

PART I – THE SCHEDULE

**SECTION C
WEST VALLEY DEMONSTRATION PROJECT
PERFORMANCE WORK STATEMENT
(INTERIM END STATE COMPLETION)**

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SECTION C

**WEST VALLEY DEMONSTRATION PROJECT
PERFORMANCE WORK STATEMENT
(INTERIM END STATE)**

INTRODUCTION

Contract Purpose and Overview

The purpose of the contract is to complete all activities currently authorized under the existing regulatory framework at the West Valley Demonstration Project (WVDP). The condition of the WVDP at the end of this contract period is defined as the West Valley Demonstration Project Interim End State.

This is a Cost Plus Award Fee (CPAF) contract that reflects the application of performance-based contracting approaches and techniques that emphasize results/outcomes and minimize “how to” performance descriptions. The Contractor has the responsibility for total performance under the contract, including determining the specific methods for accomplishing the work. This contract covers the performance period from January 1, 2007 through December 31, 2010.

Services to be provided include but are not limited to: contaminated facility decontamination, deactivation and demolition; non-contaminated facility disposition; waste management, including low-level waste shipment; operation and maintenance of facilities and infrastructure [including the Remote Handled Waste Facility (RHWF)]; safeguards and security; janitorial and grounds keeping services; laboratory services; State, Federal and DOE environmental regulatory compliance; radiological monitoring; administrative support services; and support of other DOE contractors performing on-site decontamination, deactivation, demolition, environmental restoration, and/or waste management activities.

The following sections describe the specific work scopes to be accomplished under the contract. The Contractor is expected to optimize the integrated project schedule for safe, cost-effective execution of the planned work scope. Attachment C-1 provides a Definition of Terms as used in this Performance Work Statement (PWS).

Overview of WVDP Interim End State

The “WVDP Interim End State” is an interim step for final decommissioning of the site in accordance with the WVDP Act (Public Law 96-368). DOE intends to achieve the interim end state for WVDP by not later than December 31, 2010. DOE has selected this interim end state to support continued evaluation and analysis of various closure alternatives supporting development of a Decommissioning Environmental Impact Statement (EIS) and an ultimate Decommissioning Record of Decision (ROD). The WVDP Interim End State has been defined as:

- Shipment of all low-level waste and transuranic waste generated by DOE as a result of the high-level waste solidification project;
- Decontamination of the MPPB, the Remote Handled Waste Facility (RHWF) and the Vitrification Facility, and preparation of these facilities for final decommissioning;
- Interim storage of the high-level waste (HLW) canisters; and
- Deactivation, decontamination and removal of all DOE-managed facilities (foundations remain), with the exception of the RHWF, the Vitrification Facility, the Main Plant Process Building (MPPB) and any support facilities required for the interim storage of the (HLW) canisters.

Overview of Contract End State

The Contractor shall have completed the following activities. Completion of these activities will achieve the WVDP Interim End State.

1. Disposal of all wastes generated as a result of the WVDP. The Contractor shall have achieved the following.
 - Characterized, processed, packaged and shipped for disposal stored waste [including high-activity low-level waste (LLW), contact-handled transuranic (CH-TRU) and remote-handled transuranic (RH-TRU) waste] and any waste generated as a result of processing these stored wastes.
 - Characterized, processed, and packaged wastes and nuclear materials generated as a result of other activities conducted under this contract, and shipped to an approved disposal site. Wastes may include, but are not limited to, industrial waste, sanitary waste, hazardous waste (HW), LLW, mixed low-level waste (MLLW), TRU and mixed TRU (MTRU) waste.

2. The Main Plant Process Building (MPPB) shall have been decontaminated and deactivated (except for areas required for the storage of HLW canisters). The Contractor shall have achieved the following:
 - Deactivated and decontaminated the MPPB such that the final condition of the MPPB supports decommissioning by other DOE Contractors.
 - Characterized the MPPB to demonstrate the conditions described above have been achieved.
 - Configured the MPPB such that no new radioactive effluent will be generated in the future.
3. The HLW canisters are being safely and economically stored in the MPPB in a manner that is compliant with DOE requirements for future shipment to a Federal repository.
4. All WVDP facilities have been dispositioned and the resulting waste disposed. The following activities shall have been achieved.
 - Deactivated, decontaminated and/or dispositioned the Balance of Site Facilities (BOSF).
 - Deactivated and decontaminated the RHWF and the Vitrification Facility such that the final condition of these facilities support decommissioning by other DOE Contractors.
 - Characterized the RHWF and the Vitrification Facility to demonstrate the conditions described above have been achieved.
 - Characterized the BOSF to demonstrate the conditions described in Attachment C-3 have been met.
5. The HLW Tanks in the Waste Tank Farm (WTF) are isolated and are being safely and economically monitored and maintained.

CONTRACTOR PERFORMANCE

The Contractor shall furnish all personnel, facilities, equipment, material, services and supplies (except as set forth in this contract to be furnished by the Government), and otherwise do all things necessary to accomplish work in a safe, compliant, effective and efficient manner. In addition, the Contractor is responsible for the operations, environment, safety, health and quality assurance within its own organization and its subcontractors.

The Contractor shall be responsible for planning, integrating, managing, and executing the programs, projects, operations, and other activities as described in this PWS in compliance with regulations and mandates as set forth in Attachment C-7, in accordance with DOE requirements listed in Section J, Attachment J-1, and terms and conditions of this contract. The Contractor shall provide all deliverables required by Section J, Attachment J-2. Additionally, the Contractor shall develop, implement and maintain a comprehensive, resource-loaded integrated Contractor and Federal baseline plan as required in Section C.1.4.3.

Work will be performed in areas of the WVDP facilities including, but not limited to, radiologically contaminated facilities, production facilities, indoor and outdoor storage facilities, hardstands, water treatment facilities, warehouses, parking lots, security offices, administrative and general offices, utility production, and multi-purpose buildings and trailers. Work areas are subject to limited access due to security, limited availability, hazardous or radioactively contaminated materials or equipment to include asbestos, powered machinery, confined spaces, and hazardous energy sources (e.g., high pressure steam, low voltage, and high voltage).

In addition, the Contractor shall provide site support services, as necessary and as identified in Section C.1.6 of this PWS. At this time, DOE plans to have at least one other DOE Contractor dispose of LLW stored in the Radwaste Treatment System (RTS) Drum Cell and disposition the RTS Drum Cell. The Contractor shall also support DOE in satisfying requirements in the New York State Energy Research and Development Authority (NYSERDA)/DOE Cooperative Agreement.

C.1 WVDP INTERIM END-STATE

C.1.1 SITE OPERATIONS, MAINTENANCE, AND UTILITIES

The Contractor shall operate and maintain the site facilities in accordance with the terms and conditions of this contract. Those systems that are essential for the protection of safety and health of the public and workers, and the protection of the environment and federal property must be maintained and operational 24 hours a day 365 days a year.

C.1.1.1 Site Operations and Maintenance

The Contractor shall conduct general site operations and maintenance for site facilities, to include, but not limited to, water treatment, waste water treatment, back-up power, rail spur maintenance, reservoir and dam maintenance, grass mowing, trimming of hedges and trees, pest control and snow removal. The Contractor shall provide reasonable custodial services including, but not limited to, sanitation services (trash removal), recycling, cleaning of restrooms and drinking fountains, standard sanitation supplies in restrooms, and floor maintenance, such as wet mopping, stripping, buffing, refinishing, vacuuming, and sweeping.

The level of maintenance and repair shall be commensurate with the use, known age and proposed future use of the facilities. DOE anticipates that there will be removal of facilities from the site over the course of this contract. The Contractor will maintain facilities designated for removal until removed unless approved otherwise by DOE.

Within 60 days after contract award, the Contractor shall provide to the CO or designee for approval a Preventive Maintenance Schedule and Custodial Plan identifying types of services, frequencies and levels at which facilities are to be maintained prepared in accordance with the applicable DOE regulations.

C.1.1.2 Site Utility Services

The Contractor shall provide utility services to all site facilities. The Contractor shall operate and provide adequate maintenance for all operating utility systems until deactivation by the Contractor.

The Contractor shall ensure compatibility with the maintenance and operational standards of the organization providing utility services to the site boundary. The Contractor shall procure electric power, natural gas, and natural gas transportation through an established Government contract, if available. The Contractor is

responsible for the daily management of these services including, but not limited to, ordering, receiving invoices, validation of invoices, and payment of invoices.

C.1.1.3 Safeguards and Security – PBS OH-WV-0020

The Contractor shall provide safeguards and security for the site. The Contractor shall ensure protection against unauthorized access; espionage; loss or theft of Government property; and other hostile acts that may cause unacceptable adverse impacts on national security or the health and safety of DOE and Contractor employees, the public, or the environment. The Contractor shall maintain appropriate security clearances for site security personnel as required.

C.1.1.3.1 Information Security

The Contractor shall provide an information and cyber-security program commensurate with the types of information available on site such as, but not limited to, proprietary, privacy act, official use only, and unclassified controlled nuclear information (UCNI) in accordance with Section J, Attachment J-1.

C.1.1.3.2 Visitor Control/Badging

The Contractor shall perform all visitor control functions for all visitors. The Contractor is responsible for creation and issuance of the DOE standard badge to all site personnel, including any subcontractor personnel and other DOE contractors, as necessary. The Contractor is also responsible for destruction of these badges and maintenance of records reflecting badge issuance and destruction.

C.1.2 WASTE MANAGEMENT AND DISPOSITION

The Contractor shall dispose of the following waste:

- a) stored waste as shown on Attachment C-5; and
- b) all wastes and nuclear materials generated as a result of activities performed under this contract, including the treatment and disposal of liquid waste.

The Contractor shall avoid generating waste with no pathway for disposal.

C.1.2.1 Low Level Waste, Industrial Waste, Sanitary Waste, Hazardous Waste

The Contractor shall store, characterize, process, package, ship and dispose of waste in accordance with applicable laws, regulations and DOE directives. The types of waste include, but are not limited to, industrial waste, sanitary waste, HW,

LLW, and MLLW. Waste is considered disposed of when it has been shipped to and accepted for final disposition at a properly licensed and permitted disposal site.

C.1.2.2 Contact- and Remote-Handled Transuranic Waste

- (a) The Contractor shall store, characterize, process, and package for disposal the TRU and MTRU waste in accordance with applicable laws, regulations and DOE directives. The TRU waste may be either contact-handled (CH) or remote-handled (RH).
- (b) If authorized by the Government, the Contractor shall ship the TRU waste and MTRU waste offsite for storage or disposal in accordance with applicable laws, regulations and DOE directives. Waste shall be shipped to and accepted for storage at a DOE approved facility or for final disposition at a properly licensed and permitted disposal site.

C.1.2.3 Remote Handled Waste Facility

The Contractor may use the RHWF for processing of high-activity LLW, CH-TRU and RH-TRU waste. Other facilities/equipment available for Contractor use in preparing and transporting waste are listed in Attachment C-4.

C.1.2.4 High Level Waste

The Contractor shall store and maintain the HLW canisters in the “High Level Waste Interim Storage Facility (HLWISF)” in accordance with all applicable requirements. (See Section C.1.3.1.1. for future HLW storage.)

C.1.3 FACILITY DISPOSITION

The Contractor shall decontaminate, deactivate, demolish, dismantle, remove, and/or dispose of site facilities with the exception of those needed for maintaining the WVDP in a safe, stable configuration, those required for HLW canister storage, and those required for TRU and MTRU waste storage. The Contractor shall submit a justification for any and all remaining facilities including those described above to the Contracting Officer for approval. Attachment C-3 provides a list of the Site Facilities and their required disposition. Attachment C-3 also lists facilities for which the expected disposition is “No Further Action,” and for which no further disposition action is required by the Contractor. Attachment C-3 is summary information with more detailed data available at http://www.emcbc.doe.gov/wvdp_seb.

The Contractor shall perform and complete final radiological characterization, and RCRA characterization where applicable of all Site Facilities and provide the

results and documentation to DOE. Radiological characterization shall be planned and implemented in accordance with the guidance provided in the Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM). RCRA characterization shall be performed in accordance with 6 New York Codes, Rules and Regulations (NYCRR) Part 370, *et seq.*

C.1.3.1 Main Plant Process Building

The Contractor shall prepare the Main Plant Process Building (MPPB) for optimum safe and economical future storage of the HLW canisters and for eventual decommissioning which will occur after the contract term. The Contractor's responsibilities are as follows to achieve the above:

C.1.3.1.1 Preparation for the Future HLW Storage

The MPPB shall be operational only to the extent necessary for the optimum safe and economical future storage of the HLW canisters in the HLWISF. Any equipment related to HLWISF support systems that is located in areas to be deactivated shall be operational or shall be replaced with an equivalent system to support HLW canister storage.

DOE anticipates that the following are the only systems that are required to remain operational or operable for HLW Interim Storage. The Contractor shall obtain DOE approval if additional systems are required.

- HLWISF Ventilation - Operational
- Utility Air (for damper controls) - Operational
- Instrument Air (for control actuators, control valves etc) - Operational
- Electric (for lighting, radiation monitors, controllers etc.)- Operational
- Heating/cooling - Operational
- Fire Systems (detection/protection) - Operational
- Chemical Process Cell (CPC) cranes - Operable
- CPC Crane Room - Operable
- CPC Shield doors - Operable
- CPC Shield windows - Operable
- Transfer cart - Operable
- Equipment Decontamination Room (EDR) - Operable
- EDR Change Room - Operable
- Load Out Facility (LOF) - Operable
- EDR Shield Doors - Operable

C.1.3.1.2 Main Plant Process Building Decontamination

- a) With the exception of those systems described in Section C.1.3.1.1, the Contractor shall deactivate and decontaminate the MPPB to

reduce radiological risk and prepare the facility for future decommissioning. The MPPB shall be configured such that no new radioactive effluent will be generated (i.e., no contaminated effluent from the management of rain water or groundwater). The anticipated condition of the MPPB at time of contract award is described in Attachment C-2. Attachment C-2 is summary information with more detailed data available at <http://www.emcbc.doe.gov/wvdp seb>.

- b) The Contractor shall prepare an optimal safe and economic plan for future final demolition of the MPPB based upon the assumption that the MPPB will be removed in its entirety and that no further decontamination will be necessary. The methodology proposed for final demolition should be economical, cost-effective, efficient, and use established industrial techniques or practices such as heavy equipment, harmonic delamination, rubbleization, implosion, expansive grout, etc. The Contractor shall take all actions necessary such that the plan shall be approved and is capable of implementation. The Contractor shall prepare the necessary permits for implementation of the plan, and obtain DOE and regulatory approval of the plan/permit. The Contractor shall provide characterization data (described in Section C.1.3) after completion of the decontamination and deactivation to demonstrate all conditions described in the demolition plan have been met by the Contractor, and that no further decontamination will be necessary prior to demolition. The Contractor shall demonstrate that the MPPB has been decontaminated and deactivated such that the plan is capable of immediate implementation.
- c) The Contractor shall decontaminate and deactivate in such a manner that the future demolition will be safe, cost-effective, and economical. The Contractor shall decontaminate and deactivate the MPPB as follows:
- (1) remove equipment, debris, and waste;
 - (2) remove piping and conduit; and
 - (3) stabilize and/or remove all removable surface contamination on walls, floors, ceilings, and any equipment required to support the future storage of HLW canisters as described Section C.1.3.1.1.
- d) For some locations, removal of piping may require isolation valves to remain in place for contamination control. Areas which require routine access shall be free of removable surface contamination. These areas shall be decontaminated such that a worker occupying these areas for 2000 hours per year will not receive a dose in excess of 100 mrem per year. In order to achieve protection of workers,

fixatives may be applied to surfaces with significant removable contamination levels. With prior DOE approval, shielding may also be used to reduce worker exposure. (Note: some areas of the MPPB may have already been decontaminated to these levels.)

C.1.3.2 Balance of Site Facilities

- a) The Contractor shall deactivate, decontaminate and disposition the Balance of Site Facilities (BOSF) identified in Attachment C-3, including any and all ancillary facilities (i.e., speed spaces, utility sheds, storage sheds). The Contractor shall be responsible for achieving the contract end states for each facility as shown in Attachment C-3.
- b) The Contractor shall remove/demolish facilities to the foundation grade unless otherwise specified in Attachment C-3 column entitled "Contract End State." The concrete floor slab and surrounding soils within the facility footprints shall remain in place and shall be decontaminated to meet unrestricted radiological release and RCRA Clean Release requirements where applicable. The Contractor shall restore the below-grade demolition sites by back filling with acceptable material and grading to match the contours of the surrounding area. The Contractor shall assure contamination levels meet unrestricted radiological release and RCRA Clean Release requirements before grading. The area shall then be revegetated to prevent erosion.
- c) Above-grade utility systems/components not necessary to support facilities which have been identified as "operational" in Attachment C-3 (column entitled "Contract End State") shall be demolished and the resulting waste disposed of at a properly licensed and permitted disposal site. Below-grade utility systems associated with demolished facilities shall be dispositioned as is shown in Attachment C-3.

C.1.3.3 RHWF and Vitrification Facility Decontamination

- a) The Contractor shall deactivate and decontaminate the RHWF and the Vitrification Facility to reduce radiological risk and prepare the facility for future decommissioning. The RHWF and the Vitrification Facility shall be configured such that no new radioactive effluent will be generated (i.e., no contaminated effluent from the management of rain water or groundwater).

- b) The Contractor shall prepare an optimal safe and economic plan for future final demolition of the RHWF and the Vitrification Facility based upon the assumption that the RHWF and the Vitrification Facility will be removed in their entirety and that no further decontamination will be necessary. The methodology proposed for final demolition should be economical, cost-effective, efficient, and use established industrial techniques or practices such as heavy equipment, harmonic delamination, rubbleization, implosion, expansive grout, etc. The Contractor shall take all actions necessary such that the plan shall be approved and is capable of implementation. The Contractor shall prepare the necessary permits for implementation of the plan, and obtain DOE and regulatory approval of the plan/permit. The Contractor shall provide characterization data (described in Section C.1.3) after completion of the decontamination and deactivation to demonstrate all conditions described in the demolition plan have been met by the Contractor, and that no further decontamination will be necessary prior to demolition. The Contractor shall demonstrate that the RHWF and the Vitrification Facility have been decontaminated and deactivated such that the plan is capable of immediate implementation.
- c) The Contractor shall decontaminate and deactivate in such a manner that the future demolition will be safe, cost-effective, and economical. The Contractor shall decontaminate and deactivate the RHWF and the Vitrification Facility as follows:
- (1) remove equipment, debris, and waste;
 - (2) remove piping and conduit; and
 - (3) stabilize and/or remove all removable surface contamination on walls, floors and ceilings.
- d) For some locations, removal of piping may require isolation valves to remain in place for contamination control. Areas which require routine access shall be free of removable surface contamination.

C.1.3.4 Waste Tank Farm Isolation

The Contractor shall isolate the HLW Tanks, and place the WTF in a condition that allows safe and economical surveillance and maintenance.

C.1.4 PROJECT MANAGEMENT AND SUPPORT SERVICES

C.1.4.1 Environmental, Safety, Health and Quality Assurance (ESH&QA)

The Contractor shall conduct all activities in accordance with applicable laws, regulations, and the Directives listed in Section J, Attachment J-1. The Contractor's ESH&QA program shall be operated as an integral, but visible, part of how the Contractor conducts business.

The Contractor shall maintain, modify and revise all regulatory documents including permits, licenses, and certificates including those listed in Attachment C-7. These activities shall be coordinated with DOE.

The Contractor shall also develop and implement an approach and the necessary regulatory documents for all WVDP disposition activities (e.g. permit closures and license termination) when appropriate or as directed by the CO. These activities shall be coordinated with DOE.

The Contractor shall provide support for the ongoing National Environmental Policy Act (NEPA) activities including but not limited to providing data including historical data. The Contractor shall provide support for the ongoing NRC Decommissioning Plan activities including but not limited to responding to requests for additional information. These activities shall be coordinated with DOE.

C.1.4.1.1 Integrated Safety Management (ISM) System

The Contractor shall implement and maintain an ISM System to accomplish all work as required by DEAR 970.5223-1, "Integration of Environment, Safety and Health into Work Planning and Execution." DOE will review this system on an annual basis. The Contractor shall adopt the existing DOE approved ISM System or submit for DOE's approval another ISM System within 60 days of contract award. The Contractor shall implement and maintain a Contractor Assurance System as required by DOE O 226.1.

C.1.4.1.2 Environmental Compliance

C.1.4.1.2.1 North Plateau Groundwater Recovery System

The Contractor shall operate and maintain the North Plateau Groundwater Recovery System for the mitigation of the North Plateau Strontium-90 Plume. The Contractor may implement, with DOE approval, an alternate method other than that

currently utilized (pump and treat) to manage the plume in a cost effective and environmental compliant manner.

C.1.4.1.2.2 Environmental Monitoring and Analysis

The Contractor shall maintain the environmental monitoring and assessment program in accordance with Attachment C-7 and Section J, Attachment J-1 (specifically DOE O 450.1). The environmental monitoring program consists of on-site effluent monitoring and on- and off-site environmental surveillance to measure both radiological and non-radiological constituents. Monitoring and surveillance includes both the continuous recording of data and the collecting of soil, sediment, water, air, and other samples at specific times.

The Contractor shall develop and implement a compliant and cost-effective groundwater monitoring program that addresses current and projected future groundwater issues. The program must be approved by both DOE and the appropriate regulatory agencies. Additional monitoring wells may need to be installed based on negotiations between DOE and/or the Contractor with regulatory agencies prior to completion of the contract. The Contractor shall install these wells. For wells not required by the groundwater monitoring program, the Contractor shall close and/or abandon the wells in accordance with regulatory guidelines.

C.1.4.1.2.3 Ongoing Resource Conservation and Recovery Act (RCRA) Activities

As facilities are dispositioned and until the RCRA Part B permit is issued, the Contractor shall strictly comply with and perform all work/activities required by the RCRA Section 3008(h) Administrative Order on Consent, the RCRA Part A application and the requirements of 6 NYCRR 373 *et seq.* The Contractor shall become the co-operator on the RCRA Part A application and the RCRA Part B permit application. The Contractor shall perform all activities necessary in the Part B permit application process.

C.1.4.1.3 Quality Assurance

The Contractor shall establish and maintain an effective quality assurance program in compliance with 10 CFR 830 Subpart A. For HLW items and activities, the Contractor shall establish and maintain an

effective HLW Quality Assurance Program in compliance with DOE/RW-0333P, Rev. 0.

C.1.4.2 Engineering

The Contractor shall provide all engineering support required to perform this PWS. Engineering activities may include, but are not limited to engineering management, waste disposition engineering, facility engineering, system engineering, and project engineering.

C.1.4.3 Project Support

C.1.4.3.1 Project Management System

The Contractor shall develop and maintain a project management system and integrated Contractor and Federal baseline plan in accordance with DOE O 413.3. The Contractor shall adopt the existing policies and procedures for baseline management, change control and project status and reporting, and accounting or submit for DOE's approval another Project Management and/or accounting system within 60 days of contract award.

C.1.4.3.2 Administration

The Contractor shall provide administrative services including, but not limited to the following, commensurate to support the Contractor's scope of work:

- a) public affairs / public information,
- b) citizen advisory group support, and
- c) tax issues.

C.1.4.3.3 Infrastructure

The Contractor shall be responsible for infrastructure services including, but not limited to the following:

- a) transportation necessary to perform this PWS,
- b) on-site traffic management,
- c) warehouse shipping/receiving,
- d) vehicle and equipment maintenance and management listed in Section J, Attachment J-3 and
- e) on-site mail services.

C.1.4.3.4 Real and Personal Property Management

The Contractor shall maintain and administer the site-wide DOE Personal Property Management System. The Contractor shall also maintain a record for DOE of DOE property furnished by DOE to other entities. The Contractor shall maintain a cradle to grave high-risk material and equipment identification and reporting process. The Contractor shall disposition Automatic Data Processing Equipment (ADPE) as stated in 41 CFR 409-43.307-53.

The Contractor shall perform personal property disposition operations to manage excess and surplus property, conduct public personal property sales and coordinate other personal property disposition methods. The Contractor shall conduct the appropriate characterization prior to providing any personal property for disposition.

The Contractor shall input data into and maintain the Facility Information Management System (FIMS).

C.1.4.3.5 Communications

The Contractor shall provide and maintain site-wide communication capability, maintenance and management of voice, data, telefacsimile, video, satellite, and radio communication systems. The Contractor shall maintain communications capabilities with other DOE sites and provide communications support for emergency operations. The Contractor shall provide Computer Security (COMSEC), and server and firewall support.

C.1.4.3.6 Records Management

The Contractor shall provide a records management program compliant with 36 CFR Chapter XII, parts 1220 through 1236 and DOE/RW-0333P. The Contractor shall preserve and update all existing HLW production and storage records in accordance with applicable waste acceptance technical requirements. The Contractor shall receive and maintain records generated by other DOE Contractors, as designated by DOE. In addition, the Contractor will take custody of all existing records currently in storage (approximately 9000 cubic feet) and provide storage and disposition services in accordance with the current approved Records Inventory and Disposition Schedules. The following types of records are currently in storage and are in the form of paper and/or microforms:

- operations;
- engineering;

- environmental, safety and health;
- analytical chemistry;
- procurement;
- personnel training;
- financial;
- radiological control;
- communications;
- property;
- publications;
- emergency management;
- quality assurance;
- maintenance;
- waste shipping and disposal; and
- facility characterization.

The Contractor shall provide a Turnover Package at the conclusion of the contract. The contents of the Turnover Package shall include all documentation as required by all Sections of this contract, as well as those specified in Attachment C-6. Additional documentation requirements may be prescribed by DOE as a result of issuance of the final Environmental Impact Statement (EIS)/Record of Decision (ROD) and life cycle plans.

C.1.5 DOE SUPPORT

C.1.5.1 Infrastructure Support

The Contractor shall provide and maintain office spaces for approximately twenty DOE personnel, including on-site office space for six DOE personnel. Off site office space shall be at the Ashford Office Complex and shall include areas for information technologies and administrative functions (e.g., records storage, conference room, office supply storage). Off site office area should be no less than 6000 square feet.

The Contractor shall provide telecommunications capabilities and access to DOE systems and databases (e.g. CAIRS, ORPS, IPABS, NTS, etc.). The Contractor shall provide DOE access to the Contractor's local systems and databases. The Contractor shall supply temporary, short-term computer support as backup to the DOE computer support subcontractor.

The Contractor shall provide support, as necessary, to comply with the NYSERDA/DOE Cooperative Agreement.

The Contractor shall support DOE in responding to Congressional, regulatory and other requests for documents and information including, but not limited to:

- a) Freedom of Information Act requests;
- b) Privacy Act requests;
- c) requests for former contractor employees' records;
- d) discovery requests served upon DOE and its current and former prime contractors;
- e) other requests from DOE and/or current or former DOE contractors, including their counsel, for records within the contractor's possession;
- f) and requests from investigative agencies.

Such support shall include, but not be limited to, preparation for briefings, public presentations, and search, review, and reproduction of documents.

C.1.5.2 Energy Employees Occupational Injury Compensation Program Act (EEOICPA)

The Contractor shall support the EEOICPA with separate funding provided by DOE. Upon request by the DOE, the Contractor shall verify employment histories and provide medical records, radiation dose records, and any other records related to or pertinent to the condition or case for any individual who applies for compensation under EEOICPA, Public Law 106-398, 42 U.S.C. 7384, *et seq.* When directed by the DOE, the Contractor shall not contest a state worker's compensation claim or award determined to be valid pursuant to Subtitle D of the EEOICPA. The EEOICPA costs shall not be funded with EM funds, and the Contractor shall separately track EEOICPA costs and provide a monthly claims activity report of funds spent on EEOICPA claims processing.

C.1.5.3 Radiological Assistance Program (RAP)

The Contractor shall support RAP with separate funding provided by DOE through the National Nuclear Security Administration (NNSA). Upon request by DOE, the Contractor shall provide Radiological Control Technicians, Radiological Control Supervisors and other support personnel as deemed necessary by DOE to support requests for assistance during radiological emergencies or other events/activities requiring radiological expertise. The Contractor agrees to allow personnel supporting RAP to be appropriately trained in accordance with DOE requirements, and further agrees to provide for the storage and security of any DOE supplied equipment. The Contractor shall supplement response activities with Project equipment and vehicles when needed, if available, and maintain/develop all required plans, procedures and reports.

C.1.6 SUPPORT TO OTHER DOE CONTRACTORS

The Contactor shall provide support services to other contractor(s) engaged in on-site decontamination and waste management activities (other than those specified in this PWS). DOE anticipates the following activity will be performed by another DOE contractor:

- RTS Drum Cell – waste shipping and facility deactivation, decontamination and removal

The Contractor shall provide support for an assumed performance period of eighteen months commencing in 2008. The Contractor shall provide support assuming the other DOE contractor will use a work crew of ten employees per shift working three eight-hour shifts per day.

The Contractor will be responsible for providing support services specific to the scope of work to be performed under these additional contracts, consistent with technical direction provided under Section H.4.

DOE anticipates the following types of services:

- Coordination and integration of interface between Contractor and other DOE Contractor(s), and scheduling of work;
- Oversight of the safe accomplishment of other DOE Contractor(s) work under the Contractor's ISM System;
- Laboratory analysis and characterization services;
- Environmental permit coverage;
- Access to existing utility services, including natural gas and electricity;
- Access to waste storage facilities and systems;
- Access to existing communications capabilities;
- Site access, badges, and security services;
- Site access training; and
- Personnel radiation monitoring and dosimetry.

C.1.7 PENSIONS AND OTHER EMPLOYEE BENEFIT PLANS

Pensions and other employee benefit plans shall be managed in accordance with Section H.9.

The Contractor shall be responsible for continuing a number of pre-existing employee pension and benefits programs. This includes managing and sponsoring benefit programs for current, retired, and disabled employees. The Contractor shall have responsibility for administering and maintaining the qualified

status of all pension and investment plans. The plans shall be managed and funded at 90% minimum each year. The Contractor shall obtain Contracting Officer approval to manage the plan below the 90% threshold.

The Contractor shall submit annual actuarial certification and employer certification as the sponsoring employer and participating employer in WVDP pension plans in order that such plans be in full compliance with Internal Revenue Code and a

Attachment C-1 – Definitions of Terms Used in Section C and Attachments

Airborne Radioactive Material Area (10 CFR 835): Any area accessible to individuals, where:

1. The concentration of airborne radioactivity, above natural background, exceeds or is likely to exceed the derived air concentration (DAC) values listed in Appendix A or Appendix C of 10 CFR 835; or
2. An individual present in the area without respiratory protection could receive an intake exceeding 12 DAC-hours in a week.

Contamination Area: Any area accessible to individuals, where removable surface contamination levels exceed or are likely to exceed the removable surface contamination values specified in Appendix D of 10 CFR 835, but do not exceed 100 times those values. (DOE Radiological Control Standard)

Deactivated: Placed in a stable and known condition. Active systems (mechanical, electrical, fluid) have been de-energized either reversibly or irreversibly depending on future requirements, including safety lock-outs and air gaps as appropriate. Fluid systems have been drained and are dry to the maximum extent practicable. Readily removable hazardous and/or radioactive materials have been removed. Contaminated areas have been decontaminated, fixed, or otherwise treated to prevent the spread of contamination. Monitoring and safety systems, alarms, and protective systems remain functional (e.g. radiation alarms, ventilation, freeze protection, intrusion detection).

Decontaminated: Radioactive contamination has been removed or significantly reduced. Reduction/removal may be partial or total. May include use of fixative and/or shielding to reduce the effects of residual contamination.

Disposition: Includes deactivate, remove, and/or maintain as operational or operable. Dispositioning may require a facility to be investigated and, if necessary, decontaminated or otherwise remediated. Sampling, analysis, and/or waste disposal may be required to disposition some facilities.

High Contamination Area: Any area accessible to individuals, where removable surface contamination levels exceed or are likely to exceed 100 times the removable surface contamination values specified in Appendix D of 10 CFR 835.

High Radiation Area: Any area accessible to individuals, in which radiation levels could result in an individual receiving a deep dose equivalent in excess of 0.1 Rem in one hour at 30 centimeters from the radiation source or any surface that the radiation penetrates. (10 CFR 835)

Inactive: The facility is not currently in use. Continued access to the facility may or may not be required to accomplish surveillance and maintenance. The facility may be contaminated or it may be non-contaminated.

Isolated: Placed in a stable and known condition. Configured to prevent transfer of liquids to or from tanks. Monitoring and safety systems, alarms, and protective systems remain functional (e.g. radiation alarms, ventilation, corrosion controls, leak detection, groundwater controls, etc).

Operable: The facility is not currently Operational, but is maintained in such a condition that if a need for the facility arises it may be returned to Operational condition in a cost effective and timely manner. Continued access to the facility may or may not be required to accomplish surveillance and maintenance.

Operational: The facility is maintained and continues to be used for its designed purpose.

Radiation Area: Any area within a controlled area, accessible to individuals, in which radiation levels could result in an individual receiving a deep dose equivalent in excess of 0.005 Rem in one hour at 30 centimeters from the source or from any surface that the radiation penetrates.(10 CFR 835)

Radiological Buffer Area: An intermediate area established to prevent the spread of radioactive contamination and to protect personnel from radiation exposure. (DOE Radiological Control Standard)

Radioactive Material Area: Any area within a controlled area, accessible to individuals, in which items or containers of radioactive material exist and the total activity of radioactive material exceeds the applicable values provided in Appendix E of 10 CFR 835.

Removed: The facility no longer exists at WVDP. This term encompasses demolition and disposal and/or recycling of debris, relocation (intact or in parts) to a disposal site, and/or relocation (intact or in parts) to an off site location for re-use.

Surveillance & Maintenance: Providing a safe environment for a facility which includes maintaining only necessary systems, providing surveillance to detect deterioration, and performing maintenance of essential systems.

Very High Radiation Area: Any area accessible to individuals in which radiation levels could result in an individual receiving an absorbed dose in excess of 500 Rads in one hour at one meter from a radiation source or any surface that the radiation penetrates. (10 CFR 835)

**Attachment C-2 – Main Plant Process Building (MPPB) – WMA 1
Facility Description and Status**

(Attachment C-2 is summary information with more detailed data available at www.emcbc.doe.gov/wvdp_seb.)

Cell/Area Facility	Previous Use	Current Use	Current Conditions (Radiological and RCRA)	Operational	Operable	Inactive	Decontaminated	Deactivated	Comments
General Purpose Cell (GPC)	Load chopped fuel into baskets as it dropped from PMC shear; temporary storage of baskets; transfer chopped fuel to CPC; dump and examine fuel hulls (scrap) and package for burial; move fuel scrap to SRR.	None	HCA, VHRA, Air			X	X		See Notes 1 and 2. RIC; N wall: 4' thick high density concrete; E wall: 4'2" ordinary concrete; S wall: 4' thick; W wall: 3'6"; F: 1'8" to 3' thick; C: 5'6" thick. F and 16' up the wall lined with SS. Overhead Bridge Mounted Manipulator System and auxiliary 2-ton chain hoist. 1 of 3 Pb shield windows operable (viewable); each has CS shutters available. 3 ceiling hatches (to PMC, CPC, and SRR). Periscope and maintenance port in N wall. One 8" diameter SS chute from PMC shear to GPC. GCR shield door: 25-ton vertical door operated by screw jacks.
GPC Crane Room (GCR)	Storage and contact maintenance area for GPC Bridge Mounted Manipulator System (PAR)	None	HCA, HRA, Air		X				See Notes 1, 2 and 5. RIC; F and W wall: 2' thick; S wall: 2' – 4' thick; N wall: 3' – 4' thick; E wall 3'6" thick w/door opening on upper half covered by GPC shield door; C: 4' thick. Work platform at 13' above floor, spray headers to wash contamination from crane, PAR, bridges, motors, and gear boxes for door jacks.
GPC Crane Room Airlock	Access to GCR	None	RA, CA		X				See Notes 2 and 5. Located on N side of GCR; measures approximately 13' x 5' x 22'. RIC; walls: minimum of 1' thick exc. S wall common to GCR which is 4' thick.

Cell/Area Facility	Previous Use	Current Use	Current Conditions (Radiological and RCRA)	Operational	Operable	Inactive	Decontaminated	Deactivated	Comments
GCR Extension (GCRX)	GPC crane bridge storage location. Allowed one or both of the bridges to be parked W of main part of GCR to allow entry into the room with reduced exposure	None	HCA, HRA, Air			X			See Notes 2 and 5.
General Purpose Cell Operating Aisle (GOA)	Provide access to MC, GCR; operating area for mechanical manipulation in GPC.	General building access for maintenance and surveillance and access to MC and GCR.	Some CA Fixed rad on F and N wall. Historically-Gamma rad field at E end from inadequately shielded vent duct			X			RIC; E, W, and N walls: 1'6" thick concrete; S wall: 4' thick high density concrete (280 lb/cu ft); F, C: 2' thick concrete. 4 Pb glass shield windows to GPC (3) and MC (1). Access doors at E and W ends leading to MC and GCR and CPC Vault Waste Catch Tank airlocks. Man hatch and equipment hatches in NE corner of aisle connect to South MSM Shop. Equipment hatch is serviced by 2-ton crane.
Miniature Cell (MC)	Possible use as experimental, research, or special project area. Never contained process equipment; never used during fuel reprocessing.	None	HCA, HRA, Air			X			N wall: 3'6" thick; E wall: 18" thick; S wall: 2' thick; W wall: 3'6" to 5'2" thick; C: 5'6" thick concrete. F: SS covered. Pb glass viewing window in N wall from GOA. Shield door and labyrinth type air lock off E end of GOA w/access to NE corner of MC. Manipulator ports over shielded window, but no MSMs installed. One camera in MSM port. Shielded transfer device for passing articles up to 5" diameter from GOA to MC. 1-ton monorail hoist in the MC, operable from GOA. Contains utility connections from GOA, 16" diameter vertical chute to PMC.

Cell/Area Facility	Previous Use	Current Use	Current Conditions (Radiological and RCRA)	Operational	Operable	Inactive	Decontaminated	Deactivated	Comments
Miniature Cell Airlock	Access to MC	Same as Previous Use	HCA, HRA, Air			X			Labyrinth type air lock off E end of GOA w/access to NE corner of MC; 12" thick concrete. Contains misc debris/equip.
CPC Vault Waste Catch Tank (occasionally called GCR Catch Tank)	Collect contaminated drainage from all crane rooms, CPC door slot, and EDR. Tank 12-35104.	Same as Previous Use	HCA, HRA, Air	X					Concrete vault containing 5,900 gal tank. Contains RCRA constituents.

Cell/Area Facility	Previous Use	Current Use	Current Conditions (Radiological and RCRA)	Operational	Operable	Inactive	Decontaminated	Deactivated	Comments
Chemical Process Cell (CPC) also High Level Waste Interim Storage Facility (HLWISF)	Historically- fuel dissolution and waste disposal operations. Later- support HLW vitrification	HLWISF Interim storage of HLW canisters, process vessels and equipment removed from the Vitrification Facility, two evacuated canisters of non-HLW glass and drums of waste removed from the Head End Cell.	HCA, VHRA, Air	X					See Notes 2 and 3. Walls:5'9" thick concrete exc. areas adjacent to other cell areas where they vary from 3'-5' thick; N end: 12" thick steel section, 2 sliding concrete doors to EDR and CCR; high density concrete (280 lb/ft) used in upper wall portions where wall was stepped back to accommodate crane rails; C: 5' thick; F: 3' 9" thick, clad w/SS which extends a few inches up the walls; hatch to GPC; Pb glass windows;

Cell/Area Facility	Previous Use	Current Use	Current Conditions (Radiological and RCRA)	Operational	Operable	Inactive	Decontaminated	Deactivated	Comments
Equipment Decon Room (EDR) (incl. Soaking Pit)	Airlock to CPC to remove or replace equipment in CPC, some decon and hot contact maintenance, storage area for remote handling of CPC equipment. Soaking pit- used to decontaminate equipment w/decon reagents.	Same plus Vit cell and LI/LO access.	HCA, VHRA, Air	X					See Notes 2 and 3. RIC; Walls: 3' thick except section in E wall common w/SRR (4' thick) and section on S wall (encloses door to CPC- made of 2 walls each 2' thick); C: 2' thick; upper 8' of walls: 2' thick to allow for crane rail setback; F: 1' thick concrete surfaced w/paint; Soaking Pit: concrete w/SS lining (13'6" x 22' x 16'3"); CPC door: 11'W x14'H x 3' thick; LI/LO door 12'W x 14'H x 2' thick. One Pb glass shield window from EDRVA. Transfer cart rails run N-S on E side of cell. Bridge crane with trolley.
GCR Enclosure (GCRE)	Access to GCRX for maintenance of GPC bridge mounted manipulator and crane	Same as Previous Use	CA		X				See Note 2. Steel-framed structure built over roof hatches of GCRX. Hatches may be removed to allow access to GCRX for crane and bridge-mounted power manipulator maintenance and/or replacement.
Scrap Removal Room (SRR)	Historically- Removal of very high-level waste, mostly fuel scrap, from GPC for placement in transport cask and removal to NDA. Scrap was usually in 30 gal metal drums. Scrap could also come from laboratory hot cells, PMC, and CPC. Also used to place cold mechanical parts in cells. Later- used to move waste and waste containers in and out of head end cells.	None	CA, Air		X				See Notes 1 and 5. RIC; E and W wall, C: 3'6" thick; F: 5'4" thick over GPC and 3'6" thick over GOA; N end: sliding shielded door 2' thick at SRR Enclosure; S wall facing CPC: 20" thick steel. F: partially covered w/ SS 304L. Pb/oil filled viewing (shield) window at SE corner w/2 MSM ports; one MSM installed. 3'3" x 4' hatch connects to GPC, hatch cover operated by hydraulic control in WMOA. 7 ½ ton bridge crane runs length of room N/S, operated from viewing window in WMOA. Internal sprays for remotely washing down floor and cask.

Cell/Area Facility	Previous Use	Current Use	Current Conditions (Radiological and RCRA)	Operational	Operable	Inactive	Decontaminated	Deactivated	Comments
SRR Enclosure and Airlock	Access to move waste drums and boxes in/out of SRR.	None	CA, Air (behind roll-up door)		X				See Note 5. Contains powered roller conveyor for moving waste containers in/out of SRR.
Process Mechanical Cell (PMC)	Used to prepare fuel for chemical dissolution. Shut down since 1972. Contained 300-ton hydraulic shear, high-speed abrasive cut-off saw, tilt fixture, table, clamps, and rams for disassembly of fuel and shearing into short pieces for dissolution.	None	HCA, VHRA, Air			X	X		See Notes 1, 2, and 5. 12' x 52' x 25'. RIC. Walls and F: 5'6" thick; C: 6' thick concrete. F and walls lined w/304L SS welded to inserts in concrete to height of 20'8". Upper half of N wall is 3' thick elevating concrete door leading to crane room (PMCR). 6 Pb glass shield windows from MOA, 4 usable. 2 MSM ports above each window, 5 currently installed. 2 crane bridges of 2-ton capacity, each traveling on rails 21' above cell floor. Set of rails 18'3" above floor carries 1-ton PAR. Cranes and PAR operated from electrical consoles at any window. Connects to FRS at SE corner through hydraulically operated hatch 21" in diameter (3 ft square w/o hatch frame); NE corner to GPC by 3'x4' hatch, a 16" diameter SS chute to MC, 8" diameter SS chute from PMC shear to GPC. E wall has shielded transfer port and air lock. Most debris and major equipment removed. Surfaces decontaminated and fixative applied.

Cell/Area Facility	Previous
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Cell/Area Facility	Previous Use	Current Use	Current Conditions (Radiological and RCRA)	Operational	Operable	Inactive	Decontaminated	Deactivated	Comments
Process Mechanical Cell Transfer Port (PMC-TA)	Shielded airlock for passing parts and material into PMC from EMOA.	None	HRA, CA, Fissile			X			9' x 7'8" x 9'2". Concrete block (12" thick) structure in EMOA; built around never-installed shield window 2M-1E. Original window plug replaced with shielded transfer port containing shuttle cart. Cart allowed for handling of pieces up to 20" x 20" x 28" long, and 300 lbs. C: 6" thick concrete. N side: 8" concrete block airlock extending 3'6". F: slopes to NW to 12" x 12" x 6" sump. Contains transfer port assembly, electric motor/gear reducer/ chain drive shuttle cart, shuttle cart travel beam, pneumatic cylinders to actuate shielding doors, misc. process piping, valves, electrical connections for operation. Inactive.
Manipulator Repair Room (MRR) and Airlock	Extending and accessing the arm of the PMC PAR from the PMCR.	None	HCA, HRA, Air, Fissile Airlock tent and bay: CA, Air	X					Walls: 1' thick filled concrete block; F: 2' thick concrete; C: 2' thick concrete. Hatchway in ceiling (4'x4') for insertion of PAR arm from PMCR; can be covered w/stepped concrete plug from PMCR. Small 3"x12" lead glass shield window for observation from MOA. Means for washing down internals existed. Additional shielding on walls and SS floor cover added in 1980s.
South MSM Repair Shop	Access to MSM Repair Shop; Crane and man hatch access to GOA	Access to MSM Repair Shop	RBA, CA			X			Painted concrete block wall, ~21' x 20', contains 2-ton bridge crane and access hatches to GOA in floor. Double doors in N wall access MSM Shop.
South MSM Storage Area	Parts supply storage for MSM Repair Shop..	None	CA			X			Access is from NW corner of South MSM Repair Shop

Cell/Area Facility	Previous Use	Current Use	Current Conditions (Radiological and RCRA)	Operational	Operable	Inactive	Decontaminated	Deactivated	Comments
Cell Access Aisle (CAA)	Access to UPC, PPC via UPC, XC-3, XC-2, LWC; airlock/buffer area during contact maintenance in cells; cell monitoring equipment; connects to EMOA, RER, FRS	General building access for maintenance and surveillance.	Some CA, HCA			X			Historically- Fixed rad on floors and drain pipe passing through. Concrete on walls shared w/cells; concrete block to N; F,C: concrete slab
Ram Equipment Room (RER)	Historically- Housed hydraulic ram (SS steel rod) used to push fuel assemblies through shear inside PMC. WVDP-Removal pathway for waste boxes from XC-2, etc. when brought through airlock tents in CAA	None	Some CA, RBA			X			~25' x 15' Room with RIC walls and 12' ceilings.
FRS Guard Room or Central Alarm Station	Historically- Housed central alarm system panels for MPPB WVDP- Change area, supervisors observation area for entries into cells from CAA	None	Not posted			X			Painted concrete block walls, ~9' x 12'

Cell/Area Facility	Previous Use	Current Use	Current Conditions (Radiological and RCRA)	Operational	Operable	Inactive	Decontaminated	Deactivated	Comments
Uranium Product Cell (UPC)	<p>NFS: Held off-spec U product and U product awaiting shipment.</p> <p>WVDP: Tanks used as part of Liquid Waste Treatment System (LWTS).</p>	Houses portion of LWTS	HCA, HRA, Air		X				<p>RIC. Walls and C: 1'9" thick, exc. portion of S wall common w/PPC which is 1' thick; F: 2'6" thick under storage tanks and 1'9" elsewhere, covered w/304L SS liner. Contains 2 horizontal storage tanks (9'6" diameter by 27' long holding 15,000 gal each) One tank has 2 compartments with one reserved for off-spec product. Other space was for U product awaiting shipment. Room decontaminated and retrofitted to support LWTS. Shield wall installed in 1980s to wall off S part of cell to allow access to PPC North without entry to UPC.</p>
Uranium Load Out/Tank 5V-1 (ULO)	<p>NFS: Used for measuring shipments of uranyl nitrate hexahydrate solution in 4000 gal SS weigh tank.</p> <p>WVDP: Retrofitted in mid-1980s to support LWTS.</p>	Houses portion of LWTS	CA		X				<p>F: concrete; Roof: metal decking w/insulation and built-up roofing; Walls: 8" thick concrete block exc. part of E wall common w/UPC which is 21" thick concrete. Small concrete niche 3' x 3'6" in room. Original pumps removed; 3 new pumps installed in niche to service UPC tanks. Valving, sample station, radiation monitors, etc. installed on a mezzanine above niche to support LWTS operations.. Equipment is SS for process purposes and CS for utility lines. Floors and walls: originally covered w/carbolene paint.</p>

Cell/Area Facility	Previous Use	Current Use	Current Conditions (Radiological and RCRA)	Operational	Operable	Inactive	Decontaminated	Deactivated	Comments
East Stair Airlock	Airlock for PPS	General building access for maintenance and surveillance. Access to WRPA.	RBA, RMA, CA above 7ft.			X			6'6" x 19' airlock on N side of PPS. Floor of airlock is 5' below shipping area floor. Areas connected by steel stairway and landing.
Waste Reduction and Packaging Area (WRPA) (Formerly Product Packaging and Shipping [PPS] or Plutonium Bird Cage Storage Area)	Storage area and shipping support.	LLW compaction area.	CA	X					Adjacent to PPH area. Walls: 8" concrete block; corrugated metal roof w/tar and stone as a sealer and final coat; F: finished concrete w/drainage into PPH. (6'6" x 19' airlock on N side serves area. Floor of N airlock is 5' below shipping area floor. Areas connected by steel stairway and landing.) S end: 16' x 18' x 14' high airlock connecting PPS, PPH, LWA and a 8' x 12' outdoor shipping dock via 6' x 7' double doors. A 6' x 8' high sliding door gives access into PPH. Contains a 50-ton hydraulic compactor and 1,200 lb capacity jib hoist. Equipped w/battery charging device and 1/2-ton battery powered fork lift w/drum lifting attachment

Cell/Area Facility	Previous Use	Current Use	Current Conditions (Radiological and RCRA)	Operational	Operable	Inactive	Decontaminated	Deactivated	Comments
Product Purification Cells (PPC) (both North and South)	Final purification and concentration of U and Pu product streams.	Houses portion of LWTS.	HA, RA		X				See Note 1. RIC w/3' thick walls, floor, and ceiling. N wall: 8" thick section where it is common w/UPC; F and approx. 16" of wall: covered w/SS 304L. All equipment and piping: 304L SS exc. plutonium evaporator which was Ti. All vessel supports, walkways, and ladders: CS w/acid resistant paint that is also used on walls and ceiling. An internal 1' thick concrete wall runs E/W 5' from the S wall from floor to ceiling; access point openings are cut in wall at several levels. Most equipment removed.
Product Packaging and Handling (PPH) Area	Used for packaging Pu product and high enriched U product into shipping containers.	None					X		Room measures 10'1" x 41'0" x 14'0" high. F: 12" thick concrete w/SS lined sump 7'10" x 27'6" x 4'2" deep; W wall: 3' thick concrete; N, S, E walls: 8" thick concrete block; C: 6" concrete slab over metal decking. SS glovebox (18' x 2' x 14') for Pu product handling and smaller glovebox for high enriched U product filling has been removed.
Extraction Cell -1 (XC-1)	Separation of U and Pu from bulk of fission products; separation of U from Pu; 2 product streams sent to further decon, high-level fission product waste stream sent to evaporation and concentration.	None	HCA, HRA, Air, Fissile			X			RIC; S wall 5'3" thick, N, W walls: 5' thick; E wall: 3' thick; C: 5' thick; F: 3' thick, lined w/SS 304. Access via 5' x5' plug in 2 sections in cell roof. All equipment 304L SS. At least one line is plugged. One or more vessels loaded w/ heavy deposits of insoluble fuel particles cemented in solid masses which do not yield to normal decon chemicals. Currently contains retractable manipulator arm (for sampling) mounted through the ceiling- may be seen through tent enclosure in XCR.

Cell/Area Facility	Previous Use	Current Use	Current Conditions (Radiological and RCRA)	Operational	Operable	Inactive	Decontaminated	Deactivated	Comments
XC-2	Secondary clean-up of U and Pu streams.	None	HCA, HRA, j 0.721536 0 Td ()T4 2139 799 6.99976 re f 614 2761 799 6.9-						

Cell/Area Facility	Previous Use	Current Use	Current Conditions (Radiological and RCRA)	Operational	Operable	Inactive	Decontaminated	Deactivated	Comments
LWA Airlock	Access to LWA from east.	Same as Previous Use	Currently posted as HCA, however, normally can walk into as it is within MPPB RBA			X			Painted concrete block walls
Acid Recovery Pump Room (ARPR)	Remove streams of high activity and decontaminated acid from the recovery system, transfer it to other storage vessels in plant	None	HCA, HRA, Air			X	X		See Note 1; 1'6" thick RIC ceiling; 1' thick walls and floor- concrete was highly contaminated and severely eroded by acid spills; floor has been grouted
Off Gas Blower Room	Used to contain process off-gas blowers, filters, and scrubber recirculation pumps.	Houses VOG blowers, filters, and scrubber recirculation pumps.	HCA, HRA, Air	X					RIC. E wall: common w/XC-1, 5' thick; N wall, F, and C: 2' thick; S and W walls: 1' thick. Contains 4 process off-gas blowers (2 dissolver off-gas [DOG] and 2 vessel off-gas [VOG]). Blowers connected in series to HEPA filter mounted in SS lined, Pb and concrete niche imbedded in floor. Overhead monorail 1-ton hoist services filter niche covers and 4'x6'x5' SS lined pump niche (also in floor). Pump niche contains 2 canned rotor pumps to recirculate scrubber solution thru VOG and DOG scrubbers in OGC. All piping and valves 304L SS. DOG system inactive and blowers removed. Room badly eroded by previous acid leaks from ARC. Instruments may be read in control room. Cell access is through door in SE corner. Non-functioning window and periscope are installed in W wall of cell.

Cell/Area Facility	Previous Use	Current Use	Current Conditions (Radiological and RCRA)	Operational	Operable	Inactive	Decontaminated	Deactivated	Comments
Off Gas Cell	Contained equipment for vessel off-gas and dissolver off-gas systems, and equipment for low-level waste evaporator vapor condensation.	Houses VOG equipment currently in use.	HCA, HRA, Air	X					RIC. N and E walls: 5' thick; W wall: 3' thick; S wall 2' thick; C: 1'6" thick; F: 1' thick. Cell painted w/carbolene paint; has 2 sumps. Contains equipment for vessel off-gas and dissolver off-gas systems, and equipment for low-level waste evaporator vapor condensation. All equipment 304L SS. F: in poor condition from acid leakage from recovered acid line passing through the cell. Higher rad readings near floor. Access is through hatch in OGA and manway from ARC.
Liquid Waste Cell	Interfaced w/ CPC, extraction cells, and ANC. Liquids were sampled remotely, heated, mixed, and transferred to CPC by remote steam operated jets.	Interface w/ANC, LWTS, UPC	HCA, HRA, Air	X					RIC, "L"-shaped, contains 9 tanks ranging from 500 to 8500 gal. N-S leg measures 46'3" x 17'0". E-W leg measures 19'0" x 15'9". A 17'0" x 10'6" room exists at junction w/ 18" thick concrete shield walls around 2 tanks. Remaining wall thicknesses vary from 2'3" to 3'0" on S, E, N sides, exc. portion common to XC-1 which is 5' thick. W wall: 5'9" thick. F: 3' thick, covered w/ 304L SS pan; C: 3' thick exc. over special inner cell area where it is 3'6" thick high density concrete (280 lb/cu ft); Equipment and piping: 304L SS exc. Tank 7D-14 is HC.
FRS Airlock	Access to FRS building from CAA.	Access to FRS building from CAA.	RBA	X					Painted concrete block walls~4.5' x 5.5'

Cell/Area Facility	Previous Use	Current Use	Current Conditions (Radiological and RCRA)	Operational	Operable	Inactive	Decontaminated	Deactivated	Comments
Fuel Receiving and Storage (FRS) Building (Interior and Exterior)	Housed FRS Pool and fuel and cask handling equipment.	Waste box sorting and preparation for shipping	CA, RA (Inside: Occasionally posted as Air during box sorting evolutions)			X			Structural steel frame w/insulated corrugated steel sandwich panel siding and roofing. W and part of S wall: concrete block and RIC; F: concrete slab on grade. Overhead 100-ton bridge crane w/2 auxiliary 5-ton hooks. Includes office, suit-up area and airlock on South side of building, resin pit and decon pump house on E side, and all ventilation.
Fuel Receiving and Storage (FRS) Pool	Store spent nuclear fuel prior to reprocessing or reshipment.	None	CA, RA			X	X		See Note 1. Pair of 2-ton service bridges which travel over pool. Drained, scoured, and painted to fix remaining contamination. Floor grouted.
Fuel Transfer Tunnel	Connect FRS Pool to PMC. Used to transfer fuel assemblies from FRS POOL to PMC	None				X			See Note 1.
FRS Cask Unloading Pool (CUP)	Load or unload fuel shipping casks.	None	CA, RA			X	X		Drained, scoured, and painted to fix remaining contamination. Floor grouted.
FRS Old Pump Pit (Water Treatment Area)	Dry area- contains water treatment equipment.	None	HCA, HRA			X			12' X 20' X 44' Deep pit located north of the FRS CUP and east of the FRS Pool. Contains old water treatment equipment.
FRS Decon Stall	Clean cask surfaces.	None	CA			X	X		High pressure 4000 psi water wash system.

Cell/Area Facility	Previous Use	Current Use	Current Conditions (Radiological and RCRA)	Operational	Operable	Inactive	Decontaminated	Deactivated	Comments
FRS Operating Aisles (North and South)	Conduct operations in FRS Pool and CUP.	General building access for maintenance and surveillance.	RA, Some CA			X			Concrete floored aisles located between the corrugated steel exterior wall and the FRS Pool
Chemical Viewing Aisle (CVA)	Operate CPC coolers, view cell, load fuel baskets in/out of dissolvers, move equipment in/out of CPC, operate cranes and PAR.	General building access for maintenance and surveillance, house Personnel Decontamination Room	RBA, RMA, FCA, CA above 7ft			X			Concrete and concrete block; Walls adjacent to CPC: 5'9" thick; F: 6" thick concrete slab exc. small section at N end that passes under CCR apron that is 3' thick concrete and another small section at the N end that contains a metal roof and roof hatch; N wall: 2' thick concrete; Pb shield windows. Has shower type personnel decontamination station at S end constructed of wood and wall board.
EDR Viewing Aisle (EDR VA)	Control and observe operations in EDR and control CPC crane.	General building access for maintenance and surveillance, houses "Green Room" for RP Instrument Tech supplies	Green Room: RMA EDRVA: RBA	X					Shielded window to observe operations in EDR

Cell/Area Facility	Previous Use	Current Use	Current Conditions (Radiological and RCRA)	Operational	Operable	Inactive	Decontaminated	Deactivated	Comments
Rad Protection Counting Area or "Silver Room"	Provide in-building support area for Rad Protection personnel.	Same as Previous Use	RMA Some CA (in hood)	X					Temperature-controlled aluminum paneled room. ~ 9' X 30'. Contains 1 fume hood.
Chemical Operating Aisle (COA)	Access to LWC and valves and instrumentation for CPC, house C-1 sampling station; walkway; store contaminated cell models.	General building access for maintenance and surveillance. Store contaminated cell models	Some CA, RA, some HCA in overheads			X			RIC enclosure; F, C: part 6" thick concrete slab over corrugated metal decking, part heavier RIC 2'-3' thick; W, S walls: 5' thick concrete; N wall: 8" thick concrete block; E wall: 2'-5' thick concrete
Product Sample Cell or Sampling Station (C-1)	Used to sample CPC and LWC	In use to sample LWC	HCA, HRA	X					Built into E wall of CPC; accessible from COA.. Connected to Sample Storage Cell by powered conveyer tray/cart riding inside 12" square SS duct-like chute. Accessible from 21" high platform in COA. SS chamber measuring about 10'3.5" long, 1'2" to 1'11" high, and embedded 1' into wall. Completely surrounded by removable and permanent steel shielding blocks (about 15" of shielding). Contains jets, central needle block assembly, internal drain, ball-joint hand-operated manipulator, 12.4" x 7.9" shield window, wrench assembly, sample bottle slide tube, one light.

Cell/Area Facility	Previous Use	Current Use	Current Conditions (Radiological and RCRA)	Operational	Operable	Inactive	Decontaminated	Deactivated	Comments
PMC Crane Room (PMCR or MCR)	Contact maintenance area for the 2 cranes and power manipulator (PAR) bridges in PMC.	Same as Previous Use	HCA, HRA, Air		X				See Note 2. Concrete. N, E Walls: 18" thick; S wall: 55-ton concrete door to PMC, 3' thick; Roof: 18" thick; F: 2' thick. Airlock on west side measuring 4'6"x8'8"x10'6", Pb glass viewing window on same side. 2 crane bridges on rails 7'2" above floor. PAR bridge on rails 4'3" above floor. Hatch (4' square) in floor leads to MRR. When built, N half of roof was made of precast interlocking concrete sections which could be removed to replace an entire crane from outside the bldg. Modified during WVDP when PMCRE was built over roof. Now former roof is floor of PMCRE. Former concrete hatch sections replaced with rolling steel hatch. Concrete shield door is moved vertically by ball screw jacks. Provision for remotely washing down cranes. Former access was via airlock from N stairs at 119'7" level. Current access is from PMCRE.
PMCR Airlock	Access PMC Crane Room	Same as Previous Use	HCA, HRA, Air			X			No longer used for PMCR access. PMCR access is now from PMCRE.
Ventilation Supply Room (VSR)	House main air intake equipment for MPPB. Formerly contained Instrument Shop w/controlled atmosphere for equipment calibration.	House main air intake equipment for MPPB, PAO storage, misc. suit-up/decon supplies	CA in room and air handler	X					Related to HEV. F and C: 6" thick concrete slab over metal decking supported by structural steel framing; N/S/E walls: 8" thick concrete block; W wall: common w/PMC, massive concrete 4' to 5' thick. Floor tile still exists in location of former Instrument Shop. Contains large air handling unit (main air intake and heater) for MPPB.

Cell/Area Facility	Previous Use	Current Use	Current Conditions (Radiological and RCRA)	Operational	Operable	Inactive	Decontaminated	Deactivated	Comments
Vent Wash Room (VWR)	Scrub chemical fumes from laboratory hood exhausts, particulate from cell exhausts, and other areas prior to the air entering the main filter plenum.	Same as Previous Use	HCA, HRA, Air Mixed fission products fixed on internal parts of ducts and washer. Rad levels >5R/hr from parts of washer; general background: 200 to 1000 mR/h. RCRA constituents present.	X					See Note 3. RIC. S/E walls, C, and F: 1' thick; W wall: 2' thick; N wall: common w/PMC, over 5' thick. Contains air washer and duct work to handle exhaust air from cell areas, analytical labs, other plant areas. Water for air washer was circulated by pump in shielded niche outside E wall of VWR. Internal filters used to remove particulate and water droplets. Air exhausts through 36" SS duct to VEC filter plenum; duct contains leaks-results in higher dose readings in LXA and Instrument Room in those areas near duct. Washer water no longer circulated. Washer catch basin has drain to PMC. 3" floor drain on E side of room ultimately connects to interceptor.
Instrument Room	Instrument repair area.	None	CA, RA (HRA w/i 3' of 36" VEC duct)			X			Located off LXA, adjacent to VSR
Lower Extraction Aisle (LEA or LXA)	Operating and maintenance area w/ access to pipe and instrument penetrations to XCs and UPC; hold pneumatic instrument transmitters to relay level, density, pressure (in vessels) signals to control room.	General building access for maintenance and surveillance. Storage of contaminated cell models.	Some CA, HCA in XC2 Model, some RA (HRA w/i 3' of 36" VEC duct)			X			Mostly concrete, remainder concrete block. 3'-wide steel catwalk along entire length for access to XC wall penetrations 8' above floor; contains thermocouple wiring between cell vessels and control room; houses utility headers for steam, cooling water, plant air, instrument air, condensate, vacuum and fire water, ventilation supply and exhaust ducts; 3' diameter overhead ventilation exhaust duct causes gamma rad field thru approx 800 sq ft of floor area

Cell/Area Facility	Previous Use	Current Use	Current Conditions (Radiological and RCRA)	Operational	Operable	Inactive	Decontaminated	Deactivated	Comments
Upper Warm Aisle (UWA) and Airlocks	Used to shield hot mechanical process equipment likely to require replacement, with a means to flush and access individual equipment items while minimizing radiation exposure.	General building access for maintenance and surveillance.	Some CA, RA			X			RIC. F, C, E/W/S walls: 12" thick; N wall: 3' thick exc. by XC-1 where it is 5' thick concrete. Contained several concrete pump niches, solvent filter, process hot water tank and strip solution heat exchanger. Hand operated 5-ton bridge crane runs E/W over niches for lifting concrete shield blocks off niches. Airlock at E end w/SS lined floor. Fixed contamination on floor and wall may be painted over or be covered w/new concrete.
UWA Pump Niches	Support solvent extraction systems. WVDP: Some niches decontaminated and retrofitted to support LWTS.	Supports LWTS.	HCA, RA, Air		X				12" to 21" thick concrete walls. Lined w/SS on floors and walls. Highly contaminated.
Acid Recovery Cell (ARC)	Concentration and decontamination of used nitric acid	None	HCA, HRA, Air			X			W,S wall: 12" filled block exc. 10' section in common with XC-1 which is 5' thick concrete; F,C are 1'6" thick concrete. F: badly contaminated by NFS operational acid spill- thickly grouted to provide shielding. Cell framed with structural steel. Main part of cell is 28.75' x 32.5' x 18'. An 11.25' x 10.5' section (ARC Tower) extends to 31.5' high to hold Acid Fractionator. Access is through door that connects to the adjacent stairway on the SE side of the cell, a man-way on the NW side that opens to the OGC, and a 3.5' diameter hatch leading to OGA. All pipes, vessels contaminated.

PMCR
Enclosure
(PMCRE)

Access to PMCR and PMC
shield door enclosure.

Same as
Previous Use

CA, Air

X

See Note 2.

Structural steel framing and walls. Added to provide
PMCR access. Has 5-ton gantry crane and rolling
hatch cover access to PMCR.



SECTION C

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Cell/Area Facility	Previous Use	Current Use	Current Conditions (Radiological and RCRA)	Operational	Operable	Inactive	Decontaminated	Deactivated	Comments
Chemical Crane Room (CCR)	Parking, decontamination, and maintenance area for CPC bridge cranes, PAR.	Same as Previous Use	HCA, HRA, RA, Air	X					See Notes 1, 2 and 3. E, W walls: RIC 5'9" thick at base to 2' thick at top (set back for crane rails)- thinner sections are high density (280 lb/cu ft) concrete; N wall: 2' concrete; S wall: 3' thick concrete; F, C: 2' concrete; removable concrete roof blocks; floor hatch; all surfaces covered in carbolene paint; Pb glass window; steel clad access door with airlock and shielding labyrinth. Structural steel work platform on N side for crane access. 100t door in S wall raised and lowered with built-in electric hoist. Originally equipped with lighting, spray piping for decontamination, floor drain to CPC catch tank.
Analytical Aisle (ANA)	Work area for operations in hot analytical cells	None	Some CA, RMA	X					F,C,W wall: RIC; E wall: wire lath and plaster- historically dose area due to adjacent pipe and ducting. F: has shielding in areas overlying 36" VEC duct.
North Analytical Aisle (NAA) or North Operating Aisle (NOA)	Access CCR, one lab, PMC Hoist enclosure door, North stairs, and ANA; accept large equipment for labs	Same as Previous Use	Some CA	X					Houses hoist for lifting large equipment for laboratories

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Cell/Area Facility	Previous Use	Current Use	Current Conditions (Radiological and RCRA)	Operational	Operable	Inactive	Decontaminated	Deactivated	Comments
Sample Cell 2 (2-C)	Remotely sample OGC, XC1 and XC-2 vessels.	Lab storage	HCA, HRA, Air RCRA Interim Status Unit	X					4' x 6' x 8'. Walls 3' thick RIC, 18" between cells; 12" steel door 3'x 8'; ZnBr shield window; 1 MSM; external valving for air samplers; conveyor connection to ANCs and Sample Storage Cell; maintained under negative pressure.
Analytical Decon Aisle (ADA) or Analytical Access Aisle	Provide access to hot analytical cells, 2-C sampler, and sample storage cell.	Same as Previous Use	CA, RA, HRA, Fissile Also contains Mixed Haz. Waste SAA	X					5' x 25' aisle located west of and immediately adjacent to ANCs and 2-C Sample Station
Extraction Sample Aisle (ESA or XSA)	Contained 2 glove boxes for sampling PPC, XC2, XC3 vessels	Storage to support laboratories	RBA	X					5.33' x 30', painted concrete block walls, exc. S wall where adjoining XCs
ESA Airlock	Access to ESA	Same as Previous Use	RBA	X					5.33' x 6', painted concrete block walls exc. S wall where adjoining XCs

Off Gas Operating Aisle (OGO) or Off-Gas and Acid Recovery Aisle (OGA)

Monitor and control operations in the OGC, ARC, and part of CPC. Access to Process Sample Cell 3, 3rd floor offices, and ADA.

Passageway between laboratories, office bldg, and S and SW stairs.

CA, RBA

X

See Note 1.

Structural steel framing and insulated metal roof deck. S, E, and W wall: 12" thick concrete block; N wall: common w/CPC, 3'6" thick high density concrete; F: 1'6" thick over ARC and 2' thick over OGC. Contains 5'6" diameter removable concrete floor plug for access to OGC and 3'6" diameter plug for access to ARC. Plugs have roof hatches directly above. Most valves, piping, instrument transmitters, pumps, tanks, and mixers removed. Historical chemical damage to floor areas.

Cell/Area Facility	Previous Use	Current Use	Current Conditions (Radiological and RCRA)	Operational	Operable	Inactive	Decontaminated	Deactivated	Comments
ARC Tower	Upper portion of ARC. Enclosure for acid fractionator (7C-3).	None	HCA and Air			X			~8' x 8' area extending from main portion of ARC, located in southwest corner of Main Plant at el 131'-0. Shares N and E walls with OGA
Solvent Storage Terrace (SST) Pump Room	Support solvent process for XCs and PPC. 1970s- Acid Handling Area (AHA)- isolate recovered acid streams & produce various strengths of acid for use in XCs but was never used WVDP- House PVUs to support D&D work in XC-2	None	Restricted Access, RBA			X			Painted concrete block walls (3 sides) and solid concrete at Extraction Cells.
7D-5	Access to SST Pump Room; house utility station for SST; formerly contained Tank 7D-5.	None	Some CA			X			~16' x 22', painted concrete block walls
Hot Acid Cell (HAC)	Originally intended to handle partially decontaminated grade of nitric acid used for dissolving fuel. Received intermediate recovered acid. Mixed batches of nitric acid for delivery to plant dissolvers.	None	HCA, RA, Air			X			Contains 2 nitric acid storage tanks (capacity 3200 gal and 1800 gal) and a pump niche (pump capacity 50 gpm). Main area measures 17.25' x 20.5' x 15'. Walls: 1' solid concrete block; C: corrugated steel w/insulation and built-up roof above; F: 5' thick concrete. Cell entryway and pump niche area measures 6'4" x 12'9" x 7'6" high w/ 5" thick poured concrete roof. Tanks flushed by NFS after operations ceased. All equipment and piping 304L SS.

Cell/Area Facility	Previous Use	Current Use	Current Conditions (Radiological and RCRA)	Operational	Operable	Inactive	Decontaminated	Deactivated	Comments
Process Chemical Room (PCR) (also Product Chemical Room)	Feeding solutions to CPC vessels.	None	Some RA, Some HRA, Some CA			X			Concrete block walls; F: roof of the CPC, 5' thick concrete; C: metal decking covered w/insulation and built-up roofing. Contains 4 make-up tanks and feed pumps. Tanks vary from 100 to 1000 gal; 3 are 304L SS, 1 is monel for handling dilute HF. Shut down and vessels empty.
Ventilation Exhaust Cell (VEC)	Supply controlled ventilation air exhaust and filtration for entire processing plant since 1966.	Same as Previous Use	CA, RA	X					See Note 3. F: 5' thick concrete; C: corrugated decking w/insulation and built-up roofing; Walls: 12" thick concrete filled block. Contains main ventilation exhaust blowers and associated drivers, plenums, filters, duct work, dampers and controls. Base of plant stack located in room. 2 parallel filtration systems- one for operation, one standby (33,000 cfm each, approx. 15" water vacuum) Each blower connected to filter bank. Each bank: 30 HEPA filters, 24" square by 11½" deep, of 1100 cfm capacity and 30 roughing filters of 2000 cfm capacity. A 5000 cfm electric blower exhausts air from FRS to stack (no back up or filter). Also contains hoist.

Cell/Area Facility	Previous Use	Current Use	Current Conditions (Radiological and RCRA)	Operational	Operable	Inactive	Decontaminated	Deactivated	Comments
Upper Extraction Aisle (UXA or UEA)	Operating aisle for access to utility and instrument connections to XC equipment.	General building access for maintenance and surveillance.	Some CA, RA in SW corner Some HCA in overheads Overhead duct, fixed rad areas, and hot spots contribute to dose rates in area			X			F and C: 6" concrete slab over metal decking supported by structural steel and extraction cell walls; S wall: 5' thick and 3' thick concrete; E and W walls: 8" and 12" thick concrete block; N wall: wire lath and plaster. Contains ventilation ducts, utility headers, stack monitoring equipment, instrument transmitters. A structural steel cat walk runs the length of the aisle, 8'3" off the floor, for access to transmitters and piping. Most items in UXA currently shut down.
Control Room	House process control instrumentation for reprocessing plant	None, other than a few limited instrument gauges	Some CA, RA (back of instrument racks and part of records aisle)			X			Includes records aisle, office, and A&PC still storage area. F: RIC slab 6" thick; W,S,E Walls: wire lath, metal studs, plaster; N wall: 8" concrete block Some permanent shielding on N wall adjacent to location in which 36" duct runs up the outside surface of the building

Cell/Area Facility	Previous Use	Current Use	Current Conditions (Radiological and RCRA)	Operational	Operable	Inactive	Decontaminated	Deactivated	Comments
Extraction Chemical Room (XCR)	Historically- used to mix and feed process solutions to solvent XCs. WVDP- House XCR enclosure (XCRE) for D&D of XC2, tent enclosure for XC-1 Arm.	General building access for maintenance and surveillance and access to XCs and PPCs.	Some CA XCRE: CA, Air			X			See Note 1. Area w/concrete block walls 8" thick and structural steel framing. Roof: metal decking w/insulation and built-up roofing. F: 3' and 5' thick concrete over XCs and 6" concrete over the metal decking and steel framing over the UXA. Historical tanks and piping: 304L SS, some Carpenter 20 SS- mostly removed. Concrete poured inside berm to cover tank base legs and provide level floor surface. New prefab enclosure (XCRE) around XC hatch covers installed during gross decontamination. Contains 5-ton hoists to SW corner of MPPB, tent enclosure over XC-1. XCRE also contains 2 5-ton hoists.
Pulser Equipment Aisle (PEA)	Contained 11 air pulsers for delivering timed and measured air pulses to 11 extraction columns in the cells below, valving and instrumentation for controlling extraction system flow streams.	None	Some CA			X			12" thick concrete block walls. C: metal decking w/insulation and built-up roof; F: 3' to 5' thick concrete. Contained 11 air pulsers w/associated piping, valves, instrumentation and surge tanks. Also contained, in shielded enclosures, piping and flow instrumentation for some solvent streams used in XCs. Small niche contained pipe and valves associated w/extraction feed pressure pots. Some equipment removed.
CPC/EDR Door Hoist Enclosure	Houses shield door when door is open and door hoist equipment.	Same as Previous Use	CA	X					Structural steel, concrete block. 12' steel wall located north of the CPC. Access from roof

Cell/Area Facility	Previous Use	Current Use	Current Conditions (Radiological and RCRA)	Operational	Operable	Inactive	Decontaminated	Deactivated	Comments
Head End Ventilation (HEV) Building and Monitoring Room	Installed to give the mechanical, or head end, cells (EDR, SRR, CPC, CCR, PMC, MCR, GPC, MC, GCR, MSM Shop, Decontamination Shop, and GOA) additional air flow to produce greater neg. pressures- reducing problems w/high airborne particulate in crane rooms and backup of airborne radioactivity into occupied areas.	Same as Previous Use	Filter Room: HCA, HRA, Air Crane Room: HCA, HRA Blower Room: CA, RA Instrument Area: Fixed CA, RA	X					See Note 3. Concrete and concrete block structure plus duct system; building measures 23' x 17' x 22'. Lower level houses filters, blowers, ductwork, other associated equipment. Upper level contains crane and filter change-out equipment. Filter housing area contains glove port aisles, but gloves removed from ports. Facility includes airlock as well. Air supplied by steam heated air handler, exhausted by electric driven blowers to MPPB stack. All exhaust air is filtered thru prefilters, roughing filters, and 2 stages of HEPA filters. Dual filter trains w/emergency gas-driven engine blower system. Has associated instrument area on S side with permanent shielding.

Cell/Area Facility	Previous Use	Current Use	Current Conditions (Radiological and RCRA)	Operational	Operable	Inactive	Decontaminated	Deactivated	Comments
Stairways	General building access.	Same as Previous Use	Most areas not Posted (may be RBA, RMA, FCA) N stairs: some CA S stairs: some CA SW stairs: RA, CA at bottom, shielding on wall in OGC/ARPR area, hot spots E stairs: RBA	X					7D-13 Sample Station at bottom of SW stairs. Access doors to various cells in S stairs.
7D-13 Sample Station	Sample 7D-13 (underground tank)	Same as Previous Use	HCA, Air, ARA			X			Sample station located in E wall of the Southwest Stairwell. Includes glove box. Tanks 7D-13 is 304L SS; 7,500L capacity; 1.4m in diameter by 4.1m long. Tank primarily received waste from CSS (1982-1995), small volumes neutralized A&PC lab waste. Tank contains significant solids; currently out of normal service.

Cell/Area Facility	Previous Use	Current Use	Current Conditions (Radiological and RCRA)	Operational	Operable	Inactive	Decontaminated	Deactivated	Comments
Utility Room (UR)	Supply utilities to MPPB and outlying areas.	Same as Previous Use	Not Posted Some fixed contamination on overheads and in pipe trench under floor.	X					See Note 3. Deactivated with the exception of those utilities required for HLW interim storage. Concrete block and steel frame. Located on S end of MPPB. F: concrete slab w/concrete foundations under individual equipment; S/E/W walls: 8" concrete block; N wall: 8" concrete; Roof: metal decking w/insulation and built-up roofing. Contains equipment for supplying various types of water, steam, and compressed air to plant (2 deactivated 150 psi boilers, 1 standby power generator, 1 air compressor, pumps for cooling water and boiler feed water, demineralizer, sand filters, zeolite softeners, compressed air surge tanks, potable water tank, chemical feed tanks, and metering pumps for chemical feed). Support equipment located outside: condensate return tanks, main water storage tank, demin water storage tank, water clarifier, fuel oil tanks, and cooling tower.
Utility Room Expansion (URE)	Supply emergency electrical power and steam to plant.	Same as Previous Use	Not Posted	X					See Note 3. Concrete block; cement pad. Deactivated with the exception of those utilities required for HLW interim storage. Located E of Utility Room. Contains equipment for supplying various electricity and steam to plant including several air compressors, boilers, fuel oil day tanks and generators.

Cell/Area Facility	Previous Use	Current Use	Current Conditions (Radiological and RCRA)	Operational	Operable	Inactive	Decontaminated	Deactivated	Comments
Main Plant Switch Gear Room	Power supply distribution center for MPPB.	Same as Previous Use	Not Posted	X					Concrete block walls, steel framing, concrete floor, and metal roof decking w/insulation and built-up roofing. N wall: common w/LWA, 12" thick concrete. Room contains main 480V, 3-phase bus and main circuit breakers for plant. Transformers are outside E wall,. Steps down 34,500V power to 480V. Combined rating is 2500 kVA. 480V bus supplies 10 main circuit breakers that supply 14 MCC. Emergency portion of 480V bus is supplied w/power automatically from 625 kVA emergency diesel generator in UR.
Load-In/Load-Out Facility (LI/LO or LIF)	Empty HLW canister delivery to VF cell through EDR and Vit Tunnel, removal of vitrification facility cell components	Contaminated equipment removal from EDR; box loading into intermodals in preparation for shipping	Some CA RBA, RMA in sections		X				See Notes 3 and 5. Steel-framed building. Future use is for load-out of HLW canisters from HLWISF. Contains 15-ton bridge crane.
Roofs, Exterior Walls and Features	Building structure	Building structure	Some CA, RA mostly on roof areas.	X					

- Notes:
1. Significant decontamination completed prior to December 2006.
 2. Bridge Mounted Manipulator System (BMMS) operational as of December 2006.
 3. Supports operation of HLWISF.
 4. Most of MPPB is assumed to have minor surface contamination above a level 7 feet from floor.
 5. Facility was Operational as of completion of decontamination activities as of December 2004.

Acronyms:

CA Contamination Area
 FCA Fixed Contamination Area
 HCA High Contamination Area
 RA Radiation Area
 HRA High Radiation Area
 VHRA Very High Radiation Area
 RBA Radiological Buffer Area
 RMA Radioactive Material Area
 Fissile Fissile Material Area
 Air Airborne Radioactive Material Area
 Some CA Area known to have minor contamination in isolated areas.

Abbreviations:

A&PC Analytical and Process Chemistry
 approx. approximately
 b/w between
 C Ceiling
 CS Carbon steel
 D & D Deactivated and Decontaminated
 E East
 exc. except
 F Floor
 HC Hastelloy Carbon
 HF Hydrofluoric acid
 lbs pounds
 m meter(s)
 Misc. miscellaneous
 MSM Master Slave Manipulator
 N North
 NW Northwest
 NFS Nuclear Fuel Services
 PAR Manufacturer Name
 Pb Lead
 PVUs portable ventilation units
 RCRA Resource Conservation and Recovery Act
 RIC Reinforced concrete

S South
SBW Sodium Bearing Wastewater
SE Southeast
SS Stainless Steel
W West
w/i within
WVDP West Valley Demonstration Project
ZnBr Zinc bromide

**Attachment C-3 – Balance of Site Facilities
Description and Status**

(Attachment C-3 is summary information with more detailed data available at www.emcbc.doe.gov/wvdp_seb.)

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
Process Building (including RCRA interim status units: High Level Waste Interim Storage Facility and Analytical & Process Chemistry Hot Cells)	Various	Spent Fuel Reprocessing	Nuclear - Hazard Category 3	HLWISF and A&PC Hot Cells are RCRA units	A multi-storied building approx. 130 feet wide, 270 feet long, and extends 79 feet above the ground surface. The major plant structure is founded on driven steel H-piles. The building is composed of a series of cells, aisles, and rooms that are constructed of reinforced concrete and concrete block. The bottoms of the cells are located in a sand and gravel unit. The reinforced concrete walls, floors, and ceilings are 1 to 6 feet thick. Most of the facility was constructed above grade. However; a few of the cells extend below grade with the deepest one (the General Purpose Cell) extending to	See Attachment C-2	Decontaminated and Deactivated (with the exception of systems required for HLW interim storage)

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
					approx. 30 feet below grade.		
Liquid Waste Treatment System	Volume reduce liquid wastes.	Originally used for fuel reprocessing; decontaminated and refurbished the plant areas to house the LWTS and used for treatment of mixed LLW and TRU wastes.	Nuclear - Hazard Category 3	NFA at this time other than groundwater monitoring. Subject to RCRA unit closure. (SWMU 18/18a)	A mixed waste liquid treatment system housed in many cells and areas of the MPPB.	Operable	Removed
01-14 Building (includes the Cement Solidification System [CSS] which is a RCRA interim status unit)	Cement Solidification System used for mixed waste solidification (Sodium Bearing Waste)	Historically (NFS)- Contained Acid Fractionator Cell, Off-Gas Treatment Cell (OGT), iodine removal equipment- constructed in '70-'71 to replace existing systems- never used; WVDP- retrofitted to support stabilization of supernatant into cement drums. Later- Sodium bearing waste process equipment.	Radiological	NFA at this time other than groundwater monitoring. CSS subject to RCRA unit closure. (SWMU 22)	41'x33'x60 high building. Service area outside walls: 12" concrete block. 2' RIC shielding walls and building pad; cell floor covered by 1/8" SS liner that extends 1'6" up the side of the walls. Contains IRTS Off Gas System components from Vit system. Contains 1 Pb shield window in work area. Includes cement silo on S side of building and Tank 7D-13.	Inactive	Decontaminated

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
FRS Ventilation Building	Houses ventilation system for the Fuel Receiving and Storage Area.	Houses ventilation system for the Fuel Receiving and Storage Area.	Nuclear - Hazard Category 3	n.a.	The FRS Ventilation Building is fabricated from sheet metal and is located in the north FRS yard. This building contains the equipment that provides the majority of the HVAC for the FRS Building.	Operational (Anticipated to be removed prior to award of contract)	Removed
Fuel Receiving and Storage Area's High Integrity Container (HIC) and SUREPAK™ Staging Area	RCRA container storage unit	Storage for High Integrity Containers	Nuclear - Hazard Category 3	NFA (at this time) determination was made. Subject to RCRA unit closure. (SWMU 44)	Gravel pad located N of Fuel Receiving and Storage Building.	Operational	Removed
MSM Repair Shop	Repair of contaminated MSMs near to their point of use (PMC, GPC, SRR, and laboratories).	Repair of contaminated MSMs near to their point of use (PMC, GPC, SRR, and laboratories).	Fixed CA, RMA RBA	NFA at this time. (SWMU 37)	Constructed around 1971. Concrete block, 35'6" x 90' x 19' with structural steel framing, concrete slab floor and metal roof deck w/sloped built-up roofing. Has controlled ventilation, utilities, lighting, overhead monorail, and decontamination facilities. Floors and tanks drain to buried 1500 gal tank (15D-6) east of MSM Shop. Ventilation upgraded, new floor poured, SS pan added. Temporary shielding in SE corner	Operational	Removed

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
					to protect from HEV filter plenum. Contains Pb glass shield window to CSRF.		
<p>Contact Size Reduction Facility (CSRF)</p> <p>Formerly: MSM Decontamination Room.</p>	RCRA container storage unit, MSM decon	Size reduction and packaging of contact handled LLW, decon of MSMs.	Radiological	Still used. Subject to RCRA unit closure. (SWMU 37)	24'x35' room w/SS floor pan containing the MSM decontamination stall, a cutting room, and a staging area. There is an airlock with rollup doors to the cutting room, along with a man door from the MSM Repair Shop. MSM decon stall contains ultrasonic bath. Staging area contains LADS booth- apparently never used. Staging area may be accessed from airlock on E side of bldg as well. Connected to a 1,500 gallon underground tank.	Operational	Removed
Radwaste Process (Hittman) Bldg.	None	Ion exchange resin packaging system and storage for High Integrity Containers	Nuclear - Hazard Category 3	NFA (at this time) determination was made. NYSDEC and EPA requested to be notified if any additional hazardous waste	16' x 44.5' Steel I-beam framed structure w/corrugated metal siding, metal roof.	Operational (Anticipated to be removed prior to award of contract)	Removed

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
				is stored in this area and notified in advance when the existing hazardous waste will be disposed. (SWMU 44)			
Fire Pumphouse & Storage Tank	Shelter for plant's fire water system pumps and associated equipment; storage for various fire fighting equip, clothing, hose connectors, etc.	Shelter for plant's fire water system pumps and associated equipment; storage for various fire fighting equip, clothing, hose connectors, etc.	Industrial	n.a.	Supports HLWISF. Steel Framework, single story, corrugated metal siding and roof structure w/ 6' x 6'8" double door on E side in center of bldg. Fuel Day Tank FPH - 290 Gallon Capacity Diesel Fuel Tank; Storage tank: 475,000 gal-holds treated lake water- 300,000 gal reserved for fire fighting	Operational	Operational
Laundry Room	Laundering contaminated protective clothing	Laundering contaminated protective clothing	Industrial	NFA at this time. SWMU designation is specific to Breach in original Laundry Wastewater Line. (SWMU 45)	Concrete block. Roof: metal decking w/insulation and asphalt roofing; F: 6" thick concrete slab. Expanded to 25'x52' to use full space available.	Operational	Removed
Emergency Vehicle Shelter	Contains emergency vehicle.	Contains emergency vehicle.	Industrial	n.a.	Steel I-beam framed structure w/corrugated metal siding, metal roof.	Operational	Removed

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
Plant Office Building	Office area with men's and women's locker rooms.	Office area with men's and women's locker rooms.	Industrial	n.a.	A three-story concrete block and steel framed structure located adjacent to the west side of the Process Building. Floors are concrete over steel decking. Roof: steel decking with insulation and built-up roofing. Interior walls: wire lath and plaster. The office building is approx. 40 feet wide, 95 feet long, and 44 feet high, and it contains offices, men's and women's locker rooms, and 3 stairwells.	Operational	Operational
Electrical Substation	Power distribution and control	Power distribution and control	Industrial	n.a.	Located on the E side of MPPB; overhead power lines end here, voltage is reduced, and power lines are connected to the process building. Consists of a 34.5 kV/480V transformer, a steel-framed dead end structure, and a reinforced concrete foundation. The steel-framed structure has two 9.2-m (30-ft) steel I-beams with two 2.1-m (7-ft) steel I-beams	Operational	Operational

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
					attached at the top. The electrical equipment is attached to five cross-beams of varying sizes.		
Low-Level Waste Treatment Facility (O2 Building)	None	Historical- Receive plant liquid wastes below 5e-3 µCi/mL gross beta and decontaminate them to below drinking water maximum level for Sr-90 and Cs-137. Deactivated, some utilities isolated	Radiological	NFA at this time other than groundwater monitoring. Subject to closure requirements for wastewater treatment facilities. (SWMU 17)	See Note 1. 27' x 39', 2-story concrete block bldg. Connected to lagoons and interceptors. Treated waste by flocculation, centrifugation. Much of equipment is SS; controlled ventilation system w/air passing through HEPA filters; facility supplied w/ steam, air, softened water, and chemicals from MPPB systems. Put in service in 1971.	Deactivated (Anticipated to be removed prior to award of contract)	Removed
Low-Level Waste Treatment Building (LLW2)	Process site low-level waste water	Process site low-level waste water	Radiological	NFA at this time other than groundwater monitoring. Subject to closure requirements for wastewater treatment facilities. (SWMU 17)	Steel I-beam framed structure w/corrugated metal siding, metal roof.	Operational	Operational

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
Lagoon 1	None- drained; sediments left in place; filled w/rad contaminated asphalt, soil, vegetation from Old Hardstand; covered w/soil, seed.	Received liquid waste from interceptors, allowed it to drain/overflow to Lagoon 2.	Radiological	CMS being written. Subject to RCRA Corrective Action. (SWMU 3)	100'x100'x5', unlined, constructed in the Sand and Gravel Unit. Designed to drain through Sand and Gravel to Lagoon 2. Backfilled.	Inactive	Inactive
Lagoon 2	Hold plant radiological liquid waste water for processing.	Hold plant radiological liquid waste water for processing.	Radiological	NFA at this time other than groundwater monitoring. Subject to CWA closure requirements for wastewater treatment facilities and RCRA Corrective Action. (SWMU 4)	Unlined pit with a storage capacity of 2.4 million gallons. It is used as a storage basin for radiological wastewater discharged from the New Interceptors before its contents are transferred to the Low-Level Waste Treatment System.	Operational	Operational
Lagoon 3 (includes nearby french drain)	Final holding lagoon for decontaminated liquid waste water prior to discharge to Erdman Brook	Final holding lagoon for decontaminated liquid waste water prior to discharge to Erdman Brook	Radiological	NFA at this time other than groundwater monitoring. Subject to CWA closure requirements for wastewater treatment facilities and RCRA Corrective Action.	Unlined pit with a storage capacity of 3.3 million gallons. Presently, it receives treated water from Lagoons 4 and 5. Treated wastewater in Lagoon 3 is periodically discharged to Erdman Brook through a state permitted discharge. French drain is located	Operational	Operational (Lagoon)

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
				(SWMU 4)	on the northeast side of Lagoon 3. This drain were installed to prevent groundwater from flowing into the Lagoon. The French drain was plugged in 2001.		
Lagoon 4	Hold treated water for analysis and pH adjustment.	Hold treated water for analysis and pH adjustment.	Radiological	NFA at this time other than groundwater monitoring. Subject to CWA closure requirements for wastewater treatment facilities and RCRA Corrective Action. (SWMU 4)	Rubber-lined pit with a capacity of 204,000 gallons. It receives treated water from the Low-Level Waste Treatment System and discharges it to Lagoon 3.	Operational	Operational
Lagoon 5	Hold treated water for analysis and pH adjustment.	Hold treated water for analysis and pH adjustment.	Radiological	NFA at this time other than groundwater monitoring. Subject to CWA closure requirements for wastewater treatment facilities and RCRA Corrective Action. (SWMU 4)	Rubber-lined pit with a capacity of 166,000 gallons. It receives treated water from the Low-Level Waste Treatment System and discharges it to Lagoon 3.	Operational	Operational

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
Neutralization Pit	Mix plant waste waters and route to New Interceptor	Collect process waste waters from MPPB for pH neutralization before transfer through Low Level Waste Treatment System	Radiological	NFA at this time other than groundwater monitoring. Subject to CWA closure requirements for wastewater treatment facilities and RCRA Corrective Action. (SWMU 17a)	800 gallon in ground, SS lined, open top tank	Operational	Operational
Old Interceptor	Used for storing radiologically contaminated liquids that exceed the effluent standard prior to eventual transfer to new interceptor.	Collect process waste waters from MPPB before treatment by Low-Level Waste Treatment system	Radiological	NFA at this time other than groundwater monitoring. Subject to CWA closure requirements for wastewater treatment facilities and RCRA Corrective Action. (SWMU 17a)	Currently collects out-of-spec hot process water from MPPB; water is then mixed w/waters in New Interceptor by overland sump line to route through LLW2. 37,000 gallon concrete catch basin; high-level alarm set point at a point 4' from top, above which a crack is known to exist	Operational	Operational
New Interceptors (North and South)	Receive influent from plant floor drains and process streams before entry into the Low-Level Waste Treatment System.	Receive influent from plant floor drains and process streams before entry into the Low-Level Waste Treatment Facility.	Radiological	NFA at this time other than groundwater monitoring. Subject to CWA closure requirements for wastewater	Two 25,000 gallon SS-lined, in ground, open top tanks.	Operational	Operational

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
				treatment facilities and RCRA Corrective Action. (SWMU 17a)			
Test & Storage Building (TSB)	Fabrication shop, support facility, parts storage area, offices	Fabrication shop, support facility, parts storage area, offices	Industrial	n.a.	80' x 120' Steel I-beam framed structure w/plywood and corrugated metal siding, metal roof; F: concrete exc. 30' x 30' section in SE corner	Operational	Removed
Solvent Dike	None	Acted as holding pond; received radioactive TBP and n-dodecane contaminated runoff from the plant Solvent Storage Terrace (SST) via floor drain and underground piping until removed from service in 1987. SST tanks and piping removed in 1990.	Industrial	NFA at this time, other than continued groundwater monitoring. (SWMU 6)	Built in 1966. 40' x 50' x 4' roughly D-shaped, unlined basin partially installed in Sand and Gravel layer 200' E of MPPB and 80' N of north deminerlizer sludge pond; had berm. Low-level rad sediments excavated in 1987, area backfilled; area still radioactively contaminated; contained radioactive and solvent-contaminated spills and leaks and roof drainage. No outlet-operated by evaporation or seepage.	Inactive	Inactive

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
Vitrification Test Facility (VTF)	Parts storage area, mock-ups, office area,, and Training Hub.	Test support facility, parts storage area, mock-ups, office area	Industrial	n.a.	44' x 122' High bay bldg. Steel I-beam framed structure w/corrugated metal siding, metal roof; bridge crane. Contains the Scaled Vitrification System tanks and associated equipment, one Pb glass shield window. Includes Ammonia Storage Room located on NE corner of bldg.	Operational (Anticipated that the Scale Vitrification System and assoc. equipment will be removed prior to award of contract)	Removed
Vitrification Test Facility Waste Storage Area	Store closed tanks.	Store tanks associated with Scaled Vitrification System.	Industrial	NFA at this time. Subject to RCRA Corrective Action. (SWMU 12/12a)	Consisted of several above-ground SS storage tanks used in support of the Scaled Vitrification System. Located on back side of VTF and along road E of NPGRS.	Closed.	Removed
Maintenance Shop	Cold maintenance and fabrication work for the plant. Constructed in 1970.	Cold maintenance and fabrication work for the plant. Constructed in 1970.	Industrial	n.a.	High bay bldg w/a 40'x98' work area and 20'x98' two-level area; Walls; corrugated insulated metal panels on structural steel frame; F: concrete slab; Roof: corrugated metal w/sprayed on insulation on the outside protected w/a rubber based fire retardant finish. Main	Operational	Removed

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
					bay has 5-ton traveling bridge crane, machine tools, metal-working equipment. Two-tier section contains tool cribs, offices, electrical shop, parts storage, small pipe shop, heating and ventilation unit, locker room, sanitary facilities, and I&C shop. Heated w/radiant gas heaters and forced air. Supplied w/potable water, compressed air, and 3-phase 460V power. Lower voltage supplied from a lighting transformer.		
Maintenance Storage Area	Sheet metal storage area.	Sheet metal storage area	Industrial	Na	32.5' x 40' Sheet metal structure used as storage area -- never a rad area -- not contaminated.	Operational	Removed
Vehicle Repair Shop	Vehicle Repair Shop	Vehicle Repair Shop	Industrial	Na	30' x 47' Steel I-beam framed structure w/corrugated metal siding, metal roof.	Operational	Removed
Maintenance Shop Leach Field	None	Part of facility septic system.	Industrial	NFA at this time other than groundwater monitoring. Subject to RCRA Corrective Action.	Sanitary waste stream transferred from septic tank to main aeration system in 1988. consisted of 3 septic tanks, distribution box, leach field. Serviced	Inactive	Inactive

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
				(SWMU 8)	TSB and Maintenance Shop. Leach field line was plugged in 1988; 1 septic tank filled with sand. Other 2 tanks cleaned and filled with sand in 1997. Located N of TSB and Maintenance Shop.		
Fire Brigade Training Area	None.	Staging of fire-fighter training exercises. Inactive since 1993.	Industrial	NFA (at this time) determination was made. No longer used. Subject to RCRA Corrective Action. (SWMU 27)	Located N of Lagoons 4 and 5; currently a grass-covered area.	Inactive	Inactive
Industrial Waste Storage Area	Contains two metal lockers for lawn care equipment storage and one lubrication locker.	Staging of excess equipment from Process Building upgrades (NFS). Temporary storage of containerized industrial waste prior to off-site transport.	Industrial	NFA (at this time) determination was made. Contains metal lockers for equipment storage. Subject to RCRA Corrective Action. (SWMU 29)	Gravel pad, gently sloped to provide for runoff. Located south of TSB and Maintenance Shop. Lube Locker: 12.5' x 25' Prefab modular storage units- Metal storage locker.	Operational	Removed
High-Level Waste (HLW) Tank Farm	Provides safe storage of residual high activity waste in Tanks 8D-1, 8D-2, 8D-3, and 8D-	Storage of liquid waste from fuel reprocessing operations. Storage and treatment of liquid waste feeds	Nuclear - Hazard Category 3	NFA at this time other than groundwater monitoring. Some components	Includes 4 underground storage tanks in concrete vaults with pans; leak detection equipment; transfer lines; pumps;	Operational	Operational

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
	4.	for CSS, Vitrification Facility		subject to RCRA unit closure. (SWMU 13)	pump and valve pits; condensers; ventilation equipment; truss structures; various support buildings, enclosures, storage tents, and containment structures; generators, fuel oil tanks, and walkways.		
Tank 8D-1 (including in-tank STS components)	Contains in-tank STS components and residual high activity waste.	Storage of High Level Waste, processing of supernatant and sludge wash solutions.	Nuclear - Hazard Category 3	NFA at this time other than groundwater monitoring. Subject to RCRA unit closure. (SWMU 13)	Measures 21 m (70 ft) in diameter and 8 m (27 ft) high. Carbon steel. 750,000gal capacity. Contained in concrete vault w/ 1'6" walls and 2' roof. Vault top is 6- 8' below grade.	Inactive	Isolated
Tank 8D-2	Contains residual high activity waste	Storage of High Level Waste.	Nuclear - Hazard Category 3	NFA at this time other than groundwater monitoring. Subject to RCRA unit closure. (SWMU 13)	Measures 21 m (70 ft) in diameter and 8 m (27 ft) high. Carbon steel. 750,000gal capacity. Contained in concrete vault w/ 1'6" walls and 2' roof. Vault top is 6- 8' below grade.	Inactive	Isolated
Tank 8D-3	Contains residual high activity waste	Liquid waste storage and transfer.	Nuclear - Hazard Category 3	NFA at this time other than groundwater monitoring. Subject to RCRA unit closure. (SWMU 13)	Measures 3.7 m (12 ft) in diameter, 4.9 m (16 ft) high. 13,500gal capacity. 304L SS. Shares concrete vault w/tank 8D-4.	Operational	Isolated

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
Tank 8D-4	Contains residual high activity waste	Storage of High Level Waste.	Nuclear - Hazard Category 3	NFA at this time other than groundwater monitoring. Subject to RCRA unit closure. (SWMU 13)	Measures 3.7 m (12 ft) in diameter, 4.9 m (16 ft) high. 13,500gal capacity. 304L SS. Shares concrete vault w/tank 8D-3.	Inactive	Isolated
High Level Waste Transfer Trench	None	High Level Waste transfer	Nuclear - Hazard Category 3	NFA at this time other than groundwater monitoring. Subject to RCRA Closure. (SWMU 13)	Shielded trench contains HLW transfer lines from tank farm to MPPB (500 feet long)	Operable	HLW Transfer Lines Removed
Permanent Vent System Bldg. (PVS)	Ventilation of HLW tanks	Ventilation of High Level Waste tanks	Nuclear - Hazard Category 3	n.a.	Located at N perimeter of tank 8D-2. Houses programmable logic controller that operates the sludge mobilization and wash system. Maintains operating air flow requirements in the supernatant treatment system support building, valve aisle, and pipeway during radioactive operations.	Operational	Operational
Equipment Shelter & Condensers	Support HLW tanks	Support High Level Waste tanks	Radiological	n.a. (SWMU 13)	Concrete block building w/concrete floor slab and metal roof. 6'10" x 28'10" cell inside that held condensate and filter equipment.	Operational	Operational

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
					located on top of concrete vault containing Tank 8D-3 and Tank 8D-4. Houses instrumentation and valves used to monitor and control the operation of Tanks 8D-3 and 8D-4.		
Supernatant Treatment System (STS) Support building	Support High Level Waste tanks	Support High Level Waste tanks	Radiological	NFA at this time other than groundwater monitoring. Subject to RCRA Corrective Action. Ancillary equipment subject to RCRA Unit Closure. (SWMU 19)	Concrete block and metal siding. The Supernatant Treatment System Support building is located adjacent to, and above, Tank 8D-1. This two-story structure contains equipment and auxiliary support systems needed to operate the Supernatant Treatment System.	Operational	Operational
Vitrification Facility Bldg	Currently permitted as containment building and for container storage.	Solidification of liquid High Level Waste	Nuclear - Hazard Category 3	NFA at this time other than groundwater monitoring. Subject to RCRA unit closure. (SWMU 20)	The Vitrification Facility is a structural steel frame and sheet metal building that houses the Vitrification cell, crane maintenance area, secondary filter room, diesel generator room, operating aisles, truck locks, and a control room. Also includes off-gas trench	Inactive. Potential reuse for RH Waste Processing	Decontaminated and Deactivated

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
					running along front of MPPB to 01-14 Building. Work cell has 6 Pb glass shield windows from cell operating aisles. Major components removed. Crane maintenance room has 1 Pb glass shield window from crane maintenance operating aisle.		
Cold Chemical Facility	None	Location of bulk chemical storage tanks for vitrification	Industrial	n.a.	56' x 34' Concrete foundation and concrete walls extending to average height of 2'; steel frame and aluminum siding above foundation; F: coated with vinyl ester resin coating. Houses storage tanks for cold chemicals used in the vitrification process.	Operable (Anticipated to be removed prior to award of contract)	Removed
Construction and Demolition Debris Landfill (CDDL)	None	Disposal of non-radioactive construction, office, and facility debris; ash from paper incinerator until 1984.	Industrial	Groundwater monitoring and cap maintenance, as necessary. CMS is being written. Subject to RCRA Corrective Action. (SWMU 1)	The CDDL is located approximately 1,000 ft northeast of the process building, covers an area of 0.6 ha (1.5 acres), and was used for the burial of nonradioactive construction, office, and plant waste from 1963 until 1984. The CDDL is excavated into	Inactive	Inactive, No Further Action

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
					the sand and gravel layer on the north plateau (as indicated by the five boreholes nearest the CDDL) and has a depth of 10 to 15 ft below preoperational grade. It does not have a liner or leachate detection/collection system. It may have been impacted by the North Plateau Groundwater Plume.		
Lag Storage Building (LSB)	Storage of Low Level Waste and Transuranic mixed wastes and PCB wastes.	Storage of Low Level Waste and Transuranic mixed wastes and PCB wastes.	Nuclear - Hazard Category 3	NFA at this time; continue inspections and waste management activities; monitoring performed according to the WVDP Groundwater Monitoring Plan. Subject to RCRA unit closure. (SWMU 16)	The LSB is an engineered metal structure that is supported by a clear-span frame and anchored to a 140x60 ft wide concrete slab foundation. A 6" high concrete curb encloses the inner perimeter.	Operational (Anticipated to be removed prior to award of contract)	Waste Removed and Disposed. Facility Removed
Lag Storage Area 1 (LSA-1)	Storage of radiological wastes	Storage of radiological wastes	Nuclear - Hazard Category 3	NFA at this time; continue inspections and waste management activities; monitoring	LSA-1 is a preengineered steel frame and fabric structure that measures 191x55x23 feet high. The floor is compacted gravel.	Operational (Anticipated to be removed prior to award of contract)	Waste Removed and Disposed. Facility Removed

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
				performed according to the WVDP Groundwater Monitoring Plan. Subject to RCRA unit closure. (SWMU 15)			
Lag Storage Area 2 (hardstand) (LSA-2)	Storage of Low Level Waste and mixed waste	Storage of Low Level Waste and mixed waste	Nuclear - Hazard Category 3	NFA at this time; continue inspections and waste management activities; monitoring performed according to the WVDP Groundwater Monitoring Plan. Subject to RCRA unit closure. (SWMU 15)	The hardstand is 8 inches of crushed stone covering an area of 65x200ft.	Operational	Waste Removed and Disposed. Facility Removed
Lag Storage Area 3 (LSA-3)	Storage of Low Level Waste and mixed wastes	Storage of Low Level Waste and mixed wastes	Nuclear - Hazard Category 3	NFA at this time; continue inspections and waste management activities; monitoring performed according to the WVDP Groundwater Monitoring Plan. Subject to RCRA	The LSA-3 is a clear span structure with a pre-engineered frame and steel sheeting, about 291x88x40 feet high, on a 7" high concrete slab with curbs 6" high around the inside perimeter.	Operational	Waste Removed and Disposed. Facility Removed

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
				unit closure. (SWMU 16a)			
Lag Storage Area 4 (LSA-4)	Storage / preparation for shipping of radiological wastes and mixed wastes	Storage / preparation for shipping of radiological wastes and mixed wastes	Nuclear - Hazard Category 3	NFA at this time; continue inspections and waste management activities; monitoring performed according to the WVDP Groundwater Monitoring Plan. Subject to RCRA unit closure. (SWMU 16a)	291' x 88'. The LSA 4 is similar to LSA 3, but is different in that it includes a container sorting and packing facility (CSPF), a waste packaging area (WPA), and a covered passageway between LSA 3 and LSA 4. It also connects to a shipping depot (91' x 85').	Operational	Waste Removed and Disposed. Facility Removed
Container Sorting and Packaging Facility (CSPF)	Waste container sorting area	Waste container sorting area	Nuclear - Hazard Category 3	NFA at this time; continue inspections and waste management activities; monitoring performed according to the WVDP Groundwater Monitoring Plan. Subject to RCRA unit closure. (SWMU16a)		Operational	Removed

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
Waste Packaging Area (WPA)	Assist in sorting of waste boxes and drums	None	Nuclear - Hazard Category 3	NFA at this time; continue inspections and waste management activities; monitoring performed according to the WVDP Groundwater Monitoring Plan. Subject to RCRA unit closure. (SWMU 16a)	40' x 56'; construction is Al frame, fiberglass insulation, membrane covering; 4 airlocks (used for waste in, waste out, waste to and from CSPF, personnel entry); multiple windows; PVU's located outside LSA-4. contains box tippers, sorting areas, drum crusher, weigh station, box inspection area, walk behind forklift, clip/lid removal station, air compressor and purification skid	Operational	Removed
Shipping Depot	Repackaging and shipping of radiological wastes and mixed wastes	Containment: Asbestos abatement activities Depot: Shipping of radiological wastes and mixed wastes	Nuclear - Hazard Category 3	(SWMU 16a)	The shipping depot is connected to LSA 4 and is a 91x85 ft metal frame structure. Houses depot containment structure. Includes concrete block office area on E side.	Operational	Removed
Sample Storage and Packaging Facility (SSPF)	Storage and preparation of radiological samples for shipping (for analysis)	Storage and preparation of radiological samples for shipping (for analysis)			Metal sided structure on concrete pad. Located S of LSB.	Operational (Anticipated to be removed prior to award of contract)	Removed

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
Hazardous Waste Storage Lockers	Storage of hazardous wastes	Storage of hazardous wastes	Industrial	NFA at this time, subject to RCRA unit closure. (SWMU 24)	The hazardous waste storage lockers are four preengineered, steel buildings, measuring 2.4 x 4.6 x 2.4 m (8 x 15 x 8 ft) each, and they contain a total waste volume of 200 kg (440 lb). Wastes are packaged in 208-L (55-gal) drums and 19-L (5-gal) pails.	Operational	Waste Removed and Disposed. Facility Removed
Chemical Process Cell Waste Storage Area (CPC-WSA)	Storage of radiological wastes from CPC and mixed wastes	Storage of radiological wastes from CPC and mixed wastes	Nuclear - Hazard Category 3	NFA at this time; continue inspections and waste management activities; monitoring performed according to the WVDP Groundwater Monitoring Plan. Subject to RCRA unit closure. (SWMU 14)	65x201x25 ft single level steel frame metal Quonset-type building sitting on a gravel pad	Operational	Waste Removed and Disposed. Facility Removed
Remote Handled Waste Facility (RHWF)	Process remote handled wastes (Low Level Waste, mixed Low Level Waste, Transuranic waste and mixed Transuranic waste)	Process remote handled wastes (Low Level Waste, mixed Low Level Waste, Transuranic waste and mixed Transuranic waste)	Nuclear - Hazard Category 3	Began waste sorting and repackaging operations in 2004. Subject to RCRA unit closure. (SWMU 47)	New concrete and steel shielded building completed in 2004. Includes equipment for processing, packaging, characterization, and shipping of remote handled wastes.	Operational	Decontaminated and Deactivated

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
		use- constructed for this purpose.					
Old / New Hardstand Storage Area	Storage of low - level non-liquid radioactive waste,	Radioactive equipment storage (NFS). Old hardstand removed from service in 1984. New hardstand is used to store radioactive materials and miscellaneous LLW.	Industrial	NFA at this time, monitoring performed according to the WVDP Groundwater Monitoring Plan. (SWMU 9/9a)	Old Hardstand: 150' x 150' paved asphalt pad slightly elevated above surrounding ground surface. Located W of LSA 3 and 4. Pad and some soil removed and used as backfill for Lagoon 1 in 1984. New Hardstand: Built in 1986 in same general area as Old Hardstand; compacted gravel pad.	Operational	Removed
Rail Spur	Waste shipping pathway	Access to railroad system for receiving and shipping materials	Industrial	n.a.	Connects to B&P Railroad Line. Siding switch and extra spur provided at E side of Old Warehouse. Line extends through FRS bldg. Reinforcements/repairs made to Lake 1 Dam and several other locations by WVDP to support shipment weight on line (8,540 ft long).	Operational	Operable

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
Old Warehouse	Store spare parts, operating supplies, chemicals, construction materials; clean plant equipment not currently in use. Formerly held old records, engineering drawings and records	Store spare parts, operating supplies, chemicals, construction materials; clean plant equipment not currently in use. Formerly held old records, engineering drawings and records as well.	Industrial	n.a.	Corrugated metal bldg w/steel frame. F: concrete slab. 3 small rooms (approx. 10' x 10' each) partitioned off for office space, sensitive supply storage, etc. Structure at N end (40' x 32' x12') has been used as lunch and conference room; currently serves as Counting Lab. 10' x 14' shipping and receiving dock on W side, rail siding on E side. Insulated and heated w/gas space heaters. Bldg protected by dry type sprinkler system supplied by the fire protection main. Some overflow material stored in loft over office area. Main space measures 80' x 144'. Total volume of useful space is approx. 100,000 cu ft inside w/ dock space for 10,000 cu ft and an outdoor fenced area w/10,000 cu ft.	Operational	Removed
Counting Lab	Rad protection counting laboratory	Blueprint reproduction services.	Radiological	n.a.	40' x 32' x12' Corrugated metal bldg w/steel frame located	Operational	Removed

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
					on N side of Old Warehouse.		
Waste Paper Incinerator	None.	Incinerate paper and packaging waste.	Industrial	NFA at this time. (SWMU 10)	Mounted on concrete pad E of Old Warehouse. Operated from 1970 to 1985. Incinerator ash routinely disposed of in CDDL. Air permit expired in 1990, Unit padlocked and sealed in 1991. Removed from original location, disassembled, placed in on-site storage in 1996.	Inactive	Dispose Incinerator.
Warehouse Hardstand Tents	Temporary materials storage	Temporary materials storage	Industrial	n.a.	One tent (50x60ft) to protect excess warehouse stock and inventory.	Operational	Removed
STS Bulk Underground Fuel Oil Tank (50D-09)	Fuel Storage	Fuel Storage	Industrial	n.a.	500 gal Steel double-walled underground tank with bitumastic coating. Located NW of STS Ventilation Building (PVS) building.	Operational	Removed
Above-ground Petroleum Tanks (41-D-021, 41-D-022)	Fuel Storage	Fuel Storage	Industrial	6 NYCRR Part 613	Concrete vaulted steel; 2000 gal. gas tank; 1000 gal. diesel tank; concrete vault and overfill catch basin. Located N of WWTF.	Operational	Removed

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
Waste Water Treatment Facility (WWTF) or Sewage Treatment Plant (STP)	Treatment of sanitary wastewaters since 1985, industrial wastewater since 1994.	Treatment of sanitary wastewaters since 1985, industrial wastewater since 1994.	Industrial	NFA (at this time) determination was made. Remains in use. (SWMU 33)	~55' X 105' corrugated steel building. Walls and floors 8" RIC. Provides biological treatment (10,000 gal/day average) of sanitary wastewater.. Following biological treatment, effluent is disinfected by chlorination. Facility consists of 6 grinder stations, aeration tank, clarifier, baffled tank for chlorination and dechlorination. In 1994: upgraded to handle non-radiological wastewater treatment.	Operational	Removed
Old Sewage Treatment Plant Facility	None	Sanitary wastewater treatment facility; removed from service in 1985. Discharge lines removed and influent lines capped.	Industrial	NFA (at this time) determination was made. (SWMU 32)	Located below grade inside 12' x 22' area S of Cooling Tower. Consisted of concrete basin (5000 gal/day capacity), control boxes, surge tank, aeration tank, and clarifier. Three compartment unit to treat raw sewage by aeration process. Major components included bar screen and cutting device, aeration tank, and settling tank. BSC section: 3' x 3' x 6'	Inactive	Removed

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
					deep w/BSC mounted near center; AT: 9'6" x 9'6" x 14' deep w/aeration pipe on W side; ST: 5'6" x 5'6" x 9'6" deep, conical shaped. Effluent flowed from settling tank via adjustable weir plate on S side of unit to outfall ditch.		
New Cooling Tower	Maintain plant-wide cooling water closed loop at near 80°F (include Vit. cell)	Maintain plant-wide cooling water closed loop at near 80°F (include Vit. cell)	Industrial	n.a.	20x20x11 ft high and stands on a concrete basin measuring 27x37x3ft, with an addition measuring 27x12 ft.	Operational	Removed
Equalization (EQ) Basin or Effluent Mixing Basin	Receive clarifier blowdown (serve as replacement for demineralizer sludge ponds)	Receive UR liquids (e.g. clarifier blowdown) and treated sewage flow diverted from WWTF should an upset occur in WWTF	Industrial	NFA at this time, monitoring performed according to the WVDP Groundwater Monitoring Plan. Subject to closure requirements for wastewater treatment facilities. (SWMU 7)	Constructed in 1985. Basin w/Hypalon® liner 50' x 125' x 6.6' deep excavated into the sand and gravel layer, underlain by sand drain. Received effluents from the sanitary sewage treatment plant, some UR discharge, and cooling water blowdown. Later it received effluents from the sludge ponds. Located E of Demineralizer Sludge Ponds (approx. 300' E of old warehouse and	Operational	Removed

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
					approx.. 650' SE of MPPB		
Equalization (EQ) Tank	Receive cold UR wastewater (e.g. sand filter backwash, alkaline part of demineralizer regeneration, clarifier blowdown)	Receive cold UR wastewater (e.g. sand filter backwash, alkaline part of demineralizer regeneration, clarifier blowdown)	Industrial	NFA at this time, monitoring performed according to the WVDP Groundwater Monitoring Plan. Subject to closure requirements for wastewater treatment facilities.	A covered 20,000 gal underground concrete tank that serves as the replacement to the Equalization Basin. Located N of EQ Basin.	Operational	Removed
Demineralizer Sludge Ponds	None	Received backflush solutions from plant process water demineralizer, softener, and clarifier. Inactive since June 1994.	Industrial	NFA at this time, monitoring performed according to the WVDP Groundwater Monitoring Plan. Subject to RCRA Corrective Action. (SWMU 5)	Constructed b/w 1964 and 1966. 2 unlined ponds located approximately 150' SE of MPPB (E of Road-Salt and Sand Shed). Each measures 50' x 100' x 5' deep; E end slightly deeper than W. Typically wet and vegetated. Headwall and drain pipe located at E end of each. Discharged through weir box and underground piping to SPDES-permitted outfall 005	Inactive	No further action

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
Waste Tank Farm (WTF) Training/Test Platforms	None	Mock-ups, testing, training for long pumps and equipment	Industrial	n.a.	North Tower 16x16x57 ft high; South tower 16x16x48ft high preengineered steel structures.	Operable (North tower anticipated to be removed prior to contract Award)	Removed
Road-Salt & Sand Storage Shed	Grounds maintenance	Grounds maintenance	Industrial	n.a.	20' x 22' Storage bin and sand stall on 51" blacktop on 10" stone underlay with wooden roof	Operational	Removed
Vitrification Hardstand	None.	Staging of nonhazardous melter refractory bricks and nonradiological vitrification test glass and equipment. Inactive since 1993. Office trailers.	Industrial	NFA (at this time) determination was made. Subject to RCRA Corrective Action. (SWMU 28)	~150' X 220' flat gravel pad	Operational	Removed
Product Storage Area	Temporary storage of nonhazardous debris.	Staging of containerized raw materials. Temporary storage of nonhazardous debris.	Industrial	NFA (at this time) determination was made. Subject to RCRA Corrective Action (SWMU 42)	Open air storage area; asphalt pad, approximately 20' x 60'; located adjacent to eastern half of southern end of Old Warehouse	Inactive	No further action
Nuclear Regulatory Commission-Licensed Disposal Area (NDA)	None	Disposal of LLW	Inactive Waste Site (IWS)	NFA- for short term only; groundwater monitoring and interceptor trench operation is performed.	370' x 600' (approx. 5 acre) disposal area located on S plateau. Contains both deep and special holes used by NFS, and trenches and caissons used by	Inactive	No further action

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
				Subject to RCRA Corrective Action. (SWMU 2)	WVDP. Also includes various support buildings and equipment and former lagoon.		
NFS Deep Holes	None	Disposal of LLW	IWS	NFA - for short term only; groundwater monitoring and interceptor trench operation is performed. Subject to RCRA Corrective Action. (SWMU 2)	109 holes in NDA, 50'-70' deep, containing hulls.	Inactive	No further action
NFS Special Holes	None	Disposal of LLW	IWS	NFA- for short term only; groundwater monitoring and interceptor trench operation is performed. Subject to RCRA Corrective Action. (SWMU 2)	230 holes in NDA, 20' deep - the lengths and widths varied according to the quantity of waste and dimensions of large waste items, such as failed equipment.	Inactive	No further action
WVDP Trenches	None	Disposal of LLW	IWS	NFA - for short term only; groundwater monitoring and interceptor trench operation is performed. Subject to RCRA Corrective	12 trenches in NDA containing approx. 200,000 cu. ft. of low level wastes resulting from decontamination activities.	Inactive	No further action

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
WVDP Caissons	None	Disposal of LLW	IWS	Action. (SWMU 2) NFA - for short term only; groundwater monitoring and interceptor trench operation is performed. Subject to RCRA Corrective Action. (SWMU 2)	4 carbon-steel-lined cylinders in NDA, in cylindrical concrete vaults 7ft. in diameter and 50-65 feet deep.		

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
Leachate Transfer Line	Transfer water from NDA interceptor trench to Lagoon 2	Transfer leachate and liquids from SDA lagoons to Lagoon 1	Radiological	NFA - for short term only; groundwater monitoring and interceptor trench operation is performed. Subject to RCRA Corrective Action. (SWMU 23)	2" PVC line runs along NE and NW boundaries of NDA; 1,200 m (4000 ft) long; small above-ground section near old pump house is galvanized steel	Operational	Operational
Liquid Pretreatment System (LPS) (or Leachate Pretreatment System or Trench Interceptor Project Groundwater Treatment System)	Standby system for treating water from the interceptor trench which has not been used; One tank was used during NDA tank removal project	Standby system for treating water from the interceptor trench which has not been used; One tank was used during NDA tank removal project	Radiological	NFA - for short term only; groundwater monitoring and interceptor trench operation is performed. Subject to RCRA Corrective Action. (SWMU 23)	The liquid pretreatment system (which has never been used) consists of 7 tanks made of carbon steel to remove organics. Steel framed building housing tanks located on NE corner of NDA.	Operable	Operable
Interim Waste Storage Facility (IWSF) or Kerosene Tanks and NDA Container Storage Area	Interim storage for LLW and LL mixed waste	Staging for LLW prior to sampling and disposal	Radiological	NFA – for short term only; groundwater monitoring is performed. IWSF subject to RCRA unit closure. (SWMU 11/11a)	36' x 36' Pre-engineered metal structure anchored to a concrete slab with a curbed perimeter. Located W of Liquid Pretreatment Building on NDA.	Operational (Anticipated to be removed prior to award of contract)	Removed
NDA Hardstand/Staging Area	None	Staging of radiological wastes prior to burial in NDA until 1989	Industrial	NFA at this time other than continued monitoring. Subject to RCRA Corrective	Three-sided with cinderblock walls located on a sloped pad of crushed rock with crushed concrete at E end of road	Inactive	Removed

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
				Action. (SWMU 39)	bordering S side of NDA. Currently overgrown.		
NDA Trench Soil Container Area	Staging for LLW and contaminated soil roll-offs (from NDA Interceptor Trench project).	Staging for LLW and contaminated soil roll-offs (from NDA Interceptor Trench project).	Industrial	NFA (at this time) determination was made. Several containers of LLW are staged there. Subject to RCRA Corrective Action. (SWMU 31)	Two gravel pad areas located S of NDA and W of NDA across the existing roadways,	Inactive	Decontaminated and Waste Removed
Radwaste Treatment System (RTS) Drum Cell	Storage of cement solidified LLW drums	Storage of cement solidified LLW drums	Radiological	NFA (at this time) determination was made (SWMU 21)	375' x 60' Steel Frame/metal sided bldg, concrete base pad. Contains shielded concrete enclosure. Can accommodate a max of 21,500 71gal square drums. Berm and floor are coated with epoxy. Located S of NDA and NDA Trench Soil Container Area.	Operational	LLW and Facility removed by other DOE Contractor
Subcontractor Maintenance Area	Since 1991, used for staging heavy equipment and inert construction materials.	Used for cleaning of asphalt paving equipment (NFS). Used for cleaning of asphalt paving equipment until 1991. Since 1991, used for staging	Industrial	NFA determination was made. Used to stage equipment (SWMU 26)	Flat area located W of Rail Spur, SW and W of NDA Trench Soil Container Area, along S side of roadway. Compacted stone. Contains several trailers, storage areas,	Operational	Removed

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
		heavy equipment and inert construction materials.			equipment.		
<u>Rail Packaging and Staging Area</u>	Staging area for waste packages destined for off site transportation via rail.	Staging area for waste packages destined for off site transportation via rail.	Nuclear Hazard Category 3		Flat area located E of Rail Spur, along N side of roadway. Compacted stone with 24' x 90' concrete pad. Contains packaged components from Vit Facility decontaminatiopn.	Operational	Waste removed. Facility removed after RTS Drum Cell removal
Administration Building	Office space	Office space	Industrial	n.a.	Corrugated sheet metal steel-framed structure on concrete floor slab, measuring 40' x 14' and one story high. Interior divided into approximately 20 rooms plus and 11'4" x 60' hallway. Interior finish is wood stud framing, dry wall, acoustical drop ceiling, carpet, vinyl floor tile. Some wood grain paneling and wood offices. Includes wash rooms and support equipment.	Operational	Removed

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
Expanded (Environmental) Lab Complex	Office space, and environmental sample analysis.	Office space, vitrification cold sample analysis and environmental sample analysis.	Industrial	n.a.	92' x 50' Sheet metal structure Includes 3 double-wide trailers on concrete foundation	Operational	Removed
New Warehouse (Main-2)	Currently empty	Materials storage; SWMU 43 - 90-Day storage area for hazardous wastes, industrial wastes, and materials, batteries, and recyclables	Industrial	NFA determination was made.	Steel building that rests on concrete piers and a poured concrete foundation wall. 80x250x21.5ft high.	Operational	Removed
Warehouse Bulk Oil Storage Unit	Storage of combustibles (i.e., grease, oils, antifreeze, etc.) in 1 gal to 55gal containers	Storage of combustibles (i.e., grease, oils, antifreeze, etc.) in 1 gal to 55gal containers	Industrial	n.a.	Metal, insulated wall structure measuring (inside) 11' x 23' x 6'6". Walls: insulated w/2 hr. fire rating; doors have 1.5 hr. fire rating. F: removable fiberglass grating located 6" above catch basin w/sump. Located E of Main-2.	Operational	Removed
Warehouse Extension Staging Area or Waste Management Staging Area (WMSA)	Equipment and used products storage. House industrial wastes, hazardous wastes (90-day), and universal waste.	Temporary storage of nonhazardous wastes.	Industrial	NFA at this time. (SWMU 43)	Approx. 50' x 80' steel building with concrete floor located in southern end of New (Main-2) Warehouse. Two sides of staging area are bermed.	Operational	Removed

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
Meteorological Towers	Original erected in October, 1974 to collect wind direction, wind speed and temperature data was demolished in 1990s. New towers constructed in early 1990s serve same purpose.	Original erected in October, 1974 to collect wind direction, wind speed and temperature data was demolished in 1990s. New towers constructed in early 1990s serve same purpose.	Industrial	n.a.	2 meteorological monitoring towers. On-site: 197-foot (60-m) tower continuously monitors wind speed, wind direction, and temperature at both the 197-foot and 33-foot (10-m) elevations. Independent, remote 33-foot (10-m) tower located approximately 5 miles (8 km) south of site on hillcrest on Dutch Hill Road, continuously monitors wind speed and wind direction. Dewpoint, precipitation, and barometric pressure are also monitored on-site. Both locations supply data to primary digital and analog data acquisition systems located within the Environmental Laboratory. On-site systems are provided with either uninterruptible or standby power backup in case of site power outage.	Operational	Operational

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
Security Gatehouse and Fences	Site Security	Site Security	Industrial	n.a.	Masonry block (gatehouse)	Operational	Operational
Construction Fabrication Shop or Vitrification Fabrication Shop	RHWF equipment storage	Site maintenance support	Industrial	n.a.	40' x 100' Steel building on concrete foundation; located W of WTF and SE of RHWF	Operational (Anticipated to be removed prior to award of contract)	Removed
Vitrification Diesel Fuel Oil Storage Tank & Building (or Diesel Fuel Oil Building) (FOD-11)	Diesel fuel oil storage	Diesel fuel oil storage	Industrial	n.a.	A 7450 gal tank located in a below-grade concrete vault and is covered by a metal building about two stories tall and 15' x 22' in area.	Operational	Removed
Bulk Storage Warehouse	Materials storage	Materials storage	Industrial	n.a.	80' x 162.75' Steel beam construction; light metal siding/roofing	Operational	Removed
Hydrofracture Test Well Area	None	Geologic Performance testing	Industrial	DOE-Oak Ridge Project	An injection well and four observations wells to perform hydraulic fracturing experiments.	Inactive	Wells filled and capped
Live Fire Range	Site security support	Site security support	Industrial	n.a.	400X100 ft	Operational	Removed
Satellite Accumulation and 90-Day Storage Areas	Short-term accumulation of hazardous and mixed wastes.	Short-term accumulation of hazardous and mixed wastes.	Industrial	NFA determination was made. Established and managed in accordance with RCRA and site	6 SAAs and one 90-day storage area located at various locations across site.	Operational	Removed

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
				procedures			
Monitoring Wells/Stations	Monitoring of groundwater, surface water, air, radiological dose, etc. to support Environmental Monitoring Program. Also includes Bioventing system.	Monitoring of groundwater, surface water, air, radiological dose, etc. to support Environmental Monitoring Program. Also includes Bioventing system.	Industrial	NFA determination was made. Established and managed in accordance with RCRA and site procedures. (SWMU 40)		Operational	Operational
Designated Roadways	Previous unpaved roadways sprayed with oils and cleaning solvents from Maintenance Shop for dust suppression. Discontinued in 1980. Vehicle access to site facilities	Previous unpaved roadways sprayed with oils and cleaning solvents from Maintenance Shop for dust suppression. Discontinued in 1980. Vehicle access to site facilities.	Industrial	n.a. (SWMU 41)	Consists of approx. 0.7 miles of former dirt roadways located between Electrical Substation on NE corner of WVDP and Maintenance Shop and between Old Warehouse and NDA. All roadways currently paved with asphalt.	Operational	Operable
Dams and Reservoirs (Lakes)	Surface water control and site water supply system	Surface water control and site water supply system	Industrial	NFA determination was made.	Two water supply reservoirs. The south reservoir has an earthen dam 75 ft high. The north reservoir has an earthen dam 50 feet high. Also includes pump house and	Operational	Operable

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
					transfer lines.		
Schoolhouse	deer check facility during WNYNSC deer-hunting season administered by NYSERDA	Pre-NFS: One-room schoolhouse and residence. NFS/WVDP- Used as environmental and bioassay sampling program laboratory; office space, sample storage area; training classroom.	Industrial	NFA at this time. Determination is specific to Septic System. (SWMU 36)	18.5' x 41', wood-framed building, shingled roof with associated septic system. Septic system includes concrete tank, distribution box.	Operational	Removed
North Plateau Groundwater Recovery System (Pump & Treat)	Pump Sr-90 contaminated groundwater for treatment at LLW2	Pump Sr-90 contaminated groundwater and treat w/ion exchange technology	Radiological	n.a.	Insulated 8' x 40' x 10' cargo container; houses 3 recovery wells. Includes associated storage shed.	Operational	Operational
Well Purge water storage locations	Containers are staged at various locations for storage of monitoring well purge water collected during groundwater sampling events.	Containers are staged at various locations for storage of monitoring well purge water collected during groundwater sampling events.	Industrial	NFA determination was made. Use continues for temporary storage of purge water. (SWMU 34)	2 55-gal steel drums with 52-gal poly liners and 1 polyethylene tanks. Stage in several locations.	Operational	Operable
Soil Piles	None	Soil piles from site construction activities	Industrial		Three soils piles from site construction activities. One soil pile located north of the Low-level Waste Rail Packaging and Staging Area; one soil pile	Inactive	Inactive

Facility	Current Use	Previous Use	Facility Type	Current RCRA Status	Facility Construction	Contract Starting Point	Contract End State
					located adjacent to the Warehouse Hard Stand; and one soil pile located south and east of the RTS Drum Cell.		
Miscellaneous Facilities and Storage Areas			Mostly industrial		All ancillary support structures, storage facilities, laydown and hardstand areas, speed spaces, sheds, utility stations, etc. not specifically mentioned in Attachments C-2 or C-3.	Varies	Removed

Acronyms:

- A&PC Analytical and Process Chemistry
- Al aluminum
- approx. approximately
- bldg building
- CMS Corrective Measures Study
- E East
- ft. or ft feet (unit of length)
- gal gallons
- HLW High Level Waste
- hr hour
- I&C Instrumentation and Calibration
- IRTS Integrated Radwaste Treatment System
- LLW Low-Level Waste
- N North
- n.a. or na not applicable

NDA	Nuclear Regulatory Commission-Licensed Disposal Area
NE	Northeast
NFA	No Further Action
NFS	Nuclear Fuel Services
NW	Northwest
NYSERDA	New York State Energy Research and Development Authority
PVU	Portable Ventilation Unit
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
S	South
SAA	Satellite Accumulation Areas
SDA	State-Licensed Disposal Area
SE	Southeast
SW	Southwest
W	West
WNYNSC	Western New York Nuclear Service Center
WTF	Waste Tank Farm
WVDP	West Valley Demonstration Project

Attachment C-4 – Waste Processing Facilities at the WVDP

Table C.1 Operational WVDP Facilities available for use in waste packaging

Area	Facility	Type	Notes
WMA 1	Waste Reduction and Packaging Area (WRPA)	Nuclear	Contact handling
WMA 1	Contact Size Reduction Facility (CSRF)	Nuclear	Contact handling
WMA 1	Fuel Receiving and Storage Area (FRS)	Nuclear	Contact handling
WMA 1	Equipment Decontamination Room (EDR)	Nuclear	Contact handling
WMA 1	Vitrification Facility	Nuclear	Remote handling
WMA 5	Remote Handled Waste Facility (RHWF)	Nuclear	See PWS Sections C.1.2.3. and C.1.3.3. Will be operable during part of the contract period for waste management functions.
WMA 5	Container Sorting and Packaging Facility (CSPF)	Nuclear	Contact handling
WMA 5	Lag Storage Area Shipping Depot	Radiological	Contact handling
WMA 5	Lag Storage Area (LSA 4) Waste Packaging Area	Radiological	Contact handling

Table C.2 Operational WVDP Facilities available for use in waste shipping

Area	Facility	Type	Notes
WMA 1	Load-In/Load-Out Facility (LI/LO)	Industrial	Crane access for truck loading
WMA 1	Fuel Receiving and Storage Area (FRS)	Nuclear	Crane access to rail spur
WMA 2	Vitrification Test Facility (VTF)	Industrial	Crane access for truck
WMA 5	Remote Handled Waste Facility (RHWF)	Nuclear	Crane access for truck loading. See PWS Sections C.1.2.3. and C.1.3.3. Will be operable during part of the contract period for waste management functions.
WMA 5	Lag Storage Area Shipping Depot	Nuclear	
WMA 6	Rail Spur	Industrial	
N/A	South Parking Lot	Industrial	Empty Truck Staging Area
N/A	Shielded 50-Ton Forklift	Industrial	

Attachment C-5 – Estimated Waste Volumes (ft³) in Storage at the WVDP

Waste Stream	Total Estimated Volume of waste (ft³) after 12-31-06
Low Level Waste - Miscellaneous Solids ^{1,2}	11,000
Low Level Waste - Miscellaneous Liquids	6,000
Low Level Waste - Miscellaneous Sludges and Resins	0
Low Level Waste - Oily Waste	1,900

Attachment C-6 -- Turnover Package Requirements

1.0 Documentation Requirements Specific to Activities Accomplished Under Section C, Performance Work Statement.

The following documentation is to be provided in **addition** to documentation required as specified elsewhere in the contract and does not relieve the Contractor of responsibility to provide such documentation.

- 1.1 Documentation associated with disposal of all Project wastes.
- 1.2 Documentation generated as a result of facilities characterization.
- 1.3 Documentation specific to support maintenance and monitoring of deactivated and/or reconfigured non-operational facilities and systems, including support and utility systems.
- 1.4 Documentation specific to status of operational facilities and utility systems.
- 1.5 Description of facilities remaining regulated under the RCRA at the conclusion of the contract.
- 1.6 Plan for long-term maintenance, storage and disposition of historical/legal records.

Attachment C-7 – West Valley Demonstration Project Environmental Permits

<i>Permit Name and Number</i>	<i>Agency/Permit Type</i>	<i>Description</i>	<i>Status</i>
West Valley Demonstration Project RCRA Part A Permit Application	NYSDEC/Hazardous Waste	Provides interim status under RCRA for treatment and storage of hazardous waste	No expiration date.
Air Facility Registration Certificate (9-0422-00005/00099)	NYSDEC/Air Emissions	Site-wide registration includes 2 boilers	Effective 10/21/04. No expiration date.
Slurry-fed ceramic melter (modification to WVDP-687-01) process building ventilation	EPA/NESHAP	Slurry-fed ceramic melter radionuclide emissions – MPPB stack modified 2/18/97	Permit approved 2/18/97. No expiration date. Request to modify submitted to the EPA 8/99.
Vitrification facility HVAC system	EPA/NESHAP	Vitrification facility HVAC system for radionuclide emissions	Permit approved 2/18/97. No expiration date.
01-14 building ventilation system (WVDP-187-01)	EPA/NESHAP	Liquid Waste Treatment System ventilation of radionuclide emissions in the 01-14 building	Issued 10/5/87. Modified 5/25/89. No expiration date.
Contact Size-Reduction Facility (WVDP-287-01)	EPA/NESHAP	Contact size-reduction and decontamination facility radionuclide emissions	Issued 10/5/87. No expiration date.
Supernatant Treatment System/Permanent Ventilation System (WVDP-387-01)	EPA/NESHAP	Supernatant Treatment System ventilation for radionuclide emissions	Revised 1/1/97. No expiration date.
Outdoor ventilated enclosures (WVDP-587-01)	EPA/NESHAP	Ten portable ventilation units for radionuclide emissions	Issued 12/22/87. No expiration date.
State Pollutant Discharge Elimination System (NY0000973)	NYSDEC/Water	Covers discharges to surface waters from various on-site sources	Permit modification issued addressing storm water discharges, monitoring modifications and other items. Effective 01/01/05. Permit expires 02/01/09.

Permit Name and Number	Agency/Permit Type	Description	Status
Buffalo Pollutant Discharge Elimination System (04-05-TR096)	Buffalo Sewer Authority/Sanitary sewage and sewage sludge disposal	Permit issued to hauler of waste from the wastewater treatment facility	Hauler must renew permit by 06/30/06.
Chemical Bulk Storage (9-000158)	NYSDEC/Chemical Bulk Storage Tank Registration	Registration of bulk storage tanks used for listed hazardous chemicals	Registration expires 07/05/07.
Petroleum Bulk Storage (9-008885)	NYSDEC/Petroleum Bulk Storage Tank Registration	Registration of bulk storage tanks used for petroleum	Registration expires 09/02/06.
Bird Depredation License (DWP02-026)	New York State Division of Fish and Wildlife	State license for the removal of inactive nests of migratory birds	NYS license expires 06/30/06.
Bird Depredation Permit (MB747595-0)	U.S. Fish and Wildlife Service	Federal permit for the limited taking of migratory birds and active bird nests	Permit expires 06/30/06.
Federal Facility Compliance Act (FFCA) Consent Order for WVDP (1996)	NYSDEC/DOE	Establishes commitments regarding compliance with the Site Treatment Plan for mixed wastes submitted by DOE pursuant to the FFC Act	No expiration date.
Administrative Order on Consent (1992) RCRA 3008(h) Docket No. II RCRA-3008(h)-92-0202	EPA/NYSDEC/NYSERDA/DOE	Administrative Order on Consent RCRA 3008(h)	No expiration date.