



**Department of Energy**  
West Valley Demonstration Project  
10282 Rock Springs Road  
West Valley, NY 14171-9799

June 1, 2020

Mr. John D. Rendall  
President & General Manager  
CH2M HILL BWXT West Valley, LLC  
West Valley Demonstration Project  
10282 Rock Springs Rd  
West Valley, NY 14171-9799

ATTENTION: J. D. Williams, Regulatory Strategy Manager, AC-BUS

SUBJECT: Environmental Checklist WVDP-2020-01, "Site-Wide Routine Maintenance Activities, 2020 Update"

REFERENCE: Letter WD:2020:0263 (382652), J. D. Rendall to A. M. Cooney, "Contract No. DE-EM0001529, Section J-3, Item 105, NEPA Documentation, Transmittal of Environmental Checklist WVDP-2020-01, Site-wide Routine Maintenance Activities, 2020 Update", dated May 13, 2020

Dear Mr. Rendall:

I have reviewed the enclosed environmental checklist and agree that the actions described therein are categorically excluded per Title 10, Code of Federal Regulations, Part 1021, as amended, Subpart D, Appendix B, B1.3, "Routine Maintenance," as detailed in the attachment to the environmental checklist. Enclosed please find a signed environmental checklist form to that effect.

The contents of this correspondence are not intended to impact or modify contract scope and/or cost. If you have any questions, please contact me at Extension 4007.

Sincerely,

A handwritten signature in blue ink, appearing to read "Martin P. Krentz".

Martin P. Krentz  
National Environmental Policy Act Compliance Officer  
West Valley Demonstration Project

Enclosure: Signed Environmental Checklist WVDP-2020-01

cc: J. J. Hoch, CHBWV, WV-PL6, w/enc.  
D. P. Klenk, CHBWV, WV-PL6, w/enc.  
K. P. Armstrong, DOE-EMCBC, Office of the Director, w/enc.  
M. P. Krentz, DOE-WVDP, AC-DOE, w/enc.  
M. N. Maloney, DOE-WVDP, AC-DOE, w/enc.  
D. W. Sullivan, DOE-WVDP, WV-DOE, w/enc.

MPK:382692 – 451.4

Attachment  
Environmental Checklist WVDP-2020-01  
Site-wide Routine Maintenance Activities, 2020 Update

**Department of Energy  
West Valley Demonstration Project (DOE-WVDP)**

**ENVIRONMENTAL CHECKLIST**

<b>Project/Activity Title:</b> Site-wide Routine Maintenance Activities, 2020 Update	<b>NEPA ID Number:</b> WVDP-2020-01 <b>Rev. #: 0</b> <b>Date:</b> May 12, 2020
<b>Contractor Project Manager:</b> David P. Klenk	<b>Phone Number:</b> 716-942-2639
<b>Contractor NEPA Coordinator:</b> Jerald J. Hoch	<b>Phone Number:</b> 716-942-2409
<b>DOE-WVDP NEPA Document Manager:</b> Martin P. Krentz	<b>Phone Number:</b> 716-942-4007

**A. BRIEF PROJECT/ACTIVITY DESCRIPTION:** Attach a detailed description or statement of work.

**B. SOURCES OF IMPACT:** Would the action involve, generate, or result in changes to any of the following:

	YES	NO		YES	NO
1. Air Emissions	X		12. Water Use/Diversion	X	
2. Liquid Effluents	X		13. Water Treatment	X	
3. Solid Waste	X		14. Water Course Modification	X	
4. Radioactive Waste/Soil	X		15. Radiation/Toxic Chemical Exposures	X	
5. Hazardous Waste	X		16. Pesticide/Herbicide Use	X	
6. Mixed Waste	X		17. High Energy Source/Explosives		X
7. Chemical Storage/Use	X		18. Transportation	X	
8. Petroleum Storage/Use	X		19. Noise Level	X	
9. Asbestos	X		20. Workforce Adjustment		X
10. Utilities	X		21. Other		X
11. Clearing or Excavation	X				

In an attachment, qualify and explain each question that you have specifically answered "YES."

**C. CATEGORY EVALUATION CRITERIA:** Would the proposed action:

	YES	NO
1. Take place in an area of previous or ongoing disturbance?	X	
2. Create hazardous, radioactive, or mixed waste for which no disposal is available?		X
3. Impact a RCRA-regulated unit or facility?	X	
4. Force a low income or ethnic minority population to shoulder a disproportionate share of the negative environmental impacts of pollution or environmental hazards because of a lack of political or economic strength?		X
5. Involve air emissions and be located in an air pollutant non-attainment or maintenance area for any criteria pollutants?		X
6. Threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health, including DOE and/or Executive Orders?		X
7. Disturb hazardous substances, pollutants, or contaminants that pre-exist in the environment such that there would be uncontrolled or unpermitted releases?		X
8. Require siting, construction, or major expansion of a waste storage, disposal recovery, or treatment facilities, but may include such categorically-excluded facilities?		X
9. Adversely affect environmentally sensitive resources including, but not limited to: structures of archeological, historic or architectural significance; threatened or endangered species or their habitat; floodplains or wetlands; wildlife refuges, agricultural lands or vital water resources (e.g., sole-source aquifers)?		X
10. Involve extraordinary circumstances? As specified at 10 CFR § 1021.410(b)(2), extraordinary circumstances are unique situations presented by specific proposed actions, such as scientific controversy about the environmental effects of the action, uncertain effects or effects involving unique or unknown risks, or unresolved conflicts concerning alternate uses of available resources within the meaning of Section 102(2)(E) of NEPA [42 U.S.C. 4332(2)].		X
11. Be "connected" to other actions with potentially significant impacts, related to other proposed actions with cumulatively significant impacts, and precluded by 40 CFR § 1506.1 or 10 CFR § 1021.211?		X

In an attachment, qualify and explain each question that you have specifically answered "YES."


**Department of Energy  
West Valley Demonstration Project (DOE-WVDP)**

**ENVIRONMENTAL CHECKLIST**

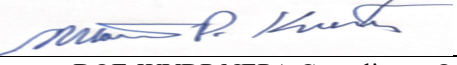
**D. RECOMMENDATION AND DETERMINATION:**

**DOE-WVDP Director's Recommendation:** I find and recommend that this proposed action meets the criteria specified in 10 CFR Part 1021, Subpart D, and/or DOE Policy and Guidance for the following:

- Categorical Exclusions (Appendix B, Class of Action B1.3, Routine Maintenance)
- Actions Within the Scope of Existing NEPA Documentation NEPA Document ID Number \_\_\_\_\_)
- Ongoing Operations (Standard Operating Procedure OH-6.1.01, Rev. 1, Section 5.2)

Signature:  \_\_\_\_\_ Date 06/01/2020  
Director, Department of Energy  
West Valley Demonstration Project (DOE-WVDP)

**DOE-WVDP NEPA Compliance Officer's Determination:** Based on my review of the attached information concerning this proposed action, as the WVDP NEPA Compliance Officer (DOE Order 451.1B, Section 5.d.), I have determined that the proposed action fits within the specified class of actions, that the other regulatory requirements identified in Section C are met, and that this proposed action proceed without further NEPA review.

Signature:  \_\_\_\_\_ Date 5/28/2020  
DOE-WVDP NEPA Compliance Officer,  
West Valley Demonstration Project

**OR**

- Environmental Assessments (Appendix C, Class of Action \_\_\_\_\_; or Action not listed in Subpart D)
- Environmental Impact Statements (Appendix D, Class of Action \_\_\_\_\_)
- Interim Actions (40 CFR Part 1506.1 and 10 CFR Part 1021.211)
- Integrated Documentation for CERCLA/RCRA Actions
- Variances (Emergency Action, 40 CFR Part 1506.11 and 10 CFR Part 1021.34)

**DOE-WVDP NEPA Compliance Officer's Concurrence:** I concur with the recommendation that this proposed action fits within the specified class of actions.

Signature: \_\_\_\_\_ Date \_\_\_\_\_  
DOE-WVDP NEPA Compliance Officer,  
West Valley Demonstration Project

**DOE-WVDP Manager's Determination:** Based on my review of the attached information concerning this proposed action, as the Director of the West Valley Demonstration Project (DOE Order 451.1B, Section 5.a.), I have determined that the level of documentation recommended for the proposed action is appropriate.

Signature: \_\_\_\_\_ Date \_\_\_\_\_  
Director, West Valley Demonstration Project (WVDP)  
Department of Energy

## SECTION A. BRIEF PROJECT/ACTIVITY DESCRIPTION

### BACKGROUND

From 1966 to 1972, Nuclear Fuel Services, Inc. (NFS) operated a nuclear fuel reprocessing plant at the Western New York Nuclear Service Center (WNYNSC) near West Valley, New York (**Figure 1**). The plant reclaimed uranium and plutonium from spent nuclear fuel. After operating the fuel reprocessing facility for six years, NFS halted operations to make modifications to increase the plant's reprocessing capacity, reduce worker doses, and reduce radioactive effluents. During this period, new regulatory requirements were issued related to earthquake and tornado protection, and waste management requirements. NFS concluded that it would not be economically viable to continue the reprocessing operation at West Valley. In 1976, NFS informed New York State that it was withdrawing from the reprocessing business and intended to turn the West Valley facility and the two disposal areas over to New York State.

At that time, the reprocessing facility contained 750 spent fuel assemblies that had not been reprocessed, 600,000 gallons of liquid High Level Radioactive Waste (HLW) stored in two steel tanks, the highly contaminated Main Plant Process Building, and almost three million cubic feet of radioactive waste buried in the two disposal areas.

In 1980, Congress passed the West Valley Demonstration Project (WVDP) Act (Public Law 96-368), which directed the U. S. Department of Energy (DOE) to do the following: (1) solidify the HLW at the WNYNSC in a form suitable for transportation and disposal; (2) develop containers for the HLW that are suitable for permanent disposal; (3) transport the solidified HLW, in accordance with applicable provisions of law, to an appropriate Federal repository for permanent disposal; (4) in accordance with applicable licensing requirements, dispose of low-level radioactive waste (LLW) and transuranic (TRU) waste produced as a result of solidifying the HLW; and (5) decontaminate and decommission: (a) the tanks and other facilities of the WNYNSC in which the HLW solidified under the Project is stored; (b) the facilities used in the solidification of the waste; and (c) any material and hardware used in connection with the Project, in accordance with requirements that the U.S. Nuclear Regulatory Commission (NRC) prescribes.

In 1982, a Final Environmental Impact Statement (EIS) (DOE/EIS-0081) and associated Record of Decision (ROD) were issued for the actions that DOE proposed to satisfy the first two requirements of the WVDP Act. During the initial phase of work performed under EIS-0081, which was completed in September 2002, the HLW was immobilized in borosilicate glass through vitrification. The canisters of immobilized HLW were stored on-site in the High Level Waste Interim Storage Facility (the former Chemical Process Cell) and have been relocated to the HLW Cask Storage Pad for temporary storage until DOE authorizes their removal. In 1993 and 1998, the DOE prepared Supplement Analyses (DOE-EIS-025 and WVDP-321, respectively) of the 1982 Final EIS to re-examine on-going HLW solidification activities as well as other refinements to the actions originally evaluated in the EIS. As a result of both analyses, DOE concluded that no environmentally relevant or substantial changes in Project scope had occurred, that no new circumstances or relevant information existed, and that the environmental analyses performed for the 1982 EIS were still valid.

After solidification of liquid and sludge was completed in September 2002, the WVDP shifted its attention and resources to the remaining requirements of the WVDP Act, waste disposal and facility decontamination and decommissioning. To facilitate these activities, in 2006, DOE prepared the Environmental Assessment for the Decontamination, Demolition, and Removal of Certain Facilities at the West Valley Demonstration Project. A Finding of No Significant Impact for these actions was subsequently made. Additionally, two EISs were prepared to review alternatives for completion of these requirements; WVDP Waste Management EIS (DOE/EIS-0337-F) completed in 2003 and ROD issued in 2005 and the Decommissioning and/or Long-Term Stewardship EIS (DOE/EIS-0226) completed in 2010 and ROD issued in 2010.

The "Preferred Alternative" to be implemented as a result of the Decommissioning and/or Long-Term Stewardship final EIS (DOE/EIS-0226) employs a two phased approach to decommissioning the site. The first Phase (Phase 1) involves the decommissioning of most site facilities, including demolition of the Main Plant Process Building and Vitrification Facility and studies undertaken to reduce uncertainties

associated with decommissioning the remaining facilities. The second phase (Phase 2) completes the decommissioning and/or long term management decision making for the site. CH2M HILL BWXT West Valley, LLC (CHBWV) has been awarded the DOE Contract (No. DE-EM0001529) for the initial activities under the “WVDP Phase 1 Decommissioning-Facilities Disposition” Project. The scope of this contract generally includes the facility disposition portion of the work that constitutes Phase 1. CHBWV’s objective is to safely deliver a reliable, cost-effective, and accelerated completion of these WVDP Phase 1 Decommissioning-Facilities Disposition Project activities, as described in the Contract.

The WNYNSC and all the structures therein, including the area being utilized to conduct the WVDP (Figures 1, 2, and 3), are the property of the State of New York and are managed by the New York State Energy Research and Development Authority (NYSERDA).

### **A.1 Purpose and Need**

Although the Phase 1 Decommissioning and/or Long-Term Stewardship final EIS (DOE/EIS-0226) and associated Technical Reports address some operational and maintenance activities associated with decommissioning and facility disposition, they do not fully or completely cover ongoing operation and maintenance needs during the period required to complete facility disposition actions. The purpose of this environmental review is to evaluate these considerations as they apply to ongoing routine maintenance at the WVDP and WVDP associated facilities and systems located on the WNYNSC outside of the WVDP retained premises. (These include but are not limited to the Live Fire Range, the Water Reservoirs and Dam System, and the Rail Spur, see Figure 2).

This site-wide routine maintenance checklist addresses the needed routine maintenance activities to comply with the requirements of the Cooperative Agreement between NYSERDA and DOE (as amended) and with DOE Order 430.1C, “Real Property and Asset Management.”

### **A.2 Objectives**

The DOE Contract with CHBWV (Contract No. DE-EM0001529) requires, among other things, to:

“...provide for the safe, economical, and efficient operation and maintenance of all project facilities. Activities are expected to include but not be limited to the following:

- a) Preventative maintenance;
- b) Repair and alterations of facilities and associated equipment;
- c) Transportation infrastructure;
- d) Monitor and repair of erosion and related control structures for WVDP facilities;
- e) Reservoir, emergency spillway and dam maintenance;
- f) General infrastructure;
- g) Utilities and utility systems and infrastructure;
- h) Janitorial services and grounds keeping services (including grass mowing; trimming; brush cutting; snow plowing; snow removal; and walkway, road, and parking lot maintenance, spraying of herbicides);
- i) Laboratory services;
- j) Laundry services (off Project Premises; to include compliance with all applicable regulatory requirements) and;
- k) Railroad Spur maintenance.

“Systems essential to the protection of the safety and health of the public and workers, or the protection of the environment and federal property, must be continuously maintained....”

The objective of this environmental review is to provide for all WVDP and associated facilities and systems site-wide routine maintenance activities.

### **A.3 Type and Scope of Activities**

The proposed action evaluated in this environmental checklist involves performing preventive, predictive, and corrective maintenance (i.e., repair) activities on a routine basis to ensure that

WVDP facilities, processes, systems and/or equipment are maintained in a condition suitable for their intended use. This environmental checklist will be reviewed annually to ensure that all planned activities fall within the scope defined below. A revised and updated checklist or a separate checklist will be prepared should a proposed action fall outside of this scope.

Routine maintenance activities are an integral and necessary part of the day-to-day operations of the WVDP. DOE has categorically excluded the broad range of activities that routine maintenance encompasses as a single class of actions under - 10 CFR Part 1021, Subpart D, Appendix B C Categorical Exclusions Applicable to Specific Agency Actions, Class of Action B1.3, "Routine Maintenance."

Classes of routine maintenance activities that fall under DOE Categorical Exclusion B1.3 can be considered to fall into four general categories:

### **Maintenance**

Corrective (that is, repair), preventive, and predictive maintenance required to maintain buildings, structures, infrastructures, and equipment in a condition suitable for a facility to be used for its designated purpose. Corrective maintenance involves repair and restoration of equipment or components that have failed or are malfunctioning and are not performing their intended function. Predictive maintenance involves periodic monitoring and diagnosis to forecast component degradation so that "as-needed" planned maintenance can be performed prior to equipment failure. Preventive Maintenance (PM) includes periodic and planned maintenance actions taken to maintain a piece of equipment within design operating conditions and extend its life, and is performed prior to equipment failure or to prevent equipment failure.

### **Custodial Services**

Activities to preserve facility appearance, working conditions, and sanitation (e.g., cleaning, window washing, lawn mowing, brush removal, trash collection, painting, and snow removal).

### **Replacement In-Kind**

Replacement in kind is a one-for-one change-out, repair or replacement that is in kind and is not a substantial upgrade or improvement. In kind replacement includes installation of new components to replace outmoded components if the replacement does not result in a significant change in the expected useful life, design capacity, or function of the facility.

### **Minor Modifications**

Changes that are made to preserve buildings, structures, infrastructures, and equipment in a condition suitable for a facility to be used for its designated purpose. Such modifications include, but are not limited to, the institution of administrative and engineering controls to meet building and safety codes, to resolve As Low As Reasonably Achievable (ALARA) concerns, and to maintain safe and efficient working conditions (e.g., installation of lighting, safety signage, non-slip surfacing, and weather-protection enclosures or canopies, etc.).

In accordance with the limitations on routine maintenance imposed by 10 CFR Part 1021, none of the activities addressed in this environmental checklist would be performed as:

- Part of, or in support of, a larger project that requires either an Environmental Assessment (EA) or an Environmental Impact Statement (EIS);
- Actions that would change the scope or mission of a facility;
- Actions that would cause a significant increase in environmental impacts of a facility;
- Actions that would affect any sensitive area or natural resources; or
- A substantial upgrade or improvement that would significantly extend the useful life of a facility.

### **Description of Proposed General Maintenance Activities and Processes**

The following lists provide examples of the areas, facilities, processes, systems and types of equipment that routinely require maintenance at the WVDP. The lists include activities that are foreseeably necessary to

accomplish a particular maintenance action, custodial service, replacement in-kind, or minor modification (e.g., the excavation that is necessary to access an underground utility line that requires repair, or to relocate an overhead power or communication lines to facilitate equipment access).

### **Areas and Processes, Requiring Maintenance**

The facilities, processes and/or systems requiring maintenance include, but are not limited to, the following:

- Acid and Caustic Handling Systems
- Aerial Service Lines and Poles
- Animal Control Processes
- Cargo Trailers and Containers
- Chemical Bulk Storage
- Chemical Process Cell-Waste Storage Area (CPC-WSA), gravel removal
- Communication Hubs, Systems, and Transmission lines
- Computer Systems
- Construction and Demolition Debris Landfill (CDDL)
- Container Sorting and Packaging
- Contamination Monitors
- Counting Room Facilities
- Crane Rooms and Associated Enclosures
- Data Centers
- Electrical Distribution Facilities
- Environmental Monitoring, Sampling and Surveillance Systems (including the “Environmental Measurements” network)
- Fire Protection and Detection Systems
- Fire Pump House/Stations
- Fuel Receiving and Storage (FRS) Area
- Guardhouses
- Ground Level Offices
- Groundwater and Seep Monitoring
- Groundwater Water Wells and Supply System
- Hardstands (e.g. LSA 2 Hardstand, Rail Packaging and Staging Area)
- Hazardous Waste Storage
- High-Activity Waste Relocation and Storage
- High-Level Waste Cask Storage Pad
- High-Level Waste Cask Storage System (MPC-WVDP Storage System)
- On-site Analytical Services
- Lag Storage Areas 3, 4, and Shipping Depot
- Lagoons and Lagoon Embankments
- Lay-Down Areas
- Low-Level Waste Treatment Facilities (LLW2) and associated structures and embankments
- Main Plant Process Building
- MPPB Demo Water Management System
- Meteorological Monitoring
- NRC-Licensed Disposal Area (NDA) Geomembrane Cover
- NDA Interceptor Trench and Wastewater Conveyance to Lagoon 2 System
- Nuclear Regulatory Commission (NRC) Licensed Disposal Area (NDA)
- Office Buildings, Trailers, and Speed Spaces
- Permeable Treatment Wall
- Petroleum Bulk Storage
- Plant Utilities (Air, Electrical, Gas, Water)
- Power Transmission Lines
- Process Waste Handling
- Pump Storage Vaults
- Railroad Spur
- Radwaste Treatment System (RTS) Drum Cell
- Restrooms and Locker Rooms
- Remote Handled Waste Facility (RHWF)
- Salt Shed



Security Systems  
 Sewage Treatment Plant (AKA Wastewater Treatment Facility)  
 Site Roadways, Parking Areas, Culverts, and Ditches  
 Solid Radioactive Waste Handling  
 Stairs and Platforms  
 Storm Water Management Systems  
 Substations  
 Switchyards  
 Tank and Vault Drying System  
 Telecommunication Systems  
 Trailers, Modular Units, and Support Structures (e.g., office, restroom, nurse's station, and storage units, etc.)  
 Utility and Potable Water Systems  
 Utility Room  
 Ventilation Systems  
 Vitrification Corral Waste Storage Area  
 Vitrification Load-In/Load-Out Facility  
 Vitrification Test Facility  
 Vitrification Vaults Waste Storage Area  
 Warehouses  
 Waste Storage [Low-Level Radioactive Waste (LLW), Mixed LLW, Transuranic (TRU), Greater-Than-Class C (GTCC), High Level Radioactive Waste, and Spent Nuclear Fuel]  
 Waste Processing Area  
 Waste Tank Farm  
 Wastewater Treatment, Sewers, and Sewage Collection and Holding Tanks  
 Wastewater and Storm Water Outfalls  
 Water Treatment System & Building  
 Weather Structures - Enclosures and Canopies  
 West Valley Demonstration Project Reservoir, Dam, and Spillway System (Lake 1 Dam, Lake 1, Lake 2 Dam, Lake 2, Interconnecting Canal, 18-foot Diameter Buttermilk Creek Culvert, and Lake 2 Spillway)

### **Equipment Requiring Maintenance**

Plant process equipment requiring maintenance includes, but is not limited to, the following:

Air Conditioners  
 Air and Other Gas Compressors  
 Alarms  
 Blowers, Fans, and Ducts  
 Boilers  
 Closed-Circuit Television (CCTV) Cameras  
 Communication Hubs  
 Communication Lines and Antenna, including Towers and Satellite Dishes  
 Computers and Peripherals  
 Contamination Monitoring Equipment  
 Cranes and Hoists  
 Dampers  
 Eductors  
 Electrical Power Generators  
 Filters and Strainers  
 Fire Detection and Suppression Equipment  
 Grinders and Grinder Pumps  
 Heat Exchangers  
 Heaters  
 High lifts, Forklifts  
 Hydrants  
 Ion-Exchange Columns  
 Instrumentation and Control Systems  
 Laboratory Equipment  
 Liquid Distribution Systems

Machine Shop Equipment  
 Machinery  
 Manipulators and Crane Manipulators  
 Material Handling Equipment  
 Meteorological Tower and Monitoring Equipment  
 Mixers/Agitators  
 Motors  
 Piping  
 Portable Ventilation Units  
 Power Distribution Equipment  
 Pumps (Vacuum and Pressure)  
 Radiation Monitoring Equipment  
 Replacement Ventilation Units  
 Restroom Equipment (Sinks, Showers, Toilets)  
 Roofing  
 Sampling and Monitoring Equipment  
 Security Fencing  
 Shield Windows/Doors  
 Snowplows  
 Soil Containment and Catchment Structures  
 Solar Panels and associated controls  
 Substations  
 Space Heaters  
 Switch Yards  
 Tanks and ancillary equipment  
 Test Equipment  
 Telephone Switches  
 Transformers  
 Turbines and Engines  
 Uninterrupted Power Supply Units (UPS Units)  
 Valves  
 Vehicles and Construction/Demolition Equipment  
 Ventilation Systems  
 Waste Compactors  
 Welding Equipment  
 Well Pumps

### **Maintenance Activities**

- 1.0 Performance of independent verifications and inspections (both visual and remote) in support of budget and scheduling, maintenance planning, regulatory compliance, and improvement of plant safety. Verification and inspections include, but are not limited to, photography, configuration checks, robotics controlled surveillance, sample gathering, the use of mock-ups and/or test equipment.
- 2.0 Direct replacement of existing equipment and/or facility components.
- 3.0 Excavation and back-filling for the maintenance and repair of underground plant utility systems and services as well as extensions or isolation and removal of existing utilities from existing plant utility systems.
- 4.0 Maintenance of plant utility systems and services, including, but not limited to:
 

• Drinking water and water distribution lines	• wastewater treatment and sewage
• electrical	• natural gas, propane, nitrogen (including liquid nitrogen) and carbon dioxide
• air	• communications and data processing
• fuel oil	• caustic/acid chemical system

- gasoline
- diesel
- storm water conveyance systems
- solar panels and associated controls

4.1 Maintenance of plant water systems, including, but not limited to:

- Fire pump house/station and equipment
- Groundwater water supply system including building
- Potable water treatment and chemical addition
- Reservoir water supply system
- Fire protection systems, including water, dry, and other fire extinguishing equipment

4.2 Maintenance of wastewater treatment facilities/systems.

- Inspection, cleaning and repair of manholes, sewer lines, traps, treatment process and collection tanks and chambers, and pipe clean-outs
- Maintenance and repair of the WVDP storm water, and low-level wastewater treatment facility, including, but not limited to:
  - Treatment and collection/holding basins, vessels, tanks, chambers, and pits
  - Process and effluent monitoring equipment
  - Storm water drainage systems and discharge outfalls
  - Sanitary sewers
  - Wastewater holding lagoons and lagoon discharge system
  - Sanitary wastewater holding tank
  - Plant drainage (e.g., foundation under-drains)
  - Addition of chemicals for controlling wastewater quality (e.g., pH)

4.3 Maintenance of electrical systems, including, but not limited to:

- Pump motors, manipulators, blower motors, motor starters, starter control systems, generators, solar panels, substations, and switchgear
- Electrical system component upgrades, replacement, or installation and rewiring of conduit, junction, switch and receptacle boxes; rerouting and minor additions of conduit, wire, cable, control panels, solar panels, boxes and receptacles (i.e., minor additions for 480-volt system or less); placement of new wire in existing conduit; installation of conduit supports to facilitate access and maintenance
- Regular and emergency lighting
- Circuits and wiring
- Replacement of breakers, switches, disconnects, transformers, utility poles, insulators, and the replacement or relocation of downed distribution lines

4.4 Maintenance of mechanical systems, such as piping, valves, and ducts.

- 4.5 Maintenance of utility and instrumentation air service systems.
- 4.6 Maintenance of natural gas service or propane, including, but not limited to, service lines from meters and tanks to the site equipment.
- 4.7 Maintenance of diesel fuel service (e.g., tanks and service lines).
- 4.8 Maintenance of plant acid and chemical addition systems.
- 4.9 Maintenance of communications and data processing systems, including, but not limited to:
- Public address systems
  - Telephone systems, including facsimile (FAX), modems, and data collection lines (e.g., meteorology system)
  - Alarm systems, including fire and radiation detection
  - Mainframe, servers, wired and wireless data transmission, and personal computers and peripheral systems
  - Antenna, including towers and satellite dishes
  - Transmission lines, including fiber optics, including relocation of communication lines
  - Wired and wireless camera and instrumentation systems
- 5.0 Maintenance of process instrumentation, including, but not limited to:
- Alarm systems - electric, digital, and pneumatic instruments and systems used for controlling, recording, and alarming process variables; component replacement and repair, including, but not limited to, trouble-shooting, fitting adjustments, functionally equivalent component replacement, re-tubing, mounting and rewiring, testing, and calibration
- 6.0 Maintenance of heating, ventilation and air conditioning (HVAC), repair, replacement, and testing of HVAC systems and filters including, but not limited to:
- Office/Support Structure Spaces (HVAC)
  - Permanent Ventilation System (PVS)
  - Replacement Ventilation Units (RVU)
  - Remote Handled Waste Facility HVAC (Intake and Exhaust)
  - Portable Ventilation Units (PVUs)
  - High-Efficiency Particulate Air (HEPA) Filters and Pre-filters
  - Container Sorting and Packaging Facility (CSPF) Ventilation System
  - Low-Level Waste Treatment Facilities (LLW2) Ventilation System
  - Installation and maintenance of HVAC when required for personnel comfort
- 7.0 Routine site and plant maintenance and custodial services (not within potential or known critical wildlife habitats or delineated wetlands, creeks, or other waters of the state [without first obtaining required regulatory approvals, permits and authorizations]), including, but not limited to:
- Grounds maintenance, such as lawn mowing, grass trimming, landscaping, shrub and tree pruning

- Application of approved pesticides, herbicides, and rodenticides
- Snow shoveling, plowing, and removal
- Grading, drainage, and culvert repairs and sediment cleanup
- Routine re-vegetation and erosion control activities
- Repair, replacement, or removal of building and structure foundations
- Installation of non-skid surfaces on steps, ramps, and other well-traveled areas
- Maintenance of paved areas, including, but not limited to, parking lots, sidewalks, and roads as well as the addition or removal of hard surface paving and hardstands on previously stoned areas
- Minor extensions, repairs, and upgrades of existing roadways
- Maintenance of the WVDP Rail Spur including embankments and ditches
- Maintenance of the WVDP Dam System
- Establishing storage areas for maintenance tools, equipment, and supplies
- Janitorial, cleaning, and housekeeping activities
- Handling, storage, and removal/disposal of recyclables, industrial, hazardous, mixed hazardous and radioactive, and radioactive wastes
- Calibration, repair, and replacement of radiation monitoring equipment, including portal monitors, continuous air monitors, and ambient air monitoring stations
- Routine load testing of lifting equipment
- Maintenance activities in radiologically contaminated areas
- Periodic routine cleaning of storm water drainage systems (e.g., ditches, catch basins, etc.)
- Periodic animal control activities (e.g., trapping, relocation, bird nest removal, sampling, etc.)

8.0 Buildings and structural maintenance including, but not limited to:

- Painting and coating indoor and outdoor surfaces of facility equipment and other structures (e.g., walls, floors, ceilings, and decks) with paint, epoxy, and other coatings as well as surface preparations, such as cleaning, grouting, scraping, sanding, sandblasting, or other methods of surface preparation
- Installation, repair, and replacement of exterior siding, rain-gutters, and heat tracing
- Removal or replacement of existing roofing materials and installation of insulating materials, roofing materials, and sealants
- Repair or replacement of decks, doors, ceilings, walls, windows, floors, and floor covering
- Removal of asbestos or asbestos-containing material (in accordance with New York State Department of Labor, Occupational Health and Safety Administration, and Environmental Protection Agency requirements) for which removal is necessary to support WVDP projects
- Mold remediation (in accordance with New York State Department of Labor requirements) for which remediation is necessary to support WVDP projects
- Use of NYSDEC approved disinfection products for COVID-19 or other viruses

- Minor modifications to or removal of existing structures to increase effective use of space (e.g., door, ceiling, wall, window stairs, platforms and ramp repositioning)
  - Removal and storage/disposal of obsolete or unused equipment
  - Replacement and/or relocation or removal of existing office and cargo containers, speed spaces, lean-tos, equipment shelters, modular units, and sheds
  - Dismantling of sheds, lean-tos, equipment shelters, containers, trailers or other similar structures, and any appurtenances attached thereto
- 9.0 Maintenance and minor modifications required to maintain security, communication, and data systems, to resolve safety concerns, and to prevent hazards, including, but not limited to:
- Maintenance of on-site and off-site communications facilities, such as antennas, radios, and monitoring and data transfer systems
  - Maintenance of detection, monitoring, surveillance, alarms, and camera systems
  - Repair and testing of emergency equipment (e.g., generators)
  - Installation, maintenance, and repair of security fencing, gates, and lighting systems
  - Installation of protective guards on machinery
  - Addition of safety showers and eye-wash stations where only minor piping changes are required
  - Fabrication, installation, and repair of steps, ramps, walk ways, safety railings, hand rails, guard rails, platforms, and frames
  - Routine decontamination and spill clean-up actions
  - Installation and repair of fire protection and detection systems, including, but not limited to, portable and fixed firefighting equipment as well as sprinkler systems and detection systems
  - Installation and maintenance of freeze protection and related activities, including the removal of old insulation and the installation of new insulation
  - Excavations for the installation and repair of utility systems
- 10.0 Maintenance and repair of vehicles and power equipment (excluding air conditioning and emission control systems), including, but not limited to, trucks, earth-moving equipment, mowers, and forklifts.
- 11.0 Maintenance and repair of on-site and off-site environmental monitoring equipment and stations, including but not limited to:
- Routine sampling including access and egress to and from sampling locations
  - Repair to or replacement of groundwater monitoring wells and seep sampling equipment
  - Trimming trees and cutting grass around the environmental monitoring stations
  - Placement of new monitoring stations to provide surveillance of existing WVDP facilities
  - Repair to or replacement of environmental monitoring sheds, weirs, equipment and sample lines
  - Placing stone, crushed gravel, etc. on walkways and/or concrete pads around and under the environmental monitoring stations
  - Instituting weed control measures such as adding geotextile fabric around the stations

- Upgrading electrical and communication systems of environmental monitoring stations

#### A.4 Schedule and Timing

The routine maintenance activities evaluated in this environmental checklist would be performed on a routine and “as-needed” basis. Applicable manuals and procedures shall be utilized to determine the frequency at which routine maintenance activities are to be performed. These determinations will be based on manufacturer manuals, plant experience, and good engineering practices.

### SECTION B. SOURCES OF IMPACT

- 1. Air Emissions** - There would be minor Carbon Monoxide (CO), Carbon Dioxide (CO<sub>2</sub>) and particulate air emissions generated from the construction equipment used to perform routine maintenance activities at the WVDP. Typically, this equipment includes trucks, excavators, paving equipment, front-end loaders, high-lifts, lawn maintenance, and snow removal equipment. These emissions would occur intermittently over a ten-hour day. Fugitive dust could be generated during maintenance activities. Such dust would be controlled as necessary to minimize impact. Volatile organic emissions could be generated during refueling and hydraulic fluid replacement of the equipment. Such emissions will be minimal and will not require any controls under state and federal Clean Air Act regulations. Volatile organic compound (VOC) emissions could also be generated from painting. Similarly, particulate emissions could be generated from sandblasting. Routine maintenance activities with the potential to generate any of these radiological or non-radiological emissions would be evaluated on a case-by-case basis to determine compliance with regulatory requirements under the Clean Air Act. The charging and recharging of air conditioning and refrigeration compressors will be performed by certified technicians. Radiological air emissions are monitored and controlled through authorized control treatment systems in accordance with the radiological National Emission Standards for Hazardous Air Pollutants.
- 2. Liquid Effluents** - Liquid wastewater effluents are generated from WVDP facilities, defined mixed waste streams, industrial wastewater, and storm water run-off impacted by industrial activities. Wastewater from the plant drains, surface runoff, and interceptor trench water from the NRC-licensed Disposal Area (NDA) is treated at the existing Low-Level Waste Treatment Facility (LLWTF). These waste streams, following collection in Lagoon 2, are treated using a filtration and ion-exchange process. The effluent is released to Lagoons 4 and 5 for subsequent sampling and release to Lagoon 3. When discharge criteria are met, the final effluent is released from Lagoon 3 to the environment through a monitored New York State Pollutant Discharge Elimination System (SPDES) outfall. Sanitary wastewater is collected for treatment at an off-site Publicly Owned Treatment Works (POTW). Sanitary wastewater must be transported by a New York State permitted transporter and disposed in accordance with the POTW’s SPDES permit. Storm water impacted by construction/demolition activities is managed in accordance with the Clean Water Act/State Pollutant Discharge Elimination System Best Management Practices Plan and Storm Water Pollution Prevention Plan for the WVDP (WVDP-206). Where required, approval under a General Permit under the SPDES Program will be obtained.
- 3. Solid Waste** - Typical construction waste such as boxes, wood forms, concrete, asphalt, wiring, piping, paper, waste materials (insulation, wood, metal) would be generated. This waste is transported to a certified recycler or a properly permitted solid waste landfill for disposal. Soils and environmental media generated during routine maintenance activities are characterized and managed in accordance with environmental media policies (QP-450-01 and WV-939). An active program to minimize waste generation is in place at the WVDP. The waste minimization program includes both source reduction and recycling. Waste Minimization and Pollution Prevention Opportunities are also an integral part of the work review process and are continually under consideration for identifying new opportunities associated with routine maintenance activities.
- 4. Radioactive Waste/Soil** - Maintenance activities performed inside contaminated areas within the retained Project premises would result in the generation of some radioactive waste. Typical types of waste would include anti-contamination clothing, rags, radiation enclosures and barriers, wood, dirt, contaminated materials and components (e.g., pumps, piping, roofing materials), demolition debris (which may include asphalt and concrete), contaminated filters, and contaminated absorbent used to clean up small spills. These materials would be packaged and stored in existing on-site storage

facilities pending disposal at an authorized and permitted facility. For excavation in an area suspected to be radioactively contaminated, WVDP Radiological Control personnel would assist in developing specific radiation work permits to minimize the potential for encountering contaminated media. Excavated soils would be managed in accordance with site procedures, policies (including the environmental media management policies (QP-450-01 and WV-939), and applicable regulatory requirements. The layout and construction of the proposed excavation would be designed to minimize the amount of contaminated environmental media generated. In an effort to reduce the amount of radioactive waste generated, clean debris is segregated from radioactively contaminated areas and debris. Radioactively contaminated tools are kept in contaminated areas for reuse rather than disposal at the completion of the activity.

5. **Hazardous Waste** - Maintenance activities performed on equipment containing hazardous materials, such as acids, hazardous and listed solvents, and heavy metals may require management as hazardous waste. Activities would be planned and performed using waste minimizing strategies to limit the generation of hazardous waste. Any hazardous waste would be sorted, characterized, stored, treated, and disposed of in compliance with applicable Resource Conservation and Recovery Act federal and New York state hazardous waste management regulations.
6. **Mixed Waste** - Mixed waste would only be generated within the WVDP retained premises. Characterized mixed waste streams are stored in interim status units, 90-day accumulation areas, or satellite accumulation areas. Activities would be planned and performed to minimize generation of mixed waste. Mixed waste would be stored and treated in compliance with applicable state and federal regulations, DOE Orders, and legal agreements (e.g., the RCRA Part A Permit and the Site Treatment Plan (WVDP-299) prepared in accordance with the WVDP Federal Facilities Compliance Act Consent Decree with New York State).
7. **Chemical Storage/Use** - Solvents and chemical cleaning agents may be used in some activities, including, but not limited to, janitorial and cleaning activities, parts cleaning, and cleaning pipes for welding. Paint and sealants may be used as well. These chemicals will be properly stored prior to and between recurrent use. Any spilling or leaking of these chemicals must be immediately reported to the CHBWV Plant Systems Operations. Appropriate spill response actions will be developed and implemented depending on the chemicals involved in the spill. CHBWV Regulatory Strategy will be notified by Operations and timely DOE and regulatory notifications will be made in accordance with site policy (WV-915) and applicable regulations.
8. **Petroleum Storage/Use** - Petroleum products to support maintenance activities (i.e., gasoline or diesel-powered equipment) are stored in on-site storage tanks. These tanks are monitored and inspected in accordance with WVDP procedures. All petroleum storage and use (both on and off the WVDP retained premises) will be done in a manner that will minimize environmental impacts. Steps taken will include a documented leak inspection program. Spill kits will be readily available in the event of a spill or release. Spills or releases of petroleum products shall be immediately reported by the person discovering the spill to CHBWV Plant Systems Operations who will notify Regulatory Strategy. All cleanup materials will be collected and properly disposed of by CHBWV Waste Operations. Timely regulatory and DOE notifications will be made in accordance with WVDP policies and procedures (WV-915 and WVDP-340) and New York State agreement reporting criteria.
9. **Asbestos** - Some maintenance activities involve the removal of asbestos-containing materials (ACM). The quantity of asbestos removed would be included in the Notification of Asbestos Removal submitted to the Environmental Protection Agency and New York State Department of Labor. All asbestos waste would be handled, packaged, and disposed in compliance with federal and state regulations, DOE Orders, and the WVDP asbestos management procedures. Projects involving greater than 25 linear feet or 10 ft<sup>2</sup> of asbestos would be reviewed for State and/or Federal notification requirements. Asbestos waste would be sent to a properly permitted solid waste landfill for disposal. If radioactively contaminated ACM is generated, it would be managed as discussed above in Section B.4, Radioactive Waste/Soil.
10. **Utilities** - In conjunction with the use of record drawings of underground utilities within the WNYNSC, an electronic line locator would be used to locate underground utilities. These locations are then marked on the ground. Excavation by hand instead of using powered excavation equipment would take place within two feet of a known underground utility in accordance with the associated Ground Disturbance Permit.



11. **Clearing/Excavation** - To repair or replace buried piping, wire conduit, or other system components, some excavation would be required. No environmentally sensitive areas would be disturbed that would complicate or prohibit future remediation. As noted above, soils and environmental media generated during clearing and excavation are characterized and managed in accordance with environmental media policies (QP-450-01 and WV-939). The removal or paving of existing vehicle usage areas would not cause additional ground disturbances. Removal of concrete slabs would involve a minimal excavation that may be needed to re-grade the disturbed area.
12. **Water Use/Diversion** - Activities would be performed on water systems, including the groundwater water supply system. If maintenance activities occur within designated wetlands areas or boundaries, CHBWV would obtain any required permits from New York State and the U.S. Army Corps of Engineers. Activities are expected to fall under the Nationwide Permit #3, "Maintenance." Disturbed areas would be restored.
13. **Water Treatment** - The water for the WVDP operations is piped from the water supply wells and potentially from the WVDP Reservoir System. Potable water from the water supply wells is treated to meet drinking water standards. The WVDP drinking water system is permitted by New York State and is overseen by the Cattaraugus County Health Department. (See also Section B.2 concerning treatment of WVDP wastewaters).
14. **Waterway Course Modification** - Waterways throughout the WNYNSC would include drainage ditches, storm water piping, catch basins, and culverts. Inspections during site storm water runoff episodes and periods of snowmelt can lead to the need for minor modifications and improvements to the storm water drainage system. This can include ditch modifications, cleaning/removal of debris, installation of culvert pipes, earthen slope maintenance and repair and improvement of soil erosion controls. The appropriate erosion controls including, but not limited to, backfill for replacement of eroded materials and soils and mulch (such as straw) cover on newly seeded grassed areas would control potential soil erosion and siltation of the waterways. For segments of the site drainage system that encroach regulated wetlands and associated buffer areas, Clean Water Act permits or exemption from permitting may be required for work in these areas.
15. **Radiation/Toxic Chemical Exposure** - Maintenance activities would include work in radiologically controlled areas. Although individual exposures would depend upon the duration of the activity and the proximity of the worker performing the activity to a source of radiation (e.g., waste containers, process tanks and piping), all exposures would be maintained to As Low As Reasonably Achievable levels and in compliance with applicable State and Federal regulations and DOE Orders as implemented by the WVDP Radiological Controls Manual (WVDP-010). Worker exposure is limited by guidance provided in the WVDP Radiological Controls Manual, WVDP Industrial Hygiene and Safety Manual and by Standard Operating Procedures. Radiation dose limits to WVDP employees will be maintained to within the Administrative Control Levels specified in the Radiation Controls Manual.
16. **Pesticide/Herbicide Use** - The types of pesticides and herbicides and the methods of application employed at the WVDP are controlled by federal and state laws, rules, and regulations. Pesticides and herbicides are applied at the WVDP in accordance with these requirements through Standard Operating Procedures. "Restricted Use" and "General Use" pesticides and herbicides are only applied at the WVDP by certified applicators, typically employed by a pesticide application business under subcontract to CHBWV. The application of rodenticide at the WVDP is performed in accordance with animal control operation procedures. Additionally, EPA and NYSDEC approved mold remediation products will be utilized as needed in accordance with the WVDP Mold Remediation license issued by the NYSDEC. NYSDEC approved disinfection products for COVID-19 or other viruses will be used as needed. These products do not require a NYS Pesticide license. If needed, water and wastewater treatment chemicals (e.g., algaecides and fungicides) receive prior approval for use from NYSDEC in accordance with the WVDP SPDES permit.
18. **Transportation** - Maintenance activities will include shipments of materials onto and off of the WVDP and associated facilities. Among other things shipments will include wastewater and waste to authorized treatment and disposal facilities and shipments of soils, materials, and equipment to the WVDP. All shipments will comply with state and federal Department of Transportation regulations and requirements. Material shipments will not have significant impacts to public roads and transportation systems.

- 19. Noise Levels** - Maintenance and repair actions, such as cutting, grinding, welding, and hammering, may result in increased noise levels near the activity. The noise levels would be of short duration and probably would not exceed 85 dB. PPE (hearing protection) will be required per Occupational Safety and Health Administration requirements and DOE Orders during activities expected to generate elevated noise levels.

### **SECTION C. CATEGORY EVALUATION CRITERIA:**

**1. Take place in an area of previous or on-going disturbance?** Yes.

All routine maintenance activities shall occur solely within areas of previous or ongoing disturbance at the WVDP and Western New York Nuclear Service Center.

**3. Impact a RCRA-regulated unit or facility?** Yes

Routine maintenance activities will be required in WVDP RCRA regulated units. All interim status units at the WVDP are authorized to treat and store hazardous, mixed and universal wastes in accordance with the WVDP Part A Permit and New York State hazardous waste regulations. Routine maintenance activities will not impact the regulatory status of these units or result in an increase in authorized storage or treatment capacities. They will not require siting, construction or major expansion of RCRA units. Nor will these activities disturb pollutants, contaminants, petroleum and natural gas products that may exist in the environment.

### **SECTION D. RECOMMENDATION AND DETERMINATION:**

A Categorical Exclusion (CX) is recommended for the proposed action. The routine maintenance activities described in this environmental checklist fall within the class of actions described in Title 10, Code of Federal Regulations (CFR) Part 1021, as Amended, Subpart D, Appendix B, CX B1.3, "Routine maintenance."

### **REFERENCES**

"Management of Environmental Media," WV-939, Revision 6 (or latest revision), June 21, 2017

"Spill/Release Evaluation, Management, and Reporting Program," WVDP-340, Rev. 7 (or latest revision), September 18, 2017

"Spill/Release Notification and Reporting," WV-915, Rev. 13 (or latest revision), December 3, 2018

"WVDP Site Treatment Plan Fiscal Year 2019 Update," WVDP-299, Rev. 28 (or latest update), January 22, 2020

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New York State Department of Environmental Conservation, "West Valley Demonstration Project (WVDP) Administrative Order on Consent," August 27, 1996

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U.S. Department of Energy, “Final Environmental Impact Statement: Long-Term Management of Liquid High-Level Radioactive Wastes Stored at the Western New York Nuclear Services Center, West Valley,” DOE/EIS-0081, June 1982

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“Finding of No Significant Impact Proposed Decontamination, Demolition, and Removal of Certain Facilities at the West Valley Demonstration Project,” September 14, 2006

“Western New York Nuclear Service Center Phased Decisionmaking Alternative Technical Report, December 22, 2009

“Final Environmental Impact Statement for Decommissioning and/or Long-Term Stewardship at the West Valley Demonstration Project and Western New York Nuclear Service Center,” DOE/EIS-0226, January 2010

“Record of Decision: Final Environmental Impact Statement for Decommissioning and/or Long-Term Stewardship at the West Valley Demonstration project and Western New York Nuclear Service Center,” April 14, 2010

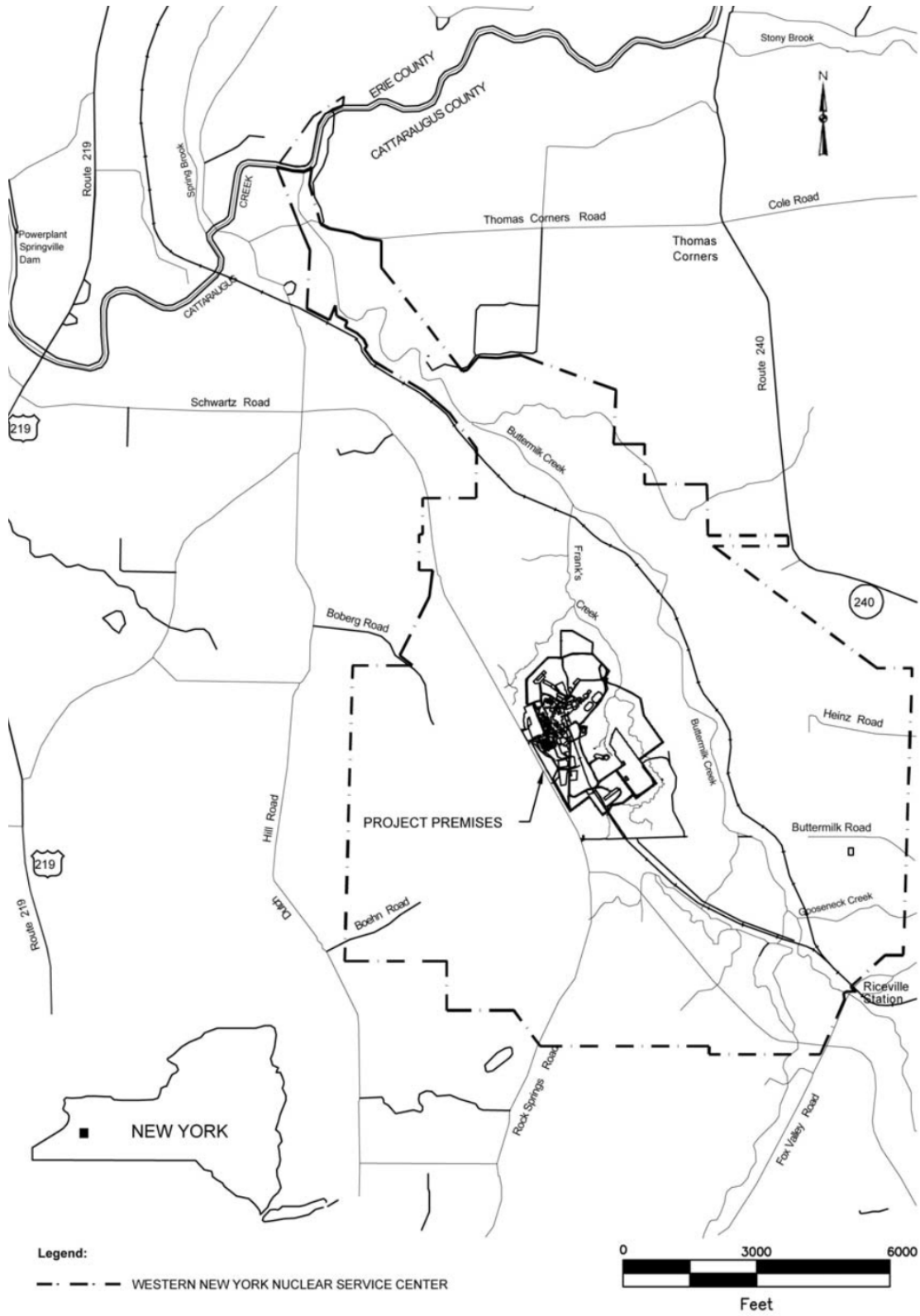
“National Environmental Policy Act Implementing Procedures; Final Rule,” 10 CFR Part 1021, January 1, 2019

“Management of Environmental Media – Phase 1 Decommissioning of the West Valley Demonstration Project,” QP-450-01, Rev. 1 (or latest revision), October 21, 2014

U.S. Department of Energy - Environmental Management Consolidated Business Center, “Contract Award;” Contract Number DE-EM0001529, Solicitation Number DE-SOL-0002084, Issued to CH2M HILL B&W West Valley, LLC; June 29, 2011

U.S. Department of Energy and New York State Energy Research and Development Authority, “Cooperative Agreement Between United States Department of Energy and New York State Energy Research and Development Authority on the Western New York Nuclear Service Center at West Valley, New York” effective October 1, 1980, as amended

**FIGURE 1**  
**Location of the Western New York Nuclear Service Center**

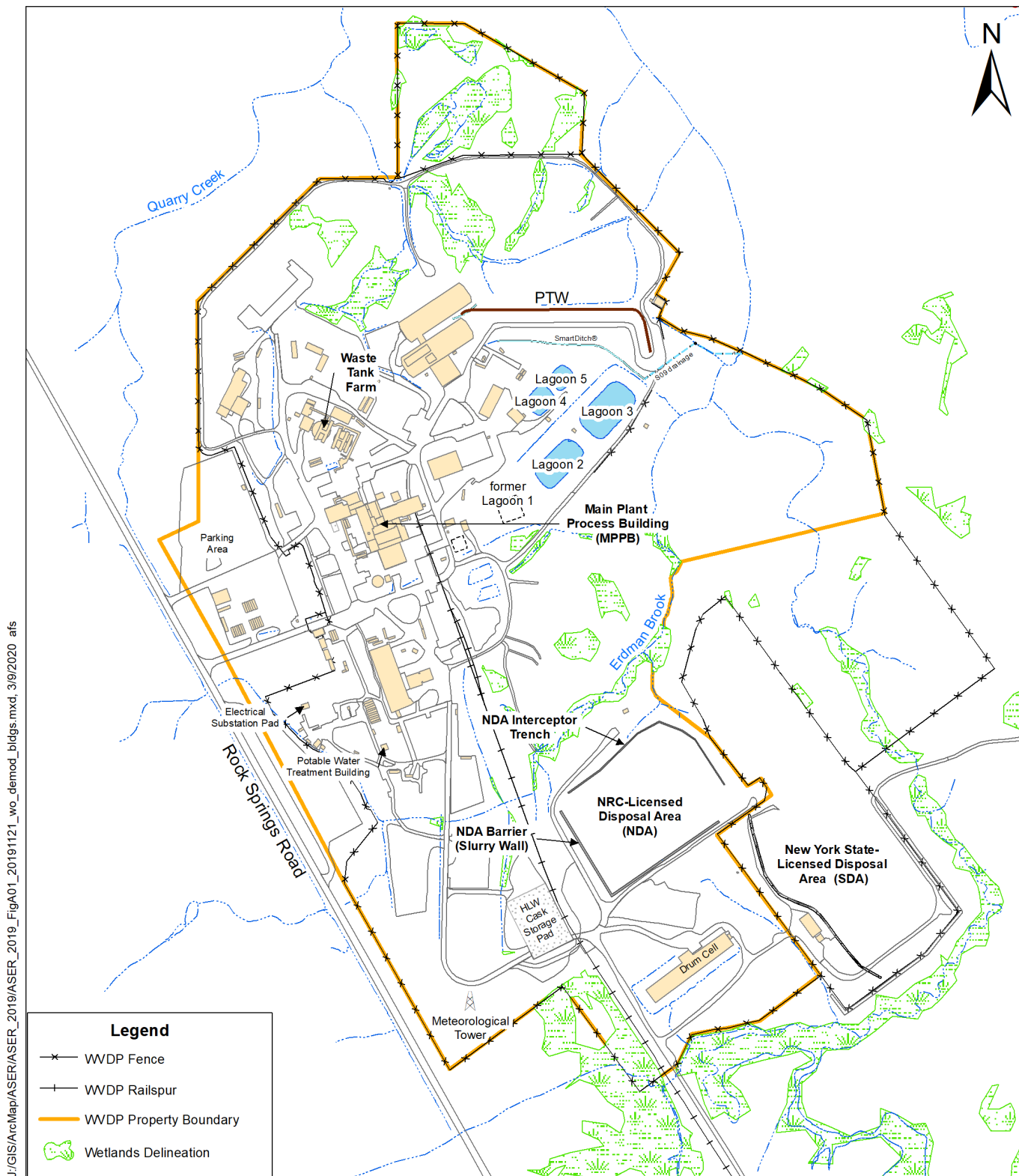


**FIGURE 2**  
**Location of the WVDP and Areas Being Utilized by the WVDP**





**FIGURE 3**  
**West Valley Demonstration Project Base Map**



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