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

December 21, 2009

Mr. John G. McKibbin
President & Project Manager
West Valley Environmental Services LLC
10282 Rock Springs Road
West Valley, NY 14171-9799

ATTENTION: C. A. Biedermann, Regulatory Strategy Manager, AC-EA

SUBJECT: Environmental Checklist WVDP-2009-08, "Construction and Operation of System for Decontamination of 8D-4 Liquid"

REFERENCE: Letter WD:2009:0452 (101747), C. A. Biedermann to B. C. Bower, "Transmittal of Environmental Checklist WVDP-2009-08, 'Construction and Operation of System for Decontamination of 8D-4 Liquid,'" dated December 3, 2009

Dear Mr. McKibbin:

I have reviewed the subject Environmental Checklist and agree that the actions described therein are categorically excluded per Title 10, Code of Federal Regulations (CFR) Part 1021, as Amended, Appendix B to Subpart D, CX B1.28. Enclosed is 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 on Extension 4159.

Sincerely,

Catherine Bohan

Catherine M. Bohan,
National Environmental Policy Act Compliance Officer
West Valley Demonstration Project

Enclosure: Signed Environmental Checklist

cc: J. M. Moore, DOE-HQ, EM-52, FORS, w/enc.
M. S. Bellis, DOE-EMCBC, WV-DOE, w/enc.
C. M. Bohan, DOE-EMCBC, AC-DOE, w/enc.
J. M. Dundas, DOE-WVDP, AC-DOE, w/enc.
M. N. Maloney, DOE-WVDP, AC-DOE, w/enc.
J. R. Gerber, WVES, AC-ESHQ, w/enc.
J. J. Hoch, WVES, AC-MP3, w/enc.

CMB:101802 - 451.4

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

ENVIRONMENTAL CHECKLIST

Project/Activity Title: Construction and Operation of System for Decontamination of 8D-4 Liquid	**NEPA ID Number:** WVDP-2009-08 **Rev. #:** 0 **Date:** 10/27/09
Contractor Project Manager: D. C. Meess	**Phone Number:** (716) 942-4950
Contractor NEPA Coordinator: J. J. Hoch	**Phone Number:** (716) 942-2409
DOE-WVDP NEPA Document Manager: C. M. Bohan	**Phone Number:** (716) 942-4159

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."
(see attachment)

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? (i.e., require any federal, state or local permits, approvals, etc.)?		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; flood plains 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."
(see attachment)

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 § 1021, Subpart D, and/or DOE Policy and Guidance for the following:

[X] Categorical Exclusions (Appendix B, Class of Action B 1.28)
[ ] Actions Within the Scope of Existing NEPA Documentation (NEPA Document ID Number_____)
[ ] *On-going Operations* (Standard Operating Procedure OH-6.1.01, Rev. 1, Section 5.2)

Signature: _____ Date 12-17-2009
Director, West Valley Demonstration Project (WVDP),
Department of Energy

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 may proceed without further NEPA review.

Signature: Catherine Bohan Date 12-17-09
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 § 1506.1 and 10 CFR § 1021.211)
[ ] Integrated Documentation for CERCLA/RCRA Actions
[ ] Variances (Emergency Action, 40 CFR § 1506.11 and 10 CFR § 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 Head of the Director of the West Valley Demonstration Project (DOE Order 451.1A, 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

ATTACHMENT to

Environmental Checklist WVDP-2009-08

Attachment to Environmental Checklist WVDP-2009-08
Construction and Operation of System for Decontamination of 8D-4 Liquid

A. BRIEF PROJECT/ACTIVITY DESCRIPTION:

A.1 Tank 8D-4 Liquid Decontamination System Purpose and Need

The **purpose** of the Tank 8D-4 Liquid Decontamination System is to remove Cs-137 from liquids stored within that tank. Proposed future work scope is to solidify the liquid presently residing in Tank 8D-4 or alternatively send it to Tank 8D-2 for evaporation by the Tank & Vault Drying System. In order to use a contact handling solidification process which is proposed to be in place at the WVDP, or to be compatible with the contents of Tank 8D-2, Cs-137 needs to be removed from the 8D-4 liquid. (See Figure 1 for a simplified process flow diagram.). The need has been identified to decontaminate 8D-4 liquid prior to solidification or evaporation. Refer to West Valley Environmental Services (WVES) purchase order #19-000718, most recent, with attachments; as well as WVES Summary Design Criteria (SDC)-130 and WVES Functional Requirements Document (FRD)-047.

The **need** is for U.S. Department of Energy (DOE) to continue to fulfill its obligations under the West Valley Demonstration Project (WVDP) Act to manage and mitigate health, safety, and environmental risks associated with the WVDP, pending decision making on final project decommissioning.

A.2 Background

The underground storage tanks, 8D-4 and 8D-3, in the Waste Tank Farm were originally used, respectively, for the storage of high-level radioactive waste after fuel reprocessing and as spare storage capacity. During Supernatant Treatment System operations Tank 8D-3 was utilized as a holding tank for decontaminated supernatant. Tank 8D-4 contained THOREX waste that was included in the vitrification feed along with flush from 8D-4. As a result of vitrification processing, Tank 8D-4 contains liquid byproduct waste from the vitrification system and analytical waste from the Main Plant Process Building. These fluids came from various transfers including flushes of the primary vitrification system vessels and cell sumps. The liquid in the tank 8D-4 requires Cs-137 removal prior to solidification or evaporation.

The decontamination of 8D-4 liquids is to be accomplished within the Supernatant Treatment System (STS) Valve Aisle, in the STS building. The general location and arrangement of the STS building and Valve Aisle are shown in Figure 2, as are the locations of Tanks 8D-4 and 8D-3. Tanks 8D-4 and 8D-3 are underground stainless steel tanks, 12 feet in diameter and about 16 feet high. They are contained within a common vault.

A.3 Detailed System Description

The system is to be a series of demineralizers containing zeolite, through which the liquid will be processed. The demineralizers and associated equipment will be located in the STS Valve Aisle. The goal of the process is to achieve a Decontamination Factor (DF) of 800 for Cs-137 and reduce the concentration to less than 1 uCi/ml.

The system is currently in the Preliminary Design phase. The demineralizer units, along with all associated equipment, shielding, and handling equipment inside and outside of the STS Valve Aisle will be fabricated off-site. The actual installation will be done by WVES personnel with technical support from the design team.

The 8D-4 liquid will be pumped from Tank 8D-4 through the 8D-3 pump pit and up to the STS Valve Aisle, this pathway is to be designed and installed by WVES. At the valve aisle existing back wall block connectors will be used to connect to the demineralizers. The preliminary design for this system includes a pre-filter, and from two (2) to four (4) demineralizers in series. Sampling

capabilities will be designed into the system. All process activities, including sampling and dewatering, will be accomplished remotely, from the STS Operating Aisle.

After processing the liquid in 8D-4, the tank will be flushed with approximately 2,000 gallons of water. The flush liquid will be processed as required through the demineralizers and also collected in 8D-3 or sent to 8D-2 for evaporation. The combined liquid residing in 8D-3: 8D-3 original heel, 8D-4 decontaminated liquid and 8D-4 decontaminated flush liquid if required, will be available for future solidification or evaporation.

The demineralizers will be flushed, dewatered, sampled if necessary, and removed from the valve aisle through the top hatch. They will be pulled individually into shielding, as required, and shipped off site for disposal.

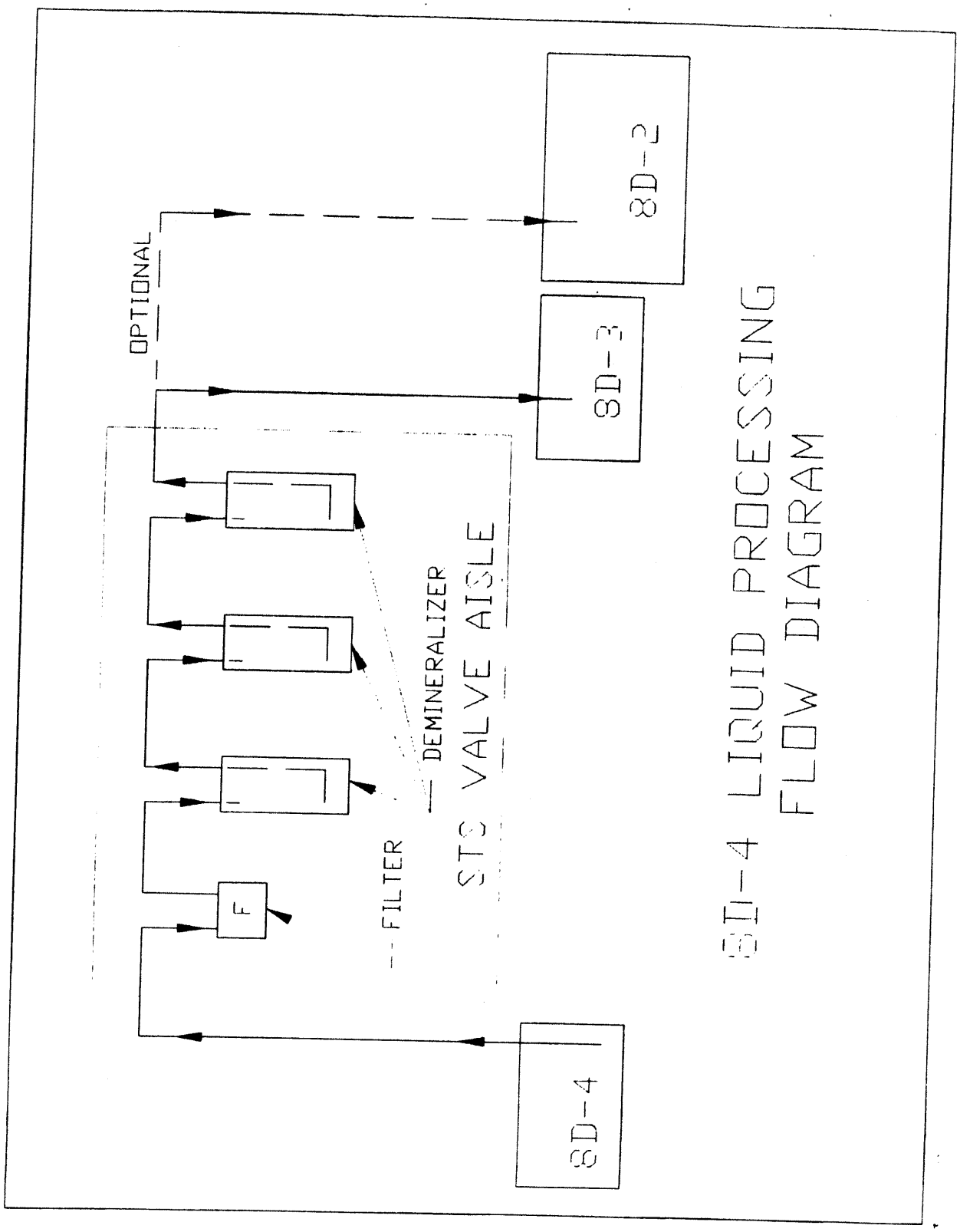

Figure 1 - Simplified Process Flow Diagram

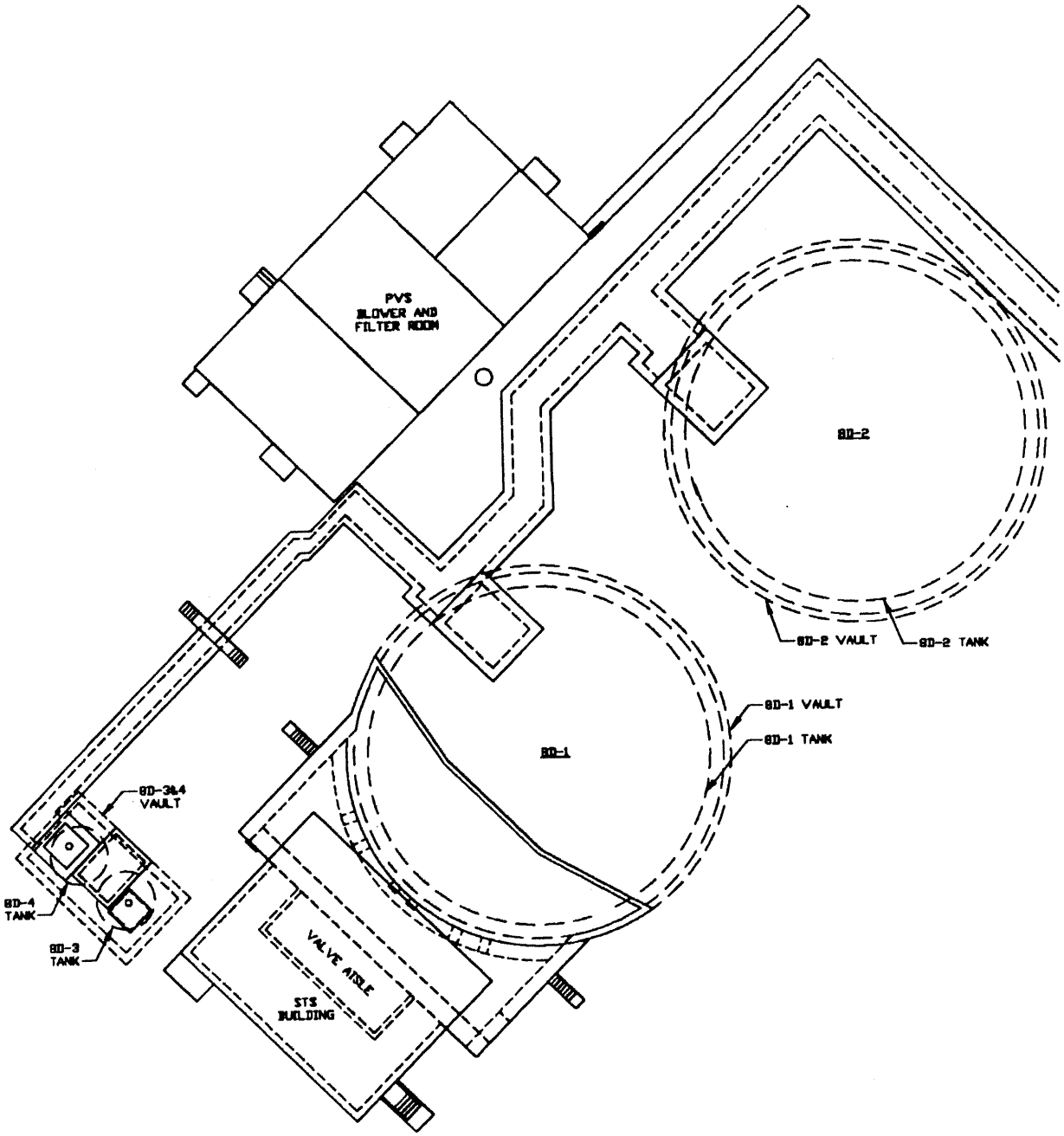

Figure 2 - General Arrangement of STS Building including Valve Aisle

A.3 Schedule and Timing

Fabrication is to begin early in calendar year 2010, after final design of the system. It is anticipated that the system will be operational by October 2010 after installation and appropriate system testing.

It is currently anticipated that the system will operate through December 2010.

B. SOURCES OF IMPACT

1. Air Emissions: Radioactive air emissions at DOE facilities are regulated in New York State by the EPA pursuant to 40 Code of Federal Regulations (CFR) part 61, "National Emission Standards for Hazardous Air Pollutants" (NESHAP), Subpart H. Similarly, nonradioactive emissions are regulated by the New York State Department of Environmental Conservation (NYSDEC) pursuant to Title 6 of the New York Compilation of Codes Rules and Regulations (NYCRR) Part 201.

   Process air from the STS Valve Aisle is treated through the Permanent Ventilation System (PVS). Tanks 8D-4 and 8D-3 also vent through the PVS.

   A rad-NESHAP evaluation was performed and documented relative to potential radiological air emissions of the subject activity based on design information received to date. It concluded that no request for approval needs to be submitted to the USEPA, because in accordance with the requirements of 40CFR6I subpart H, section 61.96, the annual dose (the EDE, calculated based on maximum abated emissions) to the maximally exposed off-site individual (the MEOSI) is not calculated to exceed the dose threshold of 0.1 mrem. Therefore this activity would be judged to be exempt from the need for approval under this section of subpart H. In addition, the intended activity falls within the bounds of original permit documentation for the Supernatant Treatment System/Permanent Ventilation System (STS/PVS) so that there is no need for a change in a permit condition. As a major point of emissions, the STS/PVS is already continuously monitored and is considered "grandfathered" under 2002 amendments to 40CFR61, subpart H, with regard to new monitoring requirements imposed (vis a vis ANSI/HPS N13.1-1999.) This rad-NESHAP evaluation should be revisited based on final design information.

   The operation of diesel-powered excavation and grading vehicles, such as backhoes would generate minor carbon monoxide and carbon dioxide emissions during the installation of a platform outside of STS building roll-up door. Additionally, torch or plasma arc cutting may be used, resulting in air emissions which will be reviewed by Environmental Affairs to ensure compliance with New York State regulations. It is not anticipated that any non-radiological air emission permits would be required.

2. Liquid Effluents:

   Should this project generate any wastewaters, the wastes would be managed in accordance with standard operating procedure (SOP) 300-15, "Disposition of Liquid Waste to the Interceptor," and properly disposed of through existing WVDP systems and NYSDEC regulations for SPDES discharges. If any higher activity (radiological) wastewaters are generated, they would be transferred to on-site tanks for storage until an approved on- or off-site treatment option is available.

3. Solid Waste: Solid waste anticipated as a result of the proposed action would consist of construction debris (e.g., concrete, metal, wood, plastic, and paper). These wastes would be managed for disposal, as specified in SOP 09-12, "Solid Waste Management and Material Reuse and Recycling." Solid waste might also be generated from job mockups, although as much material, from mockups, as possible would be re-used.

4. Radioactive Waste/Soil: Radioactively contaminated materials may be generated during construction and/or operation of the system. Site policies and procedures, such as the WVDP "Radiological Controls Manual" (WVDP-010), would be followed to address the monitoring, identification, control and containment of radioactively contaminated materials.

   Radioactive waste generated as a result of this activity could include, but may not be limited to, "anti-Cs," gloves, wipes, swipes, unusable empty containers, piping, and air filters. Radioactive waste generated as a result of these activities would be packaged and managed in accordance with SOP 300-07, "Waste Generation, Packaging, and On-Site Transportation." The collection and management of spilled waste would be handled in accordance with existing site procedures.

5. Hazardous Waste: The potential exists that hazardous waste could be generated from the use of equipment or from unanticipated conditions associated with line breaks. Any hazardous waste generated would be handled according to regulatory requirements and on-site procedures. Notification under the RCRA regulations was provided through a modification to the site's RCRA Part A Permit application transmitted to NYSDEC on December 18, 2008.

6. Mixed Waste: The potential exists that residual chemical wastes could be contained in contaminated piping. Chemically contaminated components would be characterized and dispositioned according to on-site procedures.

7. Chemical Storage/Use: The action would include (based on the conceptual design) installation of zeolite UOP IE-96 filled waste containers (ion exchange columns). Disposal of excess zeolite would be performed in accordance with site policies and procedures. Miscellaneous small quantities of various construction supplies may also be stored at the work site (e.g., welding rods).

8. Petroleum Storage/Use: Only small quantities would be used, associated with construction equipment executing the approved scope of work. Existing site policies and procedures controlling the use of such equipment would be in effect. Any above ground tankage would be double contained.

9. Asbestos: N/A

10. Utilities: Prior to dismantling or segmenting any components, utilities to the component (e.g., sources of water, electric power, steam) may be disconnected to ensure the safety of personnel involved. Unused electrical and instrumentation components may be removed and process piping may be cut, isolated and/or removed where present. Ventilation systems would remain intact. Existing utility lines would be extended as needed to provide electric power, air, and water supply as needed.

11. Clearing/Excavation: Excavation may be required during the installation of a platform outside of STS building roll-up door. Excavation of potentially contaminated material would be performed in accordance with the approved scope of work. This excavation would be performed with the appropriate excavation equipment and in compliance with the health, safety and radiation control procedures and plans. Controlled staging and work areas would be established for the excavated material.

12. Water Use/Diversion: Water would be obtained if needed from the existing site utility water source.

13. Water Treatment: As stated under Source of Impact 2. Liquid Effluents.

14. Water Course Modification: N/A

15. Radiation/Toxic Chemical Exposure: Exposure to radiological materials is anticipated.

Regarding work in radiologically controlled areas, and if contamination is encountered, personnel exposures would be maintained as low as reasonably achievable (ALARA) and in compliance with federal and state regulations and DOE Orders. Worker exposure is limited by guidance provided in the WVDP-010, "Radiological Controls Manual," WVDP-011, "Industrial Hygiene and Safety Manual," and SOP 15-14, "Entry Into and Exit from Radiologically Contaminated Areas." The individual dose to all workers would not exceed the administrative control limits referenced in WVDP-010. Chemical exposure to site personnel is assessed and monitored in accordance with the WVDP-215, "Industrial Hygiene and Safety Exposure Assessment and Monitoring Plan" and WVDP-011.

16. Pesticide/Herbicide Use: N/A

17. High Energy Source/Explosive: N/A

18. Transportation: Radiation levels for all repackaged waste will be within applicable Federal DOT limits and requirements as specified in 49 CFR Parts 173 and 177. Waste containers will be transported on-site in accordance with SOP 300-07, "Waste Generation, Packaging and On-site Transportation." Before any radioactive waste container could be transported off-site, it will meet the packaging requirements for radioactive materials set forth in 49 CFR Part 173, "Subpart I – Radioactive Materials," and 10 CFR Part 71, "Packaging and Transport of Radioactive Material."

    Additionally hazardous and mixed waste shipments will meet the manifesting requirements set forth in 40 CFR Part 262, "Standards Applicable to Generators of Hazardous Waste" and 6 NYCRR 372, "Hazardous Waste Manifest System and Related Standards for Generators, Transporters and Facilities." All waste shipments would be in accordance with the requirements for shipments specified in 49 CFR Part 100 – 177, "Transportation," and 6 NYCRR Part 381, "Transporters of Low-Level Radioactive Waste."

19. Noise Level: There might be an increase in noise levels typical of mechanical construction methods Noise levels are not anticipated to exceed 97 dBA. Hearing protection would be used if necessary, as monitored and prescribed by the contractor's (or site) cognizant safety personnel. Applicable federal and state regulations, and DOE Orders, as implemented by contractor safety procedures, would be observed during the work.

20. Workforce Adjustment: This project would result in a temporary increase of less than five contractor employees to the WVDP workforce intermittently during the project. This represents a less than 10% increase in current site population and would not encroach upon site services (e.g., parking, sewage treatment).

21. Other: N/A

C. CATEGORY EVALUTION CRITERIA

1. **Take place in an area of previous or on-going disturbance?** Yes, the proposed action would take place in an area of previous and on-going disturbances (see Figure 2).

2. **Create hazardous, radioactive or mixed waste for which no disposal is available?** No, disposal options are available for all wastes likely to be generated.

3. **Impact a RCRA-regulated unit or facility?** The WTF (including the STS Valve Aisle) is a RCRA-regulated interim status treatment and storage facility composed of several tank treatment and storage systems. A modification to the WVDP Interim Status (Part A) Permit Application has been submitted to the NYSDEC, which included a description of the proposed new 8D-4 Liquid Decontamination System as a new RCRA-regulated treatment activity. The WTF is also a Solid Waste Management Unit under the WVDP RCRA 3008(h) Order on

Consent. To date, there have been no documented releases of hazardous waste (including mixed waste) or hazardous waste constituents associated with WTF operations (including the STS Valve Aisle). Additionally, all spills in the vicinity of the WTF have been documented and remediated.

4. **Force a low income or ethnic minority population to shoulder a disproportionate share of the negative environmental impacts:** No.

5. **Involve air emissions and be located in an air pollutant non-attainment or maintenance area for any criteria pollutants?** No.

6. **Threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health, including DOE and/or Executive Orders?** No. Notification under the RCRA regulations was achieved through a modification of the WVDP Part A Permit application submitted to NYSDEC on December 18, 2008.

7. **Disturb hazardous substances, pollutants or contaminants that pre-exist in the environment such that there would be uncontrolled or unpermitted releases?** No.

8. **Require siting, construction, or major expansion of a waste storage, disposal, recovery, or treatment facilities, but may include such caterogorically-excluded facilities?** No.

9. **Adversely affect environmentally sensitive resources?** No.

10. **Involve extraordinary circumstances?** No.

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?** No.

SECTION D. RECOMMENDATION AND DETERMINATION

A Categorical Exclusion (CX) is recommended for the proposed action. A CX should be granted on the basis that the proposed action is within the scope of 10 CFR 1021, as amended, Subpart D, Appendix B, B1.28, "Minor activities that are required to place a facility in an environmentally safe condition where there is no proposed use for the facility. These activities would include, but are not limited to, reducing surface contamination, and removing materials, equipment or waste, such as final defueling of a reactor, where there are adequate existing facilities for the treatment, storage, or disposal of the materials, equipment or waste. These activities would not include conditioning, treatment, or processing of spent nuclear fuel, high-level waste, or special nuclear materials."

The proposed action falls within the scope and intent of the categorical exclusion identified above. In addition, the proposed action satisfies the general requirements for a categorical exclusion. There are no extraordinary circumstances related to the proposed action, other than explained above, that would affect the significance of the action, and the action is not "connected" to other actions with potentially or cumulatively significant impacts (40 CFR 1508.25(a)(1) and (2), respectively.

Moreover, the proposed action meets the eligibility criteria for application of a categorical exclusion in that the action would not: 1) threaten a violation of applicable statutory, regulatory or permits requirements for environmental, safety, and health, including all requirements from DOE Orders; 2) require siting and construction or major action of waste storage, disposal, recovery, or treatment facilities; 3) adversely affect environmentally sensitive resources; and 4) disturb hazardous substances, pollutants, contaminants or Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)-excluded petroleum and natural gas products that pre-exist in the environment such that there would be uncontrolled or unpermitted releases.

SUPPORTING DOCUMENTATION

10 CFR Part 71	U. S. Department of Energy, "Packaging and Transport of Radioactive Material," Current Revision
10 CFR 1021	U. S. Department of Energy, "National Environmental Policy Act Implementing Procedures," Current Revision
29 CFR 1926.1101	U. S. Occupational Safely and Health Administration, "Toxic and Hazardous Substances," Subpart Z, Asbestos, Current Revision
40 CFR 61	U. S. Environmental Protection Agency, "National Emission Standards for Hazardous Air Pollutants" (NESHAP), Subparts A, H, and M," Current Revision
40 CFR 262	U. S. Environmental Protection Agency, "Standards Applicable to Generators of Hazardous Wastes," Subpart B, Current Revision
40 CFR 1500 - 1508	U.S. Council on Environmental Quality, "Council on Environmental Quality Regulations for Implementing the Procedural Provisions of the National Environmental Policy Act," Current Revision
49 CFR 100 – 177	U. S. Department of Transportation, "Transportation," Current Revision
DOE/EH-0173T	U.S. Department of Energy "Environmental Regulatory Guide for Radiological Effluent Monitoring and Environmental Surveillance."
DOE/EIS-0081	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," dated June 1982
DOE/EIS-0226-D	U.S. Department of Energy,"Revised Draft EIS for Decommissioning and/or Long-Term Stewardship at the West Valley Demonstration Project and Western New York Nuclear Service Center," dated December 2008
DOE G 430.1-4	Decommissioning Implementation Guide, dated August 2, 1999
DOE Order 435.1 2001	U. S. Department of Energy, "Radioactive Waste Management," dated August 28,
DOE Order 450.1A	U.S. Department of Energy, " Environmental Protection Program," dated June 4, 2008
DOE Order 451.1B	U.S. Department of Energy, "National Environmental Policy Act Compliance Program," dated September 28, 2001
DW:2000:0132	M. N. Maloney to R. R. Campbell, "January 31, 2000 Meeting - U. S. Department of Energy and New York State Department of Environmental Conservation," dated February 16, 2000
DOE	West Valley Demonstration Project Site Environmental Report (recent version), as published by DOE
NY-0000973	New York State Department of Environmental Conservation, "State Pollutant Discharge Elimination System (SPDES) Discharge Permit for the West Valley Demonstration Project," Current Revision

6 NYCRR Parts 370-376	New York State Department of Environmental Conservation, "Chapter IV - Quality Services, Subchapter B - Solid Wastes," dated May 14, Current Revision
6 NYCRR Part 381	New York State Department of Environmental Conservation, "Transporters of Low-Level Radioactive Waste," Current Revision
12 NYCRR Part 56	New York State Department of Labor, "Asbestos," Current Revision
Public Law 96-368	U. S. Congress, West Valley Demonstration Project (S.2443), dated October 1, 1980
SOP 000-43	West Valley Nuclear Services Company, " Access Control of High and Very High Radiation Areas," Current Revision
SOP 2-18	West Valley Environmental Services LLC, "Low Level Waste Water (LLW2) Treatment," Current Revision
SOP 9-12	West Valley Nuclear Services Company, "Solid Waste Management and Material Reuse and Recycling," Current Revision
SOP 9-21	West Valley Environmental Services LLC, "Lag Storage Operations," Current Revision
SOP 15-14	West Valley Environmental Services LLC, "Entry Into and Exit from Radiologically Contaminated Areas," Current Revision
SOP 300-04	West Valley Environmental Services LLC, "Hazardous Waste Satellite Accumulation Areas," Current Revision
SOP 300-06	West Valley Environmental Services LLC, "Hazardous Waste Storage Facility Operations," Current Revision
SOP 300-07	West Valley Environmental Services LLC, "Waste Generation, Packaging and On-Site Transportation," Current Revision
SOP 300-15	West Valley Environmental Services LLC "Disposition of Liquid Waste to the Interceptor," Current Revision
SOP 300-25	West Valley Environmental Services LLC, "Hazardous Waste 90 Day Storage Area," Current Revision
WV-918	West Valley Environmental Services LLC, "Waste Minimization and Pollution Prevention Policy," Current Revision
WVDP-258-02	DOE Ohio Field Office, "National Environmental Policy Act Compliance OH-6.1.01," Revision 1, dated August 11, 1995
WVDP-010	West Valley Demonstration Project, "WVDP Radiological Controls Manual," Current Revision
WVDP-011	West Valley Demonstration Project, "WVDP Industrial Hygiene and Safety Manual, " Current Revision
WVDP-072	West Valley Demonstration Project, "Asbestos Management Plan," Current Revision

WVDP-087	West Valley Demonstration Project, "Waste Minimization/Pollution Prevention Awareness Plan," Current Revision
WVDP-098	West Valley Demonstration Project, "Environmental Monitoring Program Plan," Current Revision
WVDP-099	West Valley Demonstration Project, "Environmental Compliance Standards," Current Revision
WVDP-209	West Valley Demonstration Project, "Environmental Monitoring Procedures - EMPs," Current Revision
WVDP-214	West Valley Demonstration Project, "Environmental Monitoring Procedures - EMs," Current Revision
WVDP-215	West Valley Demonstration Project, "Industrial Hygiene and Safety Exposure Assessment and Monitoring Plan," Current Revision
WVDP-239	West Valley Demonstration Project, "Groundwater Monitoring Plan," Current Revision
WVDP-299	West Valley Demonstration Project, "Site Treatment Plan, Fiscal Year 2008 Update," or most recent revision
WVNS	West Valley Environmental Services, Purchase Order (PO) #19-000718, most recent, with attachments
WVES-FRD-047	West Valley Environmental Services, Functional Requirements Document (FRD), "Decontamination of 8D-4 Liquids," Rev. 1 or most recent revision
WVNS-SDC-130	West Valley Environmental Services, Summary Design Criteria (SDC), "Decontamination of 8D-4 Liquids," Rev. 1 or most recent revision