------|
| <b>100-IU-3</b>        | (continued)   |                              |                             |
| 600-77                 | 600-77, Wahluke Slope Shrapnel Sites, Antiaircraft Gun Shrapnel Sites 1, 2, 3 | Military Compound            | Deleted From NPL (7/8/1998) |
| 600-78                 | 600-78, Power Pole 12-3 Cistern, 12-3 Cistern                                 | Catch Tank                   | Deleted From NPL (7/8/1998) |
| 600-79                 | 600-79, Wahluke Slope Clay Pit Cistern  | Catch Tank                   | Deleted From NPL (7/8/1998) |
| 600-80                 | 600-80, Wahluke Slope Cow Camp Cistern  | Catch Tank                   | Deleted From NPL (7/8/1998) |
| 600-81                 | 600-81, Wahluke Slope Homestead Cistern                                       | Settling Tank                | Deleted From NPL (7/8/1998) |
| 600-82                 | 600-82, Wahluke Slope Overlook Cistern  | Catch Tank                   | Deleted From NPL (7/8/1998) |
| 600-83                 | 600-83, Wahluke Slope Stock Tank Cistern                                      | Catch Tank                   | Deleted From NPL (7/8/1998) |
| 600-84                 | 600-84, Wahluke Slope Wagon Road Cistern                                      | Catch Tank                   | Deleted From NPL (7/8/1998) |
| 600-85                 | 600-85, Wahluke Slope Stove Cistern   | Catch Tank                   | Deleted From NPL (7/8/1998) |
| 600-86                 | 600-86, Wahluke Slope Wasteway Cistern  | Catch Tank                   | Deleted From NPL (7/8/1998) |
| 600-87                 | 600-87, Wahluke Slope Dune Homestead  | Dumping Area                 | Deleted From NPL (7/8/1998) |
| 600-88                 | 600-88, Wahluke Slope Lonetree Homestead                                      | Dumping Area                 | Deleted From NPL (7/8/1998) |
| 600-89                 | 600-89, Wahluke Slope Asphalt Batch Plant                                     | Dumping Area                 | Deleted From NPL (7/8/1998) |
| 600-90                 | 600-90, Wahluke Slope Coyote Bait Can/Bait Station                            | Dumping Area                 | Deleted From NPL (7/8/1998) |
| 600-91                 | 600-91, Wahluke Slope Gravel Pit #47  | Depression/Pit (nonspecific) | Deleted From NPL (7/8/1998) |
| 600-92                 | 600-92, Wahluke Slope Gravel Pit #56, Borrow Pit #56                          | Depression/Pit (nonspecific) | Deleted From NPL (7/8/1998) |
| 600-93                 | 600-93, Hanford Firing Range  | Dumping Area                 | Deleted From NPL (7/8/1998) |
| 600-94                 | 600-94, Wahluke Schoolhouse   | Foundation                   | Deleted From NPL (7/8/1998) |
| 600-95                 | 600-95, Wahluke Slope Bridge Disposal Area, Bridge Overlook Site              | Dumping Area                 | Deleted From NPL (7/8/1998) |

**Appendix C**

Listing by Operable Unit. (Sheet 26 of 85)

| <b>OPERABLE UNIT</b>   | <b>LEAD REGULATORY AGENCY</b>   |                   |  |
|------------------------|---|-------------------|--|
| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>   | <b>Unit Type</b>  | <b>Status</b>  |
| <b>100-IU-3</b>        | (continued)   |                   |  |
| 600-104                | 600-104, USBR, USBR 2,4-D Burial Site, USBR-2,4-D   | Burial Ground     | Deleted From NPL (7/8/1998)  |
| <b>100-IU-4</b>        | <b>Ecology</b>  | <b>CPP</b>        |  |
| 600-105                | 600-105, SDBDL, Sodium Dichromate Barrel Disposal Landfill  | Burial Ground     | Closed Out (2/12/1996)   |
| <b>100-IU-5</b>        | <b>EPA</b>  | <b>CPP</b>        |  |
| 600-106                | 600-106, WBPAC, White Bluffs Pickling Acid Cribs, White Bluff Pickling Acid Cribs   | Crib              | Closed Out (2/12/1996)   |
| <b>100-IU-6</b>        | <b>EPA</b>  | <b>CPP</b>        |  |
| 600-3                  | 600-3, Hanford Townsite Excess Material Storage Yard/Paint Pit  | Dumping Area      | Interim Record of Decision, 100 Area Remaining Sites (1999)†                                   |
| 600-23                 | 600-23, Dumping Area Within Gravel Pit #11  | Dumping Area      | Interim Record of Decision, 100 Area Remaining Sites (1999)†; Added through "Plug-In Approach" |
| 600-107                | 600-107, 213-J&K Cribs, Gable Mountain Plutonium Storage Vault Cribs, 213-J & K Cribs                                       | Crib              | Interim Record of Decision, 100 Area Remaining Sites (1999)†                                   |
| 600-108*               | 600-108, 213-J&K Vaults, 213-J&K Storage Facility (SF), 213-J & K Magazine Waste Storage Cavern, 213-J & K Storage Facility | Storage           | Interim Record of Decision, 100 Area Remaining Sites (1999)†                                   |
| 600-109                | 600-109, HTCL, Hanford Trailer Camp Landfill  | Sanitary Landfill | Interim Record of Decision, 100 Area Remaining Sites (1999)†                                   |
| 600-110                | 600-110, HTL, Hanford Townsite Landfill   | Sanitary Landfill | Interim Record of Decision, 100 Area Remaining Sites (1999)†                                   |
| 600-111                | 600-111, P-11 Critical Mass Laboratory Crib, 116-F-6  | Crib              | Interim Record of Decision, 100 Area Remaining Sites (1999)†                                   |
| 600-149                | 600-149, Small Arms Range, Rifle and Pistol Range, 661 Complex, 600-54  | Military Compound | Interim Record of Decision, 100 Area Remaining Sites (1999)†                                   |
| 600-202                | 600-202, Hanford Townsite Four Burn and Burial Pits   | Burn Pit          | Interim Record of Decision, 100 Area Remaining Sites (1999)†                                   |

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Listing by Operable Unit. (Sheet 27 of 85)

| <b>OPERABLE UNIT</b>   | <b>LEAD REGULATORY AGENCY</b>   |                   |   |
|------------------------|---|-------------------|---|
| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>   | <b>Unit Type</b>  | <b>Status</b>   |
| <b>100-IU-6</b>        | (continued)   |                   |   |
| 600-204                | 600-204, Hanford Townsite Burn and Burial Trench  | Burn Pit          | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 600-205                | 600-205, Hanford Townsite Landfill 2  | Dumping Area      | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 600-208                | 600-208, Hanford Construction Camp Boiler House Ponds   | Pond              | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| JA JONES 1             | JA JONES 1, JA Jones 1, JA Jones Dumping Pit #1, JA Jones Construction Pit #1   | Dumping Area      | Interim Record of Decision, 100 Area Remaining Sites (1999)†; Added through "Plug-In Approach"          |
| UPR-600-11             | UPR-600-11, Contaminated Soil Dumped at JA Jones Pit #1   | Unplanned Release | Closed Out (1/27/1999)  |
| UPR-600-16             | UPR-600-16, P-11 Fire and Contamination Spread, UN-600-16, UN-616-16  | Unplanned Release | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| <b>100-KR-1</b>        | <b>EPA</b>  | <b>CPP</b>        |   |
| 116-K-1                | 116-K-1, 100-K Crib, 100-K Pond, 116-K-1 Trench, 107-K Pond, 107-K(E) Sump, 100-K Emergency Pond                            | Crib              | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997) |
| 116-K-2                | 116-K-2, 100-K Mile Long Trench, K Trench, 116-K-2 Trench, 100-K Emergency Trench, 107-K Effluent Trench, Bypass Crib Ditch | Trench            | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997) |
| 116-K-3*               | 116-K-3, 1904-K Outfall Structure, 1908-K Outfall Structure   | Outfall           | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 116-KE-4               | 116-KE-4, 107-KE Retention Basins, 107-KE   | Retention Basin   | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997) |
| 116-KW-3               | 116-KW-3, 107-KW Retention Basin, 107-KW  | Retention Basin   | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997) |
| <b>100-KR-2</b>        | <b>EPA</b>  | <b>CPP</b>        |   |
| 100-K-1                | 100-K-1, 119-KW French Drain, 119-KW Exhaust Air Sample Building French Drain, 100-K-45                                     | French Drain      | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997) |
| 100-K-2                | 100-K-2, 118-K-2, 118-K-2 Sludge Burial Ground, Burial Area   | Burial Ground     |   |

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Listing by Operable Unit. (Sheet 28 of 85)

| <b>OPERABLE UNIT</b>   | <b>LEAD REGULATORY AGENCY</b>  |                  |  |
|------------------------|--|------------------|--|
| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>  | <b>Unit Type</b> | <b>Status</b>  |
| <b>100-KR-2</b>        | (continued)  |                  |  |
| 100-K-13               | 100-K-13, French Drain West of the 166-KW Oil Storage Tank Facility  | French Drain     | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 100-K-14               | 100-K-14, 183-KE Acid Neutralization Pit and Overflow French Drain   | French Drain     | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 100-K-18               | 100-K-18, 183-KW Caustic Neutralization Pit  | Sump             | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 100-K-29               | 100-K-29, 183-KE Sandblasting Site   | Dumping Area     | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 100-K-30               | 100-K-30, 183-KE Sulfuric Acid Tank (West Tank)  | Storage Tank     | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 100-K-31               | 100-K-31, 183-KE Sulfuric Acid Tank (East tank)  | Storage Tank     | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 100-K-32               | 100-K-32, 183-KW Sulfuric Acid Tank (East tank)  | Storage Tank     | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 100-K-33               | 100-K-33, 183-KW Sulfuric Acid Tank (West tank)  | Storage Tank     | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 100-K-34               | 100-K-34, 183-KW Acid Neutralization Pit   | Sump             | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 100-K-35               | 100-K-35, 183-KE Acid Neutralization Pit   | Sump             | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 100-K-36               | 100-K-36, 1706-KE Chemical Storage Facility Dry Well   | French Drain     | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 100-K-42*              | 100-K-42, 100 Area KE Basin, 105-KE Fuel Storage Basin, K East Basin, Irradiated Fissile Material Storage, Metal Storage Basin, 100-K-40 | Storage          | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 100-K-43*              | 100-K-43, KW Basin, 105-KW Fuel Storage Basin, K West Basin, Irradiated Fissile Material Storage   | Storage          | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 100-K-46               | 100-K-46, 119-KE French Drain, Drywell   | French Drain     | Interim Record of Decision, 100 Area Remaining Sites (1999)† |

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Listing by Operable Unit. (Sheet 29 of 85)

| <b>OPERABLE UNIT</b>   | <b>LEAD REGULATORY AGENCY</b>   |                           |   |
|------------------------|---|---------------------------|---|
| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>   | <b>Unit Type</b>          | <b>Status</b>   |
| <b>100-KR-2</b>        | (continued)   |                           |   |
| 100-K-48               | 100-K-48, 100-KE Oil Contamination Areas  | Unplanned Release         | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-K-49               | 100-K-49, 100-KW Oil Contamination Area   | Unplanned Release         | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-K-53               | 100-K-53, 100-KE Glycol Heat Recovery Underground Pipelines   | Product Piping            | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-K-54               | 100-K-54, 100-KW Glycol Heat Recovery Underground Pipelines   | Product Piping            | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 100-K-55               | 100-K-55, 100-KW Reactor Cooling Water Effluent Underground Pipelines   | Radioactive Process Sewer | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997) |
| 100-K-56               | 100-K-56, 100-KE Reactor Cooling Water Effluent Underground Pipelines   | Radioactive Process Sewer | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997) |
| 118-K-1                | 118-K-1, 100-K Burial Ground, 118-K   | Burial Ground             |   |
| 128-K-1                | 128-K-1, 100-K Burning Pit  | Burn Pit                  | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 128-K-2                | 128-K-2, 100-K Construction Dump  | Burn Pit                  | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 130-K-2                | 130-K-2, 1717-K Waste Oil Storage Tank  | Storage Tank              | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 116-KE-1               | 116-KE-1, 115-KE Condensate Crib  | Crib                      | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997) |
| 116-KE-2               | 116-KE-2, 1706-KER Waste Crib   | Crib                      | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997) |
| 116-KE-3               | 116-KE-3, 105-KE Storage Basin French Drain, 105-KE Fuel Storage Basin Sub-Basin Drainage Disposal System Crib                    | Injection/Reverse Well    | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997) |
| 120-KE-1               | 120-KE-1, 183-KE Filter Waste Facility Dry Well, 100-KE-1, 183-KE Filter Water Facility, 183-KE Acid Neutralization Pit, 100-K-26 | Sump                      | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |

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Listing by Operable Unit. (Sheet 30 of 85)

| <b>OPERABLE UNIT</b>   | <b>LEAD REGULATORY AGENCY</b>   |                        |   |
|------------------------|---|------------------------|---|
| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>   | <b>Unit Type</b>       | <b>Status</b>   |
| <b>100-KR-2</b>        | (continued)   |                        |   |
| 120-KE-2               | 120-KE-2, 183-KE Filter Waste Facility French Drain, 100-KE-2, 183 KE Filter Water Facility   | French Drain           | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 120-KE-3               | 120-KE-3, 100-KE-3, 183-KE Filter Water Facility Trench   | Trench                 | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 120-KE-6               | 120-KE-6, 183-KE Sodium Dichromate Tank   | Foundation             | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 130-KE-1               | 130-KE-1, 105-KE Emergency Diesel Oil Storage Tank, 105-KE Emergency Diesel Fuel Tank   | Storage Tank           | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 116-KW-1               | 116-KW-1, 115-KW Condensate Crib  | Crib                   | Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995)                         |
| 116-KW-2               | 116-KW-2, 105-KW Storage Basin French Drain, 105-KW Basin Reverse Well, 105-KW Fuel Storage Basin Sub-Basin Drainage Disposal System Crib | Injection/Reverse Well | Amendment to the Interim Remedial Action Record of Decision, 100-BC-1, 100-DR-1, 100-HR-1 (1995) (1997) |
| 120-KW-1               | 120-KW-1, 183-KW Filter Water Facility Dry Well, 100-KW-1, 183-KW Acid Neutralization Pit, 100-K-17                                       | Sump                   | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 120-KW-2               | 120-KW-2, 183-KW Filter Water Facility French Drain, 100-KW-2   | French Drain           | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 120-KW-5               | 120-KW-5, 183-KW Sodium Dichromate Storage Tank   | Foundation             | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 130-KW-1               | 130-KW-1, 105-KW Emergency Diesel Oil Storage Tank, 105-KW Emergency Diesel Fuel Tank   | Storage Tank           | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| 600-29                 | 600-29, 100-K Construction Lay-down Area, 100-K-41  | Dumping Area           | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |
| UPR-100-K-1            | UPR-100-K-1, 100-KE Fuel Storage Basin leak, UN-100-K-1   | Unplanned Release      | Interim Record of Decision, 100 Area Remaining Sites (1999)†  |

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Listing by Operable Unit. (Sheet 31 of 85)

| <b>OPERABLE UNIT</b>   | <b>LEAD REGULATORY AGENCY</b>  |                     |               |
|------------------------|--|---------------------|---------------|
| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>  | <b>Unit Type</b>    | <b>Status</b> |
| <b>100-NR-1</b>        | <b>Ecology</b>   | <b>RPP</b>          |               |
| 100-N-1                | 100-N-1, HGP Settling Pond   | Pond                |               |
| 100-N-3*               | 100-N-3, Maintenance Garage French Drain,<br>Maintenance Garage Waste Water Treatment<br>Unit                                  | French Drain        |               |
| 100-N-4*               | 100-N-4, HGP Tile Field  | Drain/Tile Field    |               |
| 100-N-5                | 100-N-5, HGP Disposal and Storage Area, HGP<br>Bone Yard   | Storage             |               |
| 100-N-41               | 100-N-41, 1701-NE Septic Tank  | Septic Tank         |               |
| 100-N-45               | 100-N-45, 1703-N Septic Tank   | Septic Tank         |               |
| 100-N-46               | 100-N-46, HGP Diesel Oil Storage Tank  | Storage Tank        |               |
| 116-N-1**              | 116-N-1, 1301-N Liquid Waste Disposal Facility,<br>1301-N Crib and Trench  | Crib                |               |
| 116-N-2                | 116-N-2, 1310-N Chemical Waste Storage Tank,<br>The Golf Ball, 1310-N Waste Storage Area                                       | Storage Tank        |               |
| 116-N-3**              | 116-N-3, 1325-N Liquid Waste Disposal Facility,<br>1325-N Crib and Trench  | Crib                |               |
| 116-N-4                | 116-N-4, 1300-N Emergency Dump Basin   | Retention Basin     |               |
| 118-N-1                | 118-N-1, 100-N Area Silos, 100-N Area Spacer<br>Silos, 118-N, 1303-N Spacer Silos, 1303-N<br>Radioactive Dummy Burial Facility | Silo                |               |
| 120-N-1**              | 120-N-1, 1324-NA Percolation Pond  | Pond                |               |
| 120-N-2**              | 120-N-2, 1324-N Surface Impoundment  | Surface Impoundment |               |
| 120-N-3                | 120-N-3, 163-N Neutralization Pit and French<br>Drain  | French Drain        |               |
| 120-N-5                | 120-N-5, 108-N/163-N Transfer Line And<br>Neutralization Pit   | Product Piping      |               |
| 120-N-6                | 120-N-6, 108-N Acid Tank Vent French Drains  | French Drain        |               |

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Listing by Operable Unit. (Sheet 32 of 85)

| <b>OPERABLE UNIT</b>   | <b>LEAD REGULATORY AGENCY</b>  |                  |               |
|------------------------|--|------------------|---------------|
| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>  | <b>Unit Type</b> | <b>Status</b> |
| <b>100-NR-1</b>        | (continued)  |                  |               |
| 120-N-7                | 120-N-7, 108-N Acid Unloading Facility French Drain  | French Drain     |               |
| 120-N-8                | 120-N-8, 163-N Sulfuric Acid Tank Vent French Drain  | French Drain     |               |
| 124-N-1*               | 124-N-1, 124-N-1 Septic Tank, 100-N Sanitary Sewer System No. 1                            | Septic Tank      |               |
| 124-N-2                | 124-N-2, 124-N-2 Septic Tank, 100-N Sanitary Sewer System No. 2                            | Septic Tank      |               |
| 124-N-3                | 124-N-3, 124-N-3 Septic Tank, 100-N Sanitary Sewer System No. 3                            | Septic Tank      |               |
| 124-N-4                | 124-N-4, 100-N Sanitary Sewer System No. 4, 124-N-4 Septic Tank                            | Septic Tank      |               |
| 124-N-5                | 124-N-5, 100-N Sanitary Sewer System No. 5, 124-N-5 Septic Tank                            | Septic Tank      |               |
| 124-N-6                | 124-N-6, 100-N Sanitary Sewer System No. 6, 124-N-6 Septic Tank                            | Septic Tank      |               |
| 124-N-7                | 124-N-7, 100-N Sanitary Sewer System No. 7, 124-N-7 Septic Tank                            | Septic Tank      |               |
| 124-N-8                | 124-N-8, 100-N Sanitary Sewer System No. 8, 124-N-8 Septic Tank                            | Septic Tank      |               |
| 124-N-9*               | 124-N-9, 124-N-9 Septic Tank, 100-N Sanitary Sewer System No. 9                            | Septic Tank      |               |
| 124-N-10*              | 124-N-10, 124-N-10 Sanitary Sewer System, 100-N Central Sewer System No. 10, Project H-677 | Sewage Lagoon    |               |
| 128-N-1                | 128-N-1, 100-N Burning Pit, 128-N-1 Burning Pit  | Burn Pit         |               |
| 130-N-1*               | 130-N-1, 183-N Backwash Discharge Pond, 126-N-1, 183-N Filter Backwash Pond,               | Pond             |               |
| 1908-NE                | 1908-NE, HGP Outfall, 1908-NE Building   | Outfall          |               |

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**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b>      | <b>Waste Unit Aliases</b>  | <b>Unit Type</b>  | <b>Status</b> |
|-----------------------------|--|-------------------|---------------|
| <b>100-NR-1</b> (continued) |  |                   |               |
| 600-32                      | 600-32, N Area Landfill  | Dumping Area      |               |
| UPR-100-N-1                 | UPR-100-N-1, 100-N 1304-N Dump Tank,<br>UN-100-N-1, Emergency Dump Tank Inlet Valve<br>Box Leak  | Unplanned Release |               |
| UPR-100-N-2                 | UPR-100-N-2, 100-N FLV-858 Valve Leak,<br>UN-100-N-2   | Unplanned Release |               |
| UPR-100-N-3                 | UPR-100-N-3, Dummy Fuel Transfer Line,<br>UN-100-N-3, Spacer Disposal System Transport<br>Line Leak, UN-116-N-3                                    | Unplanned Release |               |
| UPR-100-N-4                 | UPR-100-N-4, 1322-A Sump Overflow,<br>UN-100-N-4   | Unplanned Release |               |
| UPR-100-N-5                 | UPR-100-N-5, 1310-N Chemical Waste Storage<br>Tank Leak, UN-100-N-5, 116-N-2 Radioactive<br>Chemical Waste Treatment Storage Facility              | Unplanned Release |               |
| UPR-100-N-6                 | UPR-100-N-6, 1 1/2 Inch Chemical Decontam.<br>Waste Drain Line Leaks, UN-100-N-6,<br>UN-116-N-6, Chemical Decontamination Waste<br>Drain Line Leak | Unplanned Release |               |
| UPR-100-N-7                 | UPR-100-N-7, Ten-inch Radioactive Drain<br>Return Line Leak, UN-116-N-7, UN-100-N-7  | Unplanned Release |               |
| UPR-100-N-8                 | UPR-100-N-8, 1322-A Sump Overflow,<br>UN-100-N-8   | Unplanned Release |               |
| UPR-100-N-9                 | UPR-100-N-9, 119-N Cooling Water Drain Line<br>Leak, UN-100-N-9  | Unplanned Release |               |
| UPR-100-N-10                | UPR-100-N-10, 100-N Area 105-N Check Valve,<br>UN-100-N-10, Lift Station Gravity Drain Line<br>Leak  | Unplanned Release |               |
| UPR-100-N-11                | UPR-100-N-11, Five Hundred Pound Valve<br>Bonnet Contamination in Uncontrolled Area,<br>100-N Area Valve Bonnet, UN-100-N-11                       | Unplanned Release |               |

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**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b>      | <b>Waste Unit Aliases</b>   | <b>Unit Type</b>  | <b>Status</b> |
|-----------------------------|---|-------------------|---------------|
| <b>100-NR-1</b> (continued) |   |                   |               |
| UPR-100-N-12                | UPR-100-N-12, Spacer Transport Line Leak,<br>UN-100-N-12  | Unplanned Release |               |
| UPR-100-N-13                | UPR-100-N-13, 1314-N Loading Station, 1314-N<br>Drywell Overflow, UN-100-N-13                   | Unplanned Release |               |
| UPR-100-N-14                | UPR-100-N-14, 119-N Drain System Leak,<br>UN-100-N-14   | Unplanned Release |               |
| UPR-100-N-15                | UPR-100-N-15, 108-N Neutralization Sump Spill,<br>UN-116-N-15, UN-100-N-15, Acid Spill at 108-N | Unplanned Release |               |
| UPR-100-N-17                | UPR-100-N-17, 166-N Diesel Oil Supply Line<br>Leak, UN-100-N-17                                 | Unplanned Release |               |
| UPR-100-N-18                | UPR-100-N-18, 166-N Four-inch Diesel Oil<br>Supply Line to 184-N Leak, UN-100-N-18              | Unplanned Release |               |
| UPR-100-N-19                | UPR-100-N-19, 184-N Day Tank Fuel Oil Spill,<br>UN-116-N-19, UN-100-N-19                        | Unplanned Release |               |
| UPR-100-N-20                | UPR-100-N-20, 166-N Two-inch Diesel Oil<br>Return Line Leak, UN-116-N-20, UN-100-N-20           | Unplanned Release |               |
| UPR-100-N-21                | UPR-100-N-21, 184-N Diesel Oil Day Tank<br>Overflow, UN-116-N-21, UN-100-N-21                   | Unplanned Release |               |
| UPR-100-N-22                | UPR-100-N-22, 184-N Diesel Oil Supply Line<br>Leak No. 1, UN-100-N-22, UN-116-N-22              | Unplanned Release |               |
| UPR-100-N-23                | UPR-100-N-23, 184-N Diesel Oil Supply Line<br>Leak No. 2, UN-100-N-23, UN-116-N-23              | Unplanned Release |               |
| UPR-100-N-24                | UPR-100-N-24, 166-N Fuel Oil Supply Line Leak,<br>UN-116-N-24, UN-100-N-24                      | Unplanned Release |               |
| UPR-100-N-25                | UPR-100-N-25, Uncontrolled Venting of 1310-N<br>Tank, UN-100-N-25                               | Unplanned Release |               |
| UPR-100-N-26                | UPR-100-N-26, Backflow of Radioactive Waste<br>in 1314-N Facility, UN-100-N-26                  | Unplanned Release |               |

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**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b>          | <b>Waste Unit Aliases</b>  | <b>Unit Type</b>           | <b>Status</b>                                    |
|---------------------------------|--|----------------------------|--|
| <b>100-NR-1</b> (continued)     |  |                            |  |
| UPR-100-N-29                    | UPR-100-N-29, 1304-N Dump Tank, Emergency Dump Tank Bypass Line Leak, UN-100-N-29  | Unplanned Release          |  |
| UPR-100-N-30                    | UPR-100-N-30, 1304-N Dump Tank, Emergency Dump Tank Overflow, UN-100-N-30  | Unplanned Release          |  |
| UPR-100-N-31                    | UPR-100-N-31, Radioactive Effluent Water Spill Near 1301-N, UN-100-N-31  | Unplanned Release          |  |
| UPR-100-N-32                    | UPR-100-N-32, 1304-N Dump Tank, Emergency Dump Tank Bypass Line Leak, UN-100-N-32  | Unplanned Release          |  |
| UPR-100-N-33                    | UPR-100-N-33, 108-N Acid Transfer Spill, UN-116-N-33, UN-100-N-33  | Unplanned Release          |  |
| UPR-100-N-34                    | UPR-100-N-34, 108-N Tank Transfer, Sulfuric Acid Line Break, UN-100-N-34   | Unplanned Release          |  |
| UPR-100-N-35                    | UPR-100-N-35, 100-N Fuel Basin Drainage System Leak, UN-116-N-35, 105-N Fuel Storage Basin Drainage System Leak, UN-100-N-35 | Unplanned Release          |  |
| UPR-100-N-37                    | UPR-100-N-37, HGP Transformer Yard   | Unplanned Release          |  |
| UPR-600-17                      | UPR-600-17, 600 Area Patrol Boat Spill, UN-600-17  | Unplanned Release          |  |
| <b>300-FF-1</b><br>316-5**      | <b>Ecology</b><br>316-5, 3904 Process Waste Trenches, 300 Area Process Trenches, 300 APT                                     | Trench                     | Closed Out (8/13/1998)                           |
| <b>300-FF-1</b><br>300 ASH PITS | <b>EPA</b><br>300 ASH PITS, 300 Ash Pits, 300 Area Ash Pits  | <b>CPP</b><br>Coal Ash Pit | Closed Out (12/17/1997)                          |
| 300 FBP                         | 300 FBP, 300 Area Filter Backwash Pond   | Surface Impoundment        | No Action (2/19/1998)                            |
| 300 RFBP                        | 300 RFBP, 300 Area Retired Filter Backwash Pond, Pond 5, East Bay of South Process Pond                                      | Pond                       | Record of Decision, 300-FF-1 and 300-FF-5 (1997) |

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Listing by Operable Unit. (Sheet 36 of 85)

| <b>OPERABLE UNIT</b>   | <b>LEAD REGULATORY AGENCY</b>   |                   |  |
|------------------------|---|-------------------|--|
| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>   | <b>Unit Type</b>  | <b>Status</b>                                    |
| <b>300-FF-1</b>        | (continued)   |                   |  |
| 300-3                  | 300-3, 300-FF-1 Aluminum Hydroxide  | Burial Ground     | No Action (7/9/1997)                             |
| 300-44                 | 300-44, R-32, UPR-300-FF-1, UN-300-FF-1   | Unplanned Release | Closed Out (12/17/1997)                          |
| 300-49                 | 300-49, Landfill 1a, UPR-300-FF-1, UN-300-FF-1  | Dumping Area      | Record of Decision, 300-FF-1 and 300-FF-5 (1997) |
| 300-50                 | 300-50, Landfill 1b, UPR-300-FF-1, UN-300-FF-1  | Dumping Area      | Record of Decision, 300-FF-1 and 300-FF-5 (1997) |
| 300-51                 | 300-51, Landfill 1c, UPR-300-FF-1, UN-300-FF-1  | Dumping Area      | No Action (7/9/1997)                             |
| 300-52                 | 300-52, 300 Area Sanitary Trenches  | Trench            | No Action (7/9/1997)                             |
| 316-1                  | 316-1, South (old) Pond, 300 Area South Process Pond                                  | Pond              | Record of Decision, 300-FF-1 and 300-FF-5 (1997) |
| 316-2                  | 316-2, North (new) Pond, 300 Area North Process Pond                                  | Pond              | Closed Out (8/24/1999)                           |
| 618-4                  | 618-4, Burial Ground No. 4, 318-4   | Burial Ground     | Record of Decision, 300-FF-1 and 300-FF-5 (1997) |
| 618-12                 | 618-12, North Process Pond Scraping Disposal Area                                     | Burial Ground     | Closed Out (8/29/1999)                           |
| 628-4                  | 628-4, Landfill 1D  | Burn Pit          | Record of Decision, 300-FF-1 and 300-FF-5 (1997) |
| UPR-300-FF-1           | UPR-300-FF-1, 300-FF-1 Hot Spots, Surface Radiation Survey for 300-FF-1, UN-300-FF-1, | Unplanned Release | Record of Decision, 300-FF-1 and 300-FF-5 (1997) |
| UPR-300-8              | UPR-300-8, Caustic Spill from 311 Tank Farm to Process Sewer                          | Unplanned Release | Closed Out (5/14/1998)                           |
| UPR-300-9              | UPR-300-9, Nitric Acid Leak from 306-W to the Process Sewer                           | Unplanned Release | Closed Out (5/14/1998)                           |
| UPR-300-15             | UPR-300-15, Uranium Bearing Acid Release from 313 to the Process Sewer                | Unplanned Release | Closed Out (5/14/1998)                           |
| UPR-300-19             | UPR-300-19, Chemical Release to the Process Sewer                                     | Unplanned Release | Closed Out (5/14/1998)                           |
| UPR-300-20             | UPR-300-20, Acid Release to the Process Sewer   | Unplanned Release | Closed Out (5/14/1998)                           |

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**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b>      | <b>Waste Unit Aliases</b>                            | <b>Unit Type</b>  | <b>Status</b>   |
|-----------------------------|--|-------------------|---|
| <b>300-FF-1</b> (continued) |  |                   |   |
| UPR-300-21                  | UPR-300-21, Nitric Acid Release to the Process Sewer | Unplanned Release | Closed Out (5/14/1998)  |
| UPR-300-22                  | UPR-300-22, Acid Release to the Process Sewer        | Unplanned Release | Closed Out (5/14/1998)  |
| UPR-300-23                  | UPR-300-23, Acid Release to the Process Sewer        | Unplanned Release | Closed Out (5/14/1998)  |
| UPR-300-24                  | UPR-300-24, Acid Release to the Process Sewer        | Unplanned Release | Closed Out (5/14/1998)  |
| UPR-300-25                  | UPR-300-25, Release to the Process Sewer             | Unplanned Release | Closed Out (5/14/1998)  |
| UPR-300-26                  | UPR-300-26, Caustic Release to the Process Sewer     | Unplanned Release | Closed Out (5/14/1998)  |
| UPR-300-27                  | UPR-300-27, Acid Release to the Process Sewer        | Unplanned Release | Closed Out (5/14/1998)  |
| UPR-300-28                  | UPR-300-28, Release to the Process Sewer             | Unplanned Release | Closed Out (5/14/1998)  |
| UPR-300-29                  | UPR-300-29, Release to the Process Sewer             | Unplanned Release | Closed Out (5/14/1998)  |
| UPR-300-30                  | UPR-300-30, Acid Release to the Process Sewer        | Unplanned Release | Closed Out (5/14/1998)  |
| UPR-300-32                  | UPR-300-32   | Unplanned Release | Record of Decision, 300-FF-1 and 300-FF-5 (1997); Proximity Site to 316-1 |
| UPR-300-33                  | UPR-300-33   | Unplanned Release | Record of Decision, 300-FF-1 and 300-FF-5 (1997); Proximity Site to 316-1 |
| UPR-300-34                  | UPR-300-34, Release to the Soil                      | Unplanned Release | Record of Decision, 300-FF-1 and 300-FF-5 (1997); Proximity Site to 316-1 |
| UPR-300-35                  | UPR-300-35   | Unplanned Release | Record of Decision, 300-FF-1 and 300-FF-5 (1997); Proximity Site to 316-1 |
| UPR-300-36                  | UPR-300-36   | Unplanned Release | Record of Decision, 300-FF-1 and 300-FF-5 (1997); Proximity Site to 316-1 |
| UPR-300-37                  | UPR-300-37   | Unplanned Release | Record of Decision, 300-FF-1 and 300-FF-5 (1997); Proximity Site to 316-1 |

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Listing by Operable Unit. (Sheet 38 of 85)

| <b>OPERABLE UNIT</b>        | <b>LEAD REGULATORY AGENCY</b>   |                           |   |
|-----------------------------|---|---------------------------|---|
| <b>Waste Unit Name</b>      | <b>Waste Unit Aliases</b>   | <b>Unit Type</b>          | <b>Status</b>   |
| <b>300-FF-1</b> (continued) |   |                           |   |
| UPR-300-47                  | UPR-300-47, 309 Building, Ethylene Glycol Release, Glycol Spill from the 309, Chiller System  | Unplanned Release         | Closed Out (5/14/1998)  |
| UPR-600-15                  | UPR-600-15, UN-600-15   | Unplanned Release         | Record of Decision, 300-FF-1 and 300-FF-5 (1997); Proximity Site to 618-4 |
| <b>300-FF-2</b>             | <b>Ecology</b>  |                           |   |
| 303-M SA**                  | 303-M SA, 303-M Storage Area, 303-M Building Storage Area   | Storage                   |   |
| 303-M UOF**                 | 303-M UOF, 303-M Uranium Oxide Facility   | Process Unit/Plant        |   |
| <b>300-FF-2</b>             | <b>EPA</b>  | <b>CPP</b>                |   |
| 300 RLWS                    | 300 RLWS, 300 Area RLWS, 300 Area Radioactive Liquid Waste Sewer  | Radioactive Process Sewer |   |
| 300 RRLWS                   | 300 RRLWS, 300 Area Retired RLWS, 300 Area Retired Radioactive Liquid Waste Sewer System, Crib Waste System, Contaminated Sewer, Intermediate Level Radioactive Liquid Waste System | Radioactive Process Sewer |   |
| 300 VTS                     | 300 VTS, 300 Area Vitrification Test Site, In-Situ Vitrification (ISV) Test Site  | Process Unit/Plant        |   |
| 300-1                       | 300-1, Old North Richland Automotive Maintenance Yard   | Dumping Area              | No Action (2/24/1999)   |
| 300-2                       | 300-2, Contaminated Light Water Disposal  | Trench                    |   |
| 300-4                       | 300-4, DOE 351 Substation Soil Contamination  | Unplanned Release         |   |
| 300-5                       | 300-5, 300 Area Fire Station Fuel Tanks, 3709A Fire Station   | Unplanned Release         |   |
| 300-7                       | 300-7, Undocumented Solid Waste Burial Ground Adjacent to 618-8, Possible Early Burial Ground Site  | Burial Ground             |   |

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**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>   | <b>Unit Type</b>  | <b>Status</b>           |
|------------------------|---|-------------------|-------------------------|
| <b>300-FF-2</b>        | (continued)   |                   |                         |
| 300-8                  | 300-8, Aluminum Recycle Storage Area, North of Railroad and North of 618-8, Aluminum Shavings Area  | Dumping Area      |                         |
| 300-9                  | 300-9, Possible Early Burial Ground Sites North of RR and North of 618-8, Solid Waste Burial Ground | Burial Ground     |                         |
| 300-10                 | 300-10, Burial Trench West of Process Trenches  | Burial Ground     | Closed Out (12/17/1997) |
| 300-11                 | 300-11, Pumphouse Underground Gasoline Tank, 382 Pumphouse UGT, 382-1                               | Unplanned Release |                         |
| 300-15*                | 300-15, 300 Area Process Sewer System   | Process Sewer     |                         |
| 300-16                 | 300-16, Solid Waste Near 314 Building, Utility Pole Replacements                                    | Unplanned Release |                         |
| 300-18                 | 300-18, SCA #4, Surface Contaminated Area #4  | Dumping Area      |                         |
| 300-22                 | 300-22, 309 Building B-Cell Cleanout Leak   | Unplanned Release |                         |
| 300-24                 | 300-24, Soil Contamination at the 314 Metal Extrusion Building                                      | Unplanned Release |                         |
| 300-28                 | 300-28, Solid Waste Site Near 303-G Building  | Unplanned Release |                         |
| 300-29                 | 300-29, 305-B Berm, Source Location of UPR-600-11 Soil  | Unplanned Release |                         |
| 300-33                 | 300-33, 306W Metal Fabrication Development Building Releases  | Unplanned Release |                         |
| 300-34                 | 300-34, 300 Area Process Sewer Leak (found during Project L-070 excavation at manhole PS-87)        | Unplanned Release |                         |
| 300-40                 | 300-40, Corrosion of Vitrified Clay Sewer Pipe  | Unplanned Release |                         |
| 300-43                 | 300-43, Unplanned Release Outside the 304 Building  | Unplanned Release |                         |

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Listing by Operable Unit. (Sheet 40 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| Waste Unit Name | Waste Unit Aliases  | Unit Type                 | Status                  |
|-----------------|---|---------------------------|-------------------------|
| <b>300-FF-2</b> | (continued)   |                           |                         |
| 300-45          | 300-45, Surface Contamination Area, Location 3: Bird Droppings Area (Southwest corner of the 316-5 process Trenches Fence Line). SCA #1 | Unplanned Release         | Closed Out (12/17/1997) |
| 300-46          | 300-46, Soil Contamination Surrounding 3706 Building  | Unplanned Release         |                         |
| 300-48          | 300-48, Thorium Oxide and Fuel Fabrication Chemical Wastes Around 3732 Building   | Unplanned Release         |                         |
| 300-53          | 300-53, Unplanned Release East Side of 303-G  | Unplanned Release         | Closed Out (2/12/1999)  |
| 300-80          | 300-80, 314 Building Stormwater Runoff and Steam Condensate, Miscellaneous Stream #268  | French Drain              |                         |
| 300-109*        | 300-109, 333 Building Stormwater Runoff, Miscellaneous Stream #455  | Injection/Reverse Well    |                         |
| 300-110*        | 300-110, 333 Building Stormwater Runoff, Miscellaneous Stream #456  | Injection/Reverse Well    |                         |
| 300-121         | 300-121, 3621D Building Stormwater Runoff, Miscellaneous Stream #403, Injection Well #26, 36" Dry Well                                  | French Drain              |                         |
| 300-175         | 300-175, 3714 Building Steam Condensate, Miscellaneous Stream #434  | French Drain              |                         |
| 300-214*        | 300-214, 300 Area Retention Process Sewer   | Radioactive Process Sewer |                         |
| 300-224         | 300-224, WATS and U-Bearing Piping Trench   | Trench                    |                         |
| 300-251         | 300-251, Unplanned Release Outside the 303-K Building   | Unplanned Release         |                         |
| 300-253         | 300-253, 384-W Original Brine Pit, 384-W Original Salt Dissolving Pit and Brine Pump Pit  | Sump                      | No Action (5/26/1999)   |
| 300-255         | 300-255, 309 Tank Farm Contaminated Soil  | Unplanned Release         |                         |
| 300-256         | 300-256, 306E Fabrication and Testing Laboratory Releases   | Unplanned Release         |                         |
| 300-257         | 300-257, 309 Process Sewer To River   | Process Sewer             |                         |

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**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>   | <b>Unit Type</b>  | <b>Status</b>          |
|------------------------|---|-------------------|------------------------|
| <b>300-FF-2</b>        | (continued)   |                   |                        |
| 300-258                | 300-258, Abandoned Pipe Trench Between 334 Tank Farm and 306E                       | Trench            |                        |
| 300-259                | 300-259, Contamination Area Surrounding 618-1 Burial Ground                         | Unplanned Release |                        |
| 300-260                | 300-260, Contaminated Soil West of 313 Building                                     | Unplanned Release |                        |
| 300-262                | 300-262, Contaminated Soil West of South Process Pond                               | Unplanned Release |                        |
| 300-263                | 300-263, 324 Building Diversion Tank  | Catch Tank        |                        |
| 311 MT1                | 311 MT1, 311 Methanol Tank 1, 311 Tank Farm Underground Methanol Tank #1, 311-1     | Storage Tank      | Closed Out (2/12/1999) |
| 311 MT2                | 311 MT2, 311 Methanol Tank 2, 311 Tank Farm Underground Methanol Tank #2, 311-2     | Storage Tank      | Closed Out (2/12/1999) |
| 313 ESSP               | 313 ESSP, 313 East Side Storage Pad, 313 Building East Site Storage Pad             | Storage           |                        |
| 313 MT                 | 313 MT, 313 Methanol Tank, 313 Building Underground Methanol Storage Tank           | Storage Tank      | Closed Out (2/12/1999) |
| 316-3                  | 316-3, 307 Disposal Trenches, Process Water Trenches                                | Trench            |                        |
| 316-4                  | 316-4, 321 Cribs, 300 North Cribs, 316-N-1, 616-4                                   | Crib              |                        |
| 331 LSLDF              | 331 LSLDF, 331 LSL Drain Field, 331 Life Sciences Laboratory Drainfield             | Drain/Tile Field  |                        |
| 331 LSLT1              | 331 LSLT1, 331 LSL Trench 1, 331 Life Sciences Laboratory Trench #1                 | Trench            |                        |
| 331 LSLT2              | 331 LSLT2, 331 LSL Trench 2, 331 Life Sciences Laboratory Trench #2                 | Trench            |                        |
| 333 ESHWSA             | 333 ESHWSA, 333 East Side HWSA, 333 Building East Side Hazardous Waste Storage Area | Storage           |                        |

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Listing by Operable Unit. (Sheet 42 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b>      | <b>Waste Unit Aliases</b>   | <b>Unit Type</b> | <b>Status</b>           |
|-----------------------------|---|------------------|-------------------------|
| <b>300-FF-2</b> (continued) |   |                  |                         |
| 340 COMPLEX                 | 340 COMPLEX, 340 Radioactive Liquid Waste Handling Facility   | Storage Tank     |                         |
| 600-22                      | 600-22, UFO Landing Site  | Dumping Area     | No Action (1/27/1999)   |
| 600-46                      | 600-46, "Cutup" Oil Dump  | Dumping Area     | Closed Out (10/16/1995) |
| 600-47                      | 600-47, Dumping Area North of 300-FF-1  | Dumping Area     |                         |
| 600-63*                     | 600-63, 300-N Lysimeter Area, Recharge Study Site, Buried Waste Test Facility                       | Laboratory       |                         |
| 600-259                     | 600-259, Inactive Lysimeter Site East End, Special Waste Form Lysimeter, Grout Waste Test Lysimeter | Laboratory       |                         |
| 618-1                       | 618-1, Solid Waste Burial Ground No. 1, 318-1   | Burial Ground    |                         |
| 618-1:1                     | 618-1:1, 333 ESHTSSA, 333 East Side Heat Treat Salt Storage Area                                    |                  |                         |
| 618-1:2                     | 618-1:2, Limestone Neutralization Pit, WATS Trench Neutralization Pit                               |                  |                         |
| 618-2                       | 618-2, Solid Waste Burial Ground No. 2, 318-2   | Burial Ground    |                         |
| 618-3                       | 618-3, Solid Waste Burial Ground No. 3, 318-3, Burial Ground #3, Dry Waste Burial Ground No. 3      | Burial Ground    |                         |
| 618-5                       | 618-5, Burial Ground No. 5, Regulated Burning Ground, 318-5   | Burial Ground    |                         |
| 618-7                       | 618-7, Solid Waste Burial Ground No. 7, Burial Ground #7, 318-7                                     | Burial Ground    |                         |
| 618-8                       | 618-8, Solid Waste Burial Ground No. 8, 318-8, Early Solid Waste Burial Ground                      | Burial Ground    |                         |
| 618-9                       | 618-9, 300 West Burial Ground, 318-9, Dry Waste Burial Site No. 9                                   | Burial Ground    | Closed Out (10/7/1998)  |
| 618-10                      | 618-10, 300 North Solid Waste Burial Ground, 318-10   | Burial Ground    |                         |
| 618-11                      | 618-11, Y Burial Ground, 318-11, 300 Wye Burial Ground  | Burial Ground    |                         |

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**Appendix C**

Listing by Operable Unit. (Sheet 43 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>   | <b>Unit Type</b>  | <b>Status</b>          |
|------------------------|---|-------------------|------------------------|
| <b>300-FF-2</b>        | (continued)   |                   |                        |
| 618-13                 | 618-13, 318-13, 303 Building Contaminated Soil Burial Site                          | Burial Ground     |                        |
| UPR-300-1              | UPR-300-1, 316-1A, 307-340 Waste Line Leak, UN-300-1                                | Unplanned Release |                        |
| UPR-300-2              | UPR-300-2, Releases at the 340 Facility, UN-300-2, UN-316-2                         | Unplanned Release |                        |
| UPR-300-4              | UPR-300-4, UN-300-4   | Unplanned Release |                        |
| UPR-300-5              | UPR-300-5, UN-300-5, Spill at 309 Storage Basin                                     | Unplanned Release |                        |
| UPR-300-10             | UPR-300-10, Contamination Under 325 Bldg., UN-300-10                                | Unplanned Release |                        |
| UPR-300-11             | UPR-300-11, Underground Radioactive Liquid Line Leak, UN-300-11                     | Unplanned Release |                        |
| UPR-300-12             | UPR-300-12, UN-300-12   | Unplanned Release |                        |
| UPR-300-17             | UPR-300-17, UN-300-17   | Unplanned Release |                        |
| UPR-300-38             | UPR-300-38, Soil Contamination Beneath the 313 Building                             | Unplanned Release |                        |
| UPR-300-39             | UPR-300-39, UN-300-39   | Unplanned Release |                        |
| UPR-300-40             | UPR-300-40, Acid Release at the 303-F Pipe Trench, UN-300-40, UPR-300-31, UN-300-31 | Unplanned Release |                        |
| UPR-300-41             | UPR-300-41, 300 Area #340 Building Phosphoric Acid Spill, UN-300-41                 | Unplanned Release | Closed Out (2/24/1999) |
| UPR-300-45             | UPR-300-45, 303-F Building Uranium-Bearing Acid Spill, UN-300-45                    | Unplanned Release |                        |
| UPR-300-46             | UPR-300-46, Contamination North of 333 Building                                     | Unplanned Release |                        |
| UPR-300-48             | UPR-300-48, 325 Building Basement Topsy Pit   | Unplanned Release |                        |
| UPR-600-22             | UPR-600-22, WPPSS Windrow Site, 600-21  | Unplanned Release |                        |

**Appendix C**

Listing by Operable Unit. (Sheet 44 of 85)

| <b>OPERABLE UNIT</b>   | <b>LEAD REGULATORY AGENCY</b>  |                   |               |
|------------------------|--|-------------------|---------------|
| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>  | <b>Unit Type</b>  | <b>Status</b> |
| <b>200-CS-1</b>        | <b>Ecology</b>   | <b>RPP</b>        |               |
| 216-A-29**             | 216-A-29, Snow's Canyon, PUREX Chemical Sewer (CSL)  | Ditch             |               |
| 216-B-63**             | 216-B-63, B Plant Chemical Sewer, 216-B-63 Trench  | Ditch             |               |
| 216-S-10D**            | 216-S-10D, 216-S-10D Ditch, 202 Chemical Sump #1 and Ditch, Chemical Sewer Trench, Open Ditch to the Chemical Sewer Trench, 216-S-10 Ditch | Ditch             |               |
| 216-S-10P**            | 216-S-10P, 216-S-10P Pond, 202-S Chemical Sump #1 and Ditch, Chemical Sewer Trench   | Pond              |               |
| 216-S-11               | 216-S-11, 202-S Chemical Sump #2, Chemical Sewer Trenches, 216-S-11 Swamp  | Pond              |               |
| 216-W-LWC              | 216-W-LWC, 216-W-LC, Laundry Waste Crib, 216-W-LWC Crib, 216-W-1   | Crib              |               |
| UPR-200-W-34           | UPR-200-W-34, Overflow of the 216-S-10 Ditch, UN-200-W-34  | Unplanned Release |               |
| <b>200-CW-1</b>        | <b>Ecology</b>   | <b>CPP</b>        |               |
| 216-A-9                | 216-A-9, 216-A-9 Crib  | Crib              |               |
| 216-A-25               | 216-A-25, Gable Mountain Swamp, 216-A-25 Swamp, Gable Mountain Pond  | Pond              |               |
| 216-A-40               | 216-A-40 Retention Basin, 216-A-39 Crib, 216-A-39 Trench   | Retention Basin   |               |
| 216-A-42               | 216-A-42, 207-AA Retention Basin, 216-A-42 Trench, 216-A-42 Retention Basin  | Retention Basin   |               |
| 207-B                  | 207-B, B Plant Retention Basin, 207-B Retention Basin  | Retention Basin   |               |
| 216-B-2-1              | 216-B-2-1, 216-B-1, B Swamp Ditch, 216-B-2, B Ditch  | Ditch             |               |
| 216-B-2-2              | 216-B-2-2, 216-B-2-2W, 216-B-1 Ditch   | Ditch             |               |

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Listing by Operable Unit. (Sheet 45 of 85)

## OPERABLE UNIT LEAD REGULATORY AGENCY

| Waste Unit Name | Waste Unit Aliases  | Unit Type         | Status |
|-----------------|---|-------------------|--------|
| 200-CW-1        | (continued)   |                   |        |
| 216-B-2-3       | 216-B-2-3, B Pond Ditch, B Swamp Ditch,<br>216-B-2-2E   | Ditch             |        |
| 216-B-3**       | 216-B-3, B Pond, B-3 Pond, B Swamp, 216-B-3<br>Swamp, B Plant Swamp   | Pond              |        |
| 216-B-3-1       | 216-B-3-1, B Swamp Ditch, 216-B-2, 216-B-3<br>Ditch   | Ditch             |        |
| 216-B-3-2       | 216-B-3-2, 216-B Ditch, 216-B-1 Ditch, B Swamp<br>Ditch, 216-B-2-2E   | Ditch             |        |
| 216-B-3-3**     | 216-B-3-3, B Swamp Ditch, 216-B-3-3 Ditch   | Ditch             |        |
| 216-B-3A RAD    | 216-B-3A RAD, 216-B-3A Expansion Lobe<br>Residual Radioactive Waste, 216-B-3 1st<br>Overflow Pond   | Pond              |        |
| 216-B-3B RAD    | 216-B-3B RAD, 216-B-3B Expansion Lobe<br>Residual Radioactive Waste   | Pond              |        |
| 216-B-3C RAD    | 216-B-3C RAD, 216-B-3C Expansion Lobe<br>Residual Radioactive Waste   | Pond              |        |
| 216-B-59        | 216-B-59, 216-B-58 Trench, 216-B-58 Ditch   | Trench            |        |
| 216-B-59B       | 216-B-59B, 216-B-59 Retention Basin   | Retention Basin   |        |
| 216-C-9         | 216-C-9, 216-C-7 Swamp, Former 221-C Canyon<br>Excavation, 216-C-9 Swamp, Semi-Works<br>Swamp, 216-C-9 C Canyon Excavation<br>Semiworks Swamp | Pond              |        |
| 200-E PD        | 200-E PD 200-E Powerhouse Ditch, 200 East<br>Powerhouse Pond  | Ditch             |        |
| 216-N-8         | 216-N-8, West Lake, West Pond, 216-N-8 Pond,<br>Honeyhill Pond, Seepage Pond  | Pond              |        |
| UPR-200-E-14    | UPR-200-E-14, UN-200-E-14, 216-B-3 Pond Dike<br>Break   | Unplanned Release |        |
| UPR-200-E-32    | UPR-200-E-32, UN-200-E-32, Coil Leak from<br>221-B  | Unplanned Release |        |

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Listing by Operable Unit. (Sheet 46 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| Waste Unit Name             | Waste Unit Aliases  | Unit Type         | Status |
|-----------------------------|---|-------------------|--------|
| <b>200-CW-1</b> (continued) |   |                   |        |
| UPR-200-E-34                | UPR-200-E-34, Liquid Release to B-Pond and Gable Pond, UN-200-E-34                                | Unplanned Release |        |
| UPR-200-E-51                | UPR-200-E-51, Liquid Release from Purex to B-Pond, UN-200-E-51                                    | Unplanned Release |        |
| UPR-200-E-66                | UPR-200-E-66, 216-A-42 Basin Contamination Release, UN-216-E-66, UN-200-E-66                      | Unplanned Release |        |
| UPR-200-E-94                | UPR-200-E-94, Vehicle Decontamination Area, UN-216-E-22, UN-200-E-94                              | Unplanned Release |        |
| UPR-200-E-138               | UPR-200-E-138, Liquid release from B-Plant, UN-200-E-138, UPR-200-W-66, UN-216-W-66               | Unplanned Release |        |
| <b>200-CW-2</b>             | <b>EPA</b>  | <b>CPP</b>        |        |
| 207-S                       | 207-S, REDOX Retention Basin, 207-S Retention Basin   | Retention Basin   |        |
| 216-S-16D                   | 216-S-16D, 202-S Swamp (New) and Ditch, 202-S Swamp #1, REDOX Pond #2, 216-S-24 Ditch             | Ditch             |        |
| 216-S-16P                   | 216-S-16P, 202-S Swamp and Ditch, 202-S Swamp #1, REDOX Pond #2                                   | Pond              |        |
| 216-S-17                    | 216-S-17, 202-S Swamp, 202-S REDOX Swamp, 216-S-1 REDOX Pond No. 1, REDOX Swamp, 216-S-1          | Pond              |        |
| 216-S-172                   | 216-S-172, 216-S-172 Weir Box and Control Structure, 2904-S-172 Weir, 216-S-172 Control Structure | Control Structure |        |
| 2904-S-160                  | 2904-S-160, 2904-S-160 Control Structure, 2904-S-160 Weir   | Control Structure |        |
| 2904-S-170                  | 2904-S-170, 2904-S-170 Weir Box, 2904-S-170 Control Structure                                     | Control Structure |        |

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Listing by Operable Unit. (Sheet 47 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b>      | <b>Waste Unit Aliases</b>   | <b>Unit Type</b>  | <b>Status</b>  |
|-----------------------------|---|-------------------|--|
| <b>200-CW-2</b> (continued) |   |                   |  |
| 2904-S-171                  | 2904-S-171, 2904-S-171 Weir Box, 2904-S-171 Control Structure   | Control Structure |  |
| UPR-200-W-13                | UPR-200-W-13, Liquid Release from REDOX to 207-S and 216-S-17 Pond, UN-200-W-13                       | Unplanned Release |  |
| UPR-200-W-15                | UPR-200-W-15, Liquid Release from REDOX to 207-S and 216-S-17 Pond, UN-200-W-15                       | Unplanned Release |  |
| UPR-200-W-47                | UPR-200-W-47, 216-S-16P Dike Release, UN-200-W-47   | Unplanned Release |  |
| UPR-200-W-59                | UPR-200-W-59, Contaminated Liquid Released to 216-S-16P   | Unplanned Release |  |
| UPR-200-W-95                | UPR-200-W-95, UN-216-W-2, 207-S Retention Basin   | Unplanned Release |  |
| <b>200-CW-3</b>             | <b>EPA</b>  | <b>CPP</b>        |  |
| 216-N-1                     | 216-N-1, 212-N Swamp, 216-N-1 Swamp, 216-N-1 Covered Pond   | Pond              | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 216-N-2                     | 216-N-2, 212-N Storage Basin Crib #1, 212-N #1 Trench, 216-N-1 Trench, 216-N-2 Trench                 | Trench            | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 216-N-3                     | 216-N-3, 212-N Storage Basin Crib #2, 212-N #2 Trench, 212-N #2 Grave, 212-N-2 Trench, 212-N-3 Trench | Trench            | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 216-N-4                     | 216-N-4, 216-N-2, 216-N-4 Swamp, 212-P Swamp  | Pond              | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 216-N-5                     | 216-N-5, 212-P Storage Basin Crib, 212-P Trench, 212-P Grave, 216-N-5 Trench                          | Trench            | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 216-N-6                     | 216-N-6, 212-R Swamp, 216-N-6 Swamp   | Pond              | Interim Record of Decision, 100 Area Remaining Sites (1999)† |
| 216-N-7                     | 216-N-7, 212-R Storage Basin Crib, 212-R Trench, 212-R Grave, 216-N-7 Trench                          | Trench            | Interim Record of Decision, 100 Area Remaining Sites (1999)† |

**Appendix C**

Listing by Operable Unit. (Sheet 48 of 85)

| <b>OPERABLE UNIT</b>   | <b>LEAD REGULATORY AGENCY</b>  |                  |               |
|------------------------|--|------------------|---------------|
| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>  | <b>Unit Type</b> | <b>Status</b> |
| <b>200-CW-4</b>        | <b>EPA</b>   | <b>CPP</b>       |               |
| 207-T                  | 207-T, T Plant Retention Basin, 207-T, 207-T Retention Basin   | Retention Basin  |               |
| 216-T-1                | 216-T-1, 221-T Ditch, 221-T Trench, 216-T-1 Trench   | Ditch            |               |
| 216-T-4-1D             | 216-T-4-1D, 216-T-4 Ditch, 216-T-4 Swamp   | Ditch            |               |
| 216-T-4-2              | 216-T-4-2, 216-T-4-2 Ditch   | Ditch            |               |
| 216-T-4A               | 216-T-4A, 216-T-4 Swamp, 216-T-4-1 (P), 216-T-4-1 Pond   | Pond             |               |
| 216-T-4B               | 216-T-4B, 216-T-4 New Pond, 216-T-4-2 (P), 216-T-4-2 Pond  | Pond             |               |
| 216-T-12               | 216-T-12, 207-T Sludge Grave, 207-T Sludge Pit, 216-T-11   | Trench           |               |
| <b>200-CW-5</b>        | <b>EPA</b>   | <b>CPP</b>       |               |
| 207-U*                 | 207-U, 207-U Retention Basin.  | Retention Basin  |               |
| 216-U-9                | 216-U-9, U Swamp-S Swamp Ditch, 216-U-6  | Ditch            |               |
| 216-U-10               | 216-U-10, U Swamp, 216-U-1, 216-U-10 Pond, 231 Swamp   | Pond             |               |
| 216-U-11               | 216-U-11, U Swamp Extension Ditch, 216-U-12, 216-U-11 Trench, 216-U-11 Ditch, 216-U-11 (old ditch), 216-U-11 (new ditch) | Ditch            |               |
| 216-U-14               | 216-U-14, 216-U-14 Ditch, Laundry Ditch  | Ditch            |               |
| 216-Z-1D               | 216-Z-1D, 216-Z-1, Drain Ditch to U Swamp, Z Plant Ditch   | Ditch            |               |
| 216-Z-11               | 216-Z-11, 216-Z-11 Ditch, Z Plant Ditch  | Ditch            |               |
| 216-Z-19               | 216-Z-19, 216-U-10 Ditch, Z Plant Ditch, 216-Z-19 Ditch  | Ditch            |               |
| 216-Z-20               | 216-Z-20, Z-19 Ditch Replacement Tile Field  | Crib             |               |

**Appendix C**

Listing by Operable Unit. (Sheet 49 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b>      | <b>Waste Unit Aliases</b>  | <b>Unit Type</b>  | <b>Status</b> |
|-----------------------------|--|-------------------|---------------|
| <b>200-CW-5 (continued)</b> |  |                   |               |
| UPR-200-W-18                | UPR-200-W-18, Liquid Release to 216-U-9  | Unplanned Release |               |
| UPR-200-W-104               | UPR-200-W-104, UN-216-W-14, 216-U-10 Pond Leach Trench, U Pond Fingers         | Unplanned Release |               |
| UPR-200-W-105               | UPR-200-W-105, UN-216-W-15, 216-U-10 Pond Leach Trench                         | Unplanned Release |               |
| UPR-200-W-106               | UPR-200-W-106, UN-216-W-16, 216-U-10 Pond Leach Trench                         | Unplanned Release |               |
| UPR-200-W-107               | UPR-200-W-107, UN-216-W-17, 216-U-10 Pond Flood Plain                          | Unplanned Release |               |
| UPR-200-W-111               | UPR-200-W-111, Sludge Trench at 207-U, UN-216-W-21                             | Unplanned Release |               |
| UPR-200-W-112               | UPR-200-W-112, Sludge Trench at 207-U, UN-216-W-22                             | Unplanned Release |               |
| UPR-200-W-139               | UPR-200-W-139, Liquid Release to the 216-U-9 Ditch, UN-200-W-139, UPR-200-W-18 | Unplanned Release |               |
| <b>200-IS-1 Ecology</b>     |  | <b>RPP</b>        |               |
| 241-A-151*                  | 241-A-151, 241-A-151 Diversion Box   | Diversion Box     |               |
| 241-A-302A*                 | 241-A-302A, 241-A-302-A Catch Tank   | Catch Tank        |               |
| 241-A-302B                  | 241-A-302B, 241-A-302-B Catch Tank   | Catch Tank        |               |
| 241-B-154**                 | 241-B-154, 241-B-154 Diversion Box   | Diversion Box     |               |
| 241-B-302B                  | 241-B-302B, 241-B-302-B Catch Tank, 241-B-302                                  | Catch Tank        |               |
| 241-BX-154**                | 241-BX-154, 241-BX-154 Diversion Box   | Diversion Box     |               |
| 241-BX-155**                | 241-BX-155, 241-BX-155 Diversion Box   | Diversion Box     |               |
| 241-BX-302B                 | 241-BX-302B, 241-BX-302-B Catch Tank   | Catch Tank        |               |
| 241-BX-302C                 | 241-BX-302C, 241-BX-302-C Catch Tank   | Catch Tank        |               |
| 241-C-154**                 | 241-C-154, 241-C-154 Diversion Box   | Diversion Box     |               |

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Listing by Operable Unit. (Sheet 50 of 85)

## OPERABLE UNIT LEAD REGULATORY AGENCY

| Waste Unit Name | Waste Unit Aliases  | Unit Type           | Status |
|-----------------|---|---------------------|--------|
| <b>200-IS-1</b> | (continued)   |                     |        |
| 241-CX-70**     | 241-CX-70, 241-CX-TK-70 Tank, Strontium Hot Semi-works  | Storage Tank        |        |
| 241-CX-71**     | 241-CX-71, 241-CX-TK-71, 241-CX Neutralization Tank, Strontium Hot Semi-works                                     | Neutralization Tank |        |
| 241-CX-72**     | 241-CX-72, 241-CX-TK-72 Vault and Tank, 241-CX-72 Waste Self Concentrator, Strontium Hot Semi-works               | Storage Tank        |        |
| 241-ER-151*     | 241-ER-151, 241-ER-151 Diversion Box  | Diversion Box       |        |
| 241-ER-152*     | 241-ER-152, 241-ER-152 Diversion Box  | Diversion Box       |        |
| 241-ER-311*     | 241-ER-311, 241-ER-311 Catch Tank   | Catch Tank          |        |
| 241-ER-311A     | 241-ER-311A, 241-ER-311A Catch Tank, old 241-ER-311   | Catch Tank          |        |
| 240-S-151**     | 240-S-151, 240-S-151 Diversion Box  | Diversion Box       |        |
| 240-S-152**     | 240-S-152, 240-S-152 Diversion Box  | Diversion Box       |        |
| 240-S-302       | 240-S-302, 240-S-302 Catch Tank   | Catch Tank          |        |
| 276-S-141**     | 276-S-141, 276-S-TK-141, 276-S-306A, 276-S-141 Solvent Storage Tank, Tank 276-141, Hexone Storage Tank, 244-SX-15 | Storage Tank        |        |
| 276-S-142**     | 276-S-142, 276-S-TK-142, 276-S-306B, 276-S-142 Solvent Storage Tank, Tank 276-142, Hexone Storage Tank, 244-SX-15 | Storage Tank        |        |
| 241-SX-302      | 241-SX-302, 241-SX-302 Catch Tank, SX-304   | Catch Tank          |        |
| 241-TX-152*     | 241-TX-152, 241-TX-152 Diversion Box  | Diversion Box       |        |
| 241-TX-154*     | 241-TX-154, 241-TX-154 Diversion Box  | Diversion Box       |        |
| 241-TX-155**    | 241-TX-155, 241-TX-155 Diversion Box  | Diversion Box       |        |
| 241-TX-302B     | 241-TX-302B, 241-TX-302-B Catch Tank  | Catch Tank          |        |

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**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>  | <b>Unit Type</b>    | <b>Status</b> |
|------------------------|--|---------------------|---------------|
| <b>200-IS-1</b>        | (continued)  |                     |               |
| 241-TX-302BR           | 241-TX-302BR, 241-TX-302BR Catch Tank,<br>241-TXR-302BR  | Catch Tank          |               |
| 241-TX-302C*           | 241-TX-302C, 241-TX-302-C Catch Tank   | Catch Tank          |               |
| 216-TY-201             | 216-TY-201, Supernatant Disposal Flush Tank  | Settling Tank       |               |
| 241-U-151*             | 241-U-151, 241-U-151 Diversion Box   | Diversion Box       |               |
| 241-U-152*             | 241-U-152, 241-U-152 Diversion Box   | Diversion Box       |               |
| 241-UX-154*            | 241-UX-154, 241-UX-154 Diversion Box   | Diversion Box       |               |
| 241-UX-302A*           | 241-UX-302A, 241-U-302 Catch Tank,<br>241-UX-302 Catch Tank, 241-UX-302  | Catch Tank          |               |
| 200-W-7                | 200-W-7, 246-L, 243S-TK-1, 243-S-TK1   | Catch Tank          |               |
| 200-W-16               | 200-W-16, 292-T Underground Tanks  | Storage Tank        |               |
| 200-W-58               | 200-W-58, Z-Plant Diversion Box #1   | Diversion Box       |               |
| 200-W-59               | 200-W-59, Z-Plant Diversion Box #2   | Diversion Box       |               |
| 241-WR VAULT           | 241-WR VAULT, 241-WR Vault (Tanks -001<br>through -009), 241-WR Diversion Station Vault,<br>244-WR Vault   | Receiving Vault     |               |
| 241-Z**                | 241-Z, 241-Z Treatment and Storage Tanks,<br>241-Z Tank Farm, 241-Z Treatment and Storage<br>System, 241-Z-D-4, 241-Z-D-5, 241-Z-D-7,<br>241-Z-D-8, 241-Z Sump, 241-Z Tank Pit | Neutralization Tank |               |
| HSVP                   | HSVP, Hot Semiworks Valve Pit, 201-C<br>Diversion Box, Semiworks Valve Pit   | Valve Pit           |               |
| UPR-200-E-1            | UPR-200-E-1, Waste Line Failure on South Side<br>of 221-B  | Unplanned Release   |               |
| UPR-200-E-3            | UPR-200-E-3, Line leak from 221-B to<br>241-BX-154, UN-200-E-3   | Unplanned Release   |               |
| UPR-200-E-25           | UPR-200-E-25, Contamination Spread from the<br>241-A-151 Diversion Box, UN-200-E-25  | Unplanned Release   |               |

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Listing by Operable Unit. (Sheet 52 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>  | <b>Unit Type</b>  | <b>Status</b> |
|------------------------|--|-------------------|---------------|
| <b>200-IS-1</b>        | <b>(continued)</b>   |                   |               |
| UPR-200-E-26           | UPR-200-E-26, 241-A-151 Release, UN-200-E-26   | Unplanned Release |               |
| UPR-200-E-31           | UPR-200-E-31, 241-A-151 Release, UN-200-E-31   | Unplanned Release |               |
| UPR-200-E-41           | UPR-200-E-41, UN-200-E-41 Soil Contamination in the Vicinity of R-13 Stairwell (221-B), UPR-200-E-85 | Unplanned Release |               |
| UPR-200-E-42           | UPR-200-E-42, 241-AX-151 Release, UN-200-E-42  | Unplanned Release |               |
| UPR-200-E-44           | UPR-200-E-44, UN-200-E-44, Waste Line Leak South of 221-B  | Unplanned Release |               |
| UPR-200-E-45           | UPR-200-E-45, UN-200-E-45, Contamination Spread from the 241-B-154 Diversion Box                     | Unplanned Release |               |
| UPR-200-E-65           | UPR-200-E-65, UN-216-E-65, 241-A-151 Diversion Box Radioactive Contamination, UN-200-E-65            | Unplanned Release |               |
| UPR-200-E-67           | UPR-200-E-67, UN-216-E-67, Radioactively Contaminated Pipe Encasement, UN-200-E-67                   | Unplanned Release |               |
| UPR-200-E-77           | UPR-200-E-77, UN-216-E-5, 241-B-154 Diversion Box Ground Contamination, UN-200-E-77                  | Unplanned Release |               |
| UPR-200-E-78           | UPR-200-E-78, UN-216-E-6, 241-BX-155 Diversion Box ground contamination, UN-200-E-78                 | Unplanned Release |               |
| UPR-200-E-80           | UPR-200-E-80, UN-216-E-8, 221-B R-3 Line Break, R-3 Radiation Zone, UN-200-E-80                      | Unplanned Release |               |
| UPR-200-E-84           | UPR-200-E-84, 241-ER-151 Catch Tank Leak, UN-200-E-84, UN-216-E-12                                   | Unplanned Release |               |
| UPR-200-E-85           | UPR-200-E-85, Line Leak at 221-B Stairwell R-13, UN-216-E-13, UPR-200-E-41, UN-200-E-85, UN-200-E-41 | Unplanned Release |               |

**Appendix C**

Listing by Operable Unit. (Sheet 53 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>  | <b>Unit Type</b>  | <b>Status</b> |
|------------------------|--|-------------------|---------------|
| <b>200-IS-1</b>        | (continued)  |                   |               |
| UPR-200-E-87           | UPR-200-E-87, UN-216-E-15, 224-B South Side Plutonium Ground Contamination, UN-200-E-87, 216-E-15                | Unplanned Release |               |
| UPR-200-E-96           | UPR-200-E-96, Ground Contamination SE of PUREX, UN-216-E-24, UN-200-E-96   | Unplanned Release |               |
| UPR-200-E-117          | UPR-200-E-117, Contaminated Liquid Spill, UN-200-E-117   | Unplanned Release |               |
| UPR-200-W-2            | UPR-200-W-2, UN-200-W-2, Underground Waste Line Leak   | Unplanned Release |               |
| UPR-200-W-5            | UPR-200-W-5, Overflow at 241-TX-155, UN-200-W-5  | Unplanned Release |               |
| UPR-200-W-6            | UPR-200-W-6, UN-200-W-6, Contamination Spread from 241-U-151 and 152 Diversion Boxes                             | Unplanned Release |               |
| UPR-200-W-21           | UPR-200-W-21, UN-200-W-21, Ground Contamination at 241-TX-154 Diversion Box                                      | Unplanned Release |               |
| UPR-200-W-27           | UPR-200-W-27, Transfer Line Leak, UN-200-W-27  | Unplanned Release |               |
| UPR-200-W-28           | UPR-200-W-28, Release from 241-TX-155 Diversion Box, UN-200-W-28   | Unplanned Release |               |
| UPR-200-W-29           | UPR-200-W-29, Transfer Line Leak, UN-200-W-29, UPR-200-W-27, UN-200-W-27, UN-216-W-5, 23rd and Camden Line Break | Unplanned Release |               |
| UPR-200-W-32           | UPR-200-W-32, UNH Transfer Line Break, UN-200-W-32   | Unplanned Release |               |
| UPR-200-W-33           | UPR-200-W-33, Ground Contamination at 224-U, UN-200-W-33   | Unplanned Release |               |
| UPR-200-W-35           | UPR-200-W-35, Ground Contamination Near UNH Process Line, UN-200-W-35, REDOX to 224-U UNH Line Leak              | Unplanned Release |               |

**Appendix C**

Listing by Operable Unit. (Sheet 54 of 85)

| <b>OPERABLE UNIT</b>   | <b>LEAD REGULATORY AGENCY</b>  |                   |               |
|------------------------|--|-------------------|---------------|
| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>  | <b>Unit Type</b>  | <b>Status</b> |
| <b>200-IS-1</b>        | (continued)  |                   |               |
| UPR-200-W-38           | UPR-200-W-38, Line Break at 241-TX-302,<br>UPR-200-W-160, UPR-200-W-40, UN-200-W-38,<br>216-T-30, UN-216-W-36, | Unplanned Release |               |
| UPR-200-W-40           | UPR-200-W-40, Line Break at<br>241-TX-154, UPR-200-W-38, UPR-200-W-160,<br>216-T-30, UN-200-W-40,              | Unplanned Release |               |
| UPR-200-W-49           | UPR-200-W-49, Contamination Southeast of<br>241-SX, UN-200-W-49  | Unplanned Release |               |
| UPR-200-W-64           | UPR-200-W-64, Road Contamination,<br>UN-200-W-64   | Unplanned Release |               |
| UPR-200-W-79           | UPR-200-W-79, Contamination Spread at 241-Z,<br>UN-200-W-79  | Unplanned Release |               |
| UPR-200-W-97           | UPR-200-W-97, Transfer Line Leak,<br>UN-216-W-5, UN-200-W-97   | Unplanned Release |               |
| UPR-200-W-98           | UPR-200-W-98, UN-216-W-6, 221-T Waste Line<br>Break at R-19, UN-200-W-98                                       | Unplanned Release |               |
| UPR-200-W-102          | UPR-200-W-102, UN-216-W-12, UN-200-W-102   | Unplanned Release |               |
| UPR-200-W-113          | UPR-200-W-113, Soil Contamination East of<br>241-TX, UN-216-W-23, UN-200-W-113                                 | Unplanned Release |               |
| UPR-200-W-114          | UPR-200-W-114, UN-216-W-24, Ground<br>Contamination East of 241-SX Tank Farm,<br>UN-200-W-114                  | Unplanned Release |               |
| UPR-200-W-115          | UPR-200-W-115, UN-216-W-25, Ground<br>Contamination Along Cooper Street  | Unplanned Release |               |
| UPR-200-W-131          | UPR-200-W-131, Release from 241-TX-155   | Unplanned Release |               |
| UPR-200-W-135          | UPR-200-W-135, Release from 241-TX-155,<br>UN-200-2-135  | Unplanned Release |               |
| UPR-200-W-160          | UPR-200-W-160, Line Break at 241-TX-302C,<br>UPR-200-W-38, UPR-200-W-40, 216-T-30                              | Unplanned Release |               |

**Appendix C**

Listing by Operable Unit. (Sheet 55 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b>      | <b>Waste Unit Aliases</b>   | <b>Unit Type</b>       | <b>Status</b> |
|-----------------------------|---|------------------------|---------------|
| <b>200-IS-1 (continued)</b> |   |                        |               |
| UPR-200-W-161               | UPR-200-W-161, UN-216-W-35, UN-200-W-161  | Unplanned Release      |               |
| UPR-200-W-164               | UPR-200-W-164, Overhead UNH Line Leak, UN-216-W-29                                  | Unplanned Release      |               |
| UPR-200-W-167               | UPR-200-W-167, Contamination Migration from 241-TY, UN-216-W-32                     | Unplanned Release      |               |
| UPR-600-20                  | UPR-600-20, UN-216-E-41, Cross Country Transfer Line                                | Unplanned Release      |               |
| <b>200-LW-1 Ecology</b>     |   | <b>RPP</b>             |               |
| 216-B-53A                   | 216-B-53A, 216-B-53A Trench, PRTR Trench  | Trench                 |               |
| 216-B-53B                   | 216-B-53B, 216-B-53 Trench, 216-B-53B Trench  | Trench                 |               |
| 216-B-54                    | 216-B-54, 216-B-54 Trench   | Trench                 |               |
| 216-B-58                    | 216-B-58, 216-B-58 Trench, 216-B-59 Crib  | Trench                 |               |
| 216-T-27                    | 216-T-27, 216-TY-2 Cavern, 216-TY-2 Crib, 216-TX-2 Cavern, 216-TX-2 Crib            | Crib                   |               |
| 216-T-28                    | 216-T-28, 216-TY-3 Cavern, 216-TY-3 Crib, 216-TX-3 Cavern, 216-TX-3 Crib            | Crib                   |               |
| 216-T-34                    | 216-T-34  | Crib                   |               |
| 216-T-35                    | 216-T-35  | Crib                   |               |
| <b>200-LW-2 Ecology</b>     |   | <b>RPP</b>             |               |
| 216-A-15                    | 216-A-15, Miscellaneous Stream #461   | French Drain           |               |
| 216-B-6                     | 216-B-6, 222-B-110 Reverse Well, 216-B-6 Dry Well, 216-B-6 Crib, 222-B-110 Dry Well | Injection/Reverse Well |               |
| 216-B-10A                   | 216-B-10A, 222-B-1 Crib, 216-B-10 Crib, 292-B                                       | Crib                   |               |
| 216-B-10B                   | 216-B-10B, 222-B-2 Crib, 216-B-10 Crib  | Crib                   |               |

**Appendix C**

Listing by Operable Unit. (Sheet 56 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| Waste Unit Name | Waste Unit Aliases   | Unit Type              | Status |
|-----------------|--|------------------------|--------|
| <b>200-LW-2</b> | (continued)  |                        |        |
| 216-S-19        | 216-S-19, 222-S Lab Swamp, 216-SL-1, REDOX Lab Swamp, 216-S-19 Pond              | Pond                   |        |
| 216-S-20        | 216-S-20, 216-SL-1&2 Crib, 216-SL-2  | Crib                   |        |
| 216-S-26        | 216-S-26, 216-S-19 Replacement Facility, 216-S-26 Crib                           | Crib                   |        |
| 207-SL*         | 207-SL, 222-S Retention Basin, REDOX Lab Retention Basin, 207-SL Retention Basin | Retention Basin        |        |
| 216-T-2         | 216-T-2, 222-T-110 Dry Well, 222-T Reverse Well                                  | Injection/Reverse Well |        |
| 216-T-8         | 216-T-8, 222-T-1 & 2 Cribs   | Crib                   |        |
| 216-U-4         | 216-U-4, 222-U Dry Well, 222-U-110 Dry Well, 216-U-2, 216-U-4 Dry Well           | Injection/Reverse Well |        |
| 216-U-4A        | 216-U-4A, 216-U-4 Reverse Well/4a French Drain, 216-U-4 Dry Well                 | French Drain           |        |
| 216-U-4B        | 216-U-4B, 216-U-4B Dry Well, 216-U-4B French Drain                               | French Drain           |        |
| 216-Z-7         | 216-Z-7, 231-W Crib, 231-W Trench, 216-Z-6                                       | Crib                   |        |
| 216-Z-16        | 216-Z-16   | Crib                   |        |
| 216-Z-17        | 216-Z-17, 216-Z-17 Ditch   | Trench                 |        |
| CTFN 2703-E     | CTFN 2703-E, Chemical Tile Field North of 2703-E                                 | Drain/Tile Field       |        |
| <b>200-MW-1</b> | <b>EPA</b>   | <b>CPP</b>             |        |
| 216-A-4         | 216-A-4, 216-A-4 Cavern  | Crib                   |        |
| 216-A-11        | 216-A-11 French Drain, Miscellaneous Stream #465                                 | French Drain           |        |
| 216-A-12        | 216-A-12, Miscellaneous Stream #463  | French Drain           |        |
| 216-A-13        | 216-A-13, 216-A-13 French Drain, Miscellaneous Stream #460                       | French Drain           |        |

**Appendix C**

Listing by Operable Unit. (Sheet 57 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>   | <b>Unit Type</b>       | <b>Status</b> |
|------------------------|---|------------------------|---------------|
| <b>200-MW-1</b>        | (continued)   |                        |               |
| 216-A-14               | 216-A-14, French Drain - Vacuum Cleaner Filter Pit, Miscellaneous Stream #462                     | French Drain           |               |
| 216-A-21               | 216-A-21  | Crib                   |               |
| 216-A-22               | 216-A-22, 216-A-22 French Drain, 216-A-22 Crib  | Crib                   |               |
| 216-A-26               | 216-A-26, 216-A-26 French Drain, 216-A-26B, Miscellaneous Stream #464                             | French Drain           |               |
| 216-A-26A              | 216-A-26A, 216-A-25 Crib, 216-A-26 French Drain, 291-A French Drain                               | French Drain           |               |
| 216-A-27               | 216-A-27  | Crib                   |               |
| 216-A-32               | 216-A-32  | Crib                   |               |
| 216-A-33               | 216-A-33, 216-A-33 Dry Well, 216-A-26B  | French Drain           |               |
| 216-A-35               | 216-A-35 French Drain, 216-A-35 Dry Well  | French Drain           |               |
| 216-A-38-1             | 216-A-38-1, 216-A-38 Crib   | Crib                   |               |
| 216-A-41               | 216-A-41  | Crib                   |               |
| 216-B-4                | 216-B-4, 216-B-4 French Drain, 216-B-4 Dry Well   | Injection/Reverse Well |               |
| 216-B-13               | 216-B-13, 216-B-13 French Drain, 291-B Crib, 216-B-B, 216-B-13 Crib                               | French Drain           |               |
| 216-B-56               | 216-B-56  | Crib                   |               |
| 216-B-61               | 216-B-61, 216-B-61 Crib   | Crib                   |               |
| 216-C-2                | 216-C-2, 291-C Dry Well, 216-C-2 Dry Well   | Injection/Reverse Well |               |
| 2704-C-WS-1            | 2704-C-WS-1, 2704-C French Drain, Gatehouse French Drain  | French Drain           |               |
| 200-E-4*               | 200-E-4, Critical Mass Laboratory Dry Well North, 209-E North Dry Well, Miscellaneous Stream #730 | French Drain           |               |

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Listing by Operable Unit. (Sheet 58 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b>      | <b>Waste Unit Aliases</b>   | <b>Unit Type</b>       | <b>Status</b> |
|-----------------------------|---|------------------------|---------------|
| <b>200-MW-1</b> (continued) |   |                        |               |
| 209-E-WS-1                  | 209-E-WS-1, 209-E French Drain  | French Drain           |               |
| 209-E-WS-2                  | 209-E-WS-2, Critical Mass Lab French Drain  | French Drain           |               |
| 299-E24-111                 | 299-E24-111, Experimental Test Well Site  | Injection/Reverse Well |               |
| 2718-E-WS-1*                | 2718-E-WS-1, 2718 French Drain  | French Drain           |               |
| 216-S-12                    | 216-S-12, UPR-200-W-30, 291-S Stack Wash Sump, REDOX Stack Flush Trench   | Trench                 |               |
| 216-S-18                    | 216-S-18, 241-SX Steam Cleaning Pit, 216-S-14 Steam Cleaning Pit  | Trench                 |               |
| 216-SX-2                    | 216-SX-2 Crib   | Crib                   |               |
| 216-T-9                     | 216-T-9, Decontamination Trenches, Equipment Decontamination Area   | Trench                 |               |
| 216-T-10                    | 216-T-10, Decontamination Trenches, Equipment Decontamination Area  | Trench                 |               |
| 216-T-11                    | 216-T-11, Decontamination Trenches, Equipment Decontamination Area  | Trench                 |               |
| 216-T-13                    | 216-T-13, 269-W Regulated Garage, 269-W Decontamination Pit or Trench, 216-T-12, 269-W Regulated Garage Decontamination Pit | Trench                 |               |
| 216-T-29                    | 216-T-29, 291-T Sand Filter Sewer, 216-T-29 French Drain  | French Drain           |               |
| 216-T-31                    | 216-T-31  | French Drain           |               |
| 216-T-33                    | 216-T-33  | Crib                   |               |
| 216-U-3                     | 216-U-3, 216-U-11, 216-U-3 French Drain   | French Drain           |               |
| 216-U-7                     | 216-U-7, 221-U Vessel Vent Blower Pit French Drain  | French Drain           |               |
| 216-U-13                    | 216-U-13, 216-U-13 Cribs, 216-U-13, 241-UR Steam Cleaning Pit   | Trench                 |               |
| 200-W PP                    | 200-W PP, 200-W Powerhouse Pond, 200 West Powerhouse Ponds, 284-W-B   | Pond                   |               |

**Appendix C**

Listing by Operable Unit. (Sheet 59 of 85)

| <b>OPERABLE UNIT</b>   | <b>LEAD REGULATORY AGENCY</b>  |                   |               |
|------------------------|--|-------------------|---------------|
| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>  | <b>Unit Type</b>  | <b>Status</b> |
| <b>200-MW-1</b>        | (continued)  |                   |               |
| 216-Z-13*              | 216-Z-13, 234-5 Dry Well #1, 216-Z-13 Dry Well   | French Drain      |               |
| 216-Z-14*              | 216-Z-14, 234-5 Dry Well #2, 216-Z-14 Dry Well   | French Drain      |               |
| 216-Z-15*              | 216-Z-15, 234-5 Dry Well #3, 216-Z-15 Dry Well   | French Drain      |               |
| 216-Z-21               | 216-Z-21, 216-Z-21 Seepage Basin, PFP Cold Waste Pond  | Pond              |               |
| 616-WS-1*              | 616-WS-1, 616 NDWSF French Drain   | French Drain      |               |
| UPR-200-E-13           | UPR-200-E-13, Overflow from 216-A-4, UN-200-E-13, UPR-200-E-15   | Unplanned Release |               |
| UPR-200-E-15           | UPR-200-E-15, Overflow at 216-A-4, UN-200-E-15, UPR-200-E-13   | Unplanned Release |               |
| UPR-200-E-17           | UPR-200-E-17, Overflow at 216-A-22, UN-200-E-17  | Unplanned Release |               |
| UPR-200-W-30           | UPR-200-W-30, 216-S-12, UN-200-W-30  | Trench            |               |
| UPR-200-W-138          | UPR-200-W-138, 221-U Vessel Vent Blower Pit French Drain, UN-216-W-11, UN-200-W-138, UN-200-W-22, UPR-200-W-22 | Unplanned Release |               |
| <b>200-PW-1</b>        | <b>EPA</b>   | <b>CPP</b>        |               |
| 216-T-19               | 216-T-19, 241-TX-153 Crib and Tile Field, 216-TX-1, 241-TX-3, 216-T-19TF                                       | Crib              |               |
| 216-Z-1&2              | 216-Z-1&2, 234-5 No. 1 Crib, 216-Z-7, 234-5 No. 2 Crib, 216-Z-1 & 2TF, 216-Z-1 and 216-Z-2 Cribs               | Crib              |               |
| 216-Z-1A               | 216-Z-1A, 216-Z-1A Tile Field, 216-Z-7, 234-5 Tile Field, 216-Z-1AA, 216-Z-1AB, 216-Z-1AC                      | Drain/Tile Field  |               |
| 216-Z-3                | 216-Z-3, 216-Z-3 Culvert, 216-Z-8, 234-5 No. 3 & 4 Cribs   | Crib              |               |

**Appendix C**

Listing by Operable Unit. (Sheet 60 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>   | <b>Unit Type</b>  | <b>Status</b> |
|------------------------|---|-------------------|---------------|
| <b>200-PW-1</b>        | (continued)   |                   |               |
| 216-Z-9                | 216-Z-9, 216-Z-9 Cavern, 234-5 Recuplex Cavern,<br>216-Z-10, 216-Z-9 Crib, 216-Z-9 Trench | Trench            |               |
| 216-Z-12               | 216-Z-12, 241-Z-12 Crib   | Crib              |               |
| 216-Z-18               | 216-Z-18, 216-Z-18 Crib   | Crib              |               |
| 241-Z-361              | 241-Z-361, 241-Z-361 Settling Tank  | Settling Tank     |               |
| UPR-200-W-103          | UPR-200-W-103, 216-Z-18 Line Break,<br>UN-216-W-13, UN-200-W-103                          | Unplanned Release |               |
| UPR-200-W-110          | UPR-200-W-110, Contaminated Soil at 216-Z-1,<br>UN-216-W-20 Spoil Trench                  | Trench            |               |
| <b>200-PW-2</b>        | <b>Ecology</b>  | <b>RPP</b>        |               |
| 216-A-1                | 216-A-1, 216-A-1 Cavern, 216-A-1 Trench   | Crib              |               |
| 216-A-3                | 216-A-3, 216-A-3 Cavern, 216-A-3 Crib   | Crib              |               |
| 216-A-5                | 216-A-5, 216-A-5 Cavern   | Crib              |               |
| 216-A-10**             | 216-A-10, 216-A-10 Crib   | Crib              |               |
| 216-A-18               | 216-A-18, 216-A-18 Excavation, 216-A-18 Grave,<br>216-A-18 Sump, 216-A-18 Crib            | Trench            |               |
| 216-A-19               | 216-A-19, 216-A-19 Test Hole, 216-A-19 Grave,<br>216-A-19 Sump, 216-A-19 Crib             | Trench            |               |
| 216-A-20               | 216-A-20, 216-A-20 Test Hole, 216-A-20 Grave,<br>216-A-20 Sump, 216-A-20 Crib             | Trench            |               |
| 216-A-28               | 216-A-28, 216-A-28 French Drain, 216-A-28 Crib  | Crib              |               |
| 216-A-36A              | 216-A-36A, 216-A-36 Crib  | Crib              |               |
| 216-A-36B**            | 216-A-36B, 216-A-36 Crib, Purex Ammonia<br>Scrubber Distillate (ASD)                      | Crib              |               |
| 216-B-12               | 216-B-12, 216-ER Crib, 216-ER-1,2,3 Cribs   | Crib              |               |
| 216-B-60               | 216-B-60, 216-B-60 Crib   | Crib              |               |

**Appendix C**

Listing by Operable Unit. (Sheet 61 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b>      | <b>Waste Unit Aliases</b>  | <b>Unit Type</b>    | <b>Status</b> |
|-----------------------------|--|---------------------|---------------|
| <b>200-PW-2</b> (continued) |  |                     |               |
| 216-C-1                     | 216-C-1, 216-C-1 Crib, 216-C Crib  | Crib                |               |
| 270-E-1                     | 270-E-1, 270--E CNT, 270-E Condensate Neutralization Tank, 216-ER-1  | Neutralization Tank |               |
| 216-S-1&2                   | 216-S-1&2, 216-S-5 Crib, 216-S-1 & 2   | Crib                |               |
| 216-S-7                     | 216-S-7, 216-S-7 Crib 216-S-15   | Crib                |               |
| 216-S-8                     | 216-S-8, Cold Aqueous Trench, Cold Aqueous Crib, 216-S-3, Unirradiated Uranium Waste Trench, Cold Aqueous Grave                    | Trench              |               |
| 216-U-1&2                   | 216-U-1&2, 361-WR (Crib 2), 216-U-3, 216-UR #1&2 Cribs, 216-U-1 & 2  | Crib                |               |
| 216-U-5                     | 216-U-5, 216-U-4, 221-U Cold U Trench #2   | Trench              |               |
| 216-U-6                     | 216-U-6, U Facility Unirradiated Uranium Waste Trench, 221-U Cold U Trench, 216-U Cold U Trench #1, 216-U-5, 221-U Cold U Grave #1 | Trench              |               |
| 216-U-8                     | 216-U-8, 216-WR-1,2,3 Cribs, 216-U-9   | Crib                |               |
| 216-U-12**                  | 216-U-12, 216-U-12 Crib  | Crib                |               |
| 241-U-361                   | 241-U-361, 241-U-361 Settling Tank, 361-U-TANK   | Settling Tank       |               |
| 270-W                       | 270-W, 270-W Tank, 270-W Neutralization Tank   | Neutralization Tank |               |
| UPR-200-E-39                | UPR-200-E-39, Release from 216-A-36B Crib Sampler (295-A), UN-200-E-39   | Unplanned Release   |               |
| UPR-200-E-40                | UPR-200-E-40, Release from the 216-A-36B Crib Sampler, UN-200-E-40   | Unplanned Release   |               |
| UPR-200-E-64                | UPR-200-E-64, Radioactive Soil and Ant Hills, UN-200-E-64, UN-216-E-36   | Unplanned Release   |               |
| UPR-200-W-19                | UPR-200-W-19, 241-U-361 Overflow, UN-200-W-19  | Unplanned Release   |               |

**Appendix C**

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**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b>      | <b>Waste Unit Aliases</b>   | <b>Unit Type</b>  | <b>Status</b> |
|-----------------------------|---|-------------------|---------------|
| <b>200-PW-2 (continued)</b> |   |                   |               |
| UPR-200-W-36                | UPR-200-W-36, Groundwater Contamination at 216-S-1 and 216-S-2  | Unplanned Release |               |
| UPR-200-W-163               | UPR-200-W-163, Contaminated Vegetation at the 216-U-8 Pipeline, UN-216-W-33   | Unplanned Release |               |
| <b>200-PW-3 EPA CPP</b>     |   |                   |               |
| 216-A-2                     | 216-A-2, 216-A-2 Cavern   | Crib              |               |
| 216-A-7                     | 216-A-7, 216-A-7 Cavern   | Crib              |               |
| 216-A-8                     | 216-A-8, 216-A-8 Crib   | Crib              |               |
| 216-A-24                    | 216-A-24  | Crib              |               |
| 216-A-31                    | 216-A-31 Crib   | Crib              |               |
| 216-A-524                   | 216-A-524, 216-A-524 Control Structure, 216-A-524 Weir  | Control Structure |               |
| 216-C-4                     | 216-C-4, 216-C-4 Crib   | Crib              |               |
| 216-S-13                    | 216-S-13, 276-S Crib, 216-S-6   | Crib              |               |
| 216-S-14                    | 216-S-14, Buried Contaminated Hexone, Cold Organic Trench or Grave, 216-S-4 Burial Contaminated Hexone              | Trench            |               |
| 216-U-15                    | 216-U-15, UN-216-W-10, 388-U Tank Dumping, UPR-200-W-125, UN-200-W-158, U-152 Interface Crud Burial                 | Trench            |               |
| UPR-200-E-56                | UPR-200-E-56, 216-A-24 Crib Excavation, Excavated Contamination Adjacent to 216-A-24 Crib, UN-200-E-56, UN-216-E-33 | Unplanned Release |               |
| UPR-200-W-125               | UPR-200-W-125, 216-U-15, UN-200-W-125, UN-216-W-10  | Trench            |               |
| <b>200-PW-4 Ecology RPP</b> |   |                   |               |
| 207-A-SOUTH**               | 207-A-SOUTH, 207-A, 207-A Retention Basin, 207-A-SOUTH Retention Basin, 207-A South                                 | Retention Basin   |               |

**Appendix C**

Listing by Operable Unit. (Sheet 63 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>  | <b>Unit Type</b>  | <b>Status</b> |
|------------------------|--|-------------------|---------------|
| <b>200-PW-4</b>        | (continued)  |                   |               |
| 216-A-34               | 216-A-34, 216-A-34 Ditch, 216-A-34 Crib  | Ditch             |               |
| 216-A-37-1**           | 216-A-37-1, 216-A-37 Crib  | Crib              |               |
| 216-A-45               | 216-A-45, 216-A-45 Crib  | Crib              |               |
| 216-C-3                | 216-C-3, 201-C Leaching Pit, 216-C-3 Crib                                      | Crib              |               |
| 216-C-5                | 216-C-5, 216-C-5 Crib  | Crib              |               |
| 216-C-7                | 216-C-7, 216-C-7 Crib  | Crib              |               |
| 216-C-10               | 216-C-10, 216-C-10 Crib  | Crib              |               |
| 209-E-WS-3             | 209-E-WS-3, Critical Mass Laboratory Valve Pit and Hold Up Tank (209-E-TK-111) | Valve Pit         |               |
| 209-E-WS-3:1           | 209-E-WS-3:1, 209-E-TK-111 Hold Up Tank  |                   |               |
| 216-S-4                | 216-S-4, 216-S-7, 216-S-4 Sump or Crib, UN-216-W-1                             | French Drain      |               |
| 216-S-22               | 216-S-22, 216-S-22 Crib  | Crib              |               |
| 216-S-23               | 216-S-23, 216-S-23 Crib  | Crib              |               |
| 216-T-20               | 216-T-20, 155-TX, 216-TX-2, 216-T-20 Crib, Contaminated Acid Grave             | Trench            |               |
| 216-U-16               | 216-U-16, UO3 Crib   | Crib              |               |
| 216-U-17               | 216-U-17, 216-U-17 Crib  | Crib              |               |
| UPR-200-E-145          | UPR-200-E-145, W049H Green Soil, VCP Pipeline Leak                             | Unplanned Release |               |
| <b>200-PW-5</b>        | <b>EPA</b>   | <b>CPP</b>        |               |
| 216-B-11A&B            | 216-B-11A&B, 216-B-11 Crib, 242-B-1 Crib, 216-B-11A & B                        | French Drain      |               |
| 216-B-50               | 216-B-50, 216-BY-8 Crib, 216-BY-8 Cavern                                       | Crib              |               |
| 216-B-57               | 216-B-57, 216-B-57 Enclosed Trench, Hanford Prototype Barrier                  | Crib              |               |

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**OPERABLE UNIT LEAD REGULATORY AGENCY**

| Waste Unit Name | Waste Unit Aliases   | Unit Type              | Status |
|-----------------|--|------------------------|--------|
| <b>200-PW-5</b> | (continued)  |                        |        |
| 216-B-62        | 216-B-62, 216-B-62 Enclosed Trench, 216-B-62 Crib  | Crib                   |        |
| 216-C-6         | 216-C-6, 241-CX Crib   | Crib                   |        |
| 216-S-9         | 216-S-9  | Crib                   |        |
| 216-S-21        | 216-S-21, 216-SX-1, 216-SX-1 Cavern or Crib  | Crib                   |        |
| UPR-200-W-108   | UPR-200-W-108, Line leak at 216-S-9 Crib, UN-216-W-18, UN-200-W-108                                    | Unplanned Release      |        |
| UPR-200-W-109   | UPR-200-W-109, Waste Line Leak near 218-W-9, UN-216-W-19, UN-200-W-109                                 | Unplanned Release      |        |
| <b>200-PW-6</b> | <b>EPA</b>   | <b>CPP</b>             |        |
| 231-W-151       | 231-W-151, 231-W-151 Vault, 231-W-151-001 (Tank), 231-W-151-002 (Tank), 231-W-151 Sump, 231-Z-151 Sump | Receiving Vault        |        |
| 231-W-151:1     | 231-W-151:1, 231-W-151-001   |                        |        |
| 231-W-151:2     | 231-W-151:2, 231-W-151-002   |                        |        |
| 216-Z-4         | 216-Z-4, 231-W-3 Pit, 231-W-3 Sump, 231-W-3 Crib, 216-Z-3, 216-Z-4 Crib                                | Trench                 |        |
| 216-Z-5         | 216-Z-5, 231-W Sumps, 231-W-1 & 2 Cribs  | Crib                   |        |
| 216-Z-6         | 216-Z-6, 231-W-4 Crib, 231-Z-6, 216-W-4, 231-W "Trench" Crib, 216-Z-4, 216-Z-6 & 6A Crib               | Crib                   |        |
| 216-Z-8         | 216-Z-8, 234-5 Recuplex French Drain, 216-Z-9, 216-Z-8 Crib  | French Drain           |        |
| 216-Z-10        | 216-Z-10, 216-Z-2, 231-W Reverse Well, 231-W-150 Dry Well or Reverse Well                              | Injection/Reverse Well |        |
| 241-Z-8         | 241-Z-8, 241-Z-TK-8, Silica Slurry Tank, 216-Z-8   | Settling Tank          |        |
| UPR-200-W-130   | UPR-200-W-130, Line Leak at 231-W-151 Sump, UN-200-W-130   | Unplanned Release      |        |

**Appendix C**

Listing by Operable Unit. (Sheet 65 of 85)

| <b>OPERABLE UNIT</b>   | <b>LEAD REGULATORY AGENCY</b>  |                   |               |
|------------------------|--|-------------------|---------------|
| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>  | <b>Unit Type</b>  | <b>Status</b> |
| <b>200-SC-1</b>        | <b>EPA</b>   | <b>CPP</b>        |               |
| 207-A-NORTH            | 207-A-NORTH, 207-A, 207-A Retention Basin,<br>207-A-NORTH Retention Basin, 207-A North | Retention Basin   |               |
| 216-A-6                | 216-A-6, 216-A-6 Cavern  | Crib              |               |
| 216-A-30               | 216-A-30, 216-A-30 Crib  | Crib              |               |
| 216-A-37-2             | 216-A-37-2, 216-A-37-2 Crib  | Crib              |               |
| 216-B-55               | 216-B-55, 216-B-55 Enclosed Trench, 216-B-55<br>Crib                                   | Crib              |               |
| 216-B-64               | 216-B-64, 216-B-64 Retention Basin, 216-B-64<br>Trench, 216-B-64 Crib                  | Retention Basin   |               |
| 216-S-5                | 216-S-5, 216-S-5 Cavern #1, 216-S-6 Crib, 216-S-9                                      | Crib              |               |
| 216-S-6                | 216-S-6, 216-S-6 Cavern #2, 216-S-5 Crib,<br>216-S-13 Crib                             | Crib              |               |
| 216-S-25               | 216-S-25, 216-S-25 Crib  | Crib              |               |
| 216-T-36               | 216-T-36   | Crib              |               |
| 207-Z                  | 207-Z, 207-Z Retention Basin, 241-Z Retention<br>Basin, 241-Z-RB                       | Retention Basin   |               |
| UPR-200-E-19           | UPR-200-E-19, Contamination Release at<br>216-A-6 Sampler, UN-200-E-19                 | Unplanned Release |               |
| UPR-200-E-21           | UPR-200-E-21, 216-A-6 Overflow, UN-200-E-21  | Unplanned Release |               |
| UPR-200-E-29           | UPR-200-E-29, 216-A-6 Overflow, UN-200-E-29  | Unplanned Release |               |
| <b>200-ST-1</b>        | <b>Ecology</b>   | <b>RPP</b>        |               |
| 200-E-5                | 200-E-5, 2607-E2, 2607-E2 Septic Tank & Tile<br>Field                                  | Septic Tank       |               |

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**OPERABLE UNIT LEAD REGULATORY AGENCY**

| Waste Unit Name | Waste Unit Aliases   | Unit Type   | Status |
|-----------------|--|-------------|--------|
| <b>200-ST-1</b> | (continued)  |             |        |
| 200-E-6*        | 200-E-6, Septic Tank, Sanitary Sewer Repair and Replacement 2607-E4      | Septic Tank |        |
| 200-E-7         | 200-E-7, 2607-EO Septic Tank & Tile Field                                | Septic Tank |        |
| 200-E-9*        | 200-E-9, 2607-EN, 2727-E Septic System, 2607-EN Septic Tank/Pump Station | Septic Tank |        |
| 200-E-24*       | 200-E-24, 6607-11, 2704-HV Septic System                                 | Septic Tank |        |
| 2607-E1*        | 2607-E1  | Septic Tank |        |
| 2607-E3*        | 2607-E3  | Septic Tank |        |
| 2607-E4         | 2607-E4  | Septic Tank |        |
| 2607-E5*        | 2607-E5  | Septic Tank |        |
| 2607-E6*        | 2607-E6  | Septic Tank |        |
| 2607-E7A*       | 2607-E7A, 2607-E7  | Septic Tank |        |
| 2607-E7B*       | 2607-E7B, 2607-E7B Septic System, 2607-E7                                | Septic Tank |        |
| 2607-E8*        | 2607-E8  | Septic Tank |        |
| 2607-E9         | 2607-E9, 242B/BL Septic Tank   | Septic Tank |        |
| 2607-E11*       | 2607-E11   | Septic Tank |        |
| 2607-E12*       | 2607-E12, 2607-E12 Septic System   | Septic Tank |        |
| 2607-EA*        | 2607-EA, 2607-EA Septic Tank and Drywell                                 | Septic Tank |        |
| 2607-EC*        | 2607-EC  | Septic Tank |        |
| 2607-EE         | 2607-EE, 2607-EL   | Septic Tank |        |
| 2607-EH*        | 2607-EH  | Septic Tank |        |
| 2607-EK*        | 2607-EK  | Septic Tank |        |
| 2607-EL*        | 2607-EL, 2607-EL Septic Tank/Pump Station                                | Septic Tank |        |
| 2607-EM*        | 2607-EM  | Septic Tank |        |
| 2607-EP*        | 2607-EP  | Septic Tank |        |

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**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>  | <b>Unit Type</b> | <b>Status</b> |
|------------------------|--|------------------|---------------|
| <b>200-ST-1</b>        | (continued)  |                  |               |
| 2607-EQ*               | 2607-EQ  | Septic Tank      |               |
| 2607-ER*               | 2607-ER  | Septic Tank      |               |
| 2607-FSM*              | 2607-FSM, 609 Building Septic Tank 2607-FSM,<br>100 Area Fire Station Septic Tank, 1607-FSM,<br>6607-FSM | Septic Tank      |               |
| 2607-FSN               | 2607-FSN, 609A Building Septic Tank 2607-FSN   | Septic Tank      |               |
| 2607-GF*               | 2607-GF  | Septic Tank      |               |
| 2607-N                 | 2607-N   | Septic Tank      |               |
| 2607-P                 | 2607-P   | Septic Tank      |               |
| 2607-R                 | 2607-R   | Septic Tank      |               |
| 2607-W1*               | 2607-W1  | Septic Tank      |               |
| 2607-W2                | 2607-W2  | Septic Tank      |               |
| 2607-W3                | 2607-W3  | Septic Tank      |               |
| 2607-W4                | 2607-W4, T Plant Septic Tank and Drain Field   | Septic Tank      |               |
| 2607-W5*               | 2607-W5, Septic Tank   | Septic Tank      |               |
| 2607-W6*               | 2607-W6  | Septic Tank      |               |
| 2607-W7                | 2607-W7, Septic Tank   | Septic Tank      |               |
| 2607-W8*               | 2607-W8  | Septic Tank      |               |
| 2607-W9                | 2607-W9  | Septic Tank      |               |
| 2607-WA*               | 2607-WA  | Septic Tank      |               |
| 2607-WC*               | 2607-WC, 2607-WC Septic System   | Septic Tank      |               |
| 2607-WL                | 2607-WL, 2607-WL Septic System   | Septic Tank      |               |
| 2607-WWA*              | 2607-WWA   | Septic Tank      |               |
| 2607-WZ                | 2607-WZ  | Septic Tank      |               |

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Listing by Operable Unit. (Sheet 68 of 85)

| <b>OPERABLE UNIT</b>   | <b>LEAD REGULATORY AGENCY</b>  |                              |               |
|------------------------|--|------------------------------|---------------|
| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>  | <b>Unit Type</b>             | <b>Status</b> |
| <b>200-ST-1</b>        | (continued)  |                              |               |
| 2607-Z                 | 2607-Z   | Septic Tank                  |               |
| 2607-Z8*               | 2607-Z8  | Septic Tank                  |               |
| 600 ESST               | 600 ESST, 600 Area Exploratory Shaft Septic Tank, Septic Tank - Exploratory Shaft                              | Septic Tank                  |               |
| 600 NSTFST             | 600 NSTFST, 600 Area Near Surface Test Facility Septic Tank, Septic Tank, Near Surface Test Facility           | Septic Tank                  |               |
| 600 NSTFUT             | 600 NSTFUT, 600 Area Near Surface Test Facility Underground Tank, Underground Tank, Near Surface Test Facility | Storage Tank                 |               |
| 622-R ST*              | 622-R ST, 622-R Septic Tank, 622-R Atmospheric Physics Laboratory Septic Tank                                  | Septic Tank                  |               |
| 6607-1                 | 6607-1, H-40 Gun Site Septic Tank  | Septic Tank                  |               |
| 6607-2                 | 6607-2, Gun Site H-42 Septic Tank  | Septic Tank                  |               |
| 6607-3                 | 6607-3, Anti-Aircraft Artillery Site H-51 Septic Tank  | Septic Tank                  |               |
| 6607-5*                | 6607-5   | Septic Tank                  |               |
| TFS OF 218-E-4*        | TFS OF 218-E-4, Tile Field South of 218-E-4  | Drain/Tile Field             |               |
| <b>200-SW-1</b>        | <b>Ecology</b>   |                              |               |
| 200 CP                 | 200 CP, 200 Area Construction Pit, 200 Area Construction Waste Site, Hanford Site Gravel Pit #29               | Depression/Pit (nonspecific) |               |
| 200-E BP               | 200-E BP, 200-E Burning Pit, 200 East Burning Pit  | Burn Pit                     |               |
| 200-E PAP*             | 200-E PAP, 200-E Powerhouse Ash Pit and Ash Disposal Pile  | Coal Ash Pit                 |               |
| 200-E-1                | 200-E-1, 284E Inert Landfill   | Dumping Area                 |               |
| 200-E-2                | 200-E-2, 2101-M SW Parking Lot, MO-234 parking Lot   | Unplanned Release            |               |

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**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>   | <b>Unit Type</b>             | <b>Status</b> |
|------------------------|---|------------------------------|---------------|
| <b>200-SW-1</b>        | (continued)   |                              |               |
| 200-E-10               | 200-E-10, Paint/Solvent Dump South of Sub Trenches, 200-E-3 Toluene Dump Site                                 | Dumping Area                 |               |
| 200-E-12*              | 200-E-12, Sand Piles from RCRA General Inspection 200EFY95 Item #5  | Laboratory                   |               |
| 200-E-13               | 200-E-13, Rubble Piles from RCRA General Inspection #200EFY95 Item #7   | Dumping Area                 |               |
| 218-E-6                | 218-E-6, B Stack Shack Burning Pit, Buried Contamination  | Burial Ground                |               |
| 200-N-3                | 200-N-3, Ballast Pits   | Depression/Pit (nonspecific) |               |
| 200-W ADB              | 200-W ADB, 200-W Ash Disposal Basin   | Coal Ash Pit                 |               |
| 200-W BP               | 200-W BP, 200-W Burning Pit   | Burn Pit                     |               |
| 200-W CSLA             | 200-W CSLA, 200-W Construction Surface Laydown Area, Non-Rad Burial Ground, Construction Surface Laydown Area | Dumping Area                 |               |
| 200-W PAP              | 200-W PAP, 200-W Powerhouse Ash Pit   | Coal Ash Pit                 |               |
| 200-W-1                | 200-W-1, REDOX Mud Pit West   | Mud Pit                      |               |
| 200-W-2                | 200-W-2, REDOX Berms West   | Spoils Pile/Berm             |               |
| 200-W-3                | 200-W-3, 2713-W North Parking Lot, 220-W-1  | Dumping Area                 |               |
| 200-W-6                | 200-W-6, 200-W Painter Shop paint solvent disposal area   | Dumping Area                 |               |
| 200-W-10               | 200-W-10, Item 10 (RCRA General Inspection), Grout Wall Test  | Depression/Pit (nonspecific) |               |
| 200-W-11               | 200-W-11, Concrete Foundation South of 241-S, S-Farm Foundation and Dump Site                                 | Dumping Area                 |               |
| 218-W-6**              | 218-W-6 Burial Ground   | Burial Ground                |               |
| 600 BPHWSA*            | 600 BPHWSA, 600 Area Batch Plant HWSA, Hazardous Waste Storage Area (Batch Plant)                             | Storage Pad (<90 day)        |               |

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**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b>      | <b>Waste Unit Aliases</b>  | <b>Unit Type</b>      | <b>Status</b> |
|-----------------------------|--|-----------------------|---------------|
| <b>200-SW-1</b> (continued) |  |                       |               |
| 600 CL                      | 600 CL, 600 Area Central Landfill, Central Landfill, Central Waste Landfill, CWL, Solid Waste Landfill, SWL  | Sanitary Landfill     |               |
| 600 ESHWSA                  | 600 ESHWSA, 600 Area Exploratory Shaft HWSA, 600 Area Exploratory Shaft Hazardous Waste Storage Area, Hazardous Waste Storage Area (Exploratory Shaft) | Storage Pad (<90 day) |               |
| 600 NRDWL**                 | 600 NRDWL, 600 Area Nonradioactive Dangerous Waste Landfill, NRDW Landfill, Nonradioactive Dangerous Waste Landfill (Central Landfill), NRDWL          | Sanitary Landfill     |               |
| 600 OCL                     | 600 OCL, 600 Area Original Central Landfill, Original CLF  | Sanitary Landfill     |               |
| 600-38                      | 600-38, Railroad Siding "Susie", 600-25, Susie Junction  | Dumping Area          |               |
| 600-40                      | 600-40, West of West Lake Dumping Area   | Dumping Area          |               |
| 600-51                      | 600-51, Chemical Dump, Pile of White Powder  | Dumping Area          |               |
| 600-70                      | 600-70, Solid Waste Management Unit (SWMU) #2 - Miscellaneous Solid Waste  | Dumping Area          |               |
| 622-1                       | 622-1, Construction and Demolition Debris  | Dumping Area          |               |
| 628-2                       | 628-2, 100 Area Fire Station Burn Pit  | Burn Pit              |               |
| OCSA                        | OCSA, Old Central Shop Area, Central Shop Area   | Foundation            |               |
| UPR-200-E-106               | UPR-200-E-106, Contamination at a Burning Ground, UN-200-E-106   | Unplanned Release     |               |
| UPR-200-W-37                | UPR-200-W-37, Contaminated Boxes Found in a Burn Pit   | Unplanned Release     |               |
| UPR-200-W-70                | UPR-200-W-70, Contamination Found at the 200 West Burning Ground   | Unplanned Release     |               |
| Z PLANT BP                  | Z PLANT BP, Z Plant Burning Pit  | Burn Pit              |               |

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Listing by Operable Unit. (Sheet 71 of 85)

| <b>OPERABLE UNIT</b>   | <b>LEAD REGULATORY AGENCY</b>   |                  |               |
|------------------------|---|------------------|---------------|
| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>   | <b>Unit Type</b> | <b>Status</b> |
| <b>200-SW-2</b>        | <b>Ecology</b>  | <b>RPP</b>       |               |
| 218-C-9                | 218-C-9, Dry Waste No.0C9, 218-C-9 Burial Ground                                | Burial Ground    |               |
| 291-C-1                | 291-C-1, 291-C-1 Stack, 291-C Stack Burial Trench                               | Burial Ground    |               |
| 218-E-1                | 218-E-1, 200 East Dry Waste No. 001   | Burial Ground    |               |
| 218-E-2                | 218-E-2, 200 East Industrial Waste No. 002, Equipment Burial Ground #2          | Burial Ground    |               |
| 218-E-2A               | 218-E-2A, Regulated Equipment Storage Site No. 02A, Burial Trench               | Burial Ground    |               |
| 218-E-3                | 218-E-3, Construction Scrap Pit   | Burial Ground    |               |
| 218-E-4                | 218-E-4, 200 East Minor Construction No. 4, Equipment Burial Ground #4          | Burial Ground    |               |
| 218-E-5                | 218-E-5, 200 East Industrial Waste No. 05, Equipment Burial Ground #5           | Burial Ground    |               |
| 218-E-5A               | 218-E-5A, 200 East Industrial Waste No. 005A, Equipment Burial Ground #5A       | Burial Ground    |               |
| 218-E-7                | 218-E-7, 200 East 222-B Vaults  | Burial Ground    |               |
| 218-E-8                | 218-E-8, 200 East Construction Burial Grounds                                   | Burial Ground    |               |
| 218-E-9                | 218-E-9, 200 East Regulated Equipment Storage Site No. 009, Burial Vault (HISS) | Burial Ground    |               |
| 218-E-10**             | 218-E-10, 200 East Industrial Waste No. 10, Equipment Burial Ground #10         | Burial Ground    |               |
| 218-E-12A              | 218-E-12A, 200 East Dry Waste No. 12A   | Burial Ground    |               |
| 218-E-12B**            | 218-E-12B, 200 East Dry Waste No. 12B, 218-E-12B Burial Ground - Trench 94      | Burial Ground    |               |
| 200-W-5                | 200-W-5, Burial Ground/Burning Pit, U Plant Burning Pit, UPR-200-W-8            | Burial Ground    |               |

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Listing by Operable Unit. (Sheet 72 of 85)

| <b>OPERABLE UNIT</b>   | <b>LEAD REGULATORY AGENCY</b>  |                   |               |
|------------------------|--|-------------------|---------------|
| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>  | <b>Unit Type</b>  | <b>Status</b> |
| <b>200-SW-2</b>        | (continued)  |                   |               |
| 218-W-1                | 218-W-1, 200-W Area Dry Waste No. 001, Soild Waste Burial Ground #1                | Burial Ground     |               |
| 218-W-1A               | 218-W-1A, 200-W Area Industrial Waste Burial Ground #1, Equipment Burial Ground #1 | Burial Ground     |               |
| 218-W-2                | 218-W-2, 200-W Area Dry Waste No. 002, Dry Waste Burial Ground No. 2               | Burial Ground     |               |
| 218-W-2A               | 218-W-2A, Industrial Waste No. 02A, Equipment Burial Ground #2                     | Burial Ground     |               |
| 218-W-3                | 218-W-3, Dry Waste No. 003   | Burial Ground     |               |
| 218-W-3A**             | 218-W-3A, Dry Waste No. 003A   | Burial Ground     |               |
| 218-W-3AE**            | 218-W-3AE, Industrial Waste No. 3AE, Dry Waste No. 3AE                             | Burial Ground     |               |
| 218-W-4A               | 218-W-4A, Dry Waste No. 04A  | Burial Ground     |               |
| 218-W-4B**             | 218-W-4B, Dry Waste No. 04B  | Burial Ground     |               |
| 218-W-4C**             | 218-W-4C, Dry Waste No. 004C   | Burial Ground     |               |
| 218-W-5**              | 218-W-5, Dry Waste Burial Ground, Low-Level Radioactive Mixed Waste Burial Grounds | Burial Ground     |               |
| 218-W-7                | 218-W-7, 222-S Vault   | Burial Ground     |               |
| 218-W-8                | 218-W-8, 222-T Vault   | Burial Ground     |               |
| 218-W-9                | 218-W-9, Dry Waste Burial Ground No. 9, Non-TRU Dry Waste No. 009                  | Burial Ground     |               |
| 218-W-11               | 218-W-11, Regulated Storage Site   | Burial Ground     |               |
| 600-25                 | 600-25, Susie Junction   | Dumping Area      |               |
| UPR-200-E-23           | UPR-200-E-23, Burial Box Collapse at 218-E-10, UPR-200-W-158                       | Unplanned Release |               |

**Appendix C**

Listing by Operable Unit. (Sheet 73 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>  | <b>Unit Type</b>  | <b>Status</b> |
|------------------------|--|-------------------|---------------|
| <b>200-SW-2</b>        | (continued)  |                   |               |
| UPR-200-E-24           | UPR-200-E-24, Contamination Plume from the 218-E-10 Burial Ground, UN-200-E-24                           | Unplanned Release |               |
| UPR-200-E-30           | UPR-200-E-30, Contamination Within 218-E-12A, UN-200-E-30  | Unplanned Release |               |
| UPR-200-E-35           | UPR-200-E-35, Buried Contaminated Pipe, UN-218-E-1, 218-E-13   | Unplanned Release |               |
| UPR-200-E-53           | UPR-200-E-53, UN-200-E-53, Contamination at 218-E-1  | Unplanned Release |               |
| UPR-200-E-61           | UPR-200-E-61, Radioactive Contamination from Railroad Burial Cars, UN-216-E-61, UN-200-E-61              | Unplanned Release |               |
| UPR-200-E-95           | UPR-200-E-95, UN-216-E-23, UN-200-E-95, Ground Contamination Around RR Spur Between 218-E-2A and 218-E-2 | Unplanned Release |               |
| UPR-200-W-8            | UPR-200-W-8, UN-200-W-8, 200-W-5, Old Burial/Burning Pit, U-Plant Burning Pit/Burial Ground              | Unplanned Release |               |
| UPR-200-W-11           | UPR-200-W-11, Burial Ground Fire, UN-200-W-11, UPR-200-W-16  | Unplanned Release |               |
| UPR-200-W-16           | UPR-200-W-16, Fire at 218-W-1 Burial Ground  | Unplanned Release |               |
| UPR-200-W-26           | UPR-200-W-26, Contamination Spread During Burial Operation   | Unplanned Release |               |
| UPR-200-W-45           | UPR-200-W-45, Burial Box Collapse  | Unplanned Release |               |
| UPR-200-W-53           | UPR-200-W-53, Burial Box Collapse  | Unplanned Release |               |
| UPR-200-W-63           | UPR-200-W-63, Road Contamination along the South Shoulder of 23rd Street, UN-200-W-63                    | Unplanned Release |               |
| UPR-200-W-72           | UPR-200-W-72, Contamination at 218-W-4A  | Unplanned Release |               |

**Appendix C**

Listing by Operable Unit. (Sheet 74 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| Waste Unit Name | Waste Unit Aliases | Unit Type | Status |
|-----------------|--------------------|-----------|--------|
|-----------------|--------------------|-----------|--------|

**200-SW-2** (continued)

|               |  |                   |  |
|---------------|--|-------------------|--|
| UPR-200-W-84  | UPR-200-W-84, Ground Contamination During Burial Operation | Unplanned Release |  |
| UPR-200-W-134 | UPR-200-W-134, Improper Drum Burial                        | Unplanned Release |  |
| UPR-200-W-137 | UPR-200-W-137, 218-W-7, UN-200-W-137                       | Unplanned Release |  |

**200-TW-1****EPA****CPP**

|          |   |        |  |
|----------|---|--------|--|
| 216-B-14 | 216-B-14, 216-BC-1 Crib                     | Crib   |  |
| 216-B-15 | 216-B-15, 216-BC-2 Crib                     | Crib   |  |
| 216-B-16 | 216-B-16, 216-BC-3 Crib                     | Crib   |  |
| 216-B-17 | 216-B-17, 216-BC-4 Crib                     | Crib   |  |
| 216-B-18 | 216-B-18, 216-BC-5 Crib                     | Crib   |  |
| 216-B-19 | 216-B-19, 216-BC-6 Crib                     | Crib   |  |
| 216-B-20 | 216-B-20, 216-BC-7 Trench, 216-B-20 Trench  | Trench |  |
| 216-B-21 | 216-B-21, 216-BC-8 Trench, 216-B-21 Trench  | Trench |  |
| 216-B-22 | 216-B-22, 216-BC-9 Trench, 216-B-22 Trench  | Trench |  |
| 216-B-23 | 216-B-23, 216-BC-10 Trench, 216-B-23 Trench | Trench |  |
| 216-B-24 | 216-B-24, 216-BC-11 Trench, 216-B-24 Trench | Trench |  |
| 216-B-25 | 216-B-25, 216-BC-12 Trench, 216-B-25 Trench | Trench |  |
| 216-B-26 | 216-B-26, 216-BC-13 Trench, 216-B-26 Trench | Trench |  |
| 216-B-27 | 216-B-27, 216-BC-14 Trench, 216-B-27 Trench | Trench |  |
| 216-B-28 | 216-B-28, 216-BC-15 Trench, 216-B-28 Trench | Trench |  |
| 216-B-29 | 216-B-29, 216-BC-16 Trench                  | Trench |  |

**Appendix C**

Listing by Operable Unit. (Sheet 75 of 85)

| <b>OPERABLE UNIT</b>   | <b>LEAD REGULATORY AGENCY</b>  |                  |               |
|------------------------|--|------------------|---------------|
| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>  | <b>Unit Type</b> | <b>Status</b> |
| <b>200-TW-1</b>        | (continued)  |                  |               |
| 216-B-30               | 216-B-30, 216-BC-17 Trench, 216-B-30 Trench  | Trench           |               |
| 216-B-31               | 216-B-31, 216-BC-18 Trench, 216-B-31 Trench  | Trench           |               |
| 216-B-32               | 216-B-32, 216-BC-19 Trench, 216-B-32 Trench  | Trench           |               |
| 216-B-33               | 216-B-33, 216-BC-20 Trench, 216-B-33 Trench  | Trench           |               |
| 216-B-34               | 216-B-34, 216-BC-21 Trench   | Trench           |               |
| 216-B-42               | 216-B-42, 241-BX-8 Grave, 216-BX-8 Trench, 216-B-42 Trench                           | Trench           |               |
| 216-B-43               | 216-B-43, 216-BY-1 Crib, 216-BY-1 Cavern   | Crib             |               |
| 216-B-44               | 216-B-44, 216-BY-2 Crib, 216-BY-2 Cavern   | Crib             |               |
| 216-B-45               | 216-B-45, 216-BY-3 Crib, 216-BY-3 Cavern   | Crib             |               |
| 216-B-46               | 216-B-46, 216-BY-4 Crib, 216-BY-4 Cavern   | Crib             |               |
| 216-B-47               | 216-B-47, 216-BY-5 Crib, 216-BY-5 Cavern   | Crib             |               |
| 216-B-48               | 216-B-48, 216-BY-6 Crib, 216-BY-6 Cavern   | Crib             |               |
| 216-B-49               | 216-B-49, 216-BY-7 Crib, 216-BY-7 Cavern   | Crib             |               |
| 216-B-51               | 216-B-51, 216-BY-9 Crib  | French Drain     |               |
| 216-B-52               | 216-B-52, 216-B-52 Trench  | Trench           |               |
| 216-BY-201             | 216-BY-201, 241-BY Flush Tank, 216-BY-47, Supernatant Disposal Flush Tank            | Settling Tank    |               |
| 200-E-14               | 200-E-14, 216-BC-201 Siphon Tank, 216-B-201  | Storage Tank     |               |
| 216-T-18               | 216-T-18, Test Crib for 221-U Building, Scavenged TBP Waste, 216-T-17, 241-T-17 Crib | Crib             |               |

**Appendix C**

Listing by Operable Unit. (Sheet 76 of 85)

| <b>OPERABLE UNIT</b>   | <b>LEAD REGULATORY AGENCY</b>   |                        |               |
|------------------------|---|------------------------|---------------|
| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>   | <b>Unit Type</b>       | <b>Status</b> |
| <b>200-TW-1</b>        | (continued)   |                        |               |
| 216-T-26               | 216-T-26, 216-TY-1 Cavern, 216-TY-1 Crib,<br>241-TX-1 Cavern, 216-TX-1 Crib                                     | Crib                   |               |
| UPR-200-E-9            | UPR-200-E-9, Liquid Overflow at 216-BY-201,<br>UN-200-E-9   | Unplanned Release      |               |
| <b>200-TW-2</b>        | <b>Ecology</b>  | <b>RPP</b>             |               |
| 216-B-5                | 216-B-5, 241-B-361 Reverse Well, 241-B-361 Dry<br>Well, 241-B-5 Dry Well  | Injection/Reverse Well |               |
| 216-B-7A&B             | 216-B-7A&B; 241-B-201 Crib, 216-B-7 Crib,<br>216-B-7A Sump, 216-B-7B Sump, 241-B-1 and 2<br>Cribs, 216-B-7A & B | Crib                   |               |
| 216-B-8                | 216-B-8, 241-B-3 Crib, 216-B-8, 216-B-8TF   | Crib                   |               |
| 216-B-9                | 216-B-9, 241-B-361 Crib, 5-6 Crib and Tile Field,<br>216-B-361 Crib, 216-B-9TF                                  | Crib                   |               |
| 216-B-35               | 216-B-35, 241-BX-1 Grave, 216-BX-1 Trench,<br>216-B-35 Trench   | Trench                 |               |
| 216-B-36               | 216-B-36, 241-BX-2 Grave, 216-BX-2 Trench,<br>216-B-36 Trench   | Trench                 |               |
| 216-B-37               | 216-B-37, 241-BX-3 Grave, 216-BX-3 Trench,<br>216-B-37 Trench   | Trench                 |               |
| 216-B-38               | 216-B-38, 241-BX-4 Grave, 216-BX-4 Trench,<br>216-B-38 Trench   | Trench                 |               |
| 216-B-39               | 216-B-39, 241-BX-5 Grave, 216-BX-5 Trench,<br>216-B-39 Trench   | Trench                 |               |
| 216-B-40               | 216-B-40, 241-BX-6 Grave, 241-BX-6 Trench,<br>216-B-40 Trench, 216-BX-6 Trench                                  | Trench                 |               |
| 216-B-41               | 216-B-41, 241-BX-7 Grave, 216-BX-7 Trench,<br>216-B-41 Trench   | Trench                 |               |
| 241-B-361              | 241-B-361, 241-B-361 Settling Tank  | Settling Tank          |               |
| 216-T-3                | 216-T-3, 241-T-361-A Reverse Well, 361-T<br>Reverse Well  | Injection/Reverse Well |               |

**Appendix C**

Listing by Operable Unit. (Sheet 77 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>   | <b>Unit Type</b>  | <b>Status</b> |
|------------------------|---|-------------------|---------------|
| <b>200-TW-2</b>        | (continued)   |                   |               |
| 216-T-5                | 216-T-5, 216-T-5 Grave, 216-T-12, 216-T-5 Trench, 241-T-5 Trench    | Trench            |               |
| 216-T-6                | 216-T-6, 241-T-361 (1&2 Cribs), 216-T-5, 361-T-1&2 Cribs            | Crib              |               |
| 216-T-7                | 216-T-7, 216-T-7TF, 216-T-7 Tile Field, 241-T-3 Tile Field          | Crib              |               |
| 216-T-14               | 216-T-14, 241-T-1 Trench, 216-T-1 Grave, 216-T-13                   | Trench            |               |
| 216-T-15               | 216-T-15, 241-T-2 Trench, 241-T-2 Grave, 216-T-14, 216-T-15 Crib    | Trench            |               |
| 216-T-16               | 216-T-16, 241-T-3 Trench, 241-T-3 Grave, 216-T-15, 216-T-16 Crib    | Trench            |               |
| 216-T-17               | 216-T-17, 241-T-4 Trench, 216-T-4 Grave, 216-T-16                   | Trench            |               |
| 216-T-21               | 216-T-21, 241-TX-1 Trench, 216-TX-1 Grave, 216-TX-3                 | Trench            |               |
| 216-T-22               | 216-T-22, 241-TX-2 Trench, 216-TX-2 Grave, 216-TX-4                 | Trench            |               |
| 216-T-23               | 216-T-23, 241-TX-3 Trench, 216-TX-3 Grave, 216-TX-5, 241-TX-3 Grave | Trench            |               |
| 216-T-24               | 216-T-24, 241-TX-4 Trench, 216-TX-4 Grave, 216-TX-6                 | Trench            |               |
| 216-T-25               | 216-T-25, 241-TX-5 Trench, 216-TX-5 Grave, 216-TX-7                 | Trench            |               |
| 216-T-32               | 216-T-32, 241-T #1 & 2 Cribs, 216-T-6                               | Crib              |               |
| 241-T-361              | 241-T-361, 241-T-361 Settling Tank, 361-T-TANK                      | Settling Tank     |               |
| UPR-200-E-7            | UPR-200-E-7, UN-200-E-7, Cave-In Near 219-B-9 (241-B-361 Crib)      | Unplanned Release |               |

**Appendix C**

Listing by Operable Unit. (Sheet 78 of 85)

| <b>OPERABLE UNIT</b>   | <b>LEAD REGULATORY AGENCY</b>  |                   |               |
|------------------------|--|-------------------|---------------|
| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>  | <b>Unit Type</b>  | <b>Status</b> |
| <b>200-UR-1</b>        | <b>Ecology</b>   | <b>RPP</b>        |               |
| 200-E-8                | 200-E-8, 200 East Trench 94 Diesel Spill   | Unplanned Release |               |
| 200-E-26               | 200-E-26, Heavy Equipment Storage Area, Diesel Fuel Contaminated Soil            | Unplanned Release |               |
| 200-E-56               | 200-E-56, 241-C Waste Line Leak adjacent to 201-C, Waste Line Leak #1            | Unplanned Release |               |
| 200-E-57               | 200-E-57, 241-C Waste Line Leak east of 201-C, Waste Line Leak #2                | Unplanned Release |               |
| 200-W-9                | 200-W-9, W291 Excavation VCP Contamination                                       | Unplanned Release |               |
| UPR-200-E-2            | UPR-200-E-2, UN-200-E-2, Spotty Contamination Around the B and T Plant Stacks    | Unplanned Release |               |
| UPR-200-E-10           | UPR-200-E-10, Contaminated Purex Railroad Spur, UN-200-E-10                      | Unplanned Release |               |
| UPR-200-E-11           | UPR-200-E-11, Railroad Track Contamination Spread, UN-200-E-11                   | Unplanned Release |               |
| UPR-200-E-12           | UPR-200-E-12, Contaminated Purex Railroad Spur, UN-200-E-12                      | Unplanned Release |               |
| UPR-200-E-20           | UPR-200-E-20, Contaminated Purex Railroad Spur, UN-200-E-20                      | Unplanned Release |               |
| UPR-200-E-22           | UPR-200-E-22, 291-A-1 Stack Fallout Area, UN-200-E-22,                           | Unplanned Release |               |
| UPR-200-E-28           | UPR-200-E-28, Contamination Release Inside the PUREX Exclusion Area, UN-200-E-28 | Unplanned Release |               |
| UPR-200-E-33           | UPR-200-E-33, Contaminated Purex Railroad tracks, UN-200-E-33                    | Unplanned Release |               |
| UPR-200-E-36           | UPR-200-E-36, Road Contamination North of Semiworks, UN-200-E-36                 | Unplanned Release |               |
| UPR-200-E-37           | UPR-200-E-37, Contamination East of Hot Semi-Works, UN-200-E-37, UN-216-E-37     | Unplanned Release |               |

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**Appendix C**

Listing by Operable Unit. (Sheet 79 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>  | <b>Unit Type</b>  | <b>Status</b> |
|------------------------|--|-------------------|---------------|
| <b>200-UR-1</b>        | (continued)  |                   |               |
| UPR-200-E-49           | UPR-200-E-49, Roadway Contamination,<br>UN-200-E-49  | Unplanned Release |               |
| UPR-200-E-50           | UPR-200-E-50, Soil Contamination at the<br>Overground Equipment Storage Yard,<br>UN-200-E-50   | Unplanned Release |               |
| UPR-200-E-52           | UPR-200-E-52, UN-200-E-52, Contamination<br>Spread Outside the North Side of 221-B   | Unplanned Release |               |
| UPR-200-E-54           | UPR-200-E-54, UN-200-E-54, Contamination<br>Outside 225-B Doorway  | Unplanned Release |               |
| UPR-200-E-55           | UPR-200-E-55, UN-200-E-55, Contamination<br>Spread South of B Plant  | Unplanned Release |               |
| UPR-200-E-58           | UPR-200-E-58, Contaminated Tumbleweeds<br>found on dirt road, UN-200-E-58  | Unplanned Release |               |
| UPR-200-E-60           | UPR-200-E-60, UN-216-E-60, Radioactively<br>Contaminated Dirt Spill, UN-200-E-60   | Unplanned Release |               |
| UPR-200-E-62           | UPR-200-E-62, Transportation spill near 200-E<br>Burning Ground, UN-216-E-62, UN-200-E-62,   | Unplanned Release |               |
| UPR-200-E-63           | UPR-200-E-63, Radioactively Contaminated<br>Tumbleweeds, UN-216-E-63, UN-200-E-63  | Unplanned Release |               |
| UPR-200-E-69           | UPR-200-E-69, UN-216-E-69, Railroad Car Flush<br>Water Radioactive Spill, UN-200-E-69  | Unplanned Release |               |
| UPR-200-E-83           | UPR-200-E-83, UN-216-E-11, BC Cribs<br>Controlled Area, UN-200-E-83  | Unplanned Release |               |
| UPR-200-E-88           | UPR-200-E-88, TC-4 Spur Contaminated<br>Railroad Track, UN-216-E-88, UN-216-E-16,<br>UN-200-E-88. Ground Contamination Around<br>the Western Purex Railroad Spur | Unplanned Release |               |
| UPR-200-E-89           | UPR-200-E-89, UN-216-E-17, UN-200-E-89,<br>Contamination Migration to the North, East &<br>West of BX-BY Tank Farms  | Unplanned Release |               |

**Appendix C**

Listing by Operable Unit. (Sheet 80 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b>      | <b>Waste Unit Aliases</b>   | <b>Unit Type</b>  | <b>Status</b> |
|-----------------------------|---|-------------------|---------------|
| <b>200-UR-1</b> (continued) |   |                   |               |
| UPR-200-E-90                | UPR-200-E-90, UN-216-E-18, Ground Contamination around B Plant Sand Filter, UN-216-E-90, Radioactive Spill Near 221-B Building, UN-200-E-90 | Unplanned Release |               |
| UPR-200-E-92                | UPR-200-E-92, 216-E-20, UN-216-E-20, UN-216-20, Ground Contamination Outside 200 East Fence, UN-200-E-92, UN-216-E-92                       | Unplanned Release |               |
| UPR-200-E-93                | UPR-200-E-93, UN-216-E-21 Ground contamination along 200 East Area fence  | Unplanned Release |               |
| UPR-200-E-97                | UPR-200-E-97, PUREX Railroad Tunnel Contamination, UN-216-E-25, UN-200-E-97   | Unplanned Release |               |
| UPR-200-E-98                | UPR-200-E-98, UN-216-E-26, Ground Contamination East of C Plant, UN-200-E-98  | Unplanned Release |               |
| UPR-200-E-103               | UPR-200-E-103, UN-200-E-103, BCS Line Leak South of R-17 at 221-B   | Unplanned Release |               |
| UPR-200-E-112               | UPR-200-E-112, UN-200-E-112, Contaminated Railroad Track from B-Plant to the Burial Ground  | Unplanned Release |               |
| UPR-200-E-114               | UPR-200-E-114, 202-A Valve Pit, UN-200-E-114  | Unplanned Release |               |
| UPR-200-E-140               | UPR-200-E-140, PCB Oil Spill at 211-B Bulk Chemical Storage Area, UN-200-E-140  | Unplanned Release |               |
| UPR-200-E-141               | UPR-200-E-141, 2718-E Building Uranyl Nitrate Spill to Ground, UN-200-E-141   | Unplanned Release |               |
| UPR-200-E-142               | UPR-200-E-142, 202-A Diesel Fuel Spill, UN-200-E-142  | Unplanned Release |               |
| UPR-200-E-143               | UPR-200-E-143, Contamination Adjacent to 244-AR Lift Station, UN-216-E-43   | Unplanned Release |               |
| UPR-200-E-144               | UPR-200-E-144, Soil Contamination North of 241-B, UN-216-E-44   | Unplanned Release |               |

**Appendix C**

Listing by Operable Unit. (Sheet 81 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b>   | <b>Unit Type</b>  | <b>Status</b> |
|------------------------|---|-------------------|---------------|
| <b>200-UR-1</b>        | (continued)   |                   |               |
| UPR-200-N-1            | UPR-200-N-1, Unplanned release near 212-R railroad spur                   | Unplanned Release |               |
| UPR-200-N-2            | UPR-200-N-2, 200-N-2, Unplanned release near Well Pumphouse No. 2         | Unplanned Release |               |
| UPR-200-W-3            | UPR-200-W-3, Railroad Contamination, UN-200-W-3                           | Unplanned Release |               |
| UPR-200-W-4            | UPR-200-W-4, Railroad Contamination, UN-200-W-4                           | Unplanned Release |               |
| UPR-200-W-14           | UPR-200-W-14, Waste Line Leak at 242-T Evaporator, UN-200-W-14            | Unplanned Release |               |
| UPR-200-W-23           | UPR-200-W-23, Waste Box Fire at 234-5Z, UN-200-W-23                       | Unplanned Release |               |
| UPR-200-W-39           | UPR-200-W-39, UN-200-W-39, 224-U Buried Contamination                     | Unplanned Release |               |
| UPR-200-W-41           | UPR-200-W-41, Railroad Contamination, UN-200-W-41                         | Unplanned Release |               |
| UPR-200-W-42           | UPR-200-W-42, Contamination found at 2706-S, UN-200-W-42                  | Unplanned Release |               |
| UPR-200-W-43           | UPR-200-W-43, Contaminated Blacktop East of 233-S, UN-200-W-43            | Unplanned Release |               |
| UPR-200-W-44           | UPR-200-W-44, Railroad Track Contamination, UN-200-W-44                   | Unplanned Release |               |
| UPR-200-W-46           | UPR-200-W-46, Contaminated Railroad Track, UN-200-W-46                    | Unplanned Release |               |
| UPR-200-W-48           | UPR-200-W-48, Contaminated Railroad Track near 221-U, UN-200-W-48         | Unplanned Release |               |
| UPR-200-W-51           | UPR-200-W-51, Release from 241-S Diversion Box, UN-200-W-51, UPR-200-W-52 | Unplanned Release |               |
| UPR-200-W-52           | UPR-200-W-52, Release from 241-S Diversion Box, UN-200-W-52               | Unplanned Release |               |

**Appendix C**

Listing by Operable Unit. (Sheet 82 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b>      | <b>Waste Unit Aliases</b>  | <b>Unit Type</b>  | <b>Status</b> |
|-----------------------------|--|-------------------|---------------|
| <b>200-UR-1</b> (continued) |  |                   |               |
| UPR-200-W-55                | UPR-200-W-55, Uranium Powder Spill at 224-U,<br>UN-200-W-55                    | Unplanned Release |               |
| UPR-200-W-56                | UPR-200-W-56, Contamination at the REDOX<br>Column Carrier Trench, UN-200-W-56 | Unplanned Release |               |
| UPR-200-W-57                | UPR-200-W-57, UPR-200-E-120 (misassignment<br>of E-W area number), UN-200-W-57 | Unplanned Release |               |
| UPR-200-W-58                | UPR-200-W-58, Railroad Track Contamination,<br>UN-200-W-58                     | Unplanned Release |               |
| UPR-200-W-60                | UPR-200-W-60, Railroad Contamination,<br>UN-200-W-60                           | Unplanned Release |               |
| UPR-200-W-61                | UPR-200-W-61, REDOX Ground Contamination,<br>UN-200-W-61                       | Unplanned Release |               |
| UPR-200-W-65                | UPR-200-W-65, Contamination in the T-Plant<br>Railroad Cut, UN-200-W-65        | Unplanned Release |               |
| UPR-200-W-67                | UPR-200-W-67, Contamination near 2706-T,<br>UN-200-W-67                        | Unplanned Release |               |
| UPR-200-W-68                | UPR-200-W-68, Road Contamination,<br>UN-200-W-68                               | Unplanned Release |               |
| UPR-200-W-69                | UPR-200-W-69, Railroad Contamination,<br>UN-200-W-69                           | Unplanned Release |               |
| UPR-200-W-73                | UPR-200-W-73, Contaminated Railroad Track at<br>221-T, UN-200-W-73             | Unplanned Release |               |
| UPR-200-W-74                | UPR-200-W-74, Overground Line Leak at 241-Z,<br>UN-200-W-74                    | Unplanned Release |               |
| UPR-200-W-75                | UPR-200-W-75, Contamination Spread at 241-Z,<br>UN-200-W-75                    | Unplanned Release |               |
| UPR-200-W-77                | UPR-200-W-77, Contaminated Coyote Feces,<br>UN-200-W-77                        | Unplanned Release |               |
| UPR-200-W-78                | UPR-200-W-78, UO3 Powder Spill at 224-U,<br>UN-200-W-78                        | Unplanned Release |               |

**Appendix C**

Listing by Operable Unit. (Sheet 83 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b>      | <b>Waste Unit Aliases</b>   | <b>Unit Type</b>  | <b>Status</b> |
|-----------------------------|---|-------------------|---------------|
| <b>200-UR-1</b> (continued) |   |                   |               |
| UPR-200-W-83                | UPR-200-W-83, Radioactive Spill Near 204-S Radiation Zone, UN-216-W-82, UN-200-W-83           | Unplanned Release |               |
| UPR-200-W-85                | UPR-200-W-85, Radioactive Spill from Multipurpose Transfer Box, UN-216-W-85, UN-200-W-85      | Unplanned Release |               |
| UPR-200-W-86                | UPR-200-W-86, Contaminated Pigeon Feces at 221-U and 204-S, UN-200-W-86, UN-216-W-86          | Unplanned Release |               |
| UPR-200-W-87                | UPR-200-W-87, UN-216-W-87, Radioactive Spill from Filter Housing, UN-200-W-87                 | Unplanned Release |               |
| UPR-200-W-88                | UPR-200-W-88, Radioactive Spill from UNH Trailer, UN-216-W-88, UN-200-W-88                    | Unplanned Release |               |
| UPR-200-W-89                | UPR-200-W-89, Radioactive Contamination Southwest of 236-Z Building, UN-216-W-89, UN-200-W-89 | Unplanned Release |               |
| UPR-200-W-90                | UPR-200-W-90, Radioactive Contamination South of 236-Z Building, UN-216-N-90, UN-200-W-90     | Unplanned Release |               |
| UPR-200-W-91                | UPR-200-W-91, Radioactive Contamination near 234-5Z Building, UN-216-W-91, UN-200-W-91        | Unplanned Release |               |
| UPR-200-W-96                | UPR-200-W-96, UN-216-W-4, 233-S Floor Overflow, 233-SA Floor Overflow                         | Unplanned Release |               |
| UPR-200-W-99                | UPR-200-W-99, UN-216-W-7, 153-TX Diversion Box Contamination Spread, UN-200-W-99              | Unplanned Release |               |
| UPR-200-W-101               | UPR-200-W-101, UN-216-W-9, 221-U Acid Spill R-1 through R-5, UN-200-W-101                     | Unplanned Release |               |
| UPR-200-W-116               | UPR-200-W-116, UN-216-W-26, Ground Contamination North of 202-S, UN-200-W-116                 | Unplanned Release |               |

**Appendix C**

Listing by Operable Unit. (Sheet 84 of 85)

**OPERABLE UNIT LEAD REGULATORY AGENCY**

| <b>Waste Unit Name</b> | <b>Waste Unit Aliases</b> | <b>Unit Type</b> | <b>Status</b> |
|------------------------|---------------------------|------------------|---------------|
|------------------------|---------------------------|------------------|---------------|

**200-UR-1 (continued)**

|               |  |                   |  |
|---------------|--|-------------------|--|
| UPR-200-W-117 | UPR-200-W-117, Railroad Track Contamination,<br>UN-216-W-27, UN-200-W-117          | Unplanned Release |  |
| UPR-200-W-118 | UPR-200-W-118, Contamination at 211-U,<br>UN-216-W-28, UN-200-W-118                | Unplanned Release |  |
| UPR-200-W-123 | UPR-200-W-123, 204-S Unloading Facility<br>Frozen Discharge Line, UN-200-W-123     | Unplanned Release |  |
| UPR-200-W-127 | UPR-200-W-127, Liquid Release from 242-S<br>Evaporator to the Ground, UN-200-W-127 | Unplanned Release |  |
| UPR-200-W-159 | UPR-200-W-159, Caustic Spill at Plutonium<br>Finishing Plant, UN-200-W-159         | Unplanned Release |  |
| UPR-200-W-162 | UPR-200-W-162, Contaminated Area on East<br>Side of 221-U, UN-216-W-37             | Unplanned Release |  |
| UPR-200-W-165 | UPR-200-W-165, Contamination Area East of<br>241-S, UN-216-W-30                    | Unplanned Release |  |
| UPR-200-W-166 | UPR-200-W-166, Contamination Migration from<br>241-T Tank Farm, UN-216-W-31        | Unplanned Release |  |
| UPR-600-12    | UPR-600-12, UN-600-12, UNH Spill to Route 4S                                       | Unplanned Release |  |
| UPR-600-21    | UPR-600-21, Contamination found Northeast of<br>200 East Area, UN-216-E-31         | Unplanned Release |  |

## Appendix C

Listing by Operable Unit. (Sheet 85 of 85)

### Groundwater Operable Units

| <b>Operable Unit</b> | <b>Lead Regulatory Agency</b> |
|----------------------|-------------------------------|
| 100-BC-5 (GW O.U.)   | EPA                           |
| 100-FR-3 (GW O.U.)   | EPA                           |
| 100-HR-3 (GW O.U.)   | Ecology                       |
| 100-KR-4 (GW O.U.)   | EPA                           |
| 100-NR-2 (GW O.U.)   | Ecology                       |
| 200-BP-5 (GW O.U.)   | EPA                           |
| 200-PO-1 (GW O.U.)   | Ecology                       |
| 200-UP-1 (GW O.U.)   | Ecology                       |
| 200-ZP-1 (GW O.U.)   | EPA                           |
| 300-FF-5 (GW O.U.)   | EPA                           |

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\* Active waste management units where a hazardous substance has been potentially released or a substantial threat of a release of a hazardous substance exists.

\*\*Treatment Storage and Disposal (TSD) units where closure and permitting activities are to be coordinated with past practice investigation and remediation activities.

† Interim Action Record of Decision for the 100-BC-1, 100-BC-2, 100-DR-1, 100-DR-2, 100-FR-1, 100-FR-2, 100-HR-1, 100-HR-2, 100-KR-1, 100-KR-2, 100-IU-2, 100-IU-6, and 200-CW-3 Operable Units (1999)

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u>                                   | <u>Milestone</u>   | <u>Due Date</u> |
|---|--|-----------------|
| M-013-00N<br>LEAD AGENCY:<br>DUAL (see<br>note) | SUBMIT 1 200 NPL RI/FS (RFI/CMS) WORK PLAN FOR THE 200-UR-1,<br>UNPLANNED RELEASES.<br><br>Note:See operable unit LRA designation listing in Appendix C.   | 12/31/2003      |
| M-013-00O<br>LEAD AGENCY:<br>DUAL (see<br>note) | SUBMIT 1 200 NPL RI/FS (RFI/CMS) WORK PLAN FOR THE 200-SW-2,<br>RADIOACTIVE LANDFILLS AND DUMPS OU. INCLUDES WASTE SITES IN<br>THE 200-SW-1, NON-RADIOACTIVE LANDFILLS AND DUMPS OU.<br><br>Note:See operable unit LRA designation listing in Appendix C.  | 12/31/2004      |
| M-015-00  | COMPLETE THE RI/FS (OR RFI/CMS) PROCESS FOR ALL OPERABLE<br>UNITS.   | 12/31/2008      |
| M-015-00C<br>LEAD AGENCY:<br>DUAL (see<br>note) | COMPLETE ALL 200 AREA NON-TANK FARM OPERABLE UNIT PRE-ROD<br>SITE INVESTIGATIONS UNDER APPROVED WORK PLAN SCHEDULES.<br><br>Note:See operable unit LRA designation listing in Appendix C.  | 12/31/2008      |
| M-015-39A                                       | COMPLETE CHEMICAL SEWER GROUP FIELD WORK THROUGH SAMPLE<br>COLLECTION AND ANALYSIS.  | 09/30/2003      |
| M-015-39B                                       | SUBMIT DRAFT A 200-CS-1 CHEMICAL SEWER GROUP RI REPORT.  | 05/31/2004      |
| M-015-39C                                       | SUBMIT DRAFT A 200-CS-1 CHEMICAL SEWER GROUP FS AND SUBMIT<br>DRAFT A 200-CS-1 CHEMICAL SEWER GROUP PROPOSED PLAN/PROPOSED<br>RCRA PERMIT MODIFICATION.  | 11/30/2005      |
| M-015-40B                                       | SUBMIT DRAFT A 200-CW-5 U POND/Z-DITCHES COOLING WATER GROUP<br>RI REPORT INCLUDING THE PAST PRACTICE WASTE SITES IN THE 200-<br>CW-2 S-PONDS/DITCHES COOLING WATER GROUP, THE 200-CW-4 T-<br>PONDS/DITCHES COOLING WATER GROUP, AND THE 200-SC-1 STEAM<br>CONDENSATE GROUP.   | 05/31/2003      |
| M-015-40C                                       | SUBMIT DRAFT A 200-CW-5 U POND/Z DITCHES COOLING WATER GROUP<br>FS AND SUBMIT DRAFT A 200-CW-5 U POND/Z DITCHES COOLING WATER<br>GROUP PROPOSED PLAN INCLUDING THE PAST PRACTICE WASTE SITES<br>IN THE 200-CW-2 S-PONDS/DITCHES COOLING WATER GROUP, THE 200-<br>CW-4 T-PONDS/DITCHES COOLING WATER GROUP, AND THE 200-SC-1<br>STEAM CONDENSATE GROUP. | 10/31/2004      |
| M-015-41C                                       | SUBMIT THE DRAFT A 200-TW-1 OU AND 200-TW-2 OU FS AND DRAFT A<br>PROPOSED PLAN TO EPA AND ECOLOGY.AND INCLUDES THE PAST<br>PRACTICE WASTE SITES IN THE 200-PW-5 FISSION PRODUCT-RICH<br>PROCESS WASTE GROUP. THE WASTE SITE ASSOCIATED WITH THE<br>HANFORD PROTOTYPE BARRIER WILL BE ADDRESSED BY THE TW-1/TW-2<br>PROPOSED PLAN.                      | 03/31/2004      |
| M-015-43B                                       | SUBMIT 200-PW-2 OU RI REPORT INCLUDING THE PAST PRACTICE<br>WASTE SITES IN THE 200-PW-4 GENERAL PROCESS WASTE GROUP.   | 06/30/2004      |
| M-015-43C                                       | SUBMIT 200-PW-2 OU FEASIBILITY STUDY AND PROPOSED<br>PLAN/PROPOSED RCRA PERMIT MODIFICATION INCLUDING THE PAST<br>PRACTICE WASTE SITES IN THE 200-PW-4 GENERAL PROCESS WASTE<br>GROUP.   | 12/31/2005      |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u>                                  | <u>Milestone</u>  | <u>Due Date</u> |
|--|---|-----------------|
| M-015-44A                                      | SUBMIT 200-MW-1 OU REMEDIAL INVESTIGATION REPORT.   | 12/31/2005      |
| M-015-44B                                      | SUBMIT 200-MW-1 OU FEASIBILITY STUDY AND PROPOSED PLAN.   | 12/31/2006      |
| M-015-46A                                      | SUBMIT 200 AREA CHEMICAL LABORATORY WASTE OUs REMEDIAL INVESTIGATION REPORT, INCLUDING THE PAST PRACTICE WASTE SITES IN THE 200-LW-1 AND 200-LW-2 200 AREA CHEMICAL LABORATORY GROUPS.  | 10/31/2005      |
| M-015-46B                                      | SUBMIT 200 AREA CHEMICAL LABORATORY WASTE OUs FEASIBILITY STUDY AND PROPOSED PLAN/PROPOSED PERMIT MODIFICATION, INCLUDING THE PAST PRACTICE WASTE SITES IN THE 200-LW-1 AND 200-LW-2 200 AREA CHEMICAL LABORATORY GROUPS.   | 09/30/2006      |
| M-015-47                                       | SUBMIT A PROPOSED PLAN TO EPA AND/OR ECOLOGY TO CONDUCT REMEDIAL ACTION(S) FOR SOURCE CONTROL AT HIGH-RISK WASTE SITE(S) WHICH INCLUDES AN ENGINEERING EVALUATION OF AN ENGINEERED SURFACE BARRIER.   | 06/30/2003      |
| M-016-00<br>LEAD AGENCY:<br>DUAL (see<br>note) | COMPLETE REMEDIAL ACTIONS FOR ALL NON-TANK FARM OPERABLE UNITS.<br><br>Note:See operable unit LRA designation listing in Appendix C.  | 09/30/2024      |
| M-016-00A                                      | COMPLETE ALL INTERIM RESPONSE ACTIONS FOR THE 100 AREAS.<br><br>COMPLETION OF INTERIM RESPONSE ACTIONS IS DEFINED AS THE COMPLETION OF THE INTERIM ROD OR ACTION MEMORANDUM REQUIREMENTS IN ACCORDANCE WITH AN APPROVED RD/RA WORK PLAN OR REMOVAL ACTION WORK PLAN AND OBTAIN EPA AND/OR ECOLOGY APPROVAL OF THE APPROPRIATE PROJECT CLOSEOUT DOCUMENTS.   | 12/31/2012      |
| M-016-00B                                      | COMPLETE ALL INTERIM 300 AREA REMEDIAL ACTIONS TO INCLUDE CONFIRMATORY SAMPLING OF ALL CANDIDATE SITES LISTED IN THE 300-FF-2 ROD.<br><br>COMPLETION OF ALL INTERIM REMEDIAL ACTIONS IS DEFINED AS THE COMPLETION OF THE INTERIM ROD REQUIREMENTS IN ACCORDANCE WITH AN APPROVED RD/RA WORK PLAN AND OBTAIN EPA AND/OR ECOLOGY APPROVAL OF THE APPROPRIATE PROJECT CLOSEOUT DOCUMENTS. COMPLETION OF CONFIRMATORY SAMPLING IS DEFINED AS THE COMPLETION OF THE SAMPLING NECESSARY TO DETERMINE WHETHER OR NOT THE WASTE SITE MEETS CRITERIA FOR CLEANUP OR CAN BE CLOSED OUT FROM THE WASTE INFORMATION DATA SYSTEM (WIDS) AS DEFINED IN THE RD/RA WORK PLAN. THE DISPOSITION OF IMPEDING SURPLUS FACILITIES WILL BE PERFORMED IN ACCORDANCE WITH MILESTONE M-094-00. | 09/30/2018      |
| M-016-03H                                      | COMPLETE REMEDIATION OF THE WASTE SITES IN THE 300-FF-1 OPERABLE UNIT TO INCLUDE EXCAVATION, VERIFICATION, AND REGRADING, INCLUDING THE 618-4 BURIAL GROUND IN ACCORDANCE WITH AN APPROVED REMEDIAL DESIGN REPORT/REMEDIAL ACTION WORK PLAN.  | 06/30/2004      |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>  | <u>Due Date</u>  |
|---------------|---|------------------|
| M-016-03I     | COMPLETE TREATMENT OF DRUMMED WASTE FROM THE 618-4 BURIAL GROUND IN ACCORDANCE WITH AN APPROVED REMEDIAL DESIGN REPORT/REMEDIAL ACTION WORK PLAN.   | to be determined |
| M-016-13B     | COMPLETE REMEDIATION AND BACKFILL OF 16 LIQUID WASTE SITES AND PROCESS EFFLUENT PIPELINES IN THE 100-FR-1 & 100-FR-2 OPERABLE UNITS AS DEFINED IN THE REMEDIAL DESIGN REPORT/REMEDIAL ACTION WORK PLAN FOR THE 100 AREA.                  | 10/29/2004       |
| M-016-26E     | COMPLETE EXCAVATION AND REMOVAL OF 100-B/C PROCESS EFFLUENT PIPELINES.  | 09/30/2004       |
| M-016-26F     | COMPLETE BACKFILL OF 100 B/C PROCESS EFFLUENT PIPELINE EXCAVATIONS.   | 02/28/2005       |
| M-016-27C     | COMPLETE 100-HR-3 PHASE III, ISRM BARRIER EMPLACEMENT, PLANNING, WELL INSTALLATION, AND BARRIER EMPLACEMENT.  | 06/30/2003       |
| M-016-45      | COMPLETE THE INTERIM REMEDIAL ACTION FOR THE 100 B/C AREA.  | 12/31/2006       |
| M-016-46      | INITIATE REMEDIAL ACTIONS FOR THE REMAINING WASTE SITES FOR THE 100 D AREA.   | 07/31/2006       |
| M-016-47      | COMPLETE THE INTERIM REMEDIAL ACTIONS FOR THE 100 D AREA.   | 12/31/2011       |
| M-016-48      | INITIATE REMEDIAL ACTIONS FOR THE REMAINING WASTES SITES FOR THE 100 F AREA.  | 07/31/2005       |
| M-016-49      | COMPLETE THE INTERIM REMEDIAL ACTIONS FOR THE 100 F AREA.   | 12/31/2008       |
| M-016-50      | INITIATE REMEDIAL ACTIONS FOR THE REMAINING WASTES SITES FOR THE 100 H AREA.  | 07/31/2007       |
| M-016-51      | COMPLETE THE INTERIM REMEDIAL ACTIONS FOR THE 100 H AREA.   | 12/31/2010       |
| M-016-52      | INITIATE RESPONSE ACTIONS FOR THE REMAINING WASTES SITES FOR THE 100 K AREA.  | 07/31/2009       |
| M-016-53      | COMPLETE THE INTERIM RESPONSE ACTIONS FOR THE 100 K AREA.   | 12/31/2012       |
| M-016-54      | INITIATE RESPONSE ACTIONS FOR THE REMAINING WASTES SITES FOR THE 100 N AREA.  | 07/31/2008       |
| M-016-55      | COMPLETE THE INTERIM RESPONSE ACTIONS FOR THE 100 N AREA.   | 12/31/2012       |
| M-016-56      | COMPLETE THE INTERIM REMEDIAL ACTIONS FOR 100-IU-2 AND 100-IU-6.  | 12/31/2008       |
| M-016-60      | COMPLETE INTERIM REMEDIAL ACTIONS FOR AT LEAST 3 OF THE FOLLOWING HIGH ENVIRONMENTAL PRIORITY 300-FF-2 WASTE SITES (316-4, 618-2, 618-3, 618-5 AND 618-7) AND COMPLETE CONFIRMATORY SAMPLING OF 300-FF-2 CANDIDATE SITES 300-7 AND 300-9. | 12/31/2006       |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>  | <u>Due Date</u> |
|---------------|---|-----------------|
| M-016-61      | COMPLETE INTERIM REMEDIAL ACTIONS FOR THE REMAINING HIGH ENVIRONMENTAL PRIORITY 300-FF-2 WASTE SITES (316-4, 618-2, 618-3, 618-5 AND 618-7).  | 12/31/2008      |
| M-016-62      | COMPLETE INTERIM REMEDIAL ACTIONS FOR THE FOLLOWING 300-FF-2 WASTE SITES: 300-8, 300-18, 300-VTS, 316-4, 600-47, 600-259, 618-2, 618-3, 618-5, 618-7, 618-8, AND 618-13 (SEE TABLE 1 IN TPA CHANGE REQUEST M-16-01-06).   | 12/31/2012      |
| M-016-63      | SUBMIT A SCHEDULE AND TRI-PARTY AGREEMENT MILESTONES TO COMPLETE INTERIM REMEDIAL ACTIONS FOR THE FOLLOWING 300-FF-2 WASTE SITES (300-259, 303-M SA, 303-M UOF, UPR 300-46, UPR 300-17, AND 618-1) AND CONFIRMATORY SAMPLING OF THE FOLLOWING 300-FF-2 CANDIDATE SITES (300-109, 300-110, AND 333 ESHWSA) (SEE TABLE 2 IN TPA CHANGE REQUEST M-016-01-06) THE MILESTONE DELIVERABLE SHALL INCLUDE AT LEAST: 1) A SCHEDULE FOR SUBMITTALS OF ANY DOCUMENTS REQUIRING EPA AND/OR ECOLOGY APPROVAL (E.G., REMEDIAL DESIGN/REMEDIAL ACTION WORK PLANS, ETC.); 2) A SCHEDULE THAT DEFINES DATES FOR INITIATING AND COMPLETING INTERIM REMEDIAL ACTIONS AT WASTE SITES AND IMPEDING FACILITIES; 3) A TRI-PARTY AGREEMENT CHANGE PACKAGE THAT INCLUDES MILESTONES FOR GROUPS OF WASTE SITES AND IMPEDING FACILITIES THAT WILL ENSURE COMPLETION OF M-016-00B; AND 4) AN EVALUATION OF OUTYEAR TRI-PARTY AGREEMENT MILESTONES FOR THE 300 AREA TO SEE IF THEY CAN BE ACCELERATED. IT IS EXPECTED THAT SCHEDULES WILL BE ALIGNED WITH THE ASSOCIATED SCHEDULES REQUIRED BY M-094-01. | 11/30/2003      |
| M-016-64      | COMPLETE INTERIM REMEDIAL ACTIONS FOR THE FOLLOWING 300-FF-2 WASTE SITES: (300-259, 303-M SA, 303-M UOF, UPR 300-46, UPR 300-17, AND 618-1) (SEE TABLE 2 IN TPA CHANGE REQUEST M-016-01-06).  | 09/30/2010      |
| M-016-65      | SUBMIT A SCHEDULE AND TRI-PARTY AGREEMENT MILESTONES TO COMPLETE INTERIM REMEDIAL ACTIONS FOR THE 300-FF-2 WASTE SITES AND CONFIRMATORY SAMPLING OF 300-FF-2 CANDIDATE SITES INSIDE THE FENCE.<br><br>THE MILESTONE DELIVERABLE SHALL INCLUDE AT LEAST: 1) A SCHEDULE FOR SUBMITTALS OF ANY DOCUMENTS REQUIRING EPA AND/OR ECOLOGY APPROVAL (E.G., REMEDIAL DESIGN/REMEDIAL ACTION WORK PLANS, ETC.); 2) A SCHEDULE THAT DEFINES DATES FOR INITIATING AND COMPLETING INTERIM REMEDIAL ACTIONS AT WASTE SITES AND ASSOCIATED IMPEDING SURPLUS FACILITIES; 3) A TRI-PARTY AGREEMENT CHANGE PACKAGE THAT INCLUDES MILESTONES FOR GROUPS OF WASTE SITES AND IMPEDING FACILITIES THAT WILL ENSURE COMPLETION OF M-016-00B; AND, 4) A TRI-PARTY AGREEMENT DISPOSITION PATH FOR ANY REMAINING 300-FF-2 WASTE SITES. IT IS EXPECTED THAT SCHEDULES WILL BE ALIGNED WITH THE ASSOCIATED SCHEDULES REQUIRED BY M-094-04.  | 08/30/2005      |
| M-016-66      | INITIATE INTERMEDIATE DESIGN AND AUTHORIZATION SAFETY   | 09/30/2004      |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u>                       | <u>Milestone</u>  | <u>Due Date</u> |
|-------------------------------------|---|-----------------|
|                                     | <p>ANALYSIS FOR REMEDIAL ACTIONS AT THE 618-10 AND 618-11 BURIAL GROUNDS.</p> <p>THE INTERMEDIATE DESIGN SHALL INCLUDE, AT A MINIMUM, A DESIGN BASIS REPORT, REMEDIATION APPROACH (I.E., PROCESS DEFINITION), SITE LAY OUT, EVALUATION OF INFRASTRUCTURE REQUIREMENTS (I.E., M-091 AND WASTE ISOLATION PILOT PLANT [WIPP] INTEGRATION PLANNING), AND PLANNING FOR TREATABILITY TESTS. INTERMEDIATE DESIGN ACTIVITIES WILL UTILIZE WIPP REMOTE HANDLED TRANSURANIC (RH-TRU) AND M-91 WASTE ACCEPTANCE CRITERIA, AN EVALUATION OF RH TRU TECHNOLOGY DEVELOPMENT EFFORTS AND AN EVALUATION OF LESSONS LEARNED FROM OTHER ONGOING DOE COMPLEX TRU EXCAVATION EFFORTS. THE AUTHORIZATION SAFETY ANALYSIS SHALL INCLUDE, AT A MINIMUM, ANY APPROVALS REQUIRED TO SUPPORT ADDITIONAL SITE CHARACTERIZATION WITHIN 618-10 AND 618-11 BURIAL GROUNDS FOR DESIGN PURPOSES AND ANY TREATABILITY INVESTIGATIONS.</p>  |                 |
| M-016-67                            | <p>SUBMIT AN INTERMEDIATE DESIGN REPORT, A REMEDIATION SCHEDULE AND A TREATABILITY INVESTIGATION WORK PLAN FOR REMEDIAL ACTIONS AT THE 618-10 AND 618-11 BURIAL GROUNDS.</p> <p>THE INTERMEDIATE DESIGN REPORT SHOULD REPRESENT A 60% COMPLETE DESIGN REPORT. THE REMEDIATION SCHEDULE MUST IDENTIFY: 1) DATES FOR INITIATING AND COMPLETING INTERIM REMEDIAL ACTIONS AT WASTE SITES; AND 2) ANY DOCUMENTS REQUIRING EPA AND/OR ECOLOGY APPROVAL PRIOR TO INITIATING REMEDIAL ACTIONS (E.G., RD/RA WORK PLANS, ETC.). THE TREATABILITY INVESTIGATION WORK PLAN MUST BE CONSISTENT WITH WIPP RH-TRU AND M-91 WASTE ACCEPTANCE CRITERIA AND WILL BE SUBMITTED AS A TRI-PARTY AGREEMENT PRIMARY DOCUMENT.</p>  | 03/31/2007      |
| M-020-00<br>LEAD AGENCY:<br>ECOLOGY | <p>SUBMIT PART B PERMIT APPLICATIONS OR CLOSURE/POSTCLOSURE PLANS FOR ALL RCRA TSD UNITS. PERMIT APPLICATIONS, CLOSURE, AND POST-CLOSURE PLANS WILL BE SUBMITTED TO ECOLOGY FOR APPROVAL. INDIVIDUAL UNIT SUBMITTALS (ENFORCEABLE AS INTERIM MILESTONES) WILL OCCUR AS SHOWN IN APPENDIX D.</p> <p>PRECLOSURE WORK PLANS WILL BE PREPARED AND SUBMITTED FOR APPROVAL FOR TSD UNITS WHICH WILL ACHIEVE CLOSURE IN CONJUNCTION WITH THE DISPOSITION OF THE FACILITY IN WHICH THEY ARE CONTAINED.</p> <p>COMPLIANCE WITH THE WORK SCHEDULES SET FORTH IN THIS M-20 SERIES IS DEFINED AS THE PERFORMANCE OF SUFFICIENT WORK TO ASSURE WITH REASONABLE CERTAINTY THAT DOE WILL ACCOMPLISH SERIES M-20 MAJOR AND INTERIM MILESTONE REQUIREMENTS.</p> <p>DOE INTERNAL WORK SCHEDULES (E.G., DOE APPROVED SCHEDULE BASELINES) AND ASSOCIATED WORK DIRECTIVES AND AUTHORIZATIONS SHALL BE CONSISTENT WITH THE REQUIREMENTS OF THIS AGREEMENT. MODIFICATION OF DOE CONTRACTOR BASELINE(S) AND ISSUANCE OF ASSOCIATED DOE WORK DIRECTIVES AND/OR AUTHORIZATIONS THAT ARE</p> | 12/31/2008      |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>  | <u>Due Date</u> |
|---------------|---|-----------------|
|               | NOT CONSISTENT WITH AGREEMENT REQUIREMENTS SHALL NOT BE FINALIZED PRIOR TO APPROVAL OF AN AGREEMENT CHANGE REQUEST SUBMITTED PURSUANT TO AGREEMENT ACTION PLAN SECTION 12.0.  |                 |
| M-020-00A     | SUBMIT PART B PERMIT APPLICATIONS OR CLOSURE/POST CLOSURE PLANS FOR ALL RCRA TSD UNITS EXCEPT 216-A-10, 216-A-36B, 216-A-37-1, 207-A SOUTH RETENTION BASIN, 216-S-10 POND, 216-S-10 DITCH, 241-CX-70, 241-CX-71, AND 241-CX-72.   | 02/28/2004      |
| M-020-00B     | SUBMIT CLOSURE/POST-CLOSURE PLANS FOR 216-A-10, 216-A-36B, 216-A-37-1, 207-A SOUTH RETENTION BASIN, 216-S-10 POND, 216-S-10 DITCH, 241-CX-70, 241-CX-71, AND 241-CX-72.   | 12/31/2008      |
| M-20-29B      | Submit sodium storage facility and sodium reaction facility closure plan or request for procedural closure to Ecology as defined in Agreement section 6.3.3.<br><br>FFTF constructed the sodium storage facility (SSF) on the basis of providing RCRA and WAC 173-303 compliant storage for the sodium in the event it was determined not to be product material. The sodium reaction facility (SRF) was also included in the permit request, even though construction of the SRF was not planned at that time. The FFTF, Hallam and SRE sodium will be used as a product feedstock in the pretreatment at the Waste Treatment Plant (WTP). The sodium will be stored as product material in the sodium storage facility. Therefore, a request for procedural closure as defined in section 6.3.3 of the Agreement will be submitted for the SSF and SRF units. | 06/30/2003      |
| M-020-33      | SUBMIT 216-A-10 CRIB, 216-A-36B CRIB, 216-A-37-1 CRIB, AND 207-A SOUTH RETENTION BASIN CLOSURE/POST CLOSURE PLANS TO ECOLOGY IN COORDINATION WITH THE FEASIBILITY STUDY FOR THE 200-PW-2 URANIUM-RICH PROCESS WASTE GROUP OPERABLE UNIT (TO BE COORDINATED UNDER M-15-43C).   | 12/31/2005      |
| M-020-39      | SUBMIT 216-S-10 POND AND DITCH CLOSURE/POSTCLOSURE PLAN TO ECOLOGY IN COORDINATION WITH THE FEASIBILITY STUDY FOR THE 200-CS-1 CHEMICAL SEWER GROUP OPERABLE UNIT (TO BE COORDINATED UNDER M-15-39C).   | 11/30/2005      |
| M-020-54      | SUBMIT 241-CX-70 STORAGE TANK, 241-CX-71 NEUTRALIZATION TANK, 241-CX-72 STORAGE TANK CLOSURE/POST CLOSURE PLAN TO ECOLOGY IN COORDINATION WITH THE 200-IS-1 TANKS/LINES/PITS/BOXES OPERABLE UNIT WORK PLAN FEASIBILITY STUDY SCHEDULED UNDER M-13-00M.  | 12/31/2008      |
| M-020-56      | SUBMIT CANISTER STORAGE FACILITY PART B DANGEROUS WASTE PERMIT APPLICATION TO ECOLOGY.  | 06/30/2003      |
| M-020-57      | SUBMIT ILAW DISPOSAL FACILITY CERTIFIED PART B PERMIT APPLICATION TO ECOLOGY.   | 06/30/2003      |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u>                        | <u>Milestone</u>  | <u>Due Date</u> |
|--------------------------------------|---|-----------------|
| M-023-25                             | COMPLETE THE INSTALLATION OF LIQUID OBSERVATION WELLS (LOWS) FOR SSTs AX-103, B-101, T-101, T-109, TX-103, TX-104, B-107, B-108, B-109, BY-108, BX-110, TX-116, C-102, C-105, BX-109, TY-105, U-110, A-106, C-112, SX-111, SX-112, S-107, C-103, AND TX-105. ORDER OF INSTALLATION OF THESE LOWs SHALL GIVE PRIORITY TO THOSE CONTAINING PREDOMINANTLY SALT CAKE, OR WHICH OTHERWISE POSE A HIGHER RISK OF ENVIRONMENTAL CONTAMINATION SHOULD THEY FAIL. NOTE: LOW MONITORING FREQUENCY AND OTHER LEAK DETECTION AND MONITORING REQUIREMENTS WILL BE REVIEWED AS PART OF THE SINGLE-SHELL TANK SYSTEM LEAK DETECTION AND MONITORING FUNCTIONS AND REQUIREMENTS DOCUMENT.  | 09/30/2004      |
| M-023-25D                            | COMPLETE THE INSTALLATION OF LIQUID OBSERVATION WELLS (LOWs) AND BEGIN WEEKLY LIQUID OBSERVATION MONITORING FOR FOUR ADDITIONAL SSTs.   | 09/30/2003      |
| M-023-25E                            | PROCURE NECESSARY EQUIPMENT TO SUPPORT ADDITIONAL LOW MONITORING SYSTEMS.   | 09/30/2003      |
| M-023-25F                            | COMPLETE THE INSTALLATION OF LIQUID OBSERVATION WELLS (LOWs) AND BEGIN WEEKLY LIQUID OBSERVATION MONITORING FOR FOUR ADDITIONAL SSTs.   | 03/31/2004      |
| M-023-25G                            | COMPLETE THE INSTALLATION OF LIQUID OBSERVATION WELLS (LOWs) AND BEGIN WEEKLY LIQUID OBSERVATION MONITORING FOR FOUR ADDITIONAL SSTs.   | 09/30/2004      |
| M-024-000<br>LEAD AGENCY:<br>ECOLOGY | <p>INSTALL RCRA GROUNDWATER MONITORING WELLS AT THE RATE OF 29 IN CY 1989, 30 IN CY 1990, AND UP TO 50 PER YEAR THEREAFTER AS SPECIFIED BY AGREED INTERIM MILESTONES UNTIL ALL LAND DISPOSAL UNITS AND SINGLE-SHELL TANKS ARE DETERMINED TO HAVE RCRA COMPLIANT MONITORING SYSTEMS.</p> <p>USDOE WILL INSTALL GROUNDWATER MONITORING WELLS AROUND RCRA LAND DISPOSAL UNITS AND THE SINGLE-SHELL TANKS AT THE RATE DESCRIBED ABOVE UNTIL ECOLOGY AGREES THAT ALL SUCH GROUNDWATER MONITORING SYSTEMS MEET THE REQUIREMENTS OF WAC 173-303-645.</p> <p>INSTALLATION OF GROUNDWATER WELLS SHALL MEAN THAT WELLS HAVE BEEN DRILLED, ADEQUATELY SEALED, AND SCREENED OVER NO MORE THAN 15 FEET OF THE AQUIFER UNLESS OTHERWISE APPROVED BY ECOLOGY, THAT ALL PUMPS AND ASSOCIATED SAMPLING EQUIPMENT HAVE BEEN INSTALLED, AND THAT SUCH WELLS HAVE BEEN DEVELOPED SUFFICIENTLY TO PROVIDE SATISFACTORY SAMPLES FOR ALL PARAMETERS TO BE ANALYZED.</p> <p>SPECIFIC UNITS TO RECEIVE GROUNDWATER WELLS AND THE NUMBER OF WELLS TO BE INSTALLED AT EACH UNIT WILL BE IDENTIFIED IN APPENDIX D IN TWO-YEAR INTERVALS (I.E., 1989 AND CY 1990 NOW, CY 1990 AND CY 1991 AT THE NEXT CY ANNUAL UPDATE, ETC.). SUCH SCHEDULES WILL BE ENFORCEABLE AS INTERIM MILESTONES.</p> | 12/31/2003      |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u>                        | <u>Milestone</u>  | <u>Due Date</u>                             |
|--------------------------------------|---|---|
| M-024-00P<br>LEAD AGENCY:<br>ECOLOGY | INSTALL RCRA GROUNDWATER MONITORING WELLS AT THE RATE OF UP TO 50 ..... (IF REQUIRED). (PLEASE REFER TO MILESTONE M-24-000 FOR COMPLETE WORDING OF THIS MILESTONE AND WORDING DETERMINING NUMBER OF WELLS TO BE DRILLED IN ANY ONE YEAR).   | 12/31/2004                                  |
| M-024-00Q<br>LEAD AGENCY:<br>ECOLOGY | INSTALL RCRA GROUNDWATER MONITORING WELLS AT THE RATE OF UP TO 50 ..... (IF REQUIRED). (PLEASE REFER TO MILESTONE M-24-000 FOR COMPLETE WORDING OF THIS MILESTONE AND WORDING DETERMINING NUMBER OF WELLS TO BE DRILLED IN ANY ONE YEAR).   | 12/31/2005                                  |
| M-024-00R<br>LEAD AGENCY:<br>ECOLOGY | INSTALL RCRA GROUNDWATER MONITORING WELLS AT THE RATE OF UP TO 50 ..... (IF REQUIRED). (PLEASE REFER TO MILESTONE M-24-000 FOR COMPLETE WORDING OF THIS MILESTONE AND WORDING DETERMINING NUMBER OF WELLS TO BE DRILLED IN ANY ONE YEAR)..  | 12/31/2006<br>AND<br>ANNUALLY<br>THEREAFTER |
| M-026-01M                            | <p>SUBMIT AN ANNUAL HANFORD LAND DISPOSAL RESTRICTIONS REPORT IN ACCORDANCE WITH AGREEMENT REQUIREMENTS TO COVER THE PERIOD FROM 1/1 OF THE PREVIOUS YEAR THROUGH 12/31 OF THE REPORTING YEAR.</p> <p>DOE'S ANNUAL HANFORD LAND DISPOSAL RESTRICTIONS REPORT: 1) WILL BE EQUIVALENT TO (I.E. SHALL MEET ALL SUBSTANTIVE REQUIREMENTS OF) SITE TREATMENT PLANS AS REQUIRED BY THE FEDERAL FACILITY COMPLIANCE ACT OF 1992 (FFCA) AND 2) WILL MEET ALL REQUIREMENTS OF ECOLOGY'S FINAL DETERMINATION IN THIS MATTER DATED MARCH 29, 2000.</p> <p>THE REPORT SHALL INCLUDE A DESCRIPTION OF ACTIVITIES PLANNED AND TAKEN IN ACCORDANCE WITH AGREEMENT REQUIREMENTS AND PRIOR ANNUAL LDR REPORTS TO ACHIEVE FULL COMPLIANCE WITH AGREEMENT AND LDR REQUIREMENTS. THE REPORT SHALL UPDATE ALL INFORMATION CONTAINED IN THE LDR PLAN AND THE PRIOR ANNUAL LDR REPORT, INCLUDING PLANS AND SCHEDULES.</p> <p>THE FORMAT FOR THE REPORT SHALL BE BASED ON EQUIVALENCY WITH SITE TREATMENT PLAN REQUIREMENTS OF THE FFCA, ECOLOGY'S FINAL DETERMINATION IN THIS MATTER DATED MARCH 29, 2000, AND THE "REQUIREMENTS FOR HANFORD LDR PLAN," ISSUED BY EPA AND ECOLOGY ON APRIL 10, 1990. ADDITIONALLY, THE REPORT SHALL DESCRIBE ANY OTHER STUDIES OR EFFORTS THAT HAVE BEEN OR WILL BE UNDERTAKEN TO IDENTIFY ALTERNATIVES TO LAND DISPOSAL OF MIXED WASTES. THE NONRADIOACTIVE PORTION OF ANY MIXED WASTES THAT ARE REGULATED UNDER WASHINGTON STATE-ONLY REGULATIONS SHALL BE ADDRESSED IN THE REPORT. THE REPORT SHALL BE SUBMITTED AS A PRIMARY DOCUMENT.</p> <p>THE REPORT SHALL DOCUMENT AGREEMENT MAJOR AND INTERIM MILESTONES FOR ACHIEVING COMPLIANCE WITH LDR TREATMENT REQUIREMENTS AT TSD MIXED WASTE UNITS BY: 1) IDENTIFYING AND REPORTING PROGRESS AGAINST AGREEMENT MILESTONES AND 2) PROPOSING THE ESTABLISHMENT OF MILESTONES IN THE INSTANCE OF TSD MIXED WASTES NOT YET COVERED UNDER THE AGREEMENT AND FOR</p> | 04/30/2003                                  |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u>                    | <u>Milestone</u>   | <u>Due Date</u>                              |
|----------------------------------|--|--|
|                                  | THE MODIFICATION OF CURRENT HFFACO SCHEDULES AS NECESSARY TO ACHIEVE COMPLIANCE WITH LDR TREATMENT REQUIREMENTS IN A MANNER EQUIVALENT TO STPs AS REQUIRED BY THE FFCA. THESE MILESTONES SHALL BE BASED ON SIGNIFICANT EVENTS IDENTIFIED IN THE LDR REPORT (I.E. SCHEDULES EQUIVALENT TO THOSE OF SITE TREATMENT PLANS AS REQUIRED BY THE FFCA) AND WILL BE SHOWN AS SCHEDULES WHICH ARE UPDATED ANNUALLY AS PART OF THE REPORT. APPROPRIATE MILESTONES WILL BE INCORPORATED IN THE AGREEMENT VIA THE CHANGE PROCESS DEFINED IN SECTION 12 OF THE ACTION PLAN UPON ISSUANCE OF THE APPROVED REPORTS. |  |
| M-026-01N                        | SUBMIT AN ANNUAL HANFORD LAND DISPOSAL RESTRICTIONS REPORT IN ACCORDANCE WITH AGREEMENT REQUIREMENTS TO COVER THE PERIOD FROM 1-1 OF THE PREVIOUS YEAR THROUGH 12-31 OF THE REPORTING YEAR. (SEE M-26-01M FOR COMPLETE WORDING OF THIS MILESTONE)  | 04/30/2004                                   |
| M-026-01O                        | SUBMIT AN ANNUAL HANFORD LAND DISPOSAL RESTRICTIONS REPORT IN ACCORDANCE WITH AGREEMENT REQUIREMENTS TO COVER THE PERIOD FROM 1-1 OF THE PREVIOUS YEAR THROUGH 12-31 OF THE REPORTING YEAR. (SEE M-26-01M FOR COMPLETE WORDING OF THIS MILESTONE)  | 04/30/2005                                   |
| M-026-01P                        | SUBMIT AN ANNUAL HANFORD LAND DISPOSAL RESTRICTIONS REPORT IN ACCORDANCE WITH AGREEMENT REQUIREMENTS TO COVER THE PERIOD FROM 1-1 OF THE PREVIOUS YEAR THROUGH 12-31 OF THE REPORTING YEAR. (SEE M-26-01M FOR COMPLETE WORDING OF THIS MILESTONE)  | 04/30/2006<br>AND<br>ANNUALLY<br>THEREAFTER  |
| M-026-05J                        | SUBMIT TO EPA AND ECOLOGY AN EVALUATION OF DEVELOPMENT STATUS OF TRITIUM TREATMENT TECHNOLOGY THAT WOULD BE PERTINENT TO THE CLEANUP AND MANAGEMENT OF TRITIATED WASTE WATER (e.g., THE 242-A EVAPORATOR PROCESS CONDENSATE LIQUID EFFLUENT) AND TRITIUM CONTAMINATED GROUNDWATER AT THE HANFORD SITE.   | 08/31/2003                                   |
| M-026-05L                        | SUBMIT TO EPA AND ECOLOGY AN EVALUATION OF DEVELOPMENT STATUS OF TRITIUM TREATMENT TECHNOLOGY THAT WOULD BE PERTINENT TO THE CLEANUP AND MANAGEMENT OF TRITIATED WASTE WATER (e.g., THE 242-A EVAPORATOR PROCESS CONDENSATE LIQUID EFFLUENT) AND TRITIUM CONTAMINATED GROUNDWATER AT THE HANFORD SITE.   | 08/31/2005<br>AND<br>BIENNIALY<br>THEREAFTER |
| M-034-00A<br>LEAD AGENCY:<br>EPA | COMPLETE REMOVAL OF SPENT NUCLEAR FUEL, SLUDGE, DEBRIS, AND WATER AT DOE'S K BASINS. NOTE: UNLESS OTHERWISE NOTED, THE TERM "K BASINS" IS USED HERE TO DENOTE BOTH K EAST AND K WEST BASINS.   | 07/31/2007                                   |
| M-034-08                         | INITIATE FULL SCALE K EAST BASIN SLUDGE REMOVAL.<br><br>DOE SHALL COMPLETE AND APPROVE K EAST SLUDGE REMOVAL DEFINITIVE DESIGN DOCUMENTS, ALL ASSOCIATED CONSTRUCTION, AND READINESS ASSESSMENTS, AND INITIATE REMOVAL OF SLUDGE FROM THE BASIN.   | 12/31/2002                                   |
| M-034-09-T01                     | COMPLETE K BASINS RACK AND CANISTER REMOVAL. ALL FUEL STORAGE RACKS AND EMPTY FUEL CANISTERS SHALL BE REMOVED FROM THE K BASINS.   | 01/31/2005                                   |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u>                    | <u>Milestone</u>   | <u>Due Date</u>     |
|----------------------------------|--|---------------------|
| M-034-10                         | COMPLETE SLUDGE REMOVAL FROM K BASINS. FUEL PROCESSING IN K BASINS SHALL BE COMPLETE, INCLUDING THE CAPTURE OF FUEL CANISTER SLUDGE IN THE INTEGRATED WATER TREATMENT SYSTEM AND REMOVAL OF VISIBLE FLOOR AND PIT SLUDGE.  | 08/31/2004          |
| M-034-18B                        | COMPLETE REMOVAL OF ALL K BASIN SPENT NUCLEAR FUEL.<br><br>THIS INTERIM MILESTONE WILL BE COMPLETE WHEN ALL SPENT NUCLEAR FUEL HAS BEEN REMOVED FROM BOTH THE K WEST BASIN AND THE K EAST BASIN AND HAS BEEN TRANSPORTED TO THE COLD VACUUM DRYING FACILITY. IT IS UNDERSTOOD THAT ADDITIONAL FUEL FRAGMENTS MAY BE DISCOVERED DURING REMOVAL OF THE SLUDGE. | 07/31/2004          |
| M-034-21-T01                     | INITIATE FULL SCALE K WEST BASIN WATER REMOVAL.  | 10/31/2005          |
| M-034-22                         | COMPLETE K WEST BASIN WATER REMOVAL.   | 08/31/2006          |
| M-034-23                         | INITIATE FULL SCALE K EAST BASIN WATER REMOVAL.  | 09/30/2004          |
| M-034-24                         | COMPLETE K EAST BASIN WATER REMOVAL.   | 09/30/2005          |
| M-034-25-T01                     | COMPLETE TRANSFER OF K EAST BASIN SPENT NUCLEAR FUEL TO THE K WEST BASIN.<br><br>THIS TARGET DATE WILL BE COMPLETE WHEN ALL SPENT NUCLEAR FUEL HAS BEEN REMOVED FROM THE K EAST BASIN AND HAS BEEN TRANSPORTED INTO THE K WEST BASIN. IT IS UNDERSTOOD THAT ADDITIONAL FUEL FRAGMENTS MAY BE DISCOVERED DURING THE SUBSEQUENT REMOVAL OF THE SLUDGE.         | 05/31/2004          |
| M-034-27-T01                     | COMPLETE REMOVAL OF SPENT NUCLEAR FUEL EQUIVALENT TO 1,252 METRIC TONS HEAVY METAL FROM THE K WEST BASIN.<br><br>THIS INTERIM MILESTONE WILL BE COMPLETE WHEN SPENT NUCLEAR FUEL EQUIVALENT TO 1,252 METRIC TONS HEAVY METAL HAS BEEN REMOVED FROM K WEST BASIN AND TRANSPORTED TO THE COLD VACUUM DRYING FACILITY.  | 05/31/2003          |
| M-034-28                         | COMPLETE REMOVAL OF SPENT NUCLEAR FUEL EQUIVALENT TO 1,619 METRIC TONS HEAVY METAL FROM THE K WEST BASIN.<br><br>THIS INTERIM MILESTONE WILL BE COMPLETE WHEN SPENT NUCLEAR FUEL EQUIVALENT TO 1,619 METRIC TONS HEAVY METAL HAS BEEN REMOVED FROM THE K WEST BASIN AND TRANSPORTED TO THE COLD VACUUM DRYING FACILITY.                                      | 12/31/2003          |
| M-035-00<br>LEAD AGENCY:<br>DUAL | COMPLETE DATA MANAGEMENT ENHANCEMENTS AS NEGOTIATED AND APPROVED IN M-35-00 INTERIM MILESTONES.  | To Be<br>Determined |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u>                       | <u>Milestone</u>   | <u>Due Date</u>                               |
|-------------------------------------|--|---|
| M-035-09D                           | CONDUCT BIENNIAL ASSESSMENTS OF INFORMATION AND DATA ACCESS NEEDS WITH EPA AND ECOLOGY. DOE WILL PROPOSE IMPLEMENTATION SCHEDULES (TPA MILESTONES) FOR ENHANCEMENTS AS A RESULT OF THE BIENNIAL ASSESSMENTS.   | 03/31/2004                                    |
| M-035-09E                           | CONDUCT BIENNIAL ASSESSMENTS OF INFORMATION AND DATA ACCESS NEEDS WITH EPA AND ECOLOGY. DOE WILL PROPOSE IMPLEMENTATION SCHEDULES (TPA MILESTONES) FOR ENHANCEMENTS AS A RESULT OF THE BIENNIAL ASSESSMENTS.   | 03/31/2006<br>AND<br>BIENNIALLY<br>THEREAFTER |
| M-042-00<br>LEAD AGENCY:<br>ECOLOGY | PROVIDE ADDITIONAL DOUBLE-SHELL TANK CAPACITY.   | To Be<br>Determined                           |
| M-043-00<br>LEAD AGENCY:<br>ECOLOGY | COMPLETE TANK FARM UPGRADES.   | 06/30/2005                                    |
| M-043-16                            | START CONSTRUCTION FOR UPGRADES IN THE FIFTH TANK FARM.  | 06/30/2003                                    |
| M-045-00<br>LEAD AGENCY:<br>ECOLOGY | <p>COMPLETE CLOSURE OF ALL SINGLE SHELL TANK FARMS.</p> <p>CLOSURE WILL FOLLOW RETRIEVAL OF AS MUCH TANK WASTE AS TECHNICALLY POSSIBLE, WITH TANK WASTE RESIDUES NOT TO EXCEED 360 CUBIC FEET (CU. FT.) IN EACH OF THE 100 SERIES TANKS, 30 CU. FT. IN EACH OF THE 200 SERIES TANKS, OR THE LIMIT OF WASTE RETRIEVAL TECHNOLOGY CAPABILITY, WHICHEVER IS LESS. IF THE DOE BELIEVES THAT WASTE RETRIEVAL TO THESE LEVELS IS NOT POSSIBLE FOR A TANK, THEN DOE WILL SUBMIT A DETAILED EXPLANATION TO EPA AND ECOLOGY EXPLAINING WHY THESE LEVELS CANNOT BE ACHIEVED, AND SPECIFYING THE QUANTITIES OF WASTE THAT THE DOE PROPOSES TO LEAVE IN THE TANK. THE REQUEST WILL BE APPROVED OR DISAPPROVED BY EPA AND ECOLOGY ON A TANK-BY-TANK BASIS. PROCEDURES FOR MODIFYING THE RETRIEVAL CRITERIA LISTED ABOVE, AND FOR PROCESSING REQUESTS FOR EXCEPTIONS TO THE CRITERIA ARE OUTLINED IN APPENDIX H TO THE AGREEMENT.</p> <p>FOLLOWING COMPLETION OF RETRIEVAL, SIX OPERABLE UNITS (TANK FARMS), AS DESCRIBED IN APPENDIX C (200-BP-7, 200-PO-3, 200-RO-4, 200-TP-5, 200-TP-6, 200-UP-3), WILL BE REMEDIATED IN ACCORDANCE WITH THE APPROVED CLOSURE PLANS. FINAL CLOSURE OF THE OPERABLE UNITS (TANK FARMS) SHALL BE DEFINED AS REGULATORY APPROVAL OF COMPLETION OF CLOSURE ACTIONS AND COMMENCEMENT OF POST-CLOSURE ACTIONS.</p> <p>FOR THE PURPOSES OF THIS AGREEMENT ALL UNITS LOCATED WITHIN THE BOUNDARY OF EACH TANK FARM WILL BE CLOSED IN ACCORDANCE WITH WAC 173-303-610. THIS INCLUDES CONTAMINATED SOIL AND ANCILLARY EQUIPMENT THAT WERE PREVIOUSLY DESIGNATED AS RCRA PAST PRACTICE UNITS. ADOPTING THIS APPROACH WILL ENSURE EFFICIENT USE OF FUNDING AND WILL REDUCE POTENTIAL DUPLICATION OF EFFORT VIA APPLICATION OF DIFFERENT REGULATORY REQUIREMENTS: WAC 173-303-610 FOR CLOSURE OF THE TSD UNITS AND RCRA SECTION 3004(U) FOR REMEDIATION OF RCRA PAST PRACTICE UNITS.</p> | 09/30/2024                                    |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>  | <u>Due Date</u> |
|---------------|---|-----------------|
|               | <p>ALL PARTIES RECOGNIZE THAT THE RECLASSIFICATION OF PREVIOUSLY IDENTIFIED RCRA PAST PRACTICE UNITS TO ANCILLARY EQUIPMENT ASSOCIATED WITH THE TSD UNIT IS STRICTLY FOR APPLICATION OF A CONSISTENT CLOSURE APPROACH. UPGRADES TO PREVIOUSLY CLASSIFIED RCRA PAST PRACTICE UNITS TO ACHIEVE COMPLIANCE WITH RCRA OR DANGEROUS WASTE INTERIM STATUS TECHNICAL STANDARDS FOR TANK SYSTEMS (I.E., SECONDARY CONTAINMENT, INTEGRITY ASSESSMENTS, ETC.) WILL NOT BE MANDATED AS A RESULT OF THIS ACTION. HOWEVER, ANY EQUIPMENT MODIFIED OR REPLACED WILL MEET INTERIM STATUS STANDARDS. IN EVALUATING CLOSURE OPTIONS FOR SINGLE-SHELL TANKS, CONTAMINATED SOIL, AND ANCILLARY EQUIPMENT, ECOLOGY AND EPA WILL CONSIDER COST, TECHNICAL PRACTICABILITY, AND POTENTIAL EXPOSURE TO RADIATION. CLOSURE OF ALL UNITS WITHIN THE BOUNDARY OF A GIVEN TANK FARM WILL BE ADDRESSED IN A CLOSURE PLAN FOR THE SINGLE-SHELL TANKS.</p> <p>COMPLIANCE WITH THE WORK SCHEDULES SET FORTH IN THIS M-45 SERIES IS DEFINED AS THE PERFORMANCE OF SUFFICIENT WORK TO ASSURE WITH REASONABLE CERTAINTY THAT DOE WILL ACCOMPLISH SERIES M-45 MAJOR AND INTERIM MILESTONE REQUIREMENTS.</p> <p>DOE INTERNAL WORK SCHEDULES (E.G., DOE APPROVED SCHEDULE BASELINES) AND ASSOCIATED WORK DIRECTIVES AND AUTHORIZATIONS SHALL BE CONSISTENT WITH THE REQUIREMENTS OF THIS AGREEMENT. MODIFICATION OF DOE CONTRACTOR BASELINE(S) AND ISSUANCE OF ASSOCIATED DOE WORK DIRECTIVES AND/OR AUTHORIZATIONS THAT ARE NOT CONSISTENT WITH AGREEMENT REQUIREMENTS SHALL NOT BE FINALIZED PRIOR TO APPROVAL OF AN AGREEMENT CHANGE REQUEST SUBMITTED PURSUANT TO AGREEMENT ACTION PLAN SECTION 12.0. COMPLETION OF THIS MAJOR MILESTONE REQUIRES THE COMPLETION OF THE WORK SCOPE IN ALL PRECEDING MILESTONES AND TARGET DATES, UNLESS OTHERWISE AGREED TO BY THE PARTIES.</p> |                 |
| M-045-00B     | <p>COMPLETE "NEAR TERM" SST WASTE RETRIEVAL ACTIVITIES.</p> <p>UNTIL THE WASTE TREATMENT COMPLEX IS OPERATIONAL, THE AMOUNT OF DST SPACE AVAILABLE TO RECEIVE SST WASTE IS LIMITED. THE NEAR TERM FOCUS FOR SST WASTE RETRIEVAL WILL INCLUDE MAXIMIZING THE TRANSFER OF CONTAMINANTS OF CONCERN (LONG-LIVED, MOBILE RADIONUCLIDES) INTO THE DST SYSTEM. WORK UNDER THIS MILESTONE ALSO INCLUDES COMPLETION OF ONE "LIMITS OF TECHNOLOGY" RETRIEVAL DEMONSTRATION, INITIATION OF A SECOND "LIMITS OF TECHNOLOGY" RETRIEVAL DEMONSTRATION, AND RETRIEVAL OF SUFFICIENT SST WASTE CONTAINING NO LESS THAN 800 CURIES OF CONTAMINANTS OF CONCERN AND OCCUPYING A MINIMUM OF 2 MILLION GALLONS OF DST SPACE (PER DOE BEST-BASIS INVENTORY DATA, 8/01/2000). "LIMITS OF TECHNOLOGY" RETRIEVAL DEMONSTRATIONS WILL SEEK TO IMPROVE UPON PAST PRACTICE SLUICING (PPS) BASELINE TECHNOLOGY INCLUDING BUT NOT LIMITED TO RETRIEVAL EFFICIENCY, LEAK LOSS DURING RETRIEVAL, AND LEAK DETECTION MITIGATION AND MONITORING (LDMM). PROCEDURES FOR MODIFYING THE RETRIEVAL CRITERIA LISTED WITHIN THE ASSOCIATED</p>  | 09/30/2006      |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>  | <u>Due Date</u> |
|---------------|---|-----------------|
|               | MILESTONES, AND FOR PROCESSING REQUESTS FOR EXCEPTIONS TO THE CRITERIA ARE OUTLINED IN A NEW APPENDIX "H" TO THE AGREEMENT.   |                 |
| M-045-00C     | <p>COMPLETE RENEGOTIATION OF SECOND PHASE (I.E., 9/30/2006 THROUGH 9/30/2015) SST WASTE RETRIEVAL ACTIVITIES.</p> <p>THESE NEGOTIATIONS SHALL TAKE INTO ACCOUNT VARIABLES SUCH AS WORK IN PROGRESS, E.G., DOE'S TANK WASTE TREATMENT COMPLEX ACQUISITION INITIATIVE AND ENVIRONMENTAL AND HUMAN HEALTH RISKS ASSOCIATED WITH RELEASES FROM DOE'S SSTs. NEGOTIATIONS SHALL BE DESIGNED TO ESTABLISH A SUFFICIENT NUMBER OF AGREEMENT MILESTONES AND TARGET DATES TO EFFECTIVELY DRIVE EACH PHASE OF WORK INCLUDING BUT NOT LIMITED TO: 1.) WASTE RETRIEVAL TECHNOLOGY DEVELOPMENT, 2.) RETRIEVAL PERFORMANCE EVALUATIONS, 3.) LEAK DETECTION, MONITORING, AND MITIGATION, 4.) SELECTION OF SST RETRIEVAL SEQUENCE, 5.) DESIGN, CONSTRUCTION AND OPERATION OF SST WASTE RETRIEVAL SYSTEMS, AND 6.) CLOSURE PLANNING AND CLOSURE PLAN DEVELOPMENT. DOE, AND DOE'S CONTRACTOR(S) WILL RETRIEVE AND TRANSFER SST WASTES INTO THE DST SYSTEM AS SOON AS SPACE IS MADE AVAILABLE, ALLOWING DST SPACE FOR TREATMENT PLANT FEED STAGING AND SAFETY ISSUE RESOLUTION. TRANSFER OF SST WASTE WILL BE MADE ONCE SUFFICIENT DST SYSTEM SPACE IS AVAILABLE TO ALLOW A TRANSFER OF AN OPERATIONALLY PRACTICABLE VOLUME OF WASTE. SST WASTE WILL BE RETRIEVED ON A PRIORITY BASIS WITH THE GOALS OF REDUCING ENVIRONMENTAL RISK AND TREATMENT PROCESS OPTIMIZATION. DOE AND ECOLOGY WILL AGREE ON THE CRITERIA TO DETERMINE ENVIRONMENTAL RISK REDUCTION.</p> <p>NOTE: THESE NEGOTIATIONS WILL ALSO CONSIDER THE NEED FOR ADDITIONAL COMPLIANT STORAGE SPACE.</p> | 04/30/2004      |
| M-045-00D     | <p>COMPLETE RENEGOTIATION OF THE REMAINDER OF THE SST WASTE RETRIEVAL AND CLOSURE PROGRAM.</p> <p>THESE NEGOTIATIONS WILL ESTABLISH REGULATORY REQUIREMENTS FOR THE REMAINDER OF THE SST WASTE RETRIEVAL AND CLOSURE PROGRAM (THROUGH COMPLETION OF CLOSURE AT ALL SINGLE SHELL TANK FARMS). NEGOTIATIONS WILL INCLUDE MODIFICATION AS MAY BE NECESSARY OF COMPLETION DATES FOR SST WASTE RETRIEVAL AND SST FARM CLOSURE BASED ON EXPERIENCE GAINED FROM SST AND DST WASTE RETRIEVAL WORK COMPLETED, CORRECTIVE ACTIONS, PHASE I TREATMENT COMPLEX OPERATIONS, PHASE II TREATMENT PLANNING, KNOWN AND LIKELY VADOSE ZONE AND GROUNDWATER IMPACTS, AND OTHER AVAILABLE ENVIRONMENTAL IMPACT INFORMATION.</p> <p>DOE, AND DOE'S CONTRACTOR(S) WILL RETRIEVE AND TRANSFER SST WASTES INTO THE DST SYSTEM AS SOON AS SPACE IS MADE AVAILABLE, ALLOWING DST SPACE FOR TREATMENT PLANT FEED STAGING AND SAFETY ISSUE RESOLUTION. TRANSFER OF SST WASTE WILL BE MADE ONCE SUFFICIENT DST SYSTEM SPACE IS AVAILABLE TO ALLOW A TRANSFER OF AN OPERATIONALLY PRACTICABLE VOLUME OF WASTE. SST WASTE WILL BE RETRIEVED ON A PRIORITY BASIS WITH</p>   | 06/30/2011      |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>   | <u>Due Date</u>                             |
|---------------|--|---|
|               | THE GOALS OF REDUCING ENVIRONMENTAL RISK AND TREATMENT PROCESS OPTIMIZATION. DOE AND ECOLOGY WILL AGREE ON THE CRITERIA TO DETERMINE ENVIRONMENTAL RISK REDUCTION.   |   |
| M-045-02L     | SUBMIT ANNUAL UPDATES TO SST RETRIEVAL SEQUENCE DOCUMENT.<br><br>THIS PROVIDES FOR AN ANNUAL UPDATE OF A SST RETRIEVAL SEQUENCE DOCUMENT THAT WILL DEFINE THE TANK RETRIEVAL SEQUENCE, SELECTION CRITERIA AND, RATIONALE, REFERENCE RETRIEVAL METHOD(S) FOR EACH TANK, AND THE ESTIMATED RETRIEVAL SCHEDULES. THE RETRIEVAL SEQUENCE DOCUMENT WILL DETAIL RETRIEVAL METHODOLOGIES TO BE EMPLOYED AND ESTIMATED WASTE VOLUMES TO BE GENERATED DURING RETRIEVAL (TO BE TRANSFERRED TO THE DST'S OR OTHER AVAILABLE SAFE STORAGE). THE REPORT WILL ALSO DETAIL TANK SELECTION RATIONALE BASED ON THE PRIMARY OBJECTIVE OF MAXIMIZING RISK REDUCTION THROUGH THE RETRIEVAL OF MOBILE, LONG-LIVED RADIONUCLIDES OR POTENTIAL AIRBORNE CONTAMINANTS AND PRINCIPLE NON RADIOLOGICAL HAZARDOUS CONSTITUENTS IN A MANNER WHICH IS SENSITIVE TO WASTE TREATMENT FACILITY REQUIREMENTS AND INFRASTRUCTURE CONSTRAINTS. THE SEQUENCING WILL ALSO TAKE IN CONSIDERATION DOUBLE-SHELL TANK (DST) SPACE AND DST WASTE COMPATABILITY WHEN SELECTING THE SST RETRIEVAL SEQUENCE. THE ANNUAL UPDATES WILL BE SUBMITTED TO ECOLOGY FOR APPROVAL AS AGREEMENT PRIMARY DOCUMENTS. | 09/30/2003                                  |
| M-045-02M     | SUBMIT ANNUAL UPDATE OF SST RETRIEVAL SEQUENCE DOCUMENT. (SEE TEXT OF M-45-02L FOR FURTHER DETAILS).   | 09/30/2004                                  |
| M-045-02N     | SUBMIT ANNUAL UPDATE OF SST RETRIEVAL SEQUENCE DOCUMENT. (SEE TEXT OF M-45-02L FOR FURTHER DETAILS).   | 09/30/2005                                  |
| M-045-02O     | SUBMIT ANNUAL UPDATE OF SST RETRIEVAL SEQUENCE DOCUMENT. (SEE TEXT OF M-45-02L FOR FURTHER DETAILS).   | 09/30/2006                                  |
| M-045-02P     | SUBMIT ANNUAL UPDATE OF SST RETRIEVAL SEQUENCE DOCUMENT. (SEE TEXT OF M-45-02L FOR FURTHER DETAILS).   | 09/30/2007<br>AND<br>ANNUALLY<br>THEREAFTER |
| M-045-03C     | COMPLETE FULL SCALE SALTCAKE WASTE RETRIEVAL TECHNOLOGY DEMONSTRATION AT SINGLE-SHELL TANK S-112. WASTE SHALL BE RETRIEVED TO THE DST SYSTEM TO THE LIMITS OF THE TECHNOLOGY (OR TECHNOLOGIES) SELECTED. SELECTED SALTCAKE RETRIEVAL TECHNOLOGY (OR TECHNOLOGIES) MUST SEEK TO IMPROVE UPON THE PAST-PRACTICE SLUICING BASELINE IN THE AREAS OF EXPECTED RETRIEVAL EFFICIENCY, LEAK LOSS POTENTIAL, AND SUITABILITY FOR USE IN POTENTIALLY LEAKING TANKS. THIS DEMONSTRATION SHALL ALSO INCLUDE THE INSTALLATION AND IMPLEMENTATION OF FULL SCALE LEAK DETECTION, MONITORING, AND MITIGATION (LDMM) TECHNOLOGIES. THE PARTIES RECOGNIZE AND AGREE THAT THIS ACTION IS FOR DEMONSTRATION AND INITIAL WASTE RETRIEVAL PURPOSES. COMPLETION OF THIS DEMONSTRATION SHALL BE BY WRITTEN APPROVAL OF DOE AND ECOLOGY.  | 09/30/2005                                  |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>   | <u>Due Date</u> |
|---------------|--|-----------------|
|               | GOALS OF THIS DEMONSTRATION SHALL INCLUDE THE RETRIEVAL TO SAFE STORAGE OF APPROXIMATELY 550 CURIES OF MOBILE, LONG-LIVED RADIOISOTOPES AND 99% OF TANK CONTENTS BY VOLUME (PER DOE BEST-BASIS INVENTORY DATA, 8/01/2000).   |                 |
| M-045-03D     | COMPLETE S-112 SALTCAKE WASTE RETRIEVAL TECHNOLOGY DEMONSTRATION DESIGN (TO INCLUDE ALL PHYSICAL SYSTEMS INCLUDING DESIGN AND OPERATING STRATEGIES NECESSARY FOR LEAK DETECTION MONITORING AND MITIGATION (LDMM)). DESIGN WILL BE CONSIDERED COMPLETE WHEN 90% OF THE DESIGN HAS BEEN APPROVED FOR FABRICATION AND/OR CONSTRUCTION.  | 05/31/2003      |
| M-045-03E     | COMPLETE S-112 SALTCAKE WASTE RETRIEVAL TECHNOLOGY DEMONSTRATION CONSTRUCTION (TO INCLUDE ALL PHYSICAL SYSTEMS INCLUDING THOSE NECESSARY FOR LEAK DETECTION MONITORING AND MITIGATION).<br><br>CONSTRUCTION WILL BE CONSIDERED COMPLETE WHEN ALL PROCESS EQUIPMENT IS INSTALLED AND ACCEPTANCE TESTS ARE COMPLETED.  | 09/30/2004      |
| M-045-03F     | COMPLETE FULL SCALE SLUDGE/HARD HEEL, CONFINED SLUICING AND ROBOTIC TECHNOLOGIES, WASTE RETRIEVAL DEMONSTRATION AT TANK C-104.<br><br>WASTE SHALL BE RETRIEVED TO THE DST SYSTEM TO THE LIMITS OF THE TECHNOLOGY (OR TECHNOLOGIES) SELECTED. SELECTED SLUDGE/HARD HEEL TECHNOLOGY (OR TECHNOLOGIES) MUST SEEK TO IMPROVE UPON THE PAST-PRACTICE SLUICING BASELINE IN THE AREAS OF EXPECTED RETRIEVAL EFFICIENCY, LEAK LOSS POTENTIAL, AND SUITABILITY FOR USE IN POTENTIALLY LEAKING TANKS. CONFINED SLUICING IS DEFINED AS THE LOCALIZED ADDITION AND RETRIEVAL OF LIQUIDS AND WASTE. THIS DEMONSTRATION SHALL ALSO INCLUDE THE INSTALLATION AND IMPLEMENTATION OF FULL SCALE LEAK DETECTION, MONITORING, AND MITIGATION (LDMM) TECHNOLOGIES. THE PARTIES RECOGNIZE AND AGREE THAT THIS ACTION IS FOR DEMONSTRATION AND INITIAL WASTE RETRIEVAL PURPOSES. COMPLETION OF THIS DEMONSTRATION SHALL BE BY APPROVAL OF DOE AND ECOLOGY.<br><br>GOALS OF THIS DEMONSTRATION SHALL INCLUDE THE RETRIEVAL TO SAFE STORAGE OF APPROXIMATELY 89 KG OF PLUTONIUM WHICH REPRESENTS APPROXIMATELY 17% OF THE TOTAL PLUTONIUM INVENTORY WITHIN THE SST SYSTEM), AND 99% OF TANK CONTENTS BY VOLUME (PER DOE'S BEST-BASIS INVENTORY DATA OF 8/01/2000). | 09/30/2007      |
| M-045-03G     | COMPLETE C-104 SLUDGE/HARD HEEL, CONFINED SLUICING AND ROBOTIC TECHNOLOGIES, WASTE RETRIEVAL COLD DEMONSTRATION.<br><br>THIS FULL SCALE DEMONSTRATION WILL BE SUFFICIENT TO SUPPORT FINAL DESIGN AND TESTING OF ALL EQUIPMENT, INCLUDING THE LDMM APPROACH USED IN THE ACTUAL SYSTEM. THE DEMONSTRATION MUST ESTABLISH THE PERFORMANCE OF THE EQUIPMENT SPECIFIED IN THE   | 06/30/2004      |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>   | <u>Due Date</u> |
|---------------|--|-----------------|
|               | FUNCTIONS AND REQUIREMENTS DOCUMENT. A LETTER REPORT WILL BE SUBMITTED TO ECOLOGY TO DOCUMENT THE RESULTS OF THE COLD DEMONSTRATION.   |                 |
| M-045-03H     | COMPLETE C-104 SLUDGE/HARD HEEL, CONFINED SLUICING AND ROBOTIC TECHNOLOGIES, WASTE RETRIEVAL DEMONSTRATION DESIGN (TO INCLUDE ALL PHYSICAL SYSTEMS INCLUDING DESIGN AND OPERATING STRATEGIES NECESSARY FOR LEAK DETECTION MONITORING AND MITIGATION (LDMM)).<br><br>DESIGN WILL BE CONSIDERED COMPLETE WHEN 90% OF THE DESIGN HAS BEEN APPROVED FOR FABRICATION AND/OR CONSTRUCTION.   | 09/30/2004      |
| M-045-03I     | COMPLETE C-104 SLUDGE/HARD HEEL, CONFINED SLUICING AND ROBOTIC TECHNOLOGIES, WASTE RETRIEVAL DEMONSTRATION CONSTRUCTION (TO INCLUDE ALL PHYSICAL SYSTEMS INCLUDING THOSE NECESSARY FOR LEAK DETECTION MONITORING AND MITIGATION).<br><br>CONSTRUCTION WILL BE CONSIDERED COMPLETE WHEN ALL PROCESS EQUIPMENT IS INSTALLED AND ACCEPTANCE TESTS ARE COMPLETED.  | 09/30/2006      |
| M-045-05      | RETRIEVE WASTE FROM ALL REMAINING SINGLE-SHELL TANKS. COMPLETE WASTE RETRIEVAL FROM ALL REMAINING SINGLE-SHELL TANKS. RETRIEVAL STANDARDS AND COMPLETION DEFINITIONS ARE PROVIDED UNDER THE MAJOR MILESTONE. THE SCHEDULE REFLECTS RETRIEVAL ACTIVITIES ON A FARM-BY-FARM BASIS. IT ALSO ALLOWS FLEXIBILITY TO RETRIEVE TANKS FROM VARIOUS FARMS IF DESIRED TO SUPPORT SAFETY ISSUE RESOLUTION, PRETREATMENT OR DISPOSAL FEED REQUIREMENTS, OR OTHER PRIORITIES. | 09/30/2018      |
| M-045-05-T05  | INITIATE TANK RETRIEVAL FROM FIVE ADDITIONAL SINGLE-SHELL TANKS.   | 09/30/2007      |
| M-045-05-T06  | INITIATE TANK RETRIEVAL FROM FIVE ADDITIONAL SINGLE-SHELL TANKS.   | 09/30/2008      |
| M-045-05-T07  | INITIATE TANK RETRIEVAL FROM SEVEN ADDITIONAL SINGLE-SHELL TANKS.  | 09/30/2009      |
| M-045-05-T08  | INITIATE TANK RETRIEVAL FROM EIGHT ADDITIONAL SINGLE-SHELL TANKS.  | 09/30/2010      |
| M-045-05-T09  | INITIATE TANK RETRIEVAL FROM TEN ADDITIONAL SINGLE-SHELL TANKS.  | 09/30/2011      |
| M-045-05-T10  | INITIATE TANK RETRIEVAL FROM 12 ADDITIONAL SINGLE-SHELL TANKS.   | 09/30/2012      |
| M-045-05-T11  | INITIATE TANK RETRIEVAL FROM 14 ADDITIONAL SINGLE-SHELL TANKS.   | 09/30/2013      |
| M-045-05-T12  | INITIATE TANK RETRIEVAL FROM 17 ADDITIONAL SINGLE-SHELL TANKS.   | 09/30/2014      |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>  | <u>Due Date</u> |
|---------------|---|-----------------|
| M-045-05-T13  | INITIATE TANK RETRIEVAL FROM 20 ADDITIONAL SINGLE-SHELL TANKS.  | 09/30/2015      |
| M-045-05-T14  | INITIATE TANK RETRIEVAL FROM 20 ADDITIONAL SINGLE-SHELL TANKS.  | 09/30/2016      |
| M-045-05-T15  | INITIATE TANK RETRIEVAL FROM 20 ADDITIONAL SINGLE-SHELL TANKS.  | 09/30/2017      |
| M-045-05-T17  | <p>SUBMIT S-105, S-106, AND S-103 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION FUNCTIONS AND REQUIREMENTS DOCUMENT.</p> <p>THIS DOCUMENT WILL ESTABLISH DEMONSTRATION SYSTEM SPECIFICATIONS (INCLUDING LDMM SYSTEM SPECIFICATIONS) AND WILL ALSO INCLUDE A SCOPING LEVEL RETRIEVAL PERFORMANCE EVALUATION (RPE) FOR EACH TANK. THE FUNCTIONS AND REQUIREMENTS DOCUMENT AND ITS ASSOCIATED RPE SHALL ALSO PROVIDE, AS A SEPARATE EVALUATION FOR EACH OF THE THREE TANKS, ENVIRONMENTAL AND HUMAN HEALTH RISK EVALUATION DATA/INFORMATION ASSOCIATED WITH ESTIMATED WASTE VOLUMES TO BE RETRIEVED, THE MAXIMUM VOLUME WHICH COULD LEAK DURING RETRIEVAL, AND RISK FROM RESIDUAL WASTE. THIS DOCUMENT WILL DETAIL KNOWN AND ESTIMATED RADIONUCLIDE CONTAMINATION AND CONTAMINANT MIGRATION WITHIN THE VADOSE ZONE AS BASES OF CALCULATION. LDMM AND RPE DOCUMENTATION PROVIDED WILL BE ADEQUATE TO ALLOW ECOLOGY TO ASSESS THE ADEQUACY OF THE DEMONSTRATION SYSTEMS. THIS DOCUMENT WILL INCORPORATE LESSONS LEARNED, INCLUDING LDMM, RETRIEVAL, INSTRUMENTATION, AND OPERATIONAL EXPERIENCE FROM PREVIOUS DOE AND INDUSTRY RELATED RETRIEVAL PROJECTS. THE RETRIEVAL FUNCTIONS AND REQUIREMENTS DOCUMENT WILL DOCUMENT ALL PERTINENT RETRIEVAL AND CLOSURE REQUIREMENTS, E.G. THOSE SPECIFIC TO THE EXTENT OF RETRIEVAL NECESSARY TO ALLOW CLOSURE. DOE WILL SUBMIT ITS LDMM STRATEGY AS PART OF THE FUNCTIONS AND REQUIREMENTS DOCUMENT, PRIOR TO INITIATION OF DESIGN. THIS DOCUMENT WILL BE SUBMITTED FOR ECOLOGY APPROVAL AS AN AGREEMENT PRIMARY DOCUMENT.</p> <p>THIS FUNCTIONS AND REQUIREMENTS DOCUMENT WILL BE SUBMITTED IN A TIMELY FASHION SO THAT PROJECT CRITICAL PATH IS NOT AFFECTED, AND SO AS TO ALLOW ADEQUATE TIME FOR DOE AND ECOLOGY REVIEW, REVISION AND APPROVAL.</p> | 04/30/2005      |
| M-045-05A     | <p>COMPLETE INITIAL WASTE RETRIEVAL FROM TANK S-102.</p> <p>THE S-102 INITIAL WASTE RETRIEVAL TECHNOLOGY (OR TECHNOLOGIES) WILL BE SELECTED BASED ON THE PRINCIPLE CRITERIA OF MAXIMIZING THE RETRIEVAL OF MOBILE, LONG-LIVED RADIOISOTOPES AND NON-RADIOLOGICAL HAZARDOUS CONSTITUENTS. THE PARTIES RECOGNIZE AND AGREE THAT THIS ACTION IS FOR INITIAL WASTE RETRIEVAL PURPOSES. COMPLETION OF THIS INITIAL RETRIEVAL SHALL BE BY APPROVAL OF DOE AND ECOLOGY.</p>  | 09/30/2006      |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>  | <u>Due Date</u> |
|---------------|---|-----------------|
|               | <p>GOALS OF THIS INITIAL WASTE RETRIEVAL PROJECT SHALL INCLUDE THE RETRIEVAL TO SAFE STORAGE OF APPROXIMATELY 490 CURIES OF MOBILE, LONG-LIVED RADIOISOTOPES AND 99% OF TANK CONTENTS BY VOLUME (PER DOE BEST-BASIS INVENTORY DATA, 8/01/2000).</p> <p>COMPLETION OF S-102 INITIAL WASTE RETRIEVAL IS SUBJECT TO SAFE STORAGE SPACE AVAILABILITY CONSISTENT WITH M-45-00B.</p>        |                 |
| M-045-05B     | <p>COMPLETE S-102 INITIAL RETRIEVAL PROJECT DESIGN (TO INCLUDE ALL PHYSICAL SYSTEMS INCLUDING DESIGN AND OPERATING STRATEGIES NECESSARY FOR LEAK DETECTION MONITORING AND MITIGATION (LDMM)).</p> <p>THE DESIGN WILL BE CONSIDERED COMPLETE WHEN 90% OF THE DESIGN HAS BEEN APPROVED FOR FABRICATION AND/OR CONSTRUCTION.</p>   | 03/31/2004      |
| M-045-05C     | <p>COMPLETE S-102 INITIAL WASTE RETRIEVAL PROJECT CONSTRUCTION (TO INCLUDE ALL PHYSICAL SYSTEMS INCLUDING THOSE NECESSARY FOR LEAK DETECTION MONITORING AND MITIGATION).</p> <p>CONSTRUCTION WILL BE CONSIDERED COMPLETE WHEN ALL PROCESS EQUIPMENT IS INSTALLED AND ACCEPTANCE TESTS ARE COMPLETED.</p>  | 11/30/2005      |
| M-045-05E     | <p>COMPLETE S-105, S-106, AND S-103 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT DESIGN (TO INCLUDE ALL PHYSICAL SYSTEMS INCLUDING DESIGN AND OPERATING STRATEGIES NECESSARY FOR LEAK DETECTION MONITORING AND MITIGATION (LDMM) FOR EACH TANK).</p> <p>THE DESIGN WILL BE CONSIDERED COMPLETE WHEN 90% OF THE DESIGN HAS BEEN APPROVED FOR FABRICATION AND/OR CONSTRUCTION.</p> | 06/30/2007      |
| M-045-05F     | <p>COMPLETE S-105, S-106, AND S-103 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT CONSTRUCTION (TO INCLUDE ALL PHYSICAL SYSTEMS INCLUDING THOSE NECESSARY FOR LEAK DETECTION MONITORING AND MITIGATION).</p> <p>CONSTRUCTION WILL BE CONSIDERED COMPLETE WHEN ALL PROCESS EQUIPMENT IS INSTALLED AND ACCEPTANCE TESTS ARE COMPLETED.</p>  | 09/30/2008      |
| M-45-05G-T01  | <p>COMPLETE S-105, S-106, AND S-103 WASTE RETRIEVAL.</p> <p>WASTE SHALL BE RETRIEVED TO THE DST SYSTEM TO THE LIMITS OF THE TECHNOLOGY (OR TECHNOLOGIES) SELECTED. RETRIEVAL SHALL RETRIEVE AS MUCH WASTE AS TECHNICALLY POSSIBLE, WITH A REMAINING RESIDUAL OF NO MORE THAN 360 CUBIC FEET (CU. FT.).</p>  | 10/31/2009      |
| M-45-05H      | <p>INTERIM COMPLETION OF TANK C-106 SST WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT.</p> <p>THE C-106 SST WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT WILL BE CONSIDERED INTERIM COMPLETE WHEN THE FOLLOWING CRITERIA HAVE BEEN MET:</p>  | 4/30/2004       |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>  | <u>Due Date</u> |
|---------------|---|-----------------|
|               | <ol style="list-style-type: none"> <li>1. FULL SCALE WASTE RETRIEVAL HAS BEEN COMPLETED IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS INCLUDING WASHINGTON'S HAZARDOUS WASTE MANAGEMENT ACT AND REQUIREMENTS SET BY THIS AGREEMENT (DOE WILL DOCUMENT PROJECT DATA AND RESULTS IN A WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT REPORT).</li> <li>2. REMAINING WASTES HAVE BEEN ADEQUATELY CHARACTERIZED, AND A RISK ASSESSMENT, APPROVED BY ECOLOGY, HAS BEEN COMPLETED FOR RESIDUALS THAT REMAIN IN THE TANK.</li> <li>3. THE C-106 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PLAN HAS BEEN SUBMITTED BY DOE AND APPROVED BY ECOLOGY, I.E. INCORPORATED INTO THE SITE-WIDE PERMIT.</li> <li>4. IF APPROPRIATE, DOE HAS REQUESTED, AND ECOLOGY HAS APPROVED, AN EXCEPTION TO WASTE RETRIEVAL CRITERIA PURSUANT TO AGREEMENT APPENDIX H.</li> </ol> |                 |
| M-45-05N-T01  | <p>FINAL COMPLETION OF TANK C-106 SST RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT.</p> <p>COMPLETION OF THE TANK C-106 RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT IS DEFINED AS THE COMPLETION OF NECESSARY FIELD PROJECT ACTIONS REQUIRED BY THE APPROVED C-106 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PLAN.</p>   | 12/31/2004      |
| M-45-05J-T01  | <p>COMPLETE C-106 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT DESIGN (TO INCLUDE ALL PHYSICAL SYSTEMS INCLUDING DESIGN AND OPERATING STRATEGIES NECESSARY FOR LEAK DETECTION MONITORING AND MITIGATION (LDMM)).</p> <p>THE DESIGN WILL BE CONSIDERED COMPLETE WHEN 90% OF THE DESIGN HAS BEEN APPROVED FOR FABRICATION AND/OR CONSTRUCTION.</p>   | 4/30/2003       |
| M-45-05K-T01  | <p>COMPLETE C-106 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT CONSTRUCTION (TO INCLUDE ALL PHYSICAL SYSTEMS INCLUDING THOSE NECESSARY FOR LEAK DETECTION MONITORING AND MITIGATION).</p> <p>CONSTRUCTION WILL BE CONSIDERED COMPLETE WHEN ALL EQUIPMENT IS INSTALLED AND ACCEPTANCE TESTS ARE COMPLETED.</p>  | 9/30/2003       |
| M-45-05L-T01  | <p>COMPLETE FULL SCALE C-106 WASTE RETRIEVAL.</p> <p>WASTE SHALL BE RETRIEVED TO THE DST SYSTEM TO THE LIMITS OF THE TECHNOLOGY (OR TECHNOLOGIES) SELECTED. RETRIEVAL SHALL RETRIEVE AS MUCH WASTE AS TECHNICALLY POSSIBLE, WITH A REMAINING RESIDUAL OF NO MORE THAN 360 CUBIC FEET (CU. FT.).</p>   | 11/01/2003      |
| M-45-05M-T01  | <p>SUBMIT C-106 WASTE RETRIEVAL RESULTS, ANALYSIS OF RESIDUAL WASTE(S), AND (IF APPROPRIATE) REQUEST FOR EXCEPTION TO THE CRITERIA PURSUANT TO AGREEMENT APPENDIX H.</p>  | 2/27/2004       |
| M-045-06      | <p>COMPLETE CLOSURE OF ALL SINGLE-SHELL TANK FARMS IN ACCORDANCE</p>  | 09/30/2024      |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>  | <u>Due Date</u>                                   |
|---------------|---|---|
|               | WITH APPROVED CLOSURE/POST CLOSURE PLAN(S).   |   |
| M-045-06-T03  | INITIATE CLOSURE ACTIONS ON AN OPERABLE UNIT OR TANK FARM BASIS. CLOSURE SHALL FOLLOW COMPLETION OF THE RETRIEVAL ACTIONS UNDER PROPOSED MILESTONE M-45-05. CLOSURE WILL BE DEFINED IN AN APPROVED CLOSURE PLAN FOR THE DEMONSTRATION FARM. FINAL CLOSURE IS DEFINED AS REGULATORY APPROVAL OF COMPLETION OF CLOSURE ACTIONS.   | 03/31/2012  |
| M-045-06-T04  | COMPLETE CLOSURE ACTIONS ON ONE OPERABLE UNIT OR TANK FARM.   | 03/31/2014  |
| M-45-06-T20A  | SUBMIT SST SYSTEM IMPLEMENTATION PLAN IN SUPPORT OF RETRIEVAL AND CLOSURE ACTIVITIES.<br><br>MAJOR WORK AREAS COVERED IN THE IMPLEMENTATION PLAN WILL INCLUDE WASTE RETRIEVAL OPERABLE UNITS CHARACTERIZATION, TECHNOLOGIES DEVELOPMENT TO SUPPORT CLOSURE, RISK ASSESSMENTS, AND GROUNDWATER MONITORING STRATEGIES. (REFINEMENT OF THE MAJOR WORK AREAS WILL BE DEVELOPED IN A JOINT ECOLOGY/DOE WORKSHOP.)<br><br>DOE's SST SYSTEM IMPLEMENTATION PLAN UPDATE WILL BE SUBMITTED TO ECOLOGY AS A PRIMARY DOCUMENT. | 6/30/2004   |
| M-45-06-T20B  | SUBMIT SST SYSTEM IMPLEMENTATION PLAN IN SUPPORT OF RETRIEVAL AND CLOSURE ACTIVITIES.<br><br>MAJOR WORK AREAS COVERED IN THE IMPLEMENTATION PLAN WILL INCLUDE WASTE RETRIEVAL OPERABLE UNITS CHARACTERIZATION, TECHNOLOGIES DEVELOPMENT TO SUPPORT CLOSURE, RISK ASSESSMENTS, AND GROUNDWATER MONITORING STRATEGIES. (REFINEMENT OF THE MAJOR WORK AREAS WILL BE DEVELOPED IN A JOINT ECOLOGY/DOE WORKSHOP.)<br><br>DOE's SST SYSTEM IMPLEMENTATION PLAN UPDATE WILL BE SUBMITTED TO ECOLOGY AS A PRIMARY DOCUMENT. | 6/30/2006   |
| M-45-06-T20C  | SUBMIT SST SYSTEM IMPLEMENTATION PLAN IN SUPPORT OF RETRIEVAL AND CLOSURE ACTIVITIES.<br><br>MAJOR WORK AREAS COVERED IN THE IMPLEMENTATION PLAN WILL INCLUDE WASTE RETRIEVAL OPERABLE UNITS CHARACTERIZATION, TECHNOLOGIES DEVELOPMENT TO SUPPORT CLOSURE, RISK ASSESSMENTS, AND GROUNDWATER MONITORING STRATEGIES. (REFINEMENT OF THE MAJOR WORK AREAS WILL BE DEVELOPED IN A JOINT ECOLOGY/DOE WORKSHOP.)<br><br>DOE's SST SYSTEM IMPLEMENTATION PLAN UPDATE WILL BE SUBMITTED TO ECOLOGY AS A PRIMARY DOCUMENT. | 6/30/2008<br>(AND EVERY<br>2 YEARS<br>THEREAFTER) |
| M-45-06A      | SUBMIT A CERTIFIED (FRAMEWORK) SST SYSTEM CLOSURE PLAN AND C-106 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PLAN, AS AN APPLICATION FOR A MODIFICATION TO THE HANFORD SITE-WIDE  | 12/19/2002  |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>  | <u>Due Date</u> |
|---------------|---|-----------------|
|               | <p>HAZARDOUS WASTE FACILITY PERMIT TO ECOLOGY. THIS SUBMITTAL WILL INCLUDE ALL REQUIRED CLOSURE PLAN ELEMENTS. ADDITIONALLY, THIS SUBMITTAL WILL INCLUDE THE FOLLOWING:</p> <ol style="list-style-type: none"> <li>1. CHARACTERIZATION APPROACH FOR RESIDUAL WASTES. THIS APPROACH WILL SUPPORT DECISIONS REGARDING THE COMPLIANCE OF THE RESIDUAL WASTE WITH APPLICABLE REGULATORY REQUIREMENTS (INCLUDING BUT NOT LIMITED TO: CHARACTERIZATION NEEDS, WORK REQUIREMENTS, WORK SCHEDULES, AND CONTAMINANTS OF CONCERN FOR; RISK ASSESSMENT, LAND DISPOSAL RESTRICTION (LDR), AND THE WASHINGTON STATE HAZARDOUS WASTE MANAGEMENT ACT).</li> <li>2. A RISK ASSESSMENT METHODOLOGY INCLUSIVE OF THE ASSUMPTIONS, APPROACH, CONCEPTUAL MODEL, AND METRICS (E.G., POINT OF COMPLIANCE, RECEPTOR SCENARIOS).</li> </ol> <p>THE CHARACTERIZATION REQUIREMENTS AND RISK ASSESSMENT METHODOLOGY WILL BE JOINTLY DEVELOPED BY DOE AND ECOLOGY PRIOR TO THE SUBMITTAL.</p>   |                 |
| M-45-06B      | <p>SUBMIT A CERTIFIED (FRAMEWORK) SST SYSTEM CLOSURE PLAN MODIFICATION AND S-112 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PLAN, AS AN APPLICATION FOR A MODIFICATION TO THE HANFORD SITE-WIDE HAZARDOUS WASTE FACILITY PERMIT TO ECOLOGY. THIS SUBMITTAL WILL INCLUDE ALL REQUIRED CLOSURE PLAN ELEMENTS. ADDITIONALLY, THIS SUBMITTAL WILL INCLUDE THE FOLLOWING:</p> <ol style="list-style-type: none"> <li>1. CHARACTERIZATION APPROACH FOR RESIDUAL WASTES. THIS APPROACH WILL SUPPORT DECISIONS REGARDING THE COMPLIANCE OF THE RESIDUAL WASTE WITH APPLICABLE REGULATORY REQUIREMENTS (INCLUDING BUT NOT LIMITED TO: CHARACTERIZATION NEEDS, WORK REQUIREMENTS, WORK SCHEDULES, AND CONTAMINANTS OF CONCERN FOR; RISK ASSESSMENT, LAND DISPOSAL RESTRICTION (LDR), AND THE WASHINGTON STATE HAZARDOUS WASTE MANAGEMENT ACT).</li> <li>2. A RISK ASSESSMENT METHODOLOGY INCLUSIVE OF THE ASSUMPTIONS, APPROACH, CONCEPTUAL MODEL, AND METRICS (E.G., POINT OF COMPLIANCE, RECEPTOR SCENARIOS).</li> </ol> <p>THE CHARACTERIZATION REQUIREMENTS AND RISK ASSESSMENT METHODOLOGY WILL BE JOINTLY DEVELOPED BY DOE AND ECOLOGY PRIOR TO THE SUBMITTAL.</p> | 3/31/2005       |
| M-45-06C      | <p>SUBMIT A CERTIFIED (FRAMEWORK) SST SYSTEM CLOSURE PLAN MODIFICATION AND S-102 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PLAN, AS AN APPLICATION FOR A MODIFICATION TO THE HANFORD SITE-WIDE HAZARDOUS WASTE FACILITY PERMIT TO ECOLOGY. THIS SUBMITTAL WILL INCLUDE ALL REQUIRED CLOSURE PLAN ELEMENTS. ADDITIONALLY, THIS SUBMITTAL WILL INCLUDE THE FOLLOWING:</p> <ol style="list-style-type: none"> <li>1. CHARACTERIZATION APPROACH FOR RESIDUAL WASTES. THIS</li> </ol>  | 3/31/2006       |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>   | <u>Due Date</u> |
|---------------|--|-----------------|
|               | <p>APPROACH WILL SUPPORT DECISIONS REGARDING THE COMPLIANCE OF THE RESIDUAL WASTE WITH APPLICABLE REGULATORY REQUIREMENTS (INCLUDING BUT NOT LIMITED TO: CHARACTERIZATION NEEDS, WORK REQUIREMENTS, WORK SCHEDULES, AND CONTAMINANTS OF CONCERN FOR; RISK ASSESSMENT, LAND DISPOSAL RESTRICTION (LDR), AND THE WASHINGTON STATE HAZARDOUS WASTE MANAGEMENT ACT).</p> <p>2. A RISK ASSESSMENT METHODOLOGY INCLUSIVE OF THE ASSUMPTIONS, APPROACH, CONCEPTUAL MODEL, AND METRICS (E.G., POINT OF COMPLIANCE, RECEPTOR SCENERIOS).</p> <p>THE CHARACTERIZATION REQUIREMENTS AND RISK ASSESSMENT METHODOLOGY WILL BE JOINTLY DEVELOPED BY DOE AND ECOLOGY PRIOR TO THE SUBMITTAL.</p>  |                 |
| M-45-06D      | <p>SUBMIT A CERTIFIED (FRAMEWORK) SST SYSTEM CLOSURE PLAN MODIFICATION AND C-104 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PLAN, AS AN APPLICATION FOR A MODIFICATION TO THE HANFORD SITE-WIDE HAZARDOUS WASTE FACILITY PERMIT TO ECOLOGY. THIS SUBMITTAL WILL INCLUDE ALL REQUIRED CLOSURE PLAN ELEMENTS. ADDITIONALLY, THIS SUBMITTAL WILL INCLUDE THE FOLLOWING:</p> <p>1. CHARACTERIZATION APPROACH FOR RESIDUAL WASTES. THIS APPROACH WILL SUPPORT DECISIONS REGARDING THE COMPLIANCE OF THE RESIDUAL WASTE WITH APPLICABLE REGULATORY REQUIREMENTS (INCLUDING BUT NOT LIMITED TO: CHARACTERIZATION NEEDS, WORK REQUIREMENTS, WORK SCHEDULES, AND CONTAMINANTS OF CONCERN FOR; RISK ASSESSMENT, LAND DISPOSAL RESTRICTION (LDR), AND THE WASHINGTON STATE HAZARDOUS WASTE MANAGEMENT ACT).</p> <p>2. A RISK ASSESSMENT METHODOLOGY INCLUSIVE OF THE ASSUMPTIONS, APPROACH, CONCEPTUAL MODEL, AND METRICS (E.G., POINT OF COMPLIANCE, RECEPTOR SCENARIOS).</p> <p>THE CHARACTERIZATION REQUIREMENTS AND RISK ASSESSMENT METHODOLOGY WILL BE JOINTLY DEVELOPED BY DOE AND ECOLOGY PRIOR TO THE SUBMITTAL.</p> | 6/30/2007       |
| M-45-06E      | <p>SUBMIT A CERTIFIED (FRAMEWORK) SST SYSTEM CLOSURE PLAN MODIFICATION FOR TANKS S-105, S-106, AND S-103 CLOSURE DEMONSTRATION PLAN, AS AN APPLICATION FOR A MODIFICATION TO THE HANFORD SITE-WIDE HAZARDOUS WASTE FACILITY PERMIT TO ECOLOGY. THIS SUBMITTAL WILL INCLUDE ALL REQUIRED CLOSURE PLAN ELEMENTS, AND PROVIDE A SEPARATE STAND ALONE EVALUATION FOR EACH TANK. ADDITIONALLY, THIS SUBMITTAL WILL INCLUDE THE FOLLOWING:</p> <p>1. CHARACTERIZATION APPROACH FOR RESIDUAL WASTES IN S-105, S-106, AND S-103. THIS APPROACH WILL SUPPORT DECISIONS REGARDING THE COMPLIANCE OF THE RESIDUAL WASTE WITH APPLICABLE REGULATORY REQUIREMENTS (INCLUDING BUT NOT LIMITED TO: CHARACTERIZATION NEEDS, WORK REQUIREMENTS,</p>   | 12/31/2008      |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>   | <u>Due Date</u> |
|---------------|--|-----------------|
|               | <p>WORK SCHEDULES, AND CONTAMINANTS OF CONCERN FOR; RISK ASSESSMENT, LAND DISPOSAL RESTRICTION (LDR), AND THE WASHINGTON STATE HAZARDOUS WASTE MANAGEMENT ACT).</p> <p>2. A RISK ASSESSMENT METHODOLOGY FOR TANKS S-105, S-106, AND S-103, INCLUSIVE OF THE ASSUMPTIONS, APPROACH, CONCEPTUAL MODEL, AND METRICS (E.G., POINT OF COMPLIANCE, RECEPTOR SCENARIOS).</p> <p>THE CHARACTERIZATION REQUIREMENTS AND RISK ASSESSMENT METHODOLOGY WILL BE JOINTLY DEVELOPED BY DOE AND ECOLOGY PRIOR TO THE SUBMITTAL.</p>  |                 |
| M-045-11      | COMPLETE 244-AR VAULT INTERIM STABILIZATION.   | 09/30/2003      |
| M-045-13      | <p>INTERIM COMPLETION OF TANK S-112 SST WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT.</p> <p>THE S-112 SST WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT WILL BE CONSIDERED INTERIM COMPLETE WHEN THE FOLLOWING CRITERIA HAVE BEEN MET:</p> <ol style="list-style-type: none"> <li>1. FULL SCALE WASTE RETRIEVAL HAS BEEN COMPLETED IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS INCLUDING WASHINGTON'S HAZARDOUS WASTE MANAGEMENT ACT, REQUIREMENTS SET BY THIS AGREEMENT, AND THE APPROVED S-112 SALTCAKE WASTE RETRIEVAL TECHNOLOGY FUNCTIONS AND REQUIREMENTS DOCUMENT (DOE WILL DOCUMENT PROJECT DATA AND RESULTS IN A WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT REPORT).</li> <li>2. REMAINING WASTES HAVE BEEN ADEQUATELY CHARACTERIZED, AND A RISK ASSESSMENT, APPROVED BY ECOLOGY, HAS BEEN COMPLETED FOR RESIDUALS THAT REMAIN IN THE TANK.</li> <li>3. THE S-112 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PLAN HAS BEEN SUBMITTED BY DOE AND APPROVED BY ECOLOGY, I.E. INCORPORATED INTO THE SITE-WIDE PERMIT.</li> <li>4. IF APPROPRIATE, DOE HAS REQUESTED, AND ECOLOGY HAS APPROVED AN EXCEPTION TO WASTE RETRIEVAL CRITERIA PURSUANT TO AGREEMENT APPENDIX H.</li> </ol> | 6/30/2006       |
| M-45-13-T01   | <p>FINAL COMPLETION OF TANK S-112 SST RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT.</p> <p>COMPLETION OF THE TANK S-112 RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT IS DEFINED AS THE COMPLETION OF NECESSARY FIELD PROJECT ACTIONS REQUIRED BY THE APPROVED S-112 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PLAN.</p>  | 6/30/2007       |
| M-45-14       | <p>INTERIM COMPLETION OF TANK C-104 SST WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT.</p> <p>THE C-104 SST WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT WILL BE CONSIDERED INTERIM COMPLETE WHEN THE FOLLOWING CRITERIA HAVE BEEN MET:</p>   | 6/30/2008       |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>   | <u>Due Date</u> |
|---------------|--|-----------------|
|               | <ol style="list-style-type: none"> <li>1. FULL SCALE WASTE RETRIEVAL HAS BEEN COMPLETED IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS INCLUDING WASHINGTON'S HAZARDOUS WASTE MANAGEMENT ACT, REQUIREMENTS SET BY THIS AGREEMENT, AND THE APPROVED C-104 SLUDGE/HARD HEEL, CONTAINED SLUICING AND ROBOTIC TECHNOLOGIES WASTE RETRIEVAL FUNCTIONS AND REQUIREMENTS DOCUMENT (DOE WILL DOCUMENT PROJECT DATA AND RESULTS IN A WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT REPORT).</li> <li>2. REMAINING WASTES HAVE BEEN ADEQUATELY CHARACTERIZED, AND A RISK ASSESSMENT, APPROVED BY ECOLOGY, HAS BEEN COMPLETED FOR RESIDUALS THAT REMAIN IN THE TANK.</li> <li>3. THE C-104 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PLAN HAS BEEN SUBMITTED BY DOE AND APPROVED BY ECOLOGY, I.E. INCORPORATED INTO THE SITE-WIDE PERMIT.</li> <li>4. IF APPROPRIATE, DOE HAS REQUESTED, AND ECOLOGY HAS APPROVED AN EXCEPTION TO WASTE RETRIEVAL CRITERIA PURSUANT TO AGREEMENT APPENDIX H.</li> </ol>  |                 |
| M-45-14-T01   | <p>FINAL COMPLETION OF TANK C-104 SST RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT.</p> <p>COMPLETION OF THE TANK C-104 RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT IS DEFINED AS THE COMPLETION OF NECESSARY FIELD PROJECT ACTIONS REQUIRED BY THE APPROVED C-104 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PLAN.</p>  | 6/3/2009        |
| M-45-15       | <p>INTERIM COMPLETION OF TANK S-102 SST WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT.</p> <p>THE S-102 SST WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT WILL BE CONSIDERED INTERIM COMPLETE WHEN THE FOLLOWING CRITERIA HAVE BEEN MET:</p> <ol style="list-style-type: none"> <li>1. FULL SCALE WASTE RETRIEVAL HAS BEEN COMPLETED IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS INCLUDING WASHINGTON'S HAZARDOUS WASTE MANAGEMENT ACT, REQUIREMENTS SET BY THIS AGREEMENT, AND THE APPROVED S-102 INITIAL WASTE RETRIEVAL FUNCTIONS AND REQUIREMENTS DOCUMENT (DOE WILL DOCUMENT PROJECT DATA AND RESULTS IN A WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT REPORT).</li> <li>2. REMAINING WASTES HAVE BEEN ADEQUATELY CHARACTERIZED, AND A RISK ASSESSMENT, APPROVED BY ECOLOGY, HAS BEEN COMPLETED FOR RESIDUALS THAT REMAIN IN THE TANK.</li> <li>3. THE S-102 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PLAN HAS BEEN SUBMITTED BY DOE AND APPROVED BY ECOLOGY, I.E. INCORPORATED INTO THE SITE-WIDE PERMIT.</li> <li>4. IF APPROPRIATE, DOE HAS REQUESTED, AND ECOLOGY HAS APPROVED AN EXCEPTION TO WASTE RETRIEVAL CRITERIA PURSUANT TO AGREEMENT APPENDIX H.</li> </ol> | 6/30/2007       |
| M-45-15-T01   | FINAL COMPLETION OF TANK S-102 SST RETRIEVAL AND CLOSURE   | 6/30/2008       |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>  | <u>Due Date</u> |
|---------------|---|-----------------|
|               | <p>DEMONSTRATION PROJECT.</p> <p>COMPLETION OF THE TANK S-102 RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT IS DEFINED AS THE COMPLETION OF NECESSARY FIELD PROJECT ACTIONS REQUIRED BY THE APPROVED S-102 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PLAN.</p>  |                 |
| M-45-16       | <p>INTERIM COMPLETION OF TANK S-105, S-106, AND S-103 SST WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT.</p> <p>THE S-105, S-106, AND S-103 SST WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT WILL BE CONSIDERED INTERIM COMPLETE WHEN THE FOLLOWING CRITERIA HAVE BEEN MET AND DOCUMENTED FOR EACH OF THE TANKS:</p> <ol style="list-style-type: none"> <li>1. FULL SCALE WASTE RETRIEVAL HAS BEEN COMPLETED IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS INCLUDING WASHINGTON'S HAZARDOUS WASTE MANAGEMENT ACT, REQUIREMENTS SET BY THIS AGREEMENT, AND THE APPROVED S-105, S-106, AND S-103 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION FUNCTIONS AND REQUIREMENTS DOCUMENT (DOE WILL DOCUMENT PROJECT DATA AND RESULTS IN A WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT REPORT).</li> <li>2. REMAINING WASTES HAVE BEEN ADEQUATELY CHARACTERIZED, AND A RISK ASSESSMENT, APPROVED BY ECOLOGY, HAS BEEN COMPLETED FOR RESIDUALS THAT REMAIN IN THE TANK.</li> <li>3. THE S-105, S-106, AND S-103 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PLAN HAS BEEN SUBMITTED BY DOE AND APPROVED BY ECOLOGY, I.E. INCORPORATED INTO THE SITE-WIDE PERMIT.</li> <li>4. IF APPROPRIATE, DOE HAS REQUESTED, AND ECOLOGY HAS APPROVED, AN EXCEPTION TO WASTE RETRIEVAL CRITERIA PURSUANT TO AGREEMENT APPENDIX H. A REQUEST MAY BE MADE FOR EACH AND/OR ALL TANKS.</li> </ol> | 7/31/2010       |
| M-45-16-T01   | <p>FINAL COMPLETION OF TANK S-105, S-106, AND S-103 SST RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT.</p> <p>COMPLETION OF THE TANK S-105, S-106, AND S-103 RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT IS DEFINED AS THE COMPLETION OF NECESSARY FIELD PROJECT ACTIONS REQUIRED BY THE APPROVED S-105, S-106, AND S-103 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PLAN.</p>   | 7/31/2011       |
| M-045-55      | <p>SUBMIT TO ECOLOGY FOR REVIEW AND APPROVAL AS AN AGREEMENT PRIMARY DOCUMENT A PHASE 1 REI REPORT INTEGRATING RESULTS OF DATA GATHERING ACTIVITIES AND EVALUATIONS FOR WMAS S-SX, T, TX-TY, AND B-BX-BY AND RELATED ACTIVITIES, INCLUDING GROUNDWATER MONITORING AND IMPACTS ASSESSMENT USING HANFORD SITE GROUNDWATER MODELS, WITH CONCLUSIONS AND RECOMMENDATIONS.</p>   | 02/28/2004      |
| M-045-55-T03  | <p>SUBMIT TO ECOLOGY FOR REVIEW AND COMMENT AS AN AGREEMENT</p>   | 01/31/2005      |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u>                        | <u>Milestone</u>   | <u>Due Date</u>                          |
|--------------------------------------|--|--|
|                                      | SECONDARY DOCUMENT A FIELD INVESTIGATION REPORT PURSUANT TO THE SITE-SPECIFIC SST WMA PHASE 1 RFI/CMS WORK PLAN ADDENDA FOR WMA T AND WMA TX-TY.   |  |
| M-045-56                             | <p>COMPLETE IMPLEMENTATION OF AGREED-TO INTERIM MEASURES.</p> <p>SPECIFIC INTERIM MEASURES WILL BE IMPLEMENTED PURSUANT TO AGREEMENT COMMITMENTS (E.G., SEE INTERIM MILESTONE M-45-57). INTERIM MEASURES MAY ALSO BE REQUIRED BY ECOLOGY, PROPOSED BY DOE IN THE SST WMA RFI REPORT (M-45-55) (OR ENGINEERING STUDIES INCLUDING THAT ADDRESSED IN TARGET MILESTONE M-45-56-T01), OR ESTABLISHED BY AGREEMENT OF THE PARTIES AT ANY TIME DURING THE CORRECTIVE ACTION PROCESS. ALSO SEE TABLE 1 OF AGREEMENT CHANGE CONTROL FORM #M-45-98-03.</p> <p>ECOLOGY AND DOE AGREE, AT A MINIMUM, TO MEET YEARLY (BY JULY OR AS NEEDED TO SUPPORT ANNUAL BUDGETING) FOR THE SPECIFIC PURPOSE OF ASSESSING THE ADEQUACY OF INFORMATION, AND THE NEED FOR THE ESTABLISHMENT OF ADDITIONAL AGREEMENT INTERIM MEASURES. ADDITIONAL AGREEMENT INTERIM MEASURES SHALL BE DOCUMENTED THROUGH ESTABLISHMENT OF INTERIM MILESTONES AND ASSOCIATED TARGET DATES AS AGREED NECESSARY BY THE PARTIES.</p> | To Be Determined                         |
| M-045-58                             | SUBMIT TO ECOLOGY FOR REVIEW AND APPROVAL AS AN AGREEMENT PRIMARY DOCUMENT A CORRECTIVE MEASURES STUDY FOR INTERIM CORRECTIVE MEASURES (PENDING RESULTS AND CONCLUSIONS IN THE PHASE 1 RFI REPORT-MILESTONE M-45-55 OR SUBSEQUENT RFI REPORTS).  | To Be Determined                         |
| M-045-59                             | <p>CONTROL SURFACE WATER INFILTRATION PATHWAYS AS NEEDED TO CONTROL OR SIGNIFICANTLY REDUCE THE LIKELIHOOD OF MIGRATION OF SUBSURFACE CONTAMINATION TO GROUNDWATER AT THE SST WMAS (PENDING THE CMS REPORT, MILESTONE M-45-58, AND IMPLEMENTATION OF OTHER INTERIM CORRECTIVE MEASURES.</p> <p>DECISIONS ON CONTROLLING SURFACE WATER INFILTRATION PATHWAYS WILL BE MADE BY EVALUATING THE ROLE OF SURFACE WATER INFILTRATION AND THE TRANSPORT OF SUBSURFACE CONTAMINATION TO GROUNDWATER. BASED ON THE CORRECTIVE MEASURES STUDY (M-45-58) INTERIM SURFACE BARRIERS AND/OR OTHER INFILTRATION CONTROLS MAY BE REQUIRED.</p>  | To Be Determined                         |
| M-045-60                             | <p>SUBMIT TO ECOLOGY FOR REVIEW AND APPROVAL AS AN AGREEMENT PRIMARY DOCUMENT DOE'S RFI/CMS WORK PLAN FOR SST WMAS.</p> <p>THIS RFI/CMS WORK PLAN SHALL DOCUMENT THE ADDITIONAL INTERIM MEASURES AND FURTHER INVESTIGATIONS NEEDED FOR DECISIONS ON RETRIEVAL, CLOSURE, AND CORRECTIVE MEASURES FOR THE SST WMAS.</p>  | SIX MONTHS FOLLOWING RFI REPORT APPROVAL |
| M-046-00J<br>LEAD AGENCY:<br>ECOLOGY | <p>DOUBLE-SHELL TANK SPACE EVALUATION.</p> <p>THIS NEW MILESTONE REPLACES EXISTING MILESTONE M-31-02. A TANK VOLUME PROJECTION REPORT SHALL BE SUBMITTED ON AN ANNUAL</p>  | 09/30/2003                               |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u>                        | <u>Milestone</u>  | <u>Due Date</u>                             |
|--------------------------------------|---|---|
|                                      | BASIS TO ECOLOGY AND EPA. THIS REPORT SHALL INCLUDE DISCUSSIONS COVERING ALL ASSUMPTION WHICH FORM THE BASIS OF THE PROJECTION. THE REPORT SHALL INCLUDE OR SHALL BE ACCOMPANIED BY DOE'S PLANS FOR ACQUISITION OF ADDITIONAL TANKS BASED ON THE TANK VOLUME PROJECTION.  |   |
| M-046-00K<br>LEAD AGENCY:<br>ECOLOGY | DOUBLE-SHELL TANK SPACE EVALUATION. THIS NEW MILESTONE REPLACES EXISTING MILESTONE M-31-02. A TANK VOLUME PROJECTION REPORT SHALL BE SUBMITTED ON AN ANNUAL BASIS TO ECOLOGY AND EPA. THIS REPORT SHALL INCLUDE DISCUSSIONS COVERING ALL ASSUMPTIONS WHICH FORM THE BASIS OF THE PROJECTION. THE REPORT SHALL INCLUDE OR SHALL BE ACCOMPANIED BY DOE'S PLANS FOR ACQUISITION OF ADDITIONAL TANKS BASED ON THE TANK VOLUME PROJECTION. | 09/30/2004                                  |
| M-046-00L<br>LEAD AGENCY:<br>ECOLOGY | DOUBLE-SHELL TANK SPACE EVALUATION. THIS NEW MILESTONE REPLACES EXISTING MILESTONE M-31-02. A TANK VOLUME PROJECTION REPORT SHALL BE SUBMITTED ON AN ANNUAL BASIS TO ECOLOGY AND EPA. THIS REPORT SHALL INCLUDE DISCUSSIONS COVERING ALL ASSUMPTIONS WHICH FORM THE BASIS OF THE PROJECTION. THE REPORT SHALL INCLUDE OR SHALL BE ACCOMPANIED BY DOE'S PLANS FOR ACQUISITION OF ADDITIONAL TANKS BASED ON THE TANK VOLUME PROJECTION. | 09/30/2005                                  |
| M-046-00M<br>LEAD AGENCY:<br>ECOLOGY | DOUBLE-SHELL TANK SPACE EVALUATION. THIS NEW MILESTONE REPLACES EXISTING MILESTONE M-31-02. A TANK VOLUME PROJECTION REPORT SHALL BE SUBMITTED ON AN ANNUAL BASIS TO ECOLOGY AND EPA. THIS REPORT SHALL INCLUDE DISCUSSIONS COVERING ALL ASSUMPTIONS WHICH FORM THE BASIS OF THE PROJECTION. THE REPORT SHALL INCLUDE OR SHALL BE ACCOMPANIED BY DOE'S PLANS FOR ACQUISITION OF ADDITIONAL TANKS BASED ON THE TANK VOLUME PROJECTION. | 09/30/2006<br>AND<br>ANNUALLY<br>THEREAFTER |
| M-046-01I                            | CONCURRENCE OF ADDITIONAL TANK ACQUISITION. THE THREE PARTIES SHALL MEET TO ESTABLISH NEW MILESTONES, IF REQUIRED, FOR ACQUISITION OF ADDITIONAL TANKS.   | 04/20/2003                                  |
| M-046-01J                            | CONCURRENCE OF ADDITIONAL TANK ACQUISITION. THE THREE PARTIES SHALL MEET TO ESTABLISH NEW MILESTONES, IF REQUIRED, FOR ACQUISITION OF ADDITIONAL TANKS.   | 11/30/2003                                  |
| M-046-01K                            | CONCURRENCE OF ADDITIONAL TANK ACQUISITION. THE THREE PARTIES SHALL MEET TO ESTABLISH NEW MILESTONES, IF REQUIRED, FOR ACQUISITION OF ADDITIONAL TANKS.   | 11/30/2004                                  |
| M-046-01L                            | CONCURRENCE OF ADDITIONAL TANK ACQUISITION. THE THREE PARTIES SHALL MEET TO ESTABLISH NEW MILESTONES, IF REQUIRED, FOR ACQUISITION OF ADDITIONAL TANKS.   | 11/30/2005                                  |
| M-046-01M                            | CONCURRENCE OF ADDITIONAL TANK ACQUISITION. THE THREE PARTIES SHALL MEET TO ESTABLISH NEW MILESTONES, IF REQUIRED, FOR ACQUISITION OF ADDITIONAL TANKS.   | 11/30/2006<br>AND<br>ANNUALLY<br>THEREAFTER |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>  | <u>Due Date</u> |
|---------------|---|-----------------|
| M-46-21       | <p>COMPLETE IMPLEMENTATION OF DOUBLE SHELL TANK SPACE OPTIMIZATION STUDY RECOMMENDATIONS (<u>TANK SPACE OPTIONS REPORT</u>, DOCUMENT NO. RPP-7702, APRIL 12, 2001).</p> <p>WORK UNDER THIS INTERIM MILESTONE SHALL HAVE THE OBJECTIVE OF CREATING SUFFICIENT DOUBLE-SHELL TANK STORAGE SPACE TO ACCOMMODATE THE PARTIES' WASTE RETRIEVAL AND CLOSURE DEMONSTRATIONS AT TANKS S-112, S-102, C-104, S-105, S-106, S-103 AND C-106. SUCH ACTIONS SHALL INCLUDE, BUT ARE NOT LIMITED TO DECREASING DEDICATED OPERATIONAL SPACE, CONCENTRATING WASTES TO A HIGHER SPECIFIC GRAVITY, AND RAISING ALLOWABLE TANK LEVELS.</p>   | 12/31/2005      |
| M-047-00      | <p>DOE, DOE'S PROJECT HANFORD MANAGEMENT CONTRACTOR (PHMC), AND ASSOCIATED CONTRACTORS SHALL COMPLETE ALL WORK NECESSARY IN SUPPORT OF THE ACQUISITION AND PHASE I OPERATIONS OF HANFORD SITE HIGH-LEVEL RADIOACTIVE TANK WASTE TREATMENT, STORAGE, AND DISPOSAL FACILITIES. WORK INCLUDED UNDER THIS MILESTONE SERIES SHALL INCLUDE BUT IS NOT LIMITED TO WORK NECESSARY TO: (1) PROVIDE TIMELY TANK WASTE FEED TO TANK WASTE TREATMENT FACILITIES, (2) PROVIDE ADEQUATE DOUBLE-SHELL TANK (DST) SPACE, (3) PROVIDE NECESSARY INFRASTRUCTURE INCLUDING SOLID WASTE SERVICES AND SECONDARY WASTE TREATMENT (E.G., TANK WASTE TREATMENT FACILITY LIQUID EFFLUENTS). SEE ALSO MILESTONE SERIES M-90-00. THE PARTIES WILL REVISE OR CONFIRM THE DUE DATES FOR MILESTONES M-47-01, M-47-02, M-47-03, M-47-03A, M-47-04, M-47-05 AND M-47-05A WITHIN SIX (6) MONTHS OF AUTHORIZATION TO PROCEED (SEE MILESTONE M-62-04). REVISION, IF NECESSARY, SHALL BE CONSISTENT WITH HOT COMMISSIONING BY 2007, COMMERCIAL OPERATIONS BY 2009, AND COMPLETION OF PHASE I TREATMENT BY 2018. COMPLIANCE WITH THE WORK SCHEDULES SET FORTH IN THIS M-47 SERIES IS DEFINED AS THE PERFORMANCE OF SUFFICIENT WORK TO ASSURE WITH REASONABLE CERTAINTY THAT DOE WILL ACCOMPLISH SERIES M-47 MAJOR AND INTERIM MILESTONE REQUIREMENTS. DOE INTERNAL WORK SCHEDULES (E.G., DOE APPROVED SCHEDULE BASELINES) AND ASSOCIATED WORK DIRECTIVES AND AUTHORIZATIONS SHALL BE CONSISTENT WITH THE REQUIREMENTS OF THIS AGREEMENT. MODIFICATION OF DOE CONTRACTOR BASELINE(S) AND ISSUANCE OF ASSOCIATED DOE WORK DIRECTIVES AND/OR AUTHORIZATIONS THAT ARE NOT CONSISTENT WITH AGREEMENT REQUIREMENTS SHALL NOT BE FINALIZED PRIOR TO APPROVAL OF AN AGREEMENT CHANGE REQUEST SUBMITTED PURSUANT TO AGREEMENT ACTION PLAN SECTION 12.0.</p> | 02/28/2018      |
| M-047-01      | COMPLETE CONSTRUCTION OF THE TRANSFER SYSTEM FROM THE 241-AP TANK FARM TO THE BNFL FACILITY TO SUPPORT THE START OF HOT COMMISSIONING OF THE PHASE I TANK WASTE TREATMENT COMPLEX.  | 03/31/2006      |
| M-047-02      | COMPLETE STARTUP AND TURNOVER ACTIVITIES FOR REQUIRED TRANSFER SYSTEM UPGRADES TO ALLOW TRANSFER OF FIRST HIGH-LEVEL WASTE FEED TO THE PRETREATMENT / TREATMENT COMPLEX.  | 03/31/2007      |
| M-047-03A     | COMPLETE STARTUP AND TURNOVER ACTIVITIES FOR WASTE RETRIEVAL  | 02/28/2007      |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>  | <u>Due Date</u> |
|---------------|---|-----------------|
|               | AND MOBILIZATION SYSTEMS FOR SELECTED INITIAL HIGH-LEVEL WASTE FEED TANK.   |                 |
| M-047-04      | COMPLETE STARTUP AND TURNOVER ACTIVITIES FOR REQUIRED TRANSFER SYSTEM UPGRADES TO ALLOW TRANSFER OF FIRST LOW-ACTIVITY WASTE FEED TO THE PRETREATMENT / TREATMENT COMPLEX.  | 06/30/2007      |
| M-047-05      | START CONSTRUCTION OF WASTE RETRIEVAL AND MOBILIZATION SYSTEMS FOR SELECTED INITIAL LOW-ACTIVITY WASTE FEED TANK (OTHER THAN AZ-101 AND AZ-102).  | 05/31/2004      |
| M-047-05A     | COMPLETE STARTUP AND TURNOVER ACTIVITIES FOR WASTE RETRIEVAL AND MOBILIZATION SYSTEMS FOR SELECTED INITIAL LOW-ACTIVITY WASTE FEED TANK (OTHER THAN AZ-101 OR AZ-102).  | 04/30/2006      |
| M-047-06      | COMPLETE NEGOTIATION OF ADDITIONAL AGREEMENT REQUIREMENTS (MILESTONES, TARGET DATES, AND ASSOCIATED LANGUAGE) GOVERNING WORK NECESSARY TO SUPPORT COMPLETION OF TREATMENT COMPLEX PHASE I OPERATIONS BY 2018.   | 06/30/2010      |
| M-048-00      | COMPLETE TANK INTEGRITY ASSESSMENT ACTIVITIES FOR HANFORD'S DOUBLE SHELL TANK (DST) SYSTEM.<br><br>COMPLETE TANK INTEGRITY ASSESSMENT ACTIVITIES AS SET FORTH IN INTERIM MILESTONES ESTABLISHED UNDER THIS MAJOR MILESTONE.   | 09/30/2007      |
| M-48-02G      | SUBMIT TO ECOLOGY A REPORT ASSESSING TECHNOLOGY DEVELOPMENT.<br><br>DEVELOP ULTRASONIC TESTING EQUIPMENT, OR AN EQUIVALENT TECHNOLOGY, FOR ASSESSING MATERIAL THICKNESS AND DEFECTS OF THE PREDICTED MAXIMUM STRESS REGION OF THE LOWER KNUCKLE BASE METAL OF DOUBLE-SHELL TANKS.<br><br>THIS REPORT SHALL INCLUDE THE COST OF DEVELOPMENT OF THIS EQUIPMENT, IDENTIFICATION OF VENDORS CONTRACTED FOR DEVELOPING SUCH EQUIPMENT, TECHNICAL SPECIFICATIONS FOR SUCH EQUIPMENT, DATA QUALITY REQUIREMENTS FOR SUCH EQUIPMENT, AND AN ESTIMATED SCHEDULE FOR DELIVERY AND DEPLOYMENT OF THE EQUIPMENT INTO THE DSTs. THIS REPORT SHALL BE UPDATED AND SUBMITTED TO ECOLOGY BY MARCH 31, 2001, WITH SUBSEQUENT UPDATES SUBMITTED TO ECOLOGY EVERY SIX (6) MONTHS THEREAFTER, UNTIL SUCH EQUIPMENT IS DEVELOPED AND DEPLOYED. | 09/30/2003      |
| M-48-02H      | SUBMIT TO ECOLOGY A REPORT ASSESSING TECHNOLOGY DEVELOPMENT.<br><br>DEVELOP ULTRASONIC TESTING EQUIPMENT, OR AN EQUIVALENT TECHNOLOGY, FOR ASSESSING MATERIAL THICKNESS AND DEFECTS OF THE PREDICTED MAXIMUM STRESS REGION OF THE LOWER KNUCKLE BASE METAL OF DOUBLE-SHELL TANKS.<br><br>THIS REPORT SHALL INCLUDE THE COST OF DEVELOPMENT OF THIS EQUIPMENT, IDENTIFICATION OF VENDORS CONTRACTED FOR DEVELOPING SUCH EQUIPMENT, TECHNICAL SPECIFICATIONS FOR SUCH   | 03/30/2004      |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>   | <u>Due Date</u>  |
|---------------|--|--|
|               | EQUIPMENT, DATA QUALITY REQUIREMENTS FOR SUCH EQUIPMENT, AND AN ESTIMATED SCHEDULE FOR DELIVERY AND DEPLOYMENT OF THE EQUIPMENT INTO THE DSTs. THIS REPORT SHALL BE UPDATED AND SUBMITTED TO ECOLOGY BY MARCH 31, 2001, WITH SUBSEQUENT UPDATES SUBMITTED TO ECOLOGY EVERY SIX (6) MONTHS THEREAFTER, UNTIL SUCH EQUIPMENT IS DEVELOPED AND DEPLOYED.  |  |
| M-48-02I      | <p>SUBMIT TO ECOLOGY A REPORT ASSESSING TECHNOLOGY DEVELOPMENT.</p> <p>DEVELOP ULTRASONIC TESTING EQUIPMENT, OR AN EQUIVALENT TECHNOLOGY, FOR ASSESSING MATERIAL THICKNESS AND DEFECTS OF THE PREDICTED MAXIMUM STRESS REGION OF THE LOWER KNUCKLE BASE METAL OF DOUBLE-SHELL TANKS.</p> <p>THIS REPORT SHALL INCLUDE THE COST OF DEVELOPMENT OF THIS EQUIPMENT, IDENTIFICATION OF VENDORS CONTRACTED FOR DEVELOPING SUCH EQUIPMENT, TECHNICAL SPECIFICATIONS FOR SUCH EQUIPMENT, DATA QUALITY REQUIREMENTS FOR SUCH EQUIPMENT, AND AN ESTIMATED SCHEDULE FOR DELIVERY AND DEPLOYMENT OF THE EQUIPMENT INTO THE DSTs. THIS REPORT SHALL BE UPDATED AND SUBMITTED TO ECOLOGY BY MARCH 31, 2001, WITH SUBSEQUENT UPDATES SUBMITTED TO ECOLOGY EVERY SIX (6) MONTHS THEREAFTER, UNTIL SUCH EQUIPMENT IS DEVELOPED AND DEPLOYED.</p> | 09/30/2004<br>AND EVERY<br>SIX MONTHS<br>THEREAFTER<br>UNTIL<br>EQUIPMENT<br>IS DEPLOYED |
| M-048-11      | <p>SUBMIT RESULTS OF (4) DST'S NOT PREVIOUSLY EXAMINED.</p> <p>SUBMIT A WRITTEN REPORT TO ECOLOGY DOCUMENTING RESULTS OF ULTRASONIC TESTING OF THE PRIMARY TANK WALLS IN FOUR (4) DST'S NOT PREVIOUSLY EXAMINED BY ULTRASONIC TESTING.</p> <p>THIS REPORT SHALL MEET ALL THE REQUIREMENTS AND CONDITIONS SET FORTH IN INTERIM MILESTONE M-48-03. THIS REPORT SHALL INCLUDE A SCHEDULE IDENTIFYING EACH OF FOUR (4) ADDITIONAL DST'S, NOT PREVIOUSLY EXAMINED BY ULTRASONIC TESTING, FOR COMPLETION BY SEPTEMBER 30, 2004.</p>  | 09/30/2003   |
| M-048-12      | <p>SUBMIT RESULTS OF (4) DST'S NOT PREVIOUSLY EXAMINED.</p> <p>SUBMIT A WRITTEN REPORT TO ECOLOGY DOCUMENTING RESULTS OF ULTRASONIC TESTING OF THE PRIMARY TANK WALLS IN FOUR (4) DST'S NOT PREVIOUSLY EXAMINED BY ULTRASONIC TESTING.</p> <p>THIS REPORT SHALL MEET ALL THE REQUIREMENTS AND CONDITIONS SET FORTH IN INTERIM MILESTONE M-48-03. THIS REPORT SHALL INCLUDE A SCHEDULE IDENTIFYING EACH OF FOUR (4) ADDITIONAL DST'S, NOT PREVIOUSLY EXAMINED BY ULTRASONIC TESTING, FOR COMPLETION BY SEPTEMBER 30, 2005.</p>  | 09/30/2004   |
| M-048-13      | <p>SUBMIT RESULTS OF (4) DST'S NOT PREVIOUSLY EXAMINED.</p> <p>SUBMIT A WRITTEN REPORT TO ECOLOGY DOCUMENTING RESULTS OF ULTRASONIC TESTING OF THE PRIMARY TANK WALLS IN FOUR (4) DST'S NOT PREVIOUSLY EXAMINED BY ULTRASONIC TESTING. THIS</p>  | 09/30/2005   |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>   | <u>Due Date</u> |
|---------------|--|-----------------|
|               | REPORT SHALL MEET ALL THE REQUIREMENTS AND CONDITIONS SET FORTH IN INTERIM MILESTONE M-48-03.  |                 |
| M-048-14      | <p>SUBMIT WRITTEN INTEGRITY REPORT FOR THE DOUBLE-SHELL TANK SYSTEM.</p> <p>SUBMIT A WRITTEN INTEGRITY ASSESSMENT REPORT FOR THE DOUBLE-SHELL TANK SYSTEM, TO ECOLOGY DOCUMENTING THE FOLLOWING: AN ASSESSMENT OF THE INTEGRITY OF THE DOUBLE-SHELL TANK SYSTEM. THE DOUBLE-SHELL TANK SYSTEM IS COMPRISED OF THE TWENTY-EIGHT (28) DST'S AND THEIR ANCILLARY EQUIPMENT.</p> <p>ANCILLARY EQUIPMENT WITHIN THE DOUBLE-SHELL TANK SYSTEM INCLUDES ALL SUBORDINATE TANK SYSTEMS AND THEIR VAULTS, TRANSFER PIPELINES, PUMP PITS, VALVE PITS, LIFT STATIONS, CATCH TANKS, THE 204-AR UNLOADING STATIONS, AND ANY OTHER ACTIVE COMPONENTS IDENTIFIED IN INTERIM MILESTONE M-48-01. THIS INTEGRITY ASSESSMENT SHALL BE COMPLETED, DOCUMENTED IN A REPORT TO ECOLOGY, AND CERTIFIED BY AN INDEPENDENT, QUALIFIED, REGISTERED, PROFESSIONAL ENGINEER (IQRPE), ON OR BEFORE MARCH 31, 2006.</p> <p>THIS INTEGRITY ASSESSMENT REPORT SHALL INCLUDE INFORMATION AND DATA SUFFICIENT TO DETERMINE THAT THE DOUBLE-SHELL TANK SYSTEM IS FIT-FOR-USE, AND WILL NOT COLLAPSE, RUPTURE, OR FAIL, UNDER NORMAL OPERATING CONDITIONS. THIS REPORT SHALL BE ACCOMPANIED BY A SCHEDULE AND RECOMMENDATIONS FOR FUTURE INTEGRITY ASSESSMENTS SUFFICIENT TO ENSURE THE SYSTEM WILL NOT COLLAPSE, RUPTURE, OR FAIL, UNDER NORMAL OPERATING CONDITIONS. THIS INTEGRITY ASSESSMENT REPORT SHALL DOCUMENT, AT A MINIMUM, ALL INFORMATION GATHERED FOR THE DOUBLE-SHELL TANK SYSTEM TO MEET THE REQUIREMENTS OF 40 CFR, SUBPART J, PART 265.191 (1), (2), (3), (4), (5) (I) AND (5) (II)</p> <p>(BECAUSE OF SPACE LIMITATIONS, PLEASE SEE TPA CHANGE REQUEST M-48-01-01 FOR 40 CFR WORDING OF SECTIONS REFERENCED ABOVE)</p> | 03/31/2006      |
| M-048-15      | <p>SUBMIT A REPORT TO ECOLOGY FOR THE RE-EXAMINATION OF SIX (6) DST'S BY ULTRASONIC TESTING.</p> <p>SUBMIT A WRITTEN REPORT FOR THE RE-EXAMINATION OF SIX (6) DST'S BY ULTRASONIC TESTING IN ALL AREAS PREVIOUSLY EXAMINED TO PROVIDE COMPARATIVE DATA FROM WHICH TO CALCULATE CORROSION RATES IN EACH OF THE SIX (6) DST'S EXAMINED.</p> <p>TANKS SELECTED FOR EXAMINATION WILL BE RECOMMENDED BY USDOE AND WILL BE SUBJECT TO APPROVAL BY ECOLOGY. THE SELECTION OF EACH DST TO BE RE-EXAMINED SHALL CONSIDER ELAPSED TIME FROM PREVIOUS ULTRASONIC TESTING, SUFFICIENT TO ASSESS MEASURABLE WALL THINNING WITH THE ULTRASONIC EQUIPMENT USED. RE-EXAMINATION OF THE PREDICTED MAXIMUM STRESS REGION OF THE LOWER KNUCKLE BASE METAL MAY NOT BE REQUIRED, IF PRIOR APPROVAL IS OBTAINED FROM ECOLOGY FOR DELETING THIS PORTION</p>   | 09/30/2007      |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u>                       | <u>Milestone</u>  | <u>Due Date</u> |
|-------------------------------------|---|-----------------|
|                                     | OF THE ULTRASONIC RE-EXAMINATION. THIS REPORT SHALL PROVIDE A CALCULATED CORROSION RATE FOR EACH DST, INCLUDE ALL CALCULATIONS, INCLUDE A THOROUGH DESCRIPTION OF ALL TERMS AND/OR FACTORS USED IN THE CALCULATIONS, AND INCLUDE A THOROUGH REFERENCE SECTION OF ALL CODES, STUDIES AND ASSUMPTIONS, USED IN DERIVING THE CALCULATED CORROSION RATE FOR EACH OF THE DST'S SELECTED.   |                 |
| M-050-00<br>LEAD AGENCY:<br>ECOLOGY | COMPLETE PRETREATMENT PROCESSING OF HANFORD TANK WASTE.   | 12/31/2028      |
| M-051-00<br>LEAD AGENCY:<br>ECOLOGY | COMPLETE VITRIFICATION OF HANFORD HIGH LEVEL TANK WASTE.  | 12/31/2028      |
| M-061-00<br>LEAD AGENCY:<br>ECOLOGY | COMPLETE PRETREATMENT AND IMMOBILIZATION OF HANFORD LOW ACTIVITY WASTE (LAW).   | 12/31/2028      |
| M-062-00                            | <p>COMPLETE PRETREATMENT PROCESSING AND VITRIFICATION OF HANFORD HIGH LEVEL (HLW) AND LOW ACTIVITY (LAW) TANK WASTES.</p> <p>COMPLIANCE WITH THE WORK SCHEDULES SET FORTH IN THIS M-62 SERIES IS DEFINED AS THE PERFORMANCE OF SUFFICIENT WORK TO ASSURE WITH REASONABLE CERTAINTY THAT DOE WILL ACCOMPLISH SERIES M-62 MAJOR AND INTERIM MILESTONE REQUIREMENTS.</p> <p>DOE INTERNAL WORK SCHEDULES (E.G., DOE APPROVED SCHEDULE BASELINES) AND ASSOCIATED WORK DIRECTIVES AND AUTHORIZATIONS SHALL BE CONSISTENT WITH THE REQUIREMENTS OF THIS AGREEMENT. MODIFICATION OF DOE CONTRACTOR BASELINE(S) AND ISSUANCE OF ASSOCIATED DOE WORK DIRECTIVES AND/OR AUTHORIZATIONS THAT ARE NOT CONSISTENT WITH AGREEMENT REQUIREMENTS SHALL NOT BE FINALIZED PRIOR TO APPROVAL OF AN AGREEMENT CHANGE REQUEST SUBMITTED PURSUANT TO AGREEMENT ACTION PLAN SECTION 12.0.</p> | 12/31/2028      |
| M-062-00A                           | <p>COMPLETE PRETREATMENT PROCESSING AND VITRIFICATION OF HANFORD HLW AND LAW PHASE I TANK WASTES.</p> <p>PHASE I TANK WASTE PROCESSING SHALL PRETREAT AND VITRIFY NO LESS THAN 10% OF HANFORD'S TANK WASTE BY MASS* AND 25% BY ACTIVITY.</p> <p>*[IN MEETING THIS REQUIREMENT DOE WILL PRETREAT AND VITRIFY NO LESS THAN 6000 METRIC TONS OF SODIUM (IN THE INSTANCE OF LAW FEED) AND 800 METRIC TONS OF WASTE OXIDES (IN THE INSTANCE OF HLW FEED)]</p>  | 02/28/2018      |
| M-062-01G                           | <p>SUBMIT SEMI-ANNUAL PROJECT COMPLIANCE REPORT.</p> <p>DOE'S MANAGER, OFFICE OF RIVER PROTECTION (ORP), WILL SUBMIT A "PROJECT COMPLIANCE REPORT" TO ECOLOGY SEMI-ANNUALLY (A COPY OF THIS REPORT WILL ALSO BE PROVIDED TO EPA'S REGION 10 OFFICE OF WASTE AND CHEMICALS MANAGEMENT). THIS REPORT WILL DOCUMENT DOE COMPLIANCE WITH AGREEMENT REQUIREMENTS AND SHALL</p>   | 07/31/2003      |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>  | <u>Due Date</u> |
|---------------|---|-----------------|
|               | <p>BE SEQUENTIALLY UPDATED BY INFORMATION DOCUMENTING WORK PERFORMED AND ISSUES ENCOUNTERED DURING THE PREVIOUS REPORT PERIOD. THE ORP PROJECT COMPLIANCE REPORT WILL BE PROVIDED AS PART OF THE PARTIES' INTER AGENCY MANAGEMENT INTEGRATION TEAM (IAMIT) MEETINGS, AND SHALL DOCUMENT THE STATUS OF PROGRESS TO DATE, PROGRESS MADE DURING THE REPORT PERIOD, AND ACTIVITIES EXPECTED IN THE FORSEEABLE FUTURE. THE REPORT WILL INCLUDE BUT IS NOT LIMITED TO: (1) A CONCISE DESCRIPTION OF PROJECT ACCOMPLISHMENTS AND ISSUES INCLUDING THOSE ENCOUNTERED DURING THE PREVIOUS YEAR AND THOSE EXPECTED IN THE NEAR TERM, (2) WHEN APPLICABLE, A DESCRIPTION OF ACTIONS INITIATED OR OTHERWISE TAKEN TO RECOVER ANY AGREEMENT SCHEDULE SLIPPAGE, (3) A BUDGET AND COST STATUS, (4) A STATEMENT DOCUMENTING WHETHER OR NOT DOE AND DOE'S CONTRACTOR(S) REMAIN IN COMPLIANCE WITH AGREEMENT REQUIREMENTS, I.E. WHETHER OR NOT "DOE AND DOE CONTRACTOR(S) HAVE COMPLETED SUFFICIENT WORK TO ALLOW ACHIEVEMENT OF AGREEMENT REQUIREMENTS," AND (5) CONCISE DESCRIPTIONS OF ANY NONCOMPLIANCE. COPIES OF ALL PERTINENT DOE WORK DIRECTIVES AND/OR AUTHORIZATIONS ISSUED TO DOE'S CONTRACTOR(S) SHALL BE PROVIDED ON REQUEST.</p>  |                 |
| M-062-01H     | <p>SUBMIT SEMI-ANNUAL PROJECT COMPLIANCE REPORT.</p> <p>DOE'S MANAGER, OFFICE OF RIVER PROTECTION (ORP), WILL SUBMIT A "PROJECT COMPLIANCE REPORT" TO ECOLOGY SEMI-ANNUALLY (A COPY OF THIS REPORT WILL ALSO BE PROVIDED TO EPA'S REGION 10 OFFICE OF WASTE AND CHEMICALS MANAGEMENT). THIS REPORT WILL DOCUMENT DOE COMPLIANCE WITH AGREEMENT REQUIREMENTS AND SHALL BE SEQUENTIALLY UPDATED BY INFORMATION DOCUMENTING WORK PERFORMED AND ISSUES ENCOUNTERED DURING THE PREVIOUS REPORT PERIOD. THE ORP PROJECT COMPLIANCE REPORT WILL BE PROVIDED AS PART OF THE PARTIES' INTER AGENCY MANAGEMENT INTEGRATION TEAM (IAMIT) MEETINGS, AND SHALL DOCUMENT THE STATUS OF PROGRESS TO DATE, PROGRESS MADE DURING THE REPORT PERIOD, AND ACTIVITIES EXPECTED IN THE FORSEEABLE FUTURE. THE REPORT WILL INCLUDE BUT IS NOT LIMITED TO: (1) A CONCISE DESCRIPTION OF PROJECT ACCOMPLISHMENTS AND ISSUES INCLUDING THOSE ENCOUNTERED DURING THE PREVIOUS YEAR AND THOSE EXPECTED IN THE NEAR TERM, (2) WHEN APPLICABLE, A DESCRIPTION OF ACTIONS INITIATED OR OTHERWISE TAKEN TO RECOVER ANY AGREEMENT SCHEDULE SLIPPAGE, (3) A BUDGET AND COST STATUS, (4) A STATEMENT DOCUMENTING WHETHER OR NOT DOE AND DOE'S CONTRACTOR(S) REMAIN IN COMPLIANCE WITH AGREEMENT REQUIREMENTS, I.E. WHETHER OR NOT "DOE AND DOE CONTRACTOR(S) HAVE COMPLETED SUFFICIENT WORK TO ALLOW ACHIEVEMENT OF AGREEMENT REQUIREMENTS," AND (5) CONCISE DESCRIPTIONS OF ANY NONCOMPLIANCE. COPIES OF ALL PERTINENT DOE WORK DIRECTIVES AND/OR AUTHORIZATIONS ISSUED TO DOE'S CONTRACTOR(S) SHALL BE PROVIDED ON REQUEST.</p> | 01/31/2004      |
| M-062-01I     | SUBMIT SEMI-ANNUAL PROJECT COMPLIANCE REPORT.   | 07/31/2004      |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>  | <u>Due Date</u>                                     |
|---------------|---|---|
|               | DOE's MANAGER, OFFICE OF RIVER PROTECTION (ORP), WILL SUBMIT A "PROJECT COMPLIANCE REPORT" TO ECOLOGY SEMI-ANNUALLY (A COPY OF THIS REPORT WILL ALSO BE PROVIDED TO EPA'S REGION 10 OFFICE OF WASTE AND CHEMICALS MANAGEMENT). THIS REPORT WILL DOCUMENT DOE COMPLIANCE WITH AGREEMENT REQUIREMENTS AND SHALL BE SEQUENTIALLY UPDATED BY INFORMATION DOCUMENTING WORK PERFORMED AND ISSUES ENCOUNTERED DURING THE PREVIOUS REPORT PERIOD. THE ORP PROJECT COMPLIANCE REPORT WILL BE PROVIDED AS PART OF THE PARTIES' INTER AGENCY MANAGEMENT INTEGRATION TEAM (IAMIT) MEETINGS, AND SHALL DOCUMENT THE STATUS OF PROGRESS TO DATE, PROGRESS MADE DURING THE REPORT PERIOD, AND ACTIVITIES EXPECTED IN THE FORSEEABLE FUTURE. THE REPORT WILL INCLUDE BUT IS NOT LIMITED TO: (1) A CONCISE DESCRIPTION OF PROJECT ACCOMPLISHMENTS AND ISSUES INCLUDING THOSE ENCOUNTERED DURING THE PREVIOUS YEAR AND THOSE EXPECTED IN THE NEAR TERM, (2) WHEN APPLICABLE, A DESCRIPTION OF ACTIONS INITIATED OR OTHERWISE TAKEN TO RECOVER ANY AGREEMENT SCHEDULE SLIPPAGE, (3) A BUDGET AND COST STATUS, (4) A STATEMENT DOCUMENTING WHETHER OR NOT DOE AND DOE'S CONTRACTOR(S) REMAIN IN COMPLIANCE WITH AGREEMENT REQUIREMENTS, I.E. WHETHER OR NOT "DOE AND DOE CONTRACTOR(S) HAVE COMPLETED SUFFICIENT WORK TO ALLOW ACHIEVEMENT OF AGREEMENT REQUIREMENTS," AND (5) CONCISE DESCRIPTIONS OF ANY NONCOMPLIANCE. COPIES OF ALL PERTINENT DOE WORK DIRECTIVES AND/OR AUTHORIZATIONS ISSUED TO DOE'S CONTRACTOR(S) SHALL BE PROVIDED ON REQUEST.                                 |   |
| M-062-01J     | SUBMIT SEMI-ANNUAL PROJECT COMPLIANCE REPORT.<br><br>DOE's MANAGER, OFFICE OF RIVER PROTECTION (ORP), WILL SUBMIT A "PROJECT COMPLIANCE REPORT" TO ECOLOGY SEMI-ANNUALLY (A COPY OF THIS REPORT WILL ALSO BE PROVIDED TO EPA'S REGION 10 OFFICE OF WASTE AND CHEMICALS MANAGEMENT). THIS REPORT WILL DOCUMENT DOE COMPLIANCE WITH AGREEMENT REQUIREMENTS AND SHALL BE SEQUENTIALLY UPDATED BY INFORMATION DOCUMENTING WORK PERFORMED AND ISSUES ENCOUNTERED DURING THE PREVIOUS REPORT PERIOD. THE ORP PROJECT COMPLIANCE REPORT WILL BE PROVIDED AS PART OF THE PARTIES' INTER AGENCY MANAGEMENT INTEGRATION TEAM (IAMIT) MEETINGS, AND SHALL DOCUMENT THE STATUS OF PROGRESS TO DATE, PROGRESS MADE DURING THE REPORT PERIOD, AND ACTIVITIES EXPECTED IN THE FORSEEABLE FUTURE. THE REPORT WILL INCLUDE BUT IS NOT LIMITED TO: (1) A CONCISE DESCRIPTION OF PROJECT ACCOMPLISHMENTS AND ISSUES INCLUDING THOSE ENCOUNTERED DURING THE PREVIOUS YEAR AND THOSE EXPECTED IN THE NEAR TERM, (2) WHEN APPLICABLE, A DESCRIPTION OF ACTIONS INITIATED OR OTHERWISE TAKEN TO RECOVER ANY AGREEMENT SCHEDULE SLIPPAGE, (3) A BUDGET AND COST STATUS, (4) A STATEMENT DOCUMENTING WHETHER OR NOT DOE AND DOE'S CONTRACTOR(S) REMAIN IN COMPLIANCE WITH AGREEMENT REQUIREMENTS, I.E. WHETHER OR NOT "DOE AND DOE CONTRACTOR(S) HAVE COMPLETED SUFFICIENT WORK TO ALLOW ACHIEVEMENT OF AGREEMENT REQUIREMENTS," AND (5) CONCISE DESCRIPTIONS OF ANY NONCOMPLIANCE. COPIES OF ALL PERTINENT DOE WORK DIRECTIVES AND/OR AUTHORIZATIONS ISSUED TO DOE'S CONTRACTOR(S) SHALL BE | 01/31/2005<br>SEMI-ANNUALLY BEGINNING JULY 31, 2000 |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>   | <u>Due Date</u> |
|---------------|--|-----------------|
|               | PROVIDED ON REQUEST.   |                 |
| M-062-03      | SUBMIT DOE PETITION FOR RCRA DELISTING OF VITRIFIED HLW.<br><br>DOE WILL SUBMIT ITS PETITION FOR DELISTING OF THE IMMOBILIZED HIGH-LEVEL WASTE (HLW) FROM THE PHASE I WASTE TREATMENT PLANT FROM RCRA AND THE WASHINGTON STATE HWMA (DELISTING PETITION) IN ACCORDANCE WITH 40 CFR 260.22 AND WAC 173-303-072.   | 12/31/2006      |
| M-062-07A     | INITIAL ERECTION OF LOW-ACTIVITY WASTE VITRIFICATION FACILITY ELEVATION -21' STRUCTURAL STEEL COLUMNS, BEAMS, AND Q DECK AT ELEVATION +3 (BNI BASELINE SCHEDULE ACTIVITY 4DL131B000 AS PART OF DOE CONTRACT NO. DE-AC27-01RV14136).<br><br>THIS MILESTONE REPRESENTS THE PLACEMENT OF THE FIRST STRUCTURAL STEEL COLUMN AS PART OF INITIATION OF BNI BASELINE SCHEDULE ACTIVITY 4DL131B000 -LAW - ELEV -21 SS COLUMNS, BEAMS & Q-DECK AT +3 (CONTRACT NO. DE-AC27-01RV14136). IN ADDITION ACTIVITY 4DL121B100 LAW - ELEV -21 PLACE BASEMAT CONCRETE SHALL BE SUBSTANTIALLY COMPLETED AND ACTIVITIES 4DL121D000 LAW - ELEV -21 PERIMETER WALLS FREP AND 4DL121F000 LAW - ELEV -21 INTERIOR WALLS FREP SHALL HAVE BEEN INITIATED.<br><br>COMPLETION OF THIS MILESTONE WILL BE MET WHEN THE FIRST STRUCTURAL STEEL COLUMN IS INSTALLED AT THE -21 FOOT ELEVATION IN THE LAW FACILITY. THIS MILESTONE DEMONSTRATES A SIGNIFICANT PROGRESS IN DESIGN AND ENGINEERING AS WELL AS CONSTRUCTION OF THE LAW FACILITY BECAUSE BASEMAT CONCRETE WILL HAVE BEEN POURED AND CONSTRUCTION OF WALLS WILL HAVE BEEN STARTED. IN ADDITION, PROCUREMENTS WILL HAVE BEEN MADE, NOT ONLY FOR THIS FACILITY, BUT FOR THE OTHER MAJOR FACILITIES. ERECTION OF STRUCTURAL STEEL IN THE LAW FACILITY WILL ALSO PROVIDE A LESSONS LEARNED OPPORTUNITY BECAUSE IT WILL BE THE FIRST FACILITY TO BEGIN THIS ASPECT OF CONSTRUCTION. | 10/30/2003      |
| M-062-07B     | COMPLETE ASSEMBLY OF LOW ACTIVITY WASTE VITRIFICATION FACILITY MELTER #1 SO THAT IT IS READY FOR TRANSPORT AND INSTALLATION IN THE LAW VITRIFICATION BUILDING (BNI BASELINE SCHEDULE ACTIVITY 4DL321A300 AS PART OF DOE CONTRACT NO. DE-AC27-01RV14136).<br><br>THIS MILESTONE REPRESENTS THE ASSEMBLY OF LAW MELTER #1 TO THE POINT IT IS READY FOR REFRACTORY AS PART OF BNI BASELINE ACTIVITIES 3EL3212A00 SPECIFICATIONS AND ANALYSIS, 4DL321A000 LAW - PROCURE MATERIAL & EQUIPMENT FOR MELTERS AND 4DL321A200 LAW- ASSEMBLE MELTER #1 (CONTRACT NO. DE-AC27-01RV14136). IN ADDITION, ACTIVITIES 4DL121U100 LAW - ELEV +3 SOUTH MELTER FREP AND 4DL131D000 LAW - ELEV +28 COLUMNS, BEAMS & Q-DECKING AT +48 SHALL BE SUBSTANTIALLY COMPLETED.<br><br>COMPLETION OF THIS MILESTONE WILL BE MET WHEN LAW MELTER #1 WILL HAVE BEEN FULLY FABRICATED, ASSEMBLED AND READY FOR   | 11/30/2005      |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>   | <u>Due Date</u>  |
|---------------|--|------------------|
|               | REFRACTORY MATERIAL TO BE INSTALLED. ASSEMBLY OF THE MELTER IS SCHEDULED TO OCCUR NEAR THE END OF LAW CONSTRUCTION WHEN THE FACILITY IS MOST READY TO HAVE THE ASSEMBLED MELTER MOVED INTO THE LAW CELL WHERE THE REFRACTORY MATERIAL WILL BE INSTALLED. MEETING THIS MILESTONE THEREFORE REPRESENTS SIGNIFICANT ACCOMPLISHMENT OF THE ENGINEERING, DESIGN AND CONSTRUCTION OF THE LAW FACILITY. FURTHERMORE, ASSEMBLY OF THE FIRST MELTER PROVIDES SIGNIFICANT OPPORTUNITY FOR LESSONS LEARNED THAT CAN BE APPLIED IN THE ASSEMBLY OF THE OTHER TWO LAW MELTERS AS WELL AS THE HLW MELTER.                                |                  |
| M-062-08      | SUBMITTAL OF HANFORD TANK WASTE PHASE II TREATMENT ALTERNATIVES REPORT.<br><br>DOE WILL SUBMIT A PRELIMINARY REPORT THAT DESCRIBES THE TECHNICAL, FINANCIAL, AND CONTRACTUAL ALTERNATIVES TO TREAT THE TANK WASTES REMAINING AFTER COMPLETION OF PHASE I TREATMENT. THE REPORT WILL IDENTIFY CREDIBLE ALTERNATIVES TO COMPLETE TREATMENT OF THE REMAINING WASTES BY 2028, AND AID IN BUDGET PLANNING FOR FUTURE BUDGET AUTHORITY SUBMITTAL. THE REPORT WILL BE UPDATED EVERY TWO YEARS UNTIL THE TANK WASTE TREATMENT PHASE II PLAN IS FINALIZED.  | 07/31/2005       |
| M-062-09      | START (HOT) COMMISSIONING - PHASE I TREATMENT COMPLEX.<br><br>DOE WILL START HOT COMMISSIONING OF ITS TANK WASTE TREATMENT COMPLEX (DEFINED AS FIRST PRINCIPAL FACILITY RECEIPT OF RADIOACTIVE TANK WASTE FOR TREATMENT).  | 12/31/2007       |
| M-062-10      | COMPLETE HOT COMMISSIONING - PHASE I TREATMENT COMPLEX.<br><br>DOE WILL ACHIEVE SUSTAINED THROUGHPUT OF PRETREATMENT, LOW-ACTIVITY WASTE VITRIFICATION AND HIGH-LEVEL WASTE VITRIFICATION PROCESSES, AND DEMONSTRATED TREATMENT COMPLEX AVAILABILITY TO COMPLETE TREATMENT OF NO LESS THAN 10% OF THE TANK WASTE BY MASS AND 25% OF THE TANK WASTE BY ACTIVITY BY DECEMBER 2018.   | 01/31/2011       |
| M-062-11      | SUBMITTAL OF HANFORD TANK WASTE TREATMENT PHASE II PLAN.<br><br>DOE WILL SUBMIT TO ECOLOGY A DETAILED PLAN AND PROPOSAL FOR THE PROCESSING OF THE REMAINDER OF DOE'S LAW AND HLW WASTES (PHASE II WASTES). THIS PLAN AND PROPOSAL WILL BE ACCOMPANIED BY A DRAFT NEGOTIATIONS AGREEMENT IN PRINCIPLE (AIP), AND DRAFT AGREEMENT CHANGE REQUEST CONTAINING SUFFICIENT ENFORCEABLE MILESTONES AND ASSOCIATED AGREEMENT REQUIREMENTS TO EFFECTIVELY DRIVE PHASE II WORK TO COMPLETION IN ACCORDANCE WITH AGREEMENT REQUIREMENTS. PHASE II AGREEMENT NEGOTIATIONS WILL BE COMPLETED WITHIN SIX (6) MONTHS OF AIP FINALIZATION. | 01/31/2014       |
| M-062-12      | ISSUANCE OF DOE AUTHORIZATION TO PROCEED - PHASE II TREATMENT.   | To Be Determined |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u>                        | <u>Milestone</u>   | <u>Due Date</u>                           |
|--------------------------------------|--|---|
|                                      | DOE WILL AUTHORIZE THE CONTRACT PHASE TO DESIGN, CONSTRUCT, COMMISSION, AND PROVIDE SERVICES FOR HANFORD TANK WASTE PRETREATMENT, LOW-ACTIVITY WASTE VITRIFICATION, AND HIGH-LEVEL WASTE VITRIFICATION OF ALL REMAINING HANFORD TANK WASTE, CONSISTENT WITH COMPLETION OF TREATMENT BY DECEMBER 2028.  | (BY NEGOTIATIONS PROVIDED FOR AT M-62-11) |
| M-081-00A<br>LEAD AGENCY:<br>ECOLOGY | Complete FFTF Facility Transition and initiate the surveillance and maintenance phase.<br><br>Completion of FFTF transition will include, but is not limited to the completion of: 1) dry cask storage of irradiated fuel, 2) dry storage of unirradiated and sodium bonded fuel, 3) sodium drain and storage 4) deactivation of the auxiliary plant systems. Work under this major milestone will be achieved by completing all activities necessary to achieve the end point criteria for placing the facility in a safe and stable surveillance and maintenance configuration.  | 2/28/2011                                 |
| M-81-00A-T02<br>See Note             | Complete transfer of unirradiated fuel to secure onsite storage.<br><br>Thirty two unirradiated fuel assemblies presently stored in the interim decay storage vessel will be transferred to the Interim Examination and Maintenance (IEM) cell for washing and drying, loaded into existing approved shipping containers, and transferred to secure onsite storage (Should DOEs Savannah River Site (SRS) become available for FFTF fuel storage, this fuel may be shipped directly to SRS pending approval of environmental documentation).<br><br>NOTE: The sequence of washing of unirradiated, irradiated and special fuel groups as identified in Target Dates M-81-00A-T02, M-81-00A-T03 and M-81-00A-T04 are dependent upon currently unknown external schedules (i.e. PFP shutdown schedule and INEEL (ANL-W) storage schedule), however, all the fuel will be washed and stored in time to meet the milestone date. Fuel washing operations for the fuel groups will be sequenced to accommodate storage schedules for each fuel group. | 3/31/2009                                 |
| M-81-00A-T03<br>See Note             | Complete transfer of irradiated fuel to secure onsite storage.<br><br>Irradiated fuel assemblies and pin containers will be transferred from the interim decay storage vessel and the fuel storage facility to the IEM cell for residual sodium removal, loaded into a core component container, transferred to the reactor service building cask loading station for placement into an interim storage cask for dry storage, and transferred to secure Hanford site storage.  | 3/31/2009                                 |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u>            | <u>Milestone</u>   | <u>Due Date</u> |
|--------------------------|--|-----------------|
|                          | NOTE: The sequence of washing of unirradiated, irradiated and special fuel groups as identified in Target Dates M-81-00A-T02, M-81-00A-T03 and M-81-00A-T04 are dependent upon currently unknown external schedules (i.e. PFP shutdown schedule and INEEL (ANL-W) storage schedule), however, all the fuel will be washed and stored in time to meet the milestone date. Fuel washing operations for the fuel groups will be sequenced to accommodate storage schedules for each fuel group.   |                 |
| M-81-00A-T04<br>See Note | <p>Complete transfer of special fuel to DOE's Idaho National Engineering Laboratory for consolidated storage.</p> <p>Sodium-bonded irradiated metal and carbide fuel from assemblies cleaned in the IEM Cell will be loaded into existing, approved shipping casks, and transported to the Idaho National Engineering Laboratory (INEEL, ANL-W) in Idaho Falls, Idaho, for consolidated storage. Should the INEEL, ANL-W facility not be readily available, sodium bonded fuel will be loaded in Interim Storage Casks and transferred to a storage location on the Hanford Site (e.g., 200 or 400 Area Interim Storage Areas). One unirradiated metal fuel assembly will also be dispositioned in a similar manner.</p> <p>NOTE: The sequence of washing of unirradiated, irradiated and special fuel groups as identified in Target Dates M-81-00A-T02, M-81-00A-T03 and M-81-00A-T04 are dependent upon currently unknown external schedules (i.e. PFP shutdown schedule and INEEL (ANL-W) storage schedule), however, all the fuel will be washed and stored in time to meet the milestone date. Fuel washing operations for the fuel groups will be sequenced to accommodate storage schedules for each fuel group.</p> | 3/31/2009       |
| M-81-00A-T05             | <p>Complete auxiliary plant systems deactivation.</p> <p>A major portion of the plant auxiliary systems are required to support hot sodium circulation prior to draining the sodium. As these systems, and the balance of plant systems, become available for shutdown, they will be deactivated to a safe, stable condition.</p>  | 2/28/2011       |
| M-81-10-T01              | <p>Submit final sodium disposition evaluation report</p> <p>The Office of River Protection will use the Hanford Site radioactive sodium inventory (i.e., FFTF, Hallam and SRE sodium following conversion to sodium hydroxide) in the Waste Treatment Plant (WTP) for tank sludge pretreatment (i.e., caustic washing). A report will be prepared in concert with M-92-10 to: 1) determine where the sodium will be converted (i.e., an existing facility operated by Argonne National Laboratory - West (ANL-W) located within the INEEL site or at a new facility to be constructed adjacent to the Sodium</p>   | 09/30/2005      |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>  | <u>Due Date</u> |
|---------------|---|-----------------|
|               | Storage Facility) and 2) to establish need dates for delivery of the caustic to WIP. Following submittal of this report, appropriate milestones and/or target dates will be established for the final disposition of the sodium.  |                 |
| M-81-11       | Submit FFTF End Point Criteria Document.<br><br>A document identifying the end point criteria necessary to place the FFTF in a safe and stable surveillance and maintenance configuration will be developed. This document will be provided to EPA and Ecology for review, and approval for the regulated units and/or hazardous substances proposed to remain at the facility after transition is complete.  | 8/31/2005       |
| M-81-12       | Initiate FFTF Sodium Drain.<br><br>This milestone will be complete when the drain of the first secondary loop is begun. Completion will be achieved when all the preparatory actions (i.e., procedures written and approved, plant configuration line-up, Operator training, facility startup review) have been completed and sodium is being transferred to in-plant tank T-44.  | 6/30/2003       |
| M-81-13       | Complete reactor and heat transport system sodium drain.<br><br>Primary and Secondary heat transport systems, Reactor Vessel (including reactor vessel plenum), and supporting sodium systems will be drained to the sodium storage facility to the maximum extent practical. The sodium will be stored as product material in the sodium storage facility. Remaining sodium residuals (est. 3600 "gallons") will be solid in form (adhering to the surfaces of system components, small pockets inherent to the reactor design, and in heat transport system cold traps and valves). These residuals will be maintained under an inert gas blanket or passivated to minimize potential reactions during the long-term surveillance and maintenance phase. During final facility disposition, any regulated wastes generated from the cleaning or dismantlement of these systems will be managed in compliance with applicable regulatory requirements. | 6/30/2005       |
| M-81-14       | Complete FFTF Sodium Drain.<br><br>This milestone will be complete when all sodium (with the exception of noted sodium residuals) has been drained from the FFTF reactor and its associated systems and the fuel storage vessels.   | 9/30/2009       |
| M-81-14-T01   | Complete Fuel Storage Facility sodium drain.<br><br>The Fuel Storage Facility vessel will be drained to the sodium storage facility to the maximum extent practical. Sodium residuals will be maintained under an inert gas   | 4/30/2007       |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u>                        | <u>Milestone</u>   | <u>Due Date</u> |
|--------------------------------------|--|-----------------|
|                                      | blanket or passivated to minimize potential reactions during the long-term surveillance and maintenance phase. During final facility disposition, any regulated wastes generated from the cleaning or dismantlement of these systems will be managed in compliance with applicable regulatory requirements.  |                 |
| M-81-14-T02                          | Initiate Interim Decay Storage Vessel sodium drain.<br><br>This milestone will be complete when sodium drain from the Interim Decay Storage Vessel is begun. Completion will be achieved when all the preparatory actions (i.e., procedures written and approved, plant configuration line-up, Operator training, facility startup review) have been completed and sodium is being transferred to in-plant tank T-43.  | 6/30/2008       |
| M-81-15                              | Submit FTFF Surveillance and Maintenance Plan.<br><br>DOE will develop a plan detailing S&M activities to occur at FTFF during the S&M phase. This plan will be provided to EPA and Ecology for review, and approval for the regulated units and/or hazardous substances proposed to remain at the facility. This plan will include documentation of lists of hazardous substances including dangerous wastes that remain in the FTFF Facility upon completion of transition because the hazardous substance: (1) contains non-dangerous waste components that are highly radioactive, (2) is part of the plant structure and/or (3) is an intact piece(s) of equipment. | 06/30/2010      |
| M-083-00A<br>LEAD AGENCY:<br>ECOLOGY | COMPLETE PFP FACILITY TRANSITION & SELECTED DISPOSITION ACTIVITIES.<br><br>COMPLETION OF THIS MAJOR MILESTONE INCLUDES THE FOLLOWING KEY ELEMENTS: 1) COMPLETION OF ALL ACTIVITIES NECESSARY TO ACHIEVE END POINT CRITERIA ESTABLISHED THROUGH MILESTONE M-83-20 FOR PLACING THE PFP FACILITY IN A SAFE AND STABLE S&M MODE, 2) COMPLETION OF ALL ACTIVITIES DESCRIBED IN THE APPROVED M-83 SERIES INTERIM MILESTONES AND TARGET DATE; AND 3) COMPLETION OF THE BALANCE OF PFP SELECTED DISPOSITION ACTIVITIES PURSUANT TO THE FINAL ACTION MEMORANDA AND WORK PLANS.<br><br>ALSO SEE "DESCRIPTION/JUSTIFICATION" CONTAINED IN CHANGE FORM M-83-01-03.                   | 09/30/2016      |
| MX-083-12-T01                        | SUBMIT PFP LEGACY PU HOLDUP REMOVAL PLAN TO ECOLOGY.<br><br>THE PFP LEGACY PU HOLDUP REMOVAL PLAN WILL DEFINE THE STARTING INVENTORY OF PU IN VARIOUS LOCATIONS THROUGHOUT THE PROCESS FACILITIES, THE METHODS BY WHICH SIGNIFICANT CONCENTRATIONS OF HOLDUP WILL BE REMOVED AND THE DISPOSITION PATHS FOR THE HOLDUP THAT IS REMOVED. THE BEGINNING   | 12/31/2003      |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>   | <u>Due Date</u> |
|---------------|--|-----------------|
|               | <p>INVENTORY AND LOCATIONS CONTAINING SIGNIFICANT QUANTITIES OF PU HOLDUP WILL BE IDENTIFIED AND QUANTIFIED USING THE HANFORD SITE SAFEGUARDS DATABASE FOR ACCOUNTABLE SNM. NOTE: INVENTORY INFORMATION MAY BE CLASSIFIED AND/OR RESTRICTED FROM PUBLIC RELEASE. ADDITIONAL ENGINEERING ANALYSIS AND NON-DESTRUCTIVE ASSAY MAY BE USED TO UPDATE OLDER DATA AND/OR TO MORE PRECISELY LOCATE CONCENTRATIONS OF HOLDUP.</p> <p>ALSO SEE "DESCRIPTION/JUSTIFICATION" CONTAINED IN CHANGE FORM M-83-01-03.</p>   |                 |
| M-083-13      | <p>COMPLETE REPACKAGING OF PFP MIXED WASTE RESIDUES AND SHIPMENT TO CENTRAL WASTE COMPLEX.</p> <p>THIS MILESTONE WILL BE COMPLETE WHEN RESIDUES IDENTIFIED IN THE IMPLEMENTATION PLAN FOR DEFENSE NUCLEAR FACILITIES SAFETY BOARD RECOMMENDATION 2000-1 DATED JULY 22, 2002, AS AMENDED HAVE BEEN REPACKAGED AT PFP AND SHIPPED TO THE CWC FOR STORAGE. THIS DOES NOT INCLUDE THOSE ITEMS IDENTIFIED AS NON-DESTRUCTIVE ASSAY (NDA) STANDARDS OR ITEMS SET ASIDE FOR THE WIPP VERIFICATION SAMPLING. PRIOR TO REPACKAGING, DATA FOR EACH RESIDUE WASTE STREAM SHALL BE OBTAINED TO SUPPORT WASTE DESIGNATION AND IDENTIFY WHERE SAMPLING AND ANALYSIS IS NEEDED. DATA FOR EACH WASTE STREAM WILL SATISFY RCRA GENERATOR REQUIREMENTS FOR DESIGNATION, WAC 173-303-070 THROUGH 110, LDR CERTIFICATION, AND THE RECEIVING FACILITY WASTE ACCEPTANCE CRITERIA, AS APPLICABLE. FOR TRU MIXED WASTE, PFP SHALL ALSO PROVIDE THE DATA NEEDS FOR CHARACTERIZATION OF TRU-MIXED WASTE STREAMS SUFFICIENT TO MEET THE ACCEPTABLE KNOWLEDGE REQUIREMENTS OF THE HANFORD TRU PROGRAM. RESIDUE CONTAINERS SHALL BE STORED IN HC-46F GLOVEBOX IN ROOM 170 OF BUILDING 234-5Z, ROOMS 192D AND 170, AND STAGED IN ROOM 169. RESIDUE CONTAINERS ARE PREPARED FOR SHIPMENT TO CWC IN ROOM 192 AND THE LOADING DOCK. THE POCS SHALL BE MANAGED IN ACCORDANCE WITH WAC 173-303-630, USE AND MANAGEMENT OF CONTAINERS. POCS SHALL MEET THE CWC REQUIREMENTS IN THE HANFORD SITE SOLID WASTE ACCEPTANCE CRITERIA AND COMPLY WITH APPLICABLE DANGEROUS WASTE MANAGEMENT REQUIREMENTS WHILE AWAITING CERTIFICATION AND TRANSFER TO WIPP. THE LOCATIONS OF WASTE MANAGEMENT ACTIVITIES MAY BE CHANGED THROUGH AGREEMENT OF THE PARTIES BY MODIFICATION OF THIS MILESTONE.</p> <p>ALSO SEE "DESCRIPTION/JUSTIFICATION" CONTAINED IN CHANGE FORM M-83-01-03.</p> | 04/30/2004      |
| M-083-14      | <p>COMPLETE 100% OF THE LEGACY PU HOLDUP REMOVAL AS DEFINED IN THE LEGACY PU HOLDUP REMOVAL PLAN FOR PFP REQUIRED BY MX-83-12-T01.</p> <p>SIGNIFICANT QUANTITIES OF PLUTONIUM NOW HELD UP IN INACTIVE AND TO-BE DEACTIVATED PFP PROCESS EQUIPMENT AND PROCESS SUPPORT SYSTEMS WILL BE REMOVED BY A VARIETY OF MEANS</p>  | 09/30/2006      |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>  | <u>Due Date</u> |
|---------------|---|-----------------|
|               | <p>(BRUSHING, SCRAPING, DISSOLUTION, CHEMICAL DECONTAMINATION AGENTS, ETC.) IN ACCORDANCE WITH A PREVIOUSLY SUBMITTED LEGACY PU HOLDUP REMOVAL PLAN (MX-83-12-T01). SUFFICIENT HOLDUP WILL BE REMOVED TO MEET DOE'S CRITERIA FOR TERMINATING PROTECTED AREA CONTROLS OVER THE PROCESS EQUIPMENT AND PROCESS SUPPORT FACILITIES. PU HOLDUP REMOVED AS A RESULT OF THESE ACTIVITIES WILL BE ASSESSED AGAINST DOE'S DISCARD CRITERIA AND DISPOSITIONED VIA STABILIZATION, REPACKAGING AND TRANSFER TO THE PFP VAULTS OR TREATED AND/OR DIRECTLY REPACKAGED AS TRU WASTE OR PU RESIDUES FOR TRANSFER TO THE CWC AND EVENTUAL DISPOSITION AT WIPP.</p> <p>ALSO SEE "DESCRIPTION/JUSTIFICATION" CONTAINED IN CHANGE FORM M-83-01-03.</p>  |                 |
| M-083-20      | <p>SUBMIT FACILITY TRANSITION END POINT CRITERIA DOCUMENT AS A PRIMARY DOCUMENT TO ECOLOGY PURSUANT TO AGREEMENT ACTION PLAN SECTION 8.5.3.</p> <p>A DOCUMENT IDENTIFYING END POINT CRITERIA NECESSARY TO PLACE PFP IN AN ENVIRONMENTALLY SOUND, SAFE, AND STABLE CONFIGURATION WILL BE SUBMITTED TO ECOLOGY FOR REVIEW AND APPROVAL. LEAD REGULATORY AGENCY APPROVAL OF ENDPOINT CRITERIA IN THIS DOCUMENT WILL BE SPECIFIC TO REGULATED UNITS AND HAZARDOUS SUBSTANCES PROPOSED TO REMAIN AT THE FACILITY AFTER THE TRANSITION PHASE OF FACILITY DECOMMISSIONING IS COMPLETE. SUBSEQUENT TO THIS INITIAL SUBMITTAL, THE END POINT CRITERIA DOCUMENT MAY BE UPDATED AS NECESSARY TO REFLECT THE M-83-22 DECISION(S) FOR COMPLETION OF M-83-00A, AND THROUGHOUT TRANSITION TO REFLECT CHANGES THAT MAY OCCUR DURING DEACTIVATION WORK ACTIVITIES. AS A PRIMARY DOCUMENT, REVISIONS ARE SUBJECT TO ECOLOGY REVIEW AND APPROVAL.</p> <p>ALSO SEE "DESCRIPTION/JUSTIFICATION" CONTAINED IN CHANGE FORM M-83-01-03.</p> | 09/30/2003      |
| M-083-22      | <p>SUBMIT TO ECOLOGY AN ENGINEERING EVALUATION/COST ANALYSIS (ES) [EE/CA(S)] FOR APPROVAL AND PROVIDE AN ACTION MEMORANDUM(A) AS A PRIMARY DOCUMENT(S) FOR THE DECOMMISSIONING OF THE PFP FACILITY.</p> <p>THE ACTION MEMORANDUM(A) WILL INCLUDE A SCHEDULE FOR THE SUBMITTAL OF WORK PLANS AS PRIMARY DOCUMENT(S). SCOPING OF THE EE/CA(S) SHALL BE DONE TO SUPPORT TIMELY ACCOMPLISHMENT OF DISMANTLEMENT WORK SCOPE. MORE SPECIFICALLY, AN EE/CA AND ACTION MEMORANDUM CAN BE PHASED TO SUPPORT A NEAR TERM DISMANTLEMENT WITH SUBSEQUENT EE/CA(S) ADDRESSING REMAINING WORK SCOPE. THE ACTION MEMORANDUM(A) WILL BE CONSISTENT WITH SECTION 8 OF THE HFFACO AND WILL NOT BE INCONSISTENT WITH EXECUTIVE ORDER 12850.</p> <p>COMPLETION OF THIS MILESTONE SHALL ALSO REQUIRE DOE TO PERFORM AN EVALUATION OF ACTIONS NECESSARY TO ADDRESS BELOW-</p>   | 09/30/2008      |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>   | <u>Due Date</u> |
|---------------|--|-----------------|
|               | <p>GRADE STRUCTURES OR OTHER STRUCTURES OR HAZARDOUS SUBSTANCES, DANGEROUS WASTE OR DANGEROUS CONSTITUENTS REMAINING AFTER COMPLETION OF M-83-00A. THIS WILL INCLUDE ENVIRONMENT ANALYSIS AND PUBLIC REVIEW.</p> <p>ALSO SEE "DESCRIPTION/JUSTIFICATION" CONTAINED IN CHANGE FORM M-83-01-03.</p>  |                 |
| M-083-23      | <p>COMPLETE NEGOTIATIONS AS NEEDED FOR REVISING MILESTONES CONSISTENT WITH FINAL ACTION MEMORANDA FOR DECOMMISSIONING OF PFP.</p> <p>IF THE FINAL ACTION MEMORANDA FOR DECOMMISSIONING OF PFP DO NOT SUPPORT THE EXISTING MILESTONES LEADING TO THE PROPOSED END POINT OF A SAFE AND STABLE SLAB-ON-GRADE CONFIGURATION, AND ECOLOGY DETERMINES THAT SUCH MILESTONES ARE NOT NEEDED TO PROTECT HUMAN HEALTH AND THE ENVIRONMENT OR TO ACHIEVE COMPLIANCE WITH APPLICABLE REGULATIONS, THE PARTIES WILL COMPLETE NEGOTIATIONS TO ESTABLISH REVISED MILESTONES CONSISTENT WITH THE DECISION DOCUMENTATION. THIS MILESTONE IS COMPLETE IF NEGOTIATIONS ARE COMPLETED BY THE INDICATED DATE OR IF ECOLOGY DETERMINES THAT NEGOTIATIONS ARE NOT REQUIRED.</p> | 03/31/2009      |
| M-083-24      | <p>SUBMIT A SURVEILLANCE AND MAINTENANCE (S&amp;M) PLAN AS A PRIMARY DOCUMENT TO ECOLOGY PURSUANT TO AGREEMENT SECTION 8.5.4.</p> <p>A S&amp;M PLAN WILL BE SUBMITTED TO ECOLOGY AS LEAD REGULATORY AGENCY. LEAD REGULATORY AGENCY APPROVAL WILL BE SPECIFIC TO INFORMATION AFFECTING REGULATED UNITS AND HAZARDOUS SUBSTANCES IN THE FACILITY. THE S&amp;M PLAN WILL DESCRIBE THOSE ACTIVITIES THAT WILL OCCUR DURING THE S&amp;M PERIOD AND INCLUDE THE FOLLOWING: 1) SURVEILLANCE; (2) MAINTENANCE; (3) QUALITY ASSURANCE; (4) RADIOLOGICAL CONTROLS; (5) HAZARDOUS SUBSTANCE INVENTORY, MANAGEMENT AND PROTECTION; (6) HEALTH AND SAFETY/EMERGENCY PREPAREDNESS; (7) SAFEGUARDS AND SECURITY; AND (8) COST AND SCHEDULE.</p>                         | 06/30/2012      |
| M-083-30      | <p>SUBMIT TO ECOLOGY A CLOSURE PLAN AS A PRIMARY DOCUMENT FOR THE 241-Z WASTE TREATMENT FACILITY (TSD UNIT) AND GLOVEBOX HA-20MB.</p> <p>A CLOSURE PLAN CERTIFIED IN ACCORDANCE WITH WAC 173-303-810(12) AND (13) FOR THE 241-Z AND GLOVEBOX HA-20MB TSD UNITS WILL BE SUBMITTED TO ECOLOGY TO BEGIN THE REVIEW PROCESS DESCRIBED BY FIGURE 9-2 IN SECTION 9 OF THE HFFACO FOR INCORPORATION INTO THE HANFORD FACILITY RCRA PERMIT. THE CLOSURE PLAN WILL DESCRIBE THE PLANS AND SCHEDULES NECESSARY TO COMPLY WITH WAC 173-303. THIS CLOSURE PLAN IS A PRIMARY DOCUMENT PURSUANT TO TABLE 9-1 OF THE HFFACO ACTION PLAN. THE 241-Z CLOSURE PLAN SHALL BE BASED UPON AND CONTAIN SCHEDULES AS NECESSARY TO FULFILL MILESTONE M-83-32.</p>                | 07/31/2003      |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>   | <u>Due Date</u> |
|---------------|--|-----------------|
|               | ALSO SEE "DESCRIPTION/JUSTIFICATION" CONTAINED IN CHANGE FORM M-83-01-03.  |                 |
| M-083-31      | DISCONTINUE WASTE DISCHARGES FROM THE 241-Z TANKS TO TANK FARMS VIA EXISTING LINES.<br><br>AFTER JUNE 30, 2005, NO WASTE LIQUID EFFLUENT DISCHARGES FROM 241-Z TANK SYSTEM TO TANK FARMS VIA THE EXISTING TRANSFER PIPING LINES WILL OCCUR. (TRANSFERS BY OTHER MEANS, SUCH AS A TANKER TRUCK, ARE ALLOWED.)<br><br>ALSO SEE "DESCRIPTION/JUSTIFICATION" CONTAINED IN CHANGE FORM M-83-01-03.  | 06/30/2005      |
| M-083-32      | COMPLETE CLOSURE OF THE PFP 241-Z TSD UNIT.<br><br>COMPLETE THOSE ACTIVITIES REQUIRED BY THE 241-Z TREATMENT AND STORAGE UNIT'S RCRA CLOSURE PLAN.<br><br>ALSO SEE "DESCRIPTION/JUSTIFICATION" CONTAINED IN CHANGE FORM M-83-01-03.  | 09/30/2011      |
| M-083-40      | COMPLETE TRANSITION AND DISMANTLEMENT OF THE 232-Z BLDG INCINERATOR.<br><br>REMOVE THE 232-Z BUILDING PURSUANT TO THE FINAL ACTION MEMORANDA AND WORK PLANS. INCLUDED IN THIS MILESTONE IS THE PORTION OF THE 232-Z EXHAUST DUCT INSIDE THE 291-Z BUILDING, CONSISTENT WITH THE END POINT CRITERIA DEVELOPED IN M-83-20. DOE DEACTIVATION AND DECONTAMINATION ACTIVITIES MAY PROCEED IN ADVANCE OF CERCLA DECISION DOCUMENTS IN ACCORDANCE WITH SECTION 8 OF THE HFFACO. | 09/30/2006      |
| M-083-41      | COMPLETE TRANSITION AND DISMANTLEMENT OF THE 216-Z-9 CRIB COMPLEX.<br><br>REMOVE THE ABOVE-GRADE PORTION OF THE 216-Z-9A, B, & C BUILDINGS PURSUANT TO THE FINAL ACTION MEMORANDA AND WORK PLANS COVERING REMAINING ELEMENTS NOT COVERED BY RCRA CLOSURE PLAN. DOE DEACTIVATION AND DECONTAMINATION ACTIVITIES MAY PROCEED IN ADVANCE OF CERCLA DECISION DOCUMENTS IN ACCORDANCE WITH SECTION 8 OF THE HFFACO.   | 09/30/2010      |
| M-083-42      | COMPLETE TRANSITION AND DISMANTLEMENT OF THE 241-Z WASTE TREATMENT FACILITY.<br><br>REMOVE THE ABOVE GRADE PORTION OF THE 241-Z, ZA, ZB, & ZG BUILDINGS PURSUANT TO THE FINAL ACTION MEMORANDUM AND WORK PLANS COVERING REMAINING ELEMENTS NOT COVERED BY RCRA CLOSURE PLANS. DOE DEACTIVATION AND DECONTAMINATION ACTIVITIES MAY PROCEED IN ADVANCE OF CERCLA DECISION DOCUMENTS IN ACCORDANCE WITH SECTION 8 OF THE HFFACO.  | 09/30/2011      |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u>                       | <u>Milestone</u>  | <u>Due Date</u>   |
|-------------------------------------|---|---|
| M-083-43                            | <p>COMPLETE TRANSITION OF THE 242-Z WASTE TREATMENT FACILITY AND 236-Z PLUTONIUM RECLAMATION FACILITY TO SUPPORT PFP DECOMMISSIONING.</p> <p>DEACTIVATE AND PREPARE FOR FUTURE DISMANTLEMENT THE ABOVE GRADE PORTIONS OF THE 242-Z AND 236-Z BUILDINGS.</p>   | 09/30/2013  |
| M-083-44                            | <p>COMPLETE TRANSITION OF THE 234-5Z (PLUTONIUM CONVERSION FACILITY) &amp; ZA (PLUTONIUM CONVERSION SUPPORT FACILITY), 243-Z LOW LEVEL WASTE TREATMENT FACILITY, 291-Z EXHAUST BUILDING, AND 291-Z-1 EXHAUST STACK TO SUPPORT PFP DECOMMISSIONING.</p> <p>DEACTIVATE AND PREPARE FOR DISMANTLEMENT THE ABOVE GRADE PORTIONS OF THE 234-5Z &amp; ZA, 243-Z, AND 291-Z AND 291-Z-1 STACK BUILDINGS.</p>   | 09/30/2015  |
| M-089-00<br>LEAD AGENCY:<br>ECOLOGY | COMPLETE CLOSURE OF NON-PERMITTED MIXED WASTE UNITS IN THE 324 BUILDING REC B-CELL, REC D-CELL, AND HIGH LEVEL VAULT.   | 10/31/2005  |
| M-090-00                            | <p>COMPLETE ACQUISITION OF NEW FACILITIES, MODIFICATION OF EXISTING FACILITIES, AND/OR MODIFICATION OF PLANNED FACILITIES AS NECESSARY FOR STORAGE OF HANFORD SITE IHLW AND ILAW, AND DISPOSAL OF ILAW.</p> <p>COMPLIANCE WITH THE WORK SCHEDULES SET FORTH IN THIS M-90 SERIES IS DEFINED AS THE PERFORMANCE OF SUFFICIENT WORK TO ASSURE WITH REASONABLE CERTAINTY THAT DOE WILL ACCOMPLISH SERIES M-90 MAJOR AND INTERIM MILESTONE REQUIREMENTS.</p> <p>DOE INTERNAL WORK SCHEDULES (E.G., DOE APPROVED SCHEDULE BASELINES) AND ASSOCIATED WORK DIRECTIVES AND AUTHORIZATIONS SHALL BE CONSISTENT WITH THE REQUIREMENTS OF THIS AGREEMENT. MODIFICATION OF DOE CONTRACTOR BASELINE(S) AND ISSUANCE OF ASSOCIATED DOE WORK DIRECTIVES AND/OR AUTHORIZATIONS THAT ARE NOT CONSISTENT WITH AGREEMENT REQUIREMENTS SHALL NOT BE FINALIZED PRIOR TO APPROVAL OF AN AGREEMENT CHANGE REQUEST SUBMITTED PURSUANT TO AGREEMENT ACTION PLAN SECTION 12.0.</p> | To Be<br>Established<br>6 MONTHS<br>AFTER<br>APPROVAL OF<br>PROJECT<br>MANAGEMENT<br>PLAN |
| M-090-08                            | <p>INITIATE ILAW DISPOSAL FACILITY CONSTRUCTION.</p> <p>INITIATION OF CONSTRUCTION OCCURS WHEN DOE OR ITS CONTRACTOR (AS AUTHORIZED) ISSUES AN APPROVAL TO START CONSTRUCTION AND THE CONTRACTOR COMMENCES EXCAVATION OF NON-CRITICAL SYSTEMS WITHIN THE RCRA DISPOSAL FACILITY.</p>  | 02/28/2005  |
| M-090-09-T01                        | <p>COMPLETE DETAILED DESIGN OF ILAW DISPOSAL FACILITY CRITICAL SYSTEMS TO 80%.</p> <p>DETAILED DESIGN OF CRITICAL SYSTEMS INCLUDES THE A) LINER, B) LEACHATE COLLECTION SYSTEM AND C) LEAK DETECTION SYSTEM.</p>  | 05/30/2003  |
| M-090-10                            | INITIATE PLACEMENT OF ILAW WASTE CANISTERS IN ILAW DISPOSAL FACILITY.   | 08/31/2008  |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>  | <u>Due Date</u>  |
|---------------|---|--|
|               | (LOW ACTIVITY WASTE PACKAGES PLACED WITHIN THESE FACILITIES WILL BE RETRIEVABLE).   |  |
| M-090-11      | <p>COMPLETE CANISTER STORAGE FACILITY CONSTRUCTION.</p> <p>COMPLETION OF THIS MILESTONE REQUIRES THE COMPLETION OF ALL CONSTRUCTION, INTERNAL/EXTERNAL FACILITY(S) MODIFICATIONS AND STARTUP ACTIVITIES NECESSARY FOR CANISTER STORAGE FACILITY RECEIPT OF ALL PHASE I HANFORD SITE HIGH LEVEL WASTE CANISTERS FROM TANK WASTE REMEDIATION SYSTEM (TWRS) PROCESSING. FOR PURPOSES OF THIS INTERIM MILESTONE PHASE I IHLW CANISTER STORAGE IS DEFINED AS THE CAPABILITY FOR STORAGE OF AT LEAST 600 IHLW CANISTERS. INTERIM MILESTONES AND ASSOCIATED TARGET DATES ESTABLISHING WORK SCHEDULES FOR PHASE II IHLW CANISTER STORAGE WILL BE ESTABLISHED PURSUANT TO THE PHASE II REQUEST FOR PROPOSAL FOR TWRS PRIVATIZATION. FOR PERMITTING PURPOSES DETAILS DESIGN OF CRITICAL SYSTEMS INCLUDES THE CANISTER STORAGE TUBE SYSTEM.</p>  | 06/30/2009   |
| M-091-00      | <p>COMPLETE THE ACQUISITION OF NEW FACILITIES, MODIFICATION OF EXISTING FACILITIES, AND/OR MODIFICATION OF PLANNED FACILITIES NECESSARY FOR STORAGE, TREATMENT/PROCESSING, AND DISPOSAL OF ALL HANFORD SITE TRU/TRUM, LLMW, AND GTC3.</p> <p>* NEGOTIATION OF SCHEDULES FOR FACILITY MODIFICATION WHICH MAY BE NECESSARY FOR THE MANAGEMENT OF PRE 1970 TRU/TRUM WILL BE ESTABLISHED FOLLOWING THE ISSUANCE OF OPERABLE UNIT RECORDS OF DECISION (RODS).</p> <p>NOTE: The M-91 milestone series and/or parts thereof have been in dispute resolution under Agreement Article VIII, Paragraph 30. An Ecology Director's Final Determination was issued March 10, 2003. On April 9, 2003, the DOE appealed the Director's Final Determination to state and federal courts for final resolution. The DOE will incorporate the final resolution into the appropriate plan and/or schedule pursuant to Article VIII, Paragraph 30, I of the Agreement.</p> | To Be Determined*  |
| M-091-01      | <p>COMPLETE THE ACQUISITION OF NEW FACILITIES, MODIFICATION OF EXISTING FACILITIES, AND/OR MODIFICATION OF PLANNED FACILITIES NECESSARY FOR STORAGE, AND TREATMENT/PROCESSING PRIOR TO DISPOSAL OF ALL HANFORD SITE POST 1970 TRU/TRUM.</p> <p>** THE DATE FOR COMPLETION OF M-91-01 WILL BE DETERMINED AFTER REQUIRED TECHNOLOGY HAS BEEN DETERMINED THROUGH THE TRU/TRUM PMP, BUT WILL BE NO LATER THAN DECEMBER 2000.</p> <p>NOTE: The M-91 milestone series and/or parts thereof have been in dispute resolution under Agreement Article VIII, Paragraph 30. An Ecology Director's Final Determination was issued March 10, 2003. On April 9, 2003, the DOE appealed the Director's Final Determination to state and federal</p>  | <p>To Be Established</p> <p>**</p> <p>(BUT NO LATER THAN 12/31/2000)</p> |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>  | <u>Due Date</u> |
|---------------|---|-----------------|
|               | courts for final resolution. The DOE will incorporate the final resolution into the appropriate plan and/or schedule pursuant to Article VIII, Paragraph 30, I of the Agreement.  |                 |
| M-091-03      | <p>SUBMIT HANFORD SITE TRU/TRUM WASTE PROJECT MANAGEMENT PLAN (PMP) TO ECOLOGY PURSUANT TO AGREEMENT SECTION 11.5.</p> <p>THE HANFORD SITE TRU/TRUM WASTE PMP WILL INCLUDE ALL PLAN ELEMENTS REQUIRED BY AGREEMENT ACTION PLAN SECTION 11.5. APPROVAL OF THE TRU/TRUM PMP AND ACCOMPANYING AGREEMENT CHANGE REQUEST WILL ESTABLISH ALL MAJOR PROJECT TASKS AND DELIVERABLES FOR TREATMENT/STORAGE OF HANFORD SITE TRU/TRUM INCLUDING COMMERCIAL SECTOR MANAGEMENT, MODIFICATION OF EXISTING FACILITIES, AND CONSTRUCTION OF NEW FACILITIES.</p> <p><u>NOTE:</u> The M-91 milestone series and/or parts thereof have been in dispute resolution under Agreement Article VIII, Paragraph 30. An Ecology Director's Final Determination was issued March 10, 2003. On April 9, 2003, the DOE appealed the Director's Final Determination to state and federal courts for final resolution. The DOE will incorporate the final resolution into the appropriate plan and/or schedule pursuant to Article VIII, Paragraph 30, I of the Agreement.</p> | 06/30/2000      |
| M-091-05-T01  | <p>COMPLETE AND SUBMIT TRU/TRUM RETRIEVAL AND PROCESSING FACILITY ENGINEERING STUDY/FUNCTIONAL DESIGN CRITERIA STUDY TO ECOLOGY.</p> <p>THE TRU/TRUM ENGINEERING/FUNCTIONAL DESIGN CRITERIA STUDY WILL COVER ACTIVITIES/FACILITIES NOT CONSIDERED COMMERCIALY VIABLE AS DOCUMENTED IN THE APPROVED TRU/TRUM PMP AND ASSOCIATED AGREEMENT CHANGE REQUESTS.</p> <p><u>NOTE:</u> The M-91 milestone series and/or parts thereof have been in dispute resolution under Agreement Article VIII, Paragraph 30. An Ecology Director's Final Determination was issued March 10, 2003. On April 9, 2003, the DOE appealed the Director's Final Determination to state and federal courts for final resolution. The DOE will incorporate the final resolution into the appropriate plan and/or schedule pursuant to Article VIII, Paragraph 30, I of the Agreement.</p>   | 12/31/2002      |
| M-091-06-T01  | <p>AWARD NECESSARY PRIVATIZED CONTRACTS FOR PROCESSING REMOTE HANDLED (RH) AND LARGE SIZE TRU/TRUM.</p> <p><u>NOTE:</u> The M-91 milestone series and/or parts thereof have been in dispute resolution under Agreement Article VIII, Paragraph 30. An Ecology Director's Final Determination was issued March 10, 2003. On April 9, 2003, the DOE appealed the Director's Final Determination to state and federal courts for final resolution. The DOE will incorporate the final resolution into the appropriate plan and/or schedule pursuant to Article VIII, Paragraph 30, I of the Agreement.</p>   | 09/30/2003      |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>   | <u>Due Date</u> |
|---------------|--|-----------------|
| M-091-07      | <p>COMPLETE PROJECT W-113 FOR POST 1970 CH TRU/TRUM RETRIEVAL.</p> <p><u>NOTE:</u> The M-91 milestone series and/or parts thereof have been in dispute resolution under Agreement Article VIII, Paragraph 30. An Ecology Director's Final Determination was issued March 10, 2003. On April 9, 2003, the DOE appealed the Director's Final Determination to state and federal courts for final resolution. The DOE will incorporate the final resolution into the appropriate plan and/or schedule pursuant to Article VIII, Paragraph 30, I of the Agreement.</p>   | 09/30/2004      |
| M-091-08-T01  | <p>COMPLETE CONSTRUCTION AND INITIATE HOT OPERATIONS OF RH AND LARGE SIZE TRU/TRUM PROCESSING FACILITY (A FINAL ACQUISITION SCHEDULE FOR THIS FACILITY WILL BE ESTABLISHED AS AN INTERIM MILESTONE NO LATER THAN DECEMBER 2000).</p> <p><u>NOTE:</u> The M-91 milestone series and/or parts thereof have been in dispute resolution under Agreement Article VIII, Paragraph 30. An Ecology Director's Final Determination was issued March 10, 2003. On April 9, 2003, the DOE appealed the Director's Final Determination to state and federal courts for final resolution. The DOE will incorporate the final resolution into the appropriate plan and/or schedule pursuant to Article VIII, Paragraph 30, I of the Agreement.</p> | 06/30/2005      |
| M-091-12      | <p>COMPLETE THERMAL TREATMENT AND DISPOSAL OF AN ADDITIONAL 360 CUBIC METERS OF CONTACT HANDLED LLMW. THIS BRINGS THE CUMULATIVE TOTAL TO AT LEAST 600 CUBIC METERS OF CONTACT HANDLED LLMW THERMALLY TREATED AND DISPOSED OF.</p> <p><u>NOTE:</u> The M-91 milestone series and/or parts thereof have been in dispute resolution under Agreement Article VIII, Paragraph 30. An Ecology Director's Final Determination was issued March 10, 2003. On April 9, 2003, the DOE appealed the Director's Final Determination to state and federal courts for final resolution. The DOE will incorporate the final resolution into the appropriate plan and/or schedule pursuant to Article VIII, Paragraph 30, I of the Agreement.</p>   | 12/31/2005      |
| M-091-12A     | <p>COMPLETE THERMAL TREATMENT AND DISPOSAL OF AT LEAST 240 CUBIC METERS OF CONTACT HANDLED LLMW.</p> <p><u>NOTE:</u> The M-91 milestone series and/or parts thereof have been in dispute resolution under Agreement Article VIII, Paragraph 30. An Ecology Director's Final Determination was issued March 10, 2003. On April 9, 2003, the DOE appealed the Director's Final Determination to state and federal courts for final resolution. The DOE will incorporate the final resolution into the appropriate plan and/or schedule pursuant to Article VIII, Paragraph 30, I of the Agreement.</p>   | 12/31/2004      |
| M-091-14-T01  | AWARD COMMERCIALIZATION CONTRACT(S) FOR TREATMENT OF RH AND  | 10/31/2003      |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>  | <u>Due Date</u> |
|---------------|---|-----------------|
|               | <p>LARGE SIZE LLMW PER APPROVED LLMW/GTC3 PMP AND ASSOCIATED AGREEMENT CHANGE REQUESTS.</p> <p><u>NOTE:</u> The M-91 milestone series and/or parts thereof have been in dispute resolution under Agreement Article VIII, Paragraph 30. An Ecology Director's Final Determination was issued March 10, 2003. On April 9, 2003, the DOE appealed the Director's Final Determination to state and federal courts for final resolution. The DOE will incorporate the final resolution into the appropriate plan and/or schedule pursuant to Article VIII, Paragraph 30, I of the Agreement.</p>   |                 |
| M-091-15      | <p>COMPLETE ACQUISITION OF FACILITIES AND INITIATE TREATMENT OF RH AND LARGE CONTAINER (CH) LLMW.</p> <p><u>NOTE:</u> The M-91 milestone series and/or parts thereof have been in dispute resolution under Agreement Article VIII, Paragraph 30. An Ecology Director's Final Determination was issued March 10, 2003. On April 9, 2003, the DOE appealed the Director's Final Determination to state and federal courts for final resolution. The DOE will incorporate the final resolution into the appropriate plan and/or schedule pursuant to Article VIII, Paragraph 30, I of the Agreement.</p>   | 06/30/2008      |
| M-091-20      | <p>T PLANT IS READY TO RECEIVE THE FIRST CANISTER OF K BASINS FLOOR AND PIT SLUDGE.</p> <p>THIS INTERIM MILESTONE WILL BE COMPLETE WHEN ALL T PLANT READINESS ACTIVITIES HAVE BEEN COMPLETED TO ACCEPT PIT AND FLOOR SLUDGE. READINESS IS DEFINED AS THE ISSUANCE OF THE READINESS TO PROCEED LETTER BY THE APPROVAL AUTHORITY.</p> <p><u>NOTE:</u> The M-91 milestone series and/or parts thereof have been in dispute resolution under Agreement Article VIII, Paragraph 30. An Ecology Director's Final Determination was issued March 10, 2003. On April 9, 2003, the DOE appealed the Director's Final Determination to state and federal courts for final resolution. The DOE will incorporate the final resolution into the appropriate plan and/or schedule pursuant to Article VIII, Paragraph 30, I of the Agreement.</p> | 12/31/2002      |
| M-091-21-T01  | <p>COMPLETE PHYSICAL ACTIVITIES AT T PLANT NECESSARY TO STORE CANISTER AND FUEL WASH SLUDGE.</p> <p>THIS TARGET IS COMPLETE UPON THE DECLARATION OF COMPLETION OF MODIFICATIONS REQUIRED TO STORE CANISTER AND FUEL WASH SLUDGE IN T PLANT.</p> <p><u>NOTE:</u> The M-91 milestone series and/or parts thereof have been in dispute resolution under Agreement Article VIII, Paragraph 30. An Ecology Director's Final Determination was issued March 10, 2003. On April 9, 2003, the DOE appealed the Director's Final Determination to state and federal</p>  | 11/29/2003      |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>  | <u>Due Date</u>                   |
|---------------|---|-----------------------------------|
|               | courts for final resolution. The DOE will incorporate the final resolution into the appropriate plan and/or schedule pursuant to Article VIII, Paragraph 30, I of the Agreement.  |                                   |
| M-091-22      | <p>T PLANT IS READY TO RECEIVE CANISTER AND FUEL WASH SLUDGE FROM K BASINS.</p> <p>THIS INTERIM MILESTONE WILL BE COMPLETE WHEN ALL T PLANT READINESS ACTIVITIES HAVE BEEN COMPLETED TO ACCEPT CANISTER AND FUEL WASH SLUDGE. READINESS IS DEFINED AS THE ISSUANCE OF THE READINESS TO PROCEED LETTER BY THE APPROVAL AUTHORITY.</p> <p>NOTE: The M-91 milestone series and/or parts thereof have been in dispute resolution under Agreement Article VIII, Paragraph 30. An Ecology Director's Final Determination was issued March 10, 2003. On April 9, 2003, the DOE appealed the Director's Final Determination to state and federal courts for final resolution. The DOE will incorporate the final resolution into the appropriate plan and/or schedule pursuant to Article VIII, Paragraph 30, I of the Agreement.</p>                         | 02/29/2004                        |
| M-092-00      | COMPLETE ACQUISITION OF NEW FACILITIES, MODIFICATION OF EXISTING FACILITIES, AND/OR MODIFICATION OF PLANNED FACILITIES NECESSARY FOR THE STORAGE, TREATMENT/PROCESSING, AND DISPOSAL OF HANFORD SITE CESIUM AND STRONTIUM CAPSULES (Cs/Sr), BULK SODIUM (Na), AND 300 AREA SPECIAL WASTE (SCW).   | To Be Established BY OCTOBER 1998 |
| M-092-01      | COMPLETE COMMERCIAL DISPOSITION AND/OR ACQUISITION OF NEW FACILITIES, MODIFICATION OF EXISTING FACILITIES, AND/OR MODIFICATION OF PLANNED FACILITIES NECESSARY FOR SITEWIDE CONSOLIDATION, AND STORAGE PRIOR TO COMMERCIAL USE, OR TREATMENT AND/OR REPACKAGING BY DOE TWRS. COMPLETION OF THIS MILESTONE REQUIRES THE COMPLETION OF COMMERCIAL DISPOSITION AND/OR ALL CONSTRUCTION, INTERNAL/EXTERNAL FACILITY(S) MODIFICATIONS, AND STARTUP ACTIVITIES NECESSARY FOR THE TREATMENT/PROCESSING, REPACKAGING (IF NECESSARY), AND STORAGE OF Cs/Sr (TO INCLUDE UNENCAPSULATED SALTS) LOCATED AT THE: (1) "ARECO" FACILITY IN LYNCHBERG VA (25 CAPSULES), (2) HANFORD 300 AREA (13 CAPSULES AT THE 327 POOL FACILITY AND EXCESS CS/SR SALTS AT THE 324 FACILITY), AND (3) HANFORD WASTE ENCAPSULATION AND STORAGE FACILITY (WESF) IN THE 200 EAST AREA. | 12/31/2009                        |
| M-092-05      | <p>INCLUSION OF HANFORD SITE Cs/Sr "TREATMENT AND/OR REPACKAGING PARAMETERS" IN DOE TWRS PHASE II REQUEST FOR PROPOSALS (TREATMENT AND/OR REPACKAGING OF ALL REMAINING Cs/Sr).</p> <p>DOE WILL ASSESS THE VIABILITY OF DIRECTLY DISPOSING OF HANFORD CS/SR CAPSULES AT THE NATIONAL HIGH-LEVEL WASTE REPOSITORY BASED ON THIS ASSESSMENT, IF DOE CONCLUDES THAT DIRECT DISPOSAL IS A VIABLE AND PREFERRED ALTERNATIVE TO VITRIFICATION, DOE WILL SUBMIT TO ECOLOGY SPECIFIC DOCUMENTATION JUSTIFYING ITS CONCLUSION, WITH A PROPOSED</p>  | 06/30/2007                        |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u>                    | <u>Milestone</u>   | <u>Due Date</u>  |
|----------------------------------|--|------------------|
|                                  | MILESTONE CHANGE REQUEST ESTABLISHING ENFORCEABLE AGREEMENT MILESTONES FOR DISPOSITIONING HANFORD CS/SR CAPSULES BY 2028.  |                  |
| MX-092-06-T02                    | COMPLETE THE DISPOSAL/OR DISPOSITION OF APPROXIMATELY 135 METRIC TONS OF UNIRRADIATED CONTAMINATED FUEL LOCATED IN THE 300 AREA AND 5 METRIC TONS OF MISCELLANEOUS URANIUM SOURCE MATERIALS LOCATED IN ALL 300 AND 200 AREA FUEL SUPPLY SHUTDOWN FACILITIES, AND COMPLETE DISPOSAL/DISPOSITION OF APPROXIMATELY 825 METRIC TONS OF UN-IRRADIATED FUEL SOURCE MATERIALS LOCATED IN THE 300 AREA FUEL SUPPLY SHUTDOWN FACILITIES.  | 09/30/2006       |
| M-092-09                         | COMPLETE ACQUISITION OF NEW FACILITIES, MODIFICATION OF EXISTING FACILITIES, AND/OR MODIFICATION OF PLANNED FACILITIES NECESSARY FOR STORAGE, TREATMENT/PROCESSING, AND DISPOSAL OF HANFORD SITE SODIUM.   | In Abeyance      |
| M-092-10                         | SUBMIT HANFORD SITE SODIUM PROJECT MANAGEMENT PLAN (PMP) TO ECOLOGY PURSUANT TO AGREEMENT ACTION PLAN SECTION 11.5. THE HANFORD SITE SODIUM PMP WILL INCLUDE ALL PLAN ELEMENTS REQUIRED BY AGREEMENT ACTION PLAN SECTION 11.5. SHOULD DOE DETERMINE (PURSUANT TO THE HANFORD SITE SODIUM PMP AND AGREEMENT INTERIM MILESTONE M-50-03) THAT TWRS USE OF HANFORD SITE RADIOACTIVE SODIUM (FFTE, HALLAM & SODIUM REACTION EXPERIMENT) IS WARRANTED, IT SHALL SPECIFY IN ITS TWRS, HIGH LEVEL WASTE VITRIFICATION PLANT REQUEST FOR PROPOSAL(S) THAT USE OF HANFORD SITE RADIOACTIVE SODIUM IS A REQUIREMENT. SHOULD THE HANFORD SITE PMP AND FINDINGS PURSUANT TO AGREEMENT INTERIM MILESTONE M-50-03 DETERMINE THAT TWRS USE OF HANFORD SITE RADIOACTIVE SODIUM IS NOT WARRANTED DOE SHALL ISSUE ACCOMPANYING PROPOSED AGREEMENT CHANGE REQUESTS FOR ALTERNATIVE HANFORD SITE RADIOACTIVE SODIUM DISPOSITION (E.G., NECESSARY MILESTONES AND TARGET DATES ASSOCIATED WITH THE CONSTRUCTION OF THE SODIUM REACTION FACILITY). | In Abeyance      |
| MX-092-11-T01                    | COMPLETE DISPOSITION OPTIONS FOR ALL HANFORD NON-RADIOACTIVE SODIUM.   | 09/30/2004       |
| M-092-12                         | COMPLETE ACQUISITION OF NEW FACILITIES, MODIFICATION OF EXISTING FACILITIES, AND/OR MODIFICATION OF PLANNED FACILITIES NECESSARY FOR CONSOLIDATED STORAGE PRIOR TO DISPOSAL OF HANFORD SITE 300 AREA SPECIAL CASE WASTE (SCW).   | 09/30/2006       |
| M-092-16                         | COMPLETE REMOVAL AND TRANSFER, AND INITIATE STORAGE OF PHASE III 300 AREA SCW WASTE AND MATERIALS. PHASE III INVENTORY WILL CONSIST OF ANY REMAINING 300 AREA SCW WASTES AND MATERIALS.  | 09/30/2006       |
| M-093-00<br>LEAD AGENCY:<br>DUAL | COMPLETE FINAL DISPOSITION OF ALL 100 AREA SURPLUS PRODUCTION REACTOR BUILDINGS. 100 AREA SURPLUS PRODUCTION REACTOR BUILDINGS CONSIST OF THE FOLLOWING: 105-D, 105-DR, 105-H, AND 105/109-N (ECOLOGY LEAD), AND 105-B, 105-C, 105-F, 105-KE, AND 105-KW (EPA LEAD).   | To Be Determined |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>  | <u>Due Date</u> |
|---------------|---|-----------------|
| M-093-11      | COMPLETE 105-F INTERIM SAFE STORAGE. THIS MILESTONE INCLUDES THE COMPLETION OF ALL ACTIVITIES NECESSARY TO PLACE THE 105-F REACTOR FACILITY IN A SAFE STORAGE MODE IN PREPARATION FOR FINAL DISPOSITION (CONSISTENT WITH AN APPROVED S&M PLAN AND PROJECT DESIGN REPORT). THE ISS OF F REACTOR INCLUDES THE DISMANTLEMENT OF ALL 105-F FACILITY STRUCTURES OUTSIDE THE REACTOR PRIMARY SHIELD WALL. THESE ACTIVITIES INCLUDE HAZARD STABILIZATION, ASBESTOS ABATEMENT, FACILITY DECONTAMINATION, PIPE-CUTTING, FUEL BASIN CLEAN OUT, AND STRUCTURE REMOVAL TO THE PRIMARY SHIELD WALL.                                | 09/30/2004      |
| M-093-17      | COMPLETE THE INTERIM SAFE STORAGE FOR THE 105-D REACTOR.  | 12/31/2004      |
| M-093-18      | COMPLETE THE INTERIM SAFE STORAGE FOR THE 105-H REACTOR.  | 12/31/2005      |
| M-093-19      | SUBMIT TO EPA AND ECOLOGY THE 105/109-N REACTOR INTERIM SAFE STORAGE DESIGN REPORT.   | 09/30/2009      |
| M-093-20      | COMPLETE 105-N REACTOR INTERIM SAFE STORAGE.  | 09/30/2012      |
| M-093-22      | COMPLETE 105-KE AND 105-KW REACTOR INTERIM SAFE STORAGE.  | 09/30/2011      |
| M-093-23      | SUBMIT ENGINEERING EVALUATION/COST ANALYSIS (EE/CA) FOR KE/KW REACTOR ISS.  | 07/31/2006      |
| M-093-24      | SUBMIT EE/CA FOR N REACTOR ISS.   | 09/30/2006      |
| M-093-25      | SUBMIT AN ENGINEERING EVALUATION OF THE FINAL SURPLUS REACTOR DISPOSITION TO EPA AND ECOLOGY.   | 09/30/2005      |
| M-094-00      | COMPLETE DISPOSITION OF 300 AREA SURPLUS FACILITIES.<br><br>COMPLETION OF FACILITY DISPOSITION IS DEFINED AS THE COMPLETION OF DEACTIVATION, DECONTAMINATION, AND DECOMMISSIONING, AND OBTAIN EPA AND/OR ECOLOGY APPROVAL OF THE APPROPRIATE PROJECT CLOSEOUT DOCUMENTS. SURPLUS FACILITIES ARE DEFINED AS ANY FACILITY OR SITE (INCLUDING EQUIPMENT) THAT HAS NO IDENTIFIED PROGRAMMATIC USE BY THE OPERATING PHASE PROGRAM SECRETARIAL OFFICER. THE CLEANUP OF 300-FF-2 WASTE SITES ASSOCIATED WITH 300 AREA SURPLUS FACILITIES WILL BE PERFORMED IN ACCORDANCE WITH TRI-PARTY AGREEMENT MAJOR MILESTONE M-016-00B. | 09/30/2018      |
| M-094-01      | SUBMIT A SCHEDULE AND TPA MILESTONES TO COMPLETE DISPOSITION OF THE FOLLOWING SURPLUS FACILITIES: 303M, 332, 333, 334, 334A, 3221, 3222, 3223, 3224, 3225, 324, 324B, 327 (SEE TPA CHANGE REQUEST M-94-01-01, TABLE 1).<br><br>THE MILESTONE DELIVERABLE SHALL INCLUDE AT LEAST: 1) A SCHEDULE FOR SUBMITTALS OF ENGINEERING EVALUATION/COST ANALYSES (EE/CA), REMOVAL ACTION MEMORANDA, REMOVAL ACTION WORK PLANS, AND OTHER REQUIRED DOCUMENTS FOR EPA AND/OR ECOLOGY APPROVAL; 2) A SCHEDULE THAT DEFINES INITIATION AND   | 11/30/2003      |

**Table D. Major and Interim Milestones and Target Dates**

| <u>Number</u> | <u>Milestone</u>   | <u>Due Date</u> |
|---------------|--|-----------------|
|               | <p>COMPLETION DATES FOR THE DISPOSITION OF THE FOLLOWING SURPLUS FACILITIES: 303M, 332, 333, 334, 334A, 3221, 3222, 3223, 3224, 3225, 324, 324B, 327; 3) A TRI-PARTY AGREEMENT CHANGE PACKAGE THAT INCLUDES MILESTONES FOR GROUPS OF SURPLUS FACILITIES AND ASSOCIATED WASTE SITES THAT WILL ENSURE COMPLETION OF M-094-00; AND, 4) AN EVALUATION OF OUTYEAR TRI-PARTY AGREEMENT MILESTONES FOR THE 300 AREA TO SEE IF THEY CAN BE ACCELERATED. IT IS EXPECTED THAT SCHEDULES WILL BE ALIGNED WITH THE ASSOCIATED SCHEDULES REQUIRED BY M-016-63.</p> <p>EE/CA'S AND ACTION MEMORANDA FOR THE FOLLOWING FACILITIES: 303M, 332, 333, 334, 334A, 3221, 3222, 3223, 3224 AND 3225, MUST BE COMPLETED AND ASSOCIATED CLEANUP COMMENCED PRIOR TO SUBMITTING ANY DOCUMENTS REQUIRING EPA AND/OR ECOLOGY APPROVAL FOR OTHER 300 AREA FACILITY DISPOSITION WORK. THIS WILL ALLOW THE OPPORTUNITY TO FACTOR "LESSONS LEARNED FROM REMEDY IMPLEMENTATION" INTO THE REMAINING DOCUMENTS.</p>  |                 |
| M-094-03      | COMPLETE DISPOSITION OF THE FOLLOWING SURPLUS FACILITIES: 303M, 332, 333, 334, 334A, 3221, 3222, 3223, 3224, 3225, 324, 324B, 327 (SEE TPA CHANGE REQUEST M-94-01-01, TABLE 1).  | 09/30/2010      |
| M-094-04      | <p>SUBMIT A SCHEDULE AND TRI-PARTY AGREEMENT MILESTONES TO COMPLETE DISPOSITION OF THE SURPLUS FACILITIES IN THE 300 AREA AND IDENTIFY THE 300 AREA FACILITIES AND ASSOCIATED WASTE SITES THAT WILL REMAIN PAST THE M-094-00 COMPLETION DATE (9/30/2018).</p> <p>THE MILESTONE DELIVERABLE SHALL INCLUDE AT LEAST: 1) A SCHEDULE FOR SUBMITTALS OF ENGINEERING EVALUATION/COST ANALYSES (EE/CA), REMOVAL ACTION MEMORANDA, REMOVAL ACTION WORK PLANS, CLOSURE/POST CLOSURE PLANS (IN COORDINATION WITH THE 300 AREA WATS AND 340 BUILDING ASSOCIATED WORK PLANS SUBMITTALS AS APPROPRIATE), AND OTHER DOCUMENTS THAT REQUIRE EPA AND/OR ECOLOGY APPROVAL; 2) A SCHEDULE THAT DEFINES INITIATION AND COMPLETION DATES FOR THE DISPOSITION OF THE SURPLUS FACILITIES; 3) A TRI-PARTY AGREEMENT CHANGE PACKAGE THAT INCLUDES MILESTONES FOR GROUPS OF SURPLUS FACILITIES AND ASSOCIATED WASTE SITES THAT WILL ENSURE COMPLETION OF M-094-00; AND, 4) A CLEARLY DEFINED MISSION AND TRI-PARTY AGREEMENT DISPOSITION PATH FOR ANY REMAINING FACILITIES IN THE 300 AREA. IT IS EXPECTED THAT SCHEDULES WILL BE ALIGNED WITH THE ASSOCIATED SCHEDULES REQUIRED BY M-016-65.</p> | 08/30/2005      |

**APPENDIX E  
KEY INDIVIDUALS**

|   | <b>U.S. Environmental Protection Agency<br/>Region 10</b>                                   | <b>Washington State Department of<br/>Ecology</b>   | <b>U.S. Department of Energy, Richland<br/>Operations</b>   |
|---|---|---|---|
| <b>Executive<br/>Managers</b>               | Program Manager for the Hanford Project Office<br>(509) 376-9529                            | Program Manager for the Nuclear Waste Program<br>(360) 407-7150   | Assistant Manager for Planning and Integration<br>(509) 376-6657<br><br>Assistant Manager for the Office of River<br>Protection, Waste Treatment and Immobilization Plant<br>(509) 372-3864<br><br>Assistant Manager for the Office of River Protection,<br>Tank Farms (509) 376-0933 |
|   | Environmental Protection Agency Region 10<br>712 Swift Blvd., Suite 5<br>Richland, WA 99352 | Washington Department of Ecology<br>Nuclear Waste Program<br>P.O. Box 47600<br>Olympia, WA 98504-7600       | U.S. Department of Energy<br>Richland Operations Office<br>P.O. Box 550<br>Richland, WA 99352   |
| <b>Community<br/>Relations<br/>Contacts</b> | Public Involvement Representative<br>(509) 376-8631   | Public Involvement Supervisor<br>(509) 736-3036 / (509) 736-3001  | Public Involvement Program Manager<br>(509) 376-6216  |
|   | Environmental Protection Agency Region 10<br>712 Swift Blvd., Suite 5<br>Richland, WA 99352 | Washington Department of Ecology<br>Nuclear Waste Program<br>1315 W. 4th Avenue<br>Kennewick, WA 99336-6018 | U.S. Department of Energy<br>Richland Operations Office<br>P.O. Box 550<br>Richland, WA 99352   |

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Additionally for the latest information concerning the Hanford cleanup you can call toll free:

**1 - 800 - 321 - 2008**

## APPENDIX F

### Supporting Technical Plans and Procedures

| <u>Document</u>   | <u>Status</u>   |
|---|---|
| Strategy for Handling and Disposing of Purgewater at the Hanford Site, Washington   | WHC-MR-0039 Approved by DOE, EPA Ecology on August 21, 1990   |
| Data Quality Strategy for Hanford Site Characterization   | "Proposed Data Quality Strategy for Hanford Site Characterization, " WHC-SD-EN-AP-023, issued Jan. 19, 1991 |
| Environmental Investigation and Site Characterization Manual (contains specific procedures governing Site investigation activities) | CM-7-7 Issued, September 1988   |
| Data Reporting Requirements for the Hanford Site  | To be developed   |
| Guidance on Preparation of Laboratory Quality Assurance Plans   | Draft issued  |
| Data Validation Guidelines for Contract Laboratory Program Organic Analyses   | WHC-CM-5-3 issued August 31, 1990   |
| Data Validation Guidelines for Contract Laboratory Program Inorganic Analyses   | WHC-CM-5-3 issued August 31, 1990   |

## APPENDIX G - DATA MANAGEMENT INITIATIVES

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September 20, 1993

### LOCATIONAL DATA COLLECTION STANDARDS

**Purpose:**

Establish standards to be followed by all organizations collecting locational information at the Hanford Site. This will ensure that during the collection of locational information that standards and guidelines will be followed to assure accuracy and usability of the information.

A set of minimum standards for information needs associated with all X, Y, and Z coordinate data (surveyed or GPS) will be defined. Some examples of the ancillary information to be carried include: accuracy; coordinate type; type of collection method used; data collector; and the intended use and application.

### DATABASE DOCUMENTATION AND LISTING OF EXISTING SYSTEMS UPDATE

**Purpose:**

Undertake a full inventory of existing data management systems, their location, information contained in them, and the source of their information. With the existing and growing databases on the Hanford Site, an effort to understand what computer/automated systems exist on site needs to occur. This task should be assigned to all contractors. Their respective management should assign and require this task to be fulfilled internally.

### DATA REFERENCE SEARCH INFORMATION SYSTEM

**Purpose:**

Create a system to provide information regarding site characterization historic documents, records, and photography that directly relate to TPA activities.

All resulting information gathered needs to be indexed, referenced, and automated. This will reduce redundant data collection of historic documents on closely associated operable units, and thus save valuable research time and costs.

## APPENDIX G - DATA MANAGEMENT INITIATIVES

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### EII PROCEDURES UPDATE

**Purpose:**

Disseminate the data and locational standards and guideline to the users in the field. Coordinate EII instructions and data collection to ensure EII's are reviewed and updated to incorporate data management changes, standards, and guidelines for managing information.

### DIGITAL GIS BASE MAP DATA COLLECTION

**Purpose:**

Provide the necessary base map information to carry out compliance and cleanup activities at the Hanford Site. This milestone will ensure TPA participants an accurate, dependable and controlled set of base map data.

### SITEWIDE ORTHOPHOTOGRAPHY PROGRAM

**Purpose:**

Establish a comprehensive, usable and long-term site-wide historical record of the Hanford Site. The orthophotography will provide the site with a single up-to-date source for all geographic baseline information from which to obtain automated spatial information.

### MONUMENT CONTROL NETWORK SYSTEM

**Purpose:**

With the transition from the Hanford Plant Coordinates from the WA State Plane Coordinate system, one, up-to-date official survey monument system needs to be adopted by all contractors and used in all engineering and GPS survey work conducted on site. This will enable a more uniform collection standard, and have assurance that all information collected meets that standard.

### ENGINEERING SURVEY DATA COLLECTION STANDARDS

**Purpose:**

Develop procedures and guidelines for engineering survey data collection, recording, and storage. At present, engineering surveys are conducted on site without regard to the importance or cost associated with the collection or generation of locational information.

## APPENDIX G - DATA MANAGEMENT INITIATIVES

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### STANDARD WELL ID/NAMING AND LOCATION COORDINATES

#### Purpose:

Adopt a unique site-wide naming standard for well designations at the Hanford Site. These standards will be maintained and available in an on-line computer system. This system would also function as a cross reference table between existing standards and previous standards, and would also store the official X, Y, and Z coordinate location to be used by all other computer systems.

### HISTORIC DATA MANAGEMENT

#### Purpose:

Establish a Site historical data management system. As TPA activities develop, a system describing how the site looked, where buildings were located before D&D activities, and where historic waste sites existed will need to be developed.

At present, when buildings are removed from an area, the buildings are also removed from the engineering drawing without regard to its historical or environmental significance. In some cases these same buildings and their footprints are later classified as waste sites. Numerous types of historic information need to be saved, inventoried and tracked:

- Photography
- CAD Infrastructure Drawings
- Written Documents
- Borehole Logs

**APPENDIX H - SINGLE SHELL TANK WASTE RETRIEVAL CRITERIA PROCEDURE**

**SINGLE SHELL TANK WASTE RETRIEVAL CRITERIA PROCEDURE<sup>1</sup>**

INTRODUCTION

The purpose of this procedure is to establish a means to set, evaluate, and revise criteria for determining the allowable residual waste following waste retrieval operations on the Hanford single shell tanks (SST).

The format for this procedure is to progress through a series of steps as depicted in the generic logic diagram displayed as Figure 1. Each step is briefly outlined and includes elements that constitute completion of the step.

DEFINITION OF TERMS SPECIFIC TO WASTE RETRIEVAL ACTIVITIES:

**Residual Waste:** Tank waste remaining in the tank after all waste retrieval actions have been completed. Some materials may be excluded from residual waste volume calculations, subject to approval in the closure plan.

Step 1 : Establish Goal

This initial step establishes the goal (the standard) for waste retrieval percentage and the method to be used to calculate the allowable residual waste volume following completion of retrieval operations. The calculation method is dependent on the variable to be measured (total tank waste inventory), and closure criteria and strategy. The proposed residual waste volume calculation method is shown in Attachment 1. A retrieval goal has been established as defined in milestone M-45-00.

Step 2 : Evaluate Major Assessment Areas

Once the goal has been established, it is assessed against two major areas, which are:

- a) SST Demonstration: Demonstrate achievability of waste retrieval goal during tank 241-S-112 and 241-C-104 tank retrieval demonstrations. These will demonstrate retrieval of both saltcake and sludge/hard heel wastes as well as tanks in both 200 East and 200 West areas. Experience gained during AX-104, C-106 and earlier past practice sluicing shall be the reference baseline for past practice sluicing. The effectiveness of the retrieval operation will be determined with a topographical measurement of remaining waste in the tank, and a calculation of waste inventory.

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<sup>1</sup> This procedure was originally appended to Change Request M-45-93-01.

**APPENDIX H - SINGLE SHELL TANK WASTE RETRIEVAL CRITERIA PROCEDURE**

The inventory calculation will be based on calculated volume of the tank, waste topography measurements with appropriate surveying techniques, and include adjustments for any detectable deformities in the tank structure (i.e., liner bulges). This technique will be demonstrated and calibrated in this retrieval demonstration. Prepare input to the retrieval goal evaluation (step 3) to accommodate the retrieval operations and residual measurement demonstrations.

- b) Evaluate regulatory requirements of high-level waste (HLW) disposal from applicable rules, regulations and DOE Orders. Establish an interface with the Nuclear Regulatory Commission (NRC), and reach formal agreement on the retrieval and closure actions for single shell tanks with respect to allowable waste residuals in the tank and soil column. Prepare input to the retrieval goal evaluation (step 3) to accommodate the agreements on allowable residuals.

**Step 3 : Tank Retrieval Demonstration Goal Compliance**

Perform a joint assessment by DOE and Ecology of the retrieval goal, based on the inputs from Steps 1 and 2. Modify the retrieval goal to match the most restrictive case (i.e., the highest retrieval % requirement).

**Step 4 : Tank Farm Retrieval Demonstration(s)**

Perform the Tank Farm Retrieval Demonstration(s) on the selected tank farm or initial set of single-shell tanks to be retrieved. Repeat the residual inventory measurement steps identified in the tank retrieval demonstration. Calculate the residual inventory for each tank, based on the formula and procedure in Attachment 1 to this Appendix.

**Step 5 : Tank Farm Retrieval Demonstration Goal Compliance**

Perform a joint assessment by DOE and Ecology of the retrieval goal, based on the tank farm retrieval demonstration results. Modify the goal to match best available technology. Notify NRC as required for compliance with Nuclear Waste Policy Act. Establish formal criteria for retrieval of waste from the remaining SST's. Finalize closure plans for tank farms and obtain concurrence from regulatory agencies.

**Step 6 : SST Retrieval**

Proceed with retrieval of waste from the remaining SSTs. The schedule reflects retrieval activities on a tank-by-tank basis. It also allows flexibility to retrieve tanks from various farms if desired to support safety issue

**APPENDIX H - SINGLE SHELL TANK WASTE RETRIEVAL CRITERIA PROCEDURE**

resolution, pretreatment or disposal feed requirements, or other priorities. Completion of retrieval will be in accordance with approved closure plans.

Step 7 : Determine Residual Waste Percentage

The waste residuals are calculated for each tank.

Step 8 : Retrieval Compliance Evaluation

Compare residual waste in each tank with criteria. Document compliance with criteria via notification to appropriate regulatory agencies. If residual complies with criteria, proceed with final closure operations (step 14). If residuals do not comply with criteria, prepare a request for waiver to the appropriate regulatory agency (step 9).

Step 9 : Petition for Regulatory Waiver

An assessment is made as to the applicability of petitioning for regulatory waiver. This requires the review of relevant NRC license issues and possible closure plan modifications. Submit waivers to appropriate regulatory agencies.

Step 10 : Waiver Acceptance

If a waiver is accepted, closure operations for the tank farm is initiated (Step 14). If the waiver is not accepted, additional retrieval operations are required. New technology may be needed (step 11). The waiver evaluation will consider the points on Attachment 2.

Step 11 : Additional Technology Available

A review of alternate technologies will be performed relative to additional waste removal. If additional technologies are available, they will be deployed (step 12) and waste retrieval will resume. If additional technologies are not available, new technologies must be developed and deployed (steps 13 and 14). The tank farm will be held in interim status pending completion of the additional retrieval operations.

Step 12 : Deploy Technology and Perform Additional Retrieval

If additional retrieval technology is available, it is deployed and additional waste retrieval operations are performed. After retrieval operation, the waste residual is again determined (Step 7), followed by the tank goal compliance evaluation (Step 8).

**APPENDIX H - SINGLE SHELL TANK WASTE RETRIEVAL CRITERIA PROCEDURE**

Step 13 : Develop New Technology

If additional retrieval technology is not available, new technology is to be developed for the residue waste followed by deployment of the technology and additional waste retrieval operations (Step 12). After retrieval operation, the waste residual is again determined (Step 7), followed by the tank goal compliance evaluation (Step 8).

Step 14 : Closure Action

When the tank farm retrieval and waste residual assessment process is complete the closure operations will start. Completion of the retrieval operations will be documented in accordance with the closure plans.



**APPENDIX H - SINGLE SHELL TANK WASTE RETRIEVAL CRITERIA PROCEDURE**

**Attachment 2**

**EXCEPTION TO RETRIEVAL CRITERIA FOR SINGLE-SHELL TANKS**

The DOE shall retrieve tank waste in accordance with criteria defined in milestone M-45-00. This recovery criteria will be applied to each tank on a tank-by-tank basis. If the DOE does not believe that this criteria is achievable for a specific tank, DOE shall submit a request for an exception to EPA and Ecology. The request shall include, at minimum, the following information:

1. The reason DOE does not believe the retrieval criteria can be met.
2. The schedule, using existing technology, to complete retrieval to the criteria - if possible.
3. The potential for future retrieval technology developments that could achieve the criteria, including estimated schedules and costs for development and deployment.
4. The volume of waste proposed to be left in place, and it's chemical and radiological characteristics.
5. Expected impacts to human health and the environment if the residual waste is left in place.
6. Additional information as required by EPA and/or Ecology.

The above information shall be submitted within 120 days of the decision by DOE that continued retrieval actions will not result in further waste removal. Upon receipt, EPA and Ecology shall provide a response within 60 days, in which they will either approve the exception to the criteria, in which case retrieval will be considered complete for the tanks in question, or they will deny the request. If the request is denied the DOE must continue to attempt to retrieve the tank wastes until the criteria is met for the tank, or they may choose to enter into the RCRA dispute resolution procedures of the Agreement. If an exception to the criteria is approved, the closure plan for the SSTs must be modified to address the remaining residual waste.

**APPENDIX H - SINGLE SHELL TANK WASTE RETRIEVAL CRITERIA PROCEDURE**

Figure H-1. Process for Assessing Percentage of Waste Retrieved from Waste Retrieval Operations

