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Date: JAN 27 2020
Refer To: N3B-20-0007

Mr. Kevin Pierard, Chief
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303

Subject: Class 1 Permit Modification Request Requiring Prior Approval for Treatment in Containers for Los Alamos National Laboratory Hazardous Waste Facility Permit, EPA ID No. NM0890010515

Dear Mr. Pierard:

As directed by the New Mexico Environment Department (NMED), the purpose of this letter is to submit a request to the NMED Hazardous Waste Bureau (HWB) to add a treatment process at a permitted unit to the Los Alamos National Laboratory (LANL) Hazardous Waste Facility Permit (the Permit) issued to the U.S. Department of Energy (DOE); Triad National Security, LLC; and Newport News Nuclear BWXT-Los Alamos, LLC (N3B), collectively the Permittees. The enclosed permit modification request provides proposed revisions to text and figures in the Permit, Part 7, as well as Attachments A, B, C, E, G.10, J, and N.

This proposed permit modification request has been prepared in accordance with 40 Code of Federal Regulations (CFR) Section 270.42, "Permit Modification at the Request of the Permittee," paragraph (a). This modification request includes the addition of treatment in containers by stabilization (including absorption) and neutralization at one permitted storage unit. Item F.1.c in Appendix I, "Modifications Table," of 40 CFR 270.42 states that Permittees may submit a proposed Class 1 permit modification of a hazardous waste facility permit to add a treatment process necessary to treat hazardous wastes that are restricted from land disposal to meet some or all applicable treatment standards. It is necessary for the Permittees to treat legacy waste located at Technical Area 54 (TA-54), Area G, to remove the Resource Conservation and Recovery Act hazardous waste characteristics of ignitability, corrosivity, and reactivity. The treatment of the waste is intended to remove U.S. Environmental Protection Agency (EPA) Hazardous Waste Numbers D001, D002, and D003 (ignitability, corrosivity, and reactivity, respectively). The waste to be treated is also listed in the Site Treatment Plan (STP); this permit modification will facilitate off-site shipment of STP wastes requiring treatment.

The Permittees request adding a treatment process to TA-54, Area G, Pad 9, Dome 231 (TA-54-0231). Per 40 CFR 270.42, Appendix I, Item F.1.c., the Permittees may submit a proposed Class 1* (i.e., requires prior approval by NMED) permit modification to add a treatment process necessary to treat hazardous wastes that are restricted from land disposal to meet some or all applicable treatment standards.

This modification request includes adding treatment to stabilize containerized legacy mixed transuranic (MTRU) waste using neutralization and absorption methods at the TA-54-0231 permitted unit. This treatment modification is necessary to treat STP wastes within the STP Compliance Plan timeframe by September 30, 2022. This treatment process can be incorporated into the permit using a Class 1* modification request because the only changes to the permitted storage unit are related to the addition of the treatment process.

The Permittees must sort, size-reduce, segregate, and repack MTRU waste at TA-54 to meet the waste acceptance criteria for disposal at the Waste Isolation Pilot Plant located in Carlsbad, New Mexico. During this process, some wastes will require treatment using neutralization and absorption to remove EPA Hazardous Waste Numbers D001 and D002. In addition, some wastes will require the removal of aerosol cans to remove the D003 code. The aerosol cans that are removed will be removed/segregated from the waste stream and sent off-site for treatment and disposal.

The changes described within the request do not substantially alter the permitted container storage requirements or facility and only add permit conditions to describe the treatment process and associated waste management requirements. This permit modification request adds mobile equipment and treatment processes to an already existing permitted container storage unit, which has been previously used for processing and repackaging of waste. The storage capacity of the unit will not be increased by this permit modification, and the permit modification will not significantly change the overall waste processing operations at the facility. Past waste processing at the facility has included container repackaging, sorting, and segregating.

This permit modification request was prepared for review and approval by NMED pursuant to 20.4.1900 New Mexico Administrative Code, incorporating 40 CFR 270.42(a). Upon approval of this Class 1 permit modification request, the modification will be put into effect and notice will be sent to the NMED-HWB-maintained LANL facility mailing list in accordance with 40 CFR 270.42 (a)(1)(ii) within 90 days of approval of this request.

If you have comments or questions regarding this permit modification, please contact Emily Day at (505) 695-4243 (emily.day@em-la.doe.gov) or Arturo Duran at (505) 257-7907 (arturo.duran@em.doe.gov).

Sincerely,

Elizabeth Lowes
Program Manager
Environment, Safety and Health
N3B-Los Alamos

Sincerely,

Arturo Q. Duran
Compliance and Permitting Manager
Environmental Management
Los Alamos Field Office

Enclosure(s): Three hard copies with electronic files:
Class 1 Permit Modification Request Requiring Prior Approval for Treatment in Containers for Los Alamos National Laboratory Hazardous Waste Facility Permit, EPA ID No. NM0890010515 (EM2020-0024)

cc (letter and enclosure[s] emailed):
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ENCLOSURE 1

Class 1 Permit Modification Request Requiring Prior Approval for Treatment in Containers for Los Alamos National Laboratory Hazardous Waste Facility Permit, EPA ID No. NM0890010515

EM2020-0024

Class 1 Permit Modification Request Requiring Prior Approval for Treatment in Containers for Los Alamos National Laboratory Hazardous Waste Facility Permit, EPA ID No. NM0890010515

This document is a Class 1 permit modification request requiring prior approval for the Los Alamos National Laboratory (LANL) Hazardous Waste Facility Permit (the Permit) issued by the New Mexico Environment Department (NMED) Hazardous Waste Bureau to the U.S. Department of Energy (DOE), Triad National Security, LLC; and Newport News Nuclear BWXT-Los Alamos, LLC (N3B), collectively the Permittees, in November 2010. The U.S. Environmental Protection Agency (EPA) facility ID is NM0890010515. This Class 1 permit modification request has been prepared in accordance with 40 Code of Federal Regulations (CFR) Section 270.42, "Permit Modification at the Request of the Permittee," paragraph (a)(2), Appendix I, "Classification of Permit Modification," Item F.1.c. This regulation allows for the modification of a hazardous waste facility permit with prior approval from the regulatory agency to add a treatment process that is necessary for treatment of hazardous wastes that are restricted from land disposal to meet some or all applicable treatment standards.

This permit modification request proposes the addition of treatment processes at a permitted storage unit located at Technical Area 54, Area G, Pad 9, Building 231 (TA-54-0231), to remove the Resource Conservation and Recovery Act (RCRA) hazardous waste characteristics of ignitability, corrosivity, and reactivity (EPA Hazardous Waste Numbers D001, D002, and D003, respectively). This permit modification request was prepared for review and approval by NMED pursuant to 20.4.1.900 New Mexico Administrative Code, incorporating 40 CFR 270.42(a).

Background

The Permit was previously modified (LA-UR-16-24452; June 20, 2016) to include stabilization in containers at TA-50-0069, Indoor Permitted Unit. Part 7 was added to the Permit to describe the requirements for stabilization in containers at TA-50-0069. The proposed stabilization process at TA-54-0231 will be subject to the same requirements. Text describing the incorporation of the treatment processes for stabilization (including absorption) and neutralization in containers to remove D001, D002, and D003 waste codes at TA-54-0231 is proposed within the Hazardous Waste Permit "Attachment A, Technical Area (TA) – Unit Descriptions" (Attachment 1).

The primary type of hazardous waste stream to be treated is cemented waste, which may contain aerosol cans. Cemented wastes, in the LA-CIN01.001 waste stream, include waste containers holding cemented nitrate salt-bearing waste. Additionally, MHD01, MHD03, MHD09, MIN02, MIN03, and MIN06 may also be treated. The liquid within these containers has been characterized as hazardous waste with the characteristics of D001 and D002. The aerosol can waste includes waste containers with liquids, which has been characterized as hazardous waste with the characteristics of D001 and reactivity D003.

To remove the D003 code, aerosol cans will be removed/segregated from the waste stream and sent off-site for treatment and disposal.

The Permittees propose to conduct treatment by stabilization (including absorption) and neutralization at a permitted container storage unit located at TA-54, Area G, Pad 9 within Dome TA-54-0231. Waste containers will be transported from permitted container storage units within TA-54 to TA-54-0231 by flatbed trucks, closed-box trucks, or trailers. Dome TA-54-0231 has routinely been used for waste sorting, segregation, and size-reduction activities. To maintain safety and compliance, the activities necessary to treat these wastes have been extensively researched, and the path forward described herein has been established for the waste.

Information regarding the Permittees' recharacterization efforts, evaluation and testing of effective treatment methods, and evaluation of locations and physical methods to conduct treatment processes is provided in the following documents:

- DOE/WIPP (U.S. Department of Energy/Waste Isolation Pilot Plant), July 2017. "Basis of Knowledge for Evaluating Oxidizing Chemicals in TRU Waste," U.S. Department of Energy document DOE/WIPP-17-3589, Carlsbad, New Mexico. Note: This Basis of Knowledge (BoK) is from the "Transuranic Waste Acceptance Criteria for the Waste Isolation Pilot Plant, Appendix H, Enhanced Acceptable Knowledge," U. S. Department of Energy document DOE/WIPP-02-3122.
- Haschke, J., Allen, T., and Morales, L. "Surface and Corrosion Chemistry of Plutonium," *Los Alamos Science*, no. 26 (2000), 253-273.
- Jozefaciuk, G., Bowanko, G. "Effect of Acid and Alkali Treatments on Surface Areas and Adsorption Energies of Selected Minerals," *Clays and Clay Minera*ls 50, no. 6 (2002), 771-783.
- LANL (Los Alamos National Laboratory), March 2016. "Assessment of Options for the Treatment of Nitrate Salt Wastes at Los Alamos National Laboratory-16541," Los Alamos National Laboratory document LA-UR-15-29314, Los Alamos, New Mexico.
- LANL (Los Alamos National Laboratory), October 2017. "Summary Report of Comprehensive Laboratory Testing to Establish the Effectiveness of Proposed Treatment Methods for Unremediated and Remediated Nitrate Salt Waste Streams, Los Alamos National Laboratory document LA-UR-17-23322, Los Alamos, New Mexico.
- Schoen, J., June 12, 2017. "Chemical Compatibility Evaluation for Waste Stream LA-CIN01.001," AK Source Document CCE03, Revision 0. Note: The author is a Central Characterization Program (CCP) Acceptable Knowledge Expert.

Permit Modification Basis

This permit modification request has been prepared in accordance with the 40 CFR 270.42(a)(2), Appendix I, Item F.1.c. This regulation allows for the modification of a hazardous waste facility permit with prior approval from the regulatory agency to add treatment processes that are necessary for treatment of hazardous wastes that are restricted from land disposal to meet some or all applicable treatment standards. It is necessary for the Permittees to treat these wastes to remove the RCRA hazardous waste characteristics of ignitability, corrosivity, and reactivity. By the criteria of Appendix I, the addition of this treatment process can be incorporated into the permit using a Class 1 modification requiring prior regulatory agency approval process. This process is appropriate because the only changes proposed to the permitted storage unit are related to the addition of the treatment process and are limited to the stated purpose of the class description. Storage volumes will not increase as a result of this permit modification request.

N3B has made minor administrative changes to the Part A form (Attachment B). These include an address change for N3B's corporate office, updating the acting point of contact for the National Nuclear Security Administration (NNSA) Los Alamos Field Office and the addition of the T04 process code for D001 and D002 waste codes. These changes are being made in accordance with 40 CFR 270.42 Appendix I, item A.1.

N3B has also made an administrative change to Attachment C – Waste Analysis Plan. Section C.3.2.4.1 has been modified to reflect that remediation of the nitrate salt-bearing waste containers has been completed; therefore, the paragraph describing the sampling methodology for these containers is no

longer needed and has been deleted. This change is being made in accordance with 40 CFR 270.42 Appendix I, item A.1.

Description

This permit modification request proposes changes to a permitted unit at TA-54-0231. All proposed changes are incorporated into the text in the Hazardous Waste Permit Part 7, and the following Hazardous Waste Permit attachments:

- Attachment A, Technical Area (TA) – Unit Descriptions (changes shown in redline)
- Attachment B, Part A Form/U.S. Environmental Protection Agency, RCRA Subtitle C Site Identification Form (EPA Form 8700-12, 8700-13 A/B, 8700-23)
- Attachment C, Waste Analysis Plan (changes shown in redline)
- Attachment E, Inspection Plan (changes shown in redline)
- Attachment G.10, Technical Area 54, Area G, Pad 9, Outdoor Container Storage Unit Closure Plan (changes shown in redline). This attachment also includes the revised Figure G.10-1.
- Attachment J, Hazardous Waste Management Units (changes shown in redline)
- Revised Figures (Attachment N, Figures 27 and Figure 28, and Figure G.10-1)

Attachment 1 contains changes to the Permit Part 7, and Permit Attachments A, B, C, E, G.10, J, and N. Attachment 2 contains the replacement figures. Attachment 3 is the signed certification as required by 40 CFR Section 270.11, “Signatories to Permit Applications and Reports.”

The changes encompass the addition of a treatment process at TA-54-0231 for mixed transuranic waste from the S3000 waste matrix (homogeneous solids) to remove the RCRA hazardous waste characteristics of D001, D002, and D003. These wastes are currently stored at various permitted units at TA-54, Area G. The waste matrices include but are not limited to (monolithic) solid homogenous waste, cemented sludge wastes, and debris. TA-54-0231 is permitted for waste storage.

TA-54-0231 is approximately 246 ft long by 88.5 ft wide. The building is an aluminum A-frame truss design, anchored to a concrete ring wall. The dome is of modular construction utilizing a membrane or fabric covering. It is equipped with personnel doors and two roll-up doors, each along the eastern and western ends of the dome. Inside the dome is a permacon that is approximately 16 ft high by 68 ft long, by 28 ft wide with a Radiological Buffer Area (RBA) tent attached to the permacon’s western side, which is 16 ft high, 36 ft long and 28 ft wide. The permacon is divided into three main areas; Cell 1 and Cell 2 are designated for sort, segregate, size-reduction, and repackaging (SSSR) activities, and a control room is located along the eastern-most side. The permacon has six personnel doors between the cells, control room, the RBA, and the dome itself; one metal roll-up door between Cell 1 and Cell 2; and two plastic roll-up doors along the northern and eastern walls of the RBA. Ramped entrances allow for safe movement of container-handling equipment and vehicle access. Hazardous wastes will be characterized, sorted, segregated, and resized. Prohibited items (PIs) will be removed and repackaged. Some liquids and cemented sludge waste will require treatment before shipment to the Waste Isolation Pilot Plant (WIPP) for disposal.

This permit modification is being requested to allow performance of treatment within the TA-54-0231 permacon of characterized liquids and oxidizers collected from the waste containers. Proposed treatment activities include stabilizing liquids with zeolite, neutralization of liquids, and absorption of liquids using zeolite or other WIPP-approved absorbent.

Treatment of cemented sludge waste will occur within glove bags at TA-54-0231 inside the permitted permacon unit. The glove bags are well-configured to safely accommodate the stabilization (including absorption) and neutralization processes. Workers in full personal protective equipment (PPE) will process the waste in Cell 2 of the permacon.

Within the permacon unit, glove bags will be used to enclose a contaminated item and form a small work area to confine the spread of contamination. Glove bags allow work to be performed on potentially contaminated items, protect personnel, and allow access to waste within the containment using gloved sleeves, which enable repackaging or manipulations without directly contacting contaminated surfaces.

The treatment and repackaging process requires the installation of the following pieces of mobile equipment: gantry cranes, fume hoods, glove bags, dedicated ventilation units, high-efficiency particulate air (HEPA) filters, vacuums and drum lifts. Emergency and safety equipment located in TA-54-0231 includes a HEPA filtration system, fire detection system, fire extinguishers, fire alarm pull station, and an emergency notification system that supplements safety requirements and controls potential contaminant releases.

Additionally, a cargo container (connex) will provide a localized point-source exit from the permitted treatment unit. The connex will house a personnel contamination monitor (PCM) and will be as close to the area as possible. The PCM must be installed in a connex to provide shielding from low-level gamma. The location of the connex is identified on Figures 27 and 28 as part of this permit modification.

Safety and Traffic

Vehicle Traffic Control within TA-54, Area G

Roadways are kept in good condition, and the area has a posted speed limit of 15 mph. During internal waste receipt and offloading activities, additional traffic restrictions, such as prohibiting traffic and assigning station flaggers, are employed as a safety precaution. During elevated waste movements (e.g., lifting the waste container from the ground to the flatbed truck), supporting controls, such as use of spotters, are implemented. Vehicle barriers are strategically located throughout TA-54, Area G, to protect stored waste. Vehicles vary in size from very small utility trucks to large earth-moving equipment. Vehicle traffic volume is low-to-moderate because of access requirements and physical layout. All vehicle traffic access in the Pajarito corridor and TA-54 is restricted to badged personnel only.

Waste Movement Controls

Waste containers are transported to the permitted unit by flatbed trucks, closed-box trucks, or trailers. The permitted unit has design features that promote safe unloading and handling of waste containers from these trucks and trailers. Waste containers will be stored at the units in accordance with the conditions outlined in Permit Part 3 and all applicable subsections.

A forklift or other manual, mechanical, or hydraulic drum-handling equipment will be used to move containers stored at permitted units at TA-54, Area G. Palletized drums will be handled with a forklift equipped with tines or other types of mechanical or hydraulic drum-handling equipment. Individual drums

of waste will be manipulated with a drum-grapple attachment on the forklift or other manual, mechanical, and hydraulic drum handling equipment. Small containers will be handled manually or with a dolly.

Distance from Property Boundary

Hazardous wastes, specifically D001 and D003 wastes, will be treated at a distance of greater than 120 ft from the north TA-54 property fence and inside the permacon unit within TA-54-0231.

Safety Basis Summary

N3B has a rigorous safety program (including a safety basis) that includes an industrial health and safety program and additional safety management programs. Some of the additional safety management programs are also found in the safety basis, but others act independently from the safety basis requirements. The safety basis covers worker safety as required by DOE-STD-3009-94 and other DOE standards and orders, referring heavily to various safety management programs, such as the radiation protection program and the hazardous material and waste management program. The safety basis is required by 10 CFR 830, Subpart B, and is regulated by DOE, which is subject to the requirements of the Price Anderson Amendment Act. The safety basis is also upheld by technical safety requirements, which consist of derived controls for the protection of the public, the worker, and the co-located worker.

Safety procedures/policies that N3B is required to abide by during waste operations at TA-54 include: (1) Integrated Safety Management System N3B-SD100, (2) Integrated Work Management N3B-P300, and (3) 10 CFR 851 Worker Safety and Health Program N3B-PD100.

Processing Area

The activities performed within the TA-54-0231 permacon fall into two categories and are dependent upon the waste matrix complexity. Waste matrix complexity refers to the ability of waste operators to treat, process, and repackage waste with or without manipulation of the waste inside the drum. When manipulation of the waste inside the drum is not needed for the retrieval of a PI, the waste will be processed outside of the glove bag but inside the confines of the permacon. If the retrieval or resolution of a PI will require the manipulation of the waste inside the drum, this retrieval, resolution or treatment, will take place inside a glove bag. Activities within the permacon may be categorized as follows:

- Processing and treatment performed outside of glove bags
- Processing and treatment performed inside of glove bags

The characterization, treatment, and repackaging operations of legacy waste proposed at TA-54-0231 will meet the waste acceptance criteria (WAC) for disposal at WIPP. Both cells 1 and 2, within the permacon, are equipped with engineered contamination controls. Engineering controls such as HEPA filtration, dedicated ventilation units and drum fume hoods will supplement safety requirements and control potential contaminant releases. All daughter drums will be characterized and certified by Central Characterization Program (CCP) personnel in accordance with the WIPP WAC.

Processing and Treatment Outside of the Glove Bag

Waste containers that meet decision criteria for waste matrix complexity will be processed outside of the glove bag but within the permacon.

Operations to take place outside of the glove bag are: removal of easily accessible PIs, liner pulls, resolution of observable liquid between liner and drum, drum liner venting, drill and drain operations, and the resolution of layers of confinement. To remove the D003 code, aerosol cans will be removed/segregated from the waste stream and sent off-site for treatment and disposal.

Cameras will be set up at TA-54-0231 as oversight to document operations and personnel will provide written documentation of the waste treatment processes as required by their respective procedures.

Processing and Treatment Inside of the Glove Bag

Waste containers that do not meet the decision criteria for waste matrix complexity will be processed or treated inside a glove bag, within the permacon. This will apply to waste drums containing PIs, which are not easily accessible for retrieval, treatment, or repackaging activities. Upon completion of treatment or processing, the waste will be repacked into daughter drums, which will be characterized and certified by CCP personnel in accordance with the WIPP WAC.

The processing activities and treatments, which will take place inside the glove bag, include the removal of PIs (such as aerosol cans and sealed containers greater than 4L); capturing liquids for stabilization and treatment; treatment of the RCRA hazardous waste codes D001, D002, and D003; and treatment of homogeneous solids, as necessary, with zeolite or another WIPP-approved absorbent.

Larger combustible items, such as PPE, gloves, larger cellulosic material, and plastics, shall be segregated into a secondary waste container to be designated as MHD01 (debris), an existing waste stream.

Cameras will be set up as oversight to document operations and personnel will provide written documentation of the waste treatment process as required by their respective procedures. Engineering controls, such as HEPA filtration and negative pressure, will supplement safety requirements and control potential contaminant releases.

Treatment by Stabilization (including Absorption) & Neutralization Inside and Outside of Containers

Waste containers transported from permitted storage units will be transferred to the RBA of the permacon, and then transferred to either cell 1 or cell 2 inside the permacon, depending on the designated drum operation.

Waste removed from the parent container will be treated as designated and repackaged into a daughter container. All contents of a single waste container will be processed, or treated if necessary, within a single shift. If the contents cannot be treated within a single shift, the waste will not be left unattended mid-treatment. Instead, the waste containers (parent and daughter) will be closed. Waste will not be stored in the glove bag.

All liquids are required, per the WIPP Basis of Knowledge (BoK), to be collected, characterized, and stabilized with a WIPP-approved absorbent. Zeolite has been determined to be the most effective absorbent in the treatment of waste destined for TA-54-0231 because of its ability to treat and eliminate the ignitable and corrosive characteristics of the wastes. Pourable liquids in the waste drums will have their pH measured with a calibrated pH meter before the neutralization process. The neutralization process will consist of verifying pH and adding hydrochloric acid (HCl) or sodium hydroxide (NaOH) incrementally and iteratively to aqueous waste to bring the pH to within a 3–10 range. Pourable liquids in the waste drums will have their pH measured with a calibrated pH meter before the neutralization process. N3B will generally follow EPA Method 9040C, pH Electrometric Measurement for pH testing.

However, because of the need for “real-time” pH screening results at the time of waste processing, strict adherence to all aspects of EPA Method 9040C are not possible. The liquids once neutralized (if necessary) will be treated through the addition of zeolite in a minimum ratio of 3:1 (three parts zeolite to one part liquid waste). Once repacked into daughter drums, the treated waste will be characterized and certified by CCP personnel in accordance with the WIPP WAC. All measuring tools used in the stabilization process (glass/plastic pipettes, graduated cylinders, and beakers) will be resistant to a wide variety of reagents.

Drill and drain operations will be located in the cell separate from where glove bag operations are taking place. The drum liner will be de-nested and punctured, and the sludge or liquid will be suctioned and drained out. The collected liquid will be characterized, neutralized (if necessary), and treated with zeolite or a WIPP-approved absorbent.

For free liquids observed between the liner and the existing parent drum, de-nesting operations will take place via gantry crane and the liquid will be collected, characterized, neutralized (if necessary), and treated with zeolite or a WIPP-approved absorbent.

Post Treatment

All treated waste will be packaged into containers, and the characteristics of D001, D002, and D003 will be removed from the waste streams meeting the necessary waste treatment standards. The containerized treated waste will be placed back into storage at TA-54, Area G, awaiting final disposal.

Discussion of Proposed Changes to the Permit

Proposed changes to the permit are described below and are shown in redline-strikeout formatting within Attachment 1 of this document.

Part 7, Stabilization in Containers

Permit conditions for treatment by stabilization have previously been included in Part 7 of the Permit, “Stabilization in Containers.” The Permittees propose that TA-54-0231 and the permacon to be added to the text within this permit part for stabilization in containers.

Attachment A, Technical Area (TA) – Unit Descriptions

Text revisions identified in “Attachment A, Technical Area (TA) – Unit Descriptions” include the following:

- The title of TA-54-0231 was changed to indicate that it is a storage and treatment unit.
- Descriptions of the permacon and the equipment to be used for treatment (e.g., glove bags) at TA-54-0231 were added.
- A description of treatment process flow within TA-54-0231 Permitted Unit was added.

Attachment B, Part A Application Form

The waste volumes currently listed in Section 6 of “Attachment B, Process Codes and Design Capacities” are more than adequate for the daily volumes anticipated to be treated in TA-54-0231. Anticipated daily treatment volumes for this permit modification are less than 500 gal./day. The current allotted daily macroencapsulation volumes are currently 23,160 gal./day, well above anticipated total combined treatment and macroencapsulation daily volumes at TA-54-0231.

Additionally, N3B has made minor administrative changes to the Part A form (Attachment B). These include an address change for N3B's corporate office, updating the acting point of contact for the NNSA Los Alamos Field Office, and the addition of the T04 process code for D001 and D002 waste codes. These changes are being made in accordance with 40 CFR 270.42 Appendix I, item A.1.

Attachment C, Waste Analysis Plan

Within this permit attachment, descriptions of wastes to be treated at TA-54-0231, characterizing waste prior to treatment, and sampling and analysis for verification of treatment methodology have also been included within Section C.3.2.4, "Characterization Procedures Prior to and After Treatment of Mixed TRU Waste," and associated subsections. There are no changes necessary to the waste sampling or analysis methods associated with this permit modification request. Table C-20, "Description of Stabilization Waste Streams at Technical Area 54, Building 231," has been revised to add TA-54-0231 and reflect the addition of waste stream descriptions for wastes to be stabilized in containers.

Additionally, Section C.3.2.4.1 has been modified to reflect that remediation of the nitrate salt-bearing waste containers has been completed and therefore the paragraph describing the sampling methodology for these containers is no longer needed and has been deleted.

Attachment E, Inspection Plan

Attachment E, TA-54 Inspection Plan, has been modified to include a new section, Section E.3, which describes the site-specific inspection requirements for the stabilization unit at TA-54-0231.

Attachment G.10, Technical Area 54, Area G, Pad 9, Outdoor Container Storage Unit Closure Plan

Throughout Attachment G.10, changes have been made to reflect that the unit will be utilized for treatment as well as storage of waste, the title for Attachment A of the Permit has been corrected, and a description of glove bags has been incorporated within Section 2.0, "Description of the Unit to be Closed." Figure G.10-1, "Technical Area 54, Area G, Pad 9, Outdoor Container Storage Unit Grid Sampling and Additional Sampling Locations," was also revised.

Attachment J, Hazardous Waste Management Units

Table J-1, "Active Portion of the Facility," was changed to reflect the addition of a treatment process to the TA-54, Area G, Pad 9 Outdoor Permitted Unit within the "Process Codes," "Operating Capacity," and "General Information" columns of the table. The "T04" designation before Table J-1 has been corrected to reflect that the process code is applicable for "Other Treatment" methods.

Attachment N, Figures

Figures 27 and 28 within Attachment N have been updated to include the footprint of the TA-54-0231 permacon and a description of the unit usage as a storage and treatment unit.

Attachment 1

Redline Pages of Permit Part 7 and
Attachments A, B, C, E, G.10, and J

PART 7: ~~STABILIZATION~~ TREATMENT IN CONTAINERS

Permittees (DOE, Triad and ~~LANS~~N3B) have a duty to meet the additional Permit requirements of this Part, Sections 7.1 through 7.6.

7.1 GENERAL CONDITIONS

(1) The Permittees shall treat waste by stabilization in containers at TA-50-0069 Indoor Permitted Unit and stabilization (including absorption), and neutralization at TA-54, Area G, Pad 9 within TA-54-0231 in accordance with this Permit Part and the requirements of 40 CFR Part 264, Subpart I, which is incorporated herein by reference.

(2) The Permittees shall, in accordance with this Permit Part, maintain and operate the equipment utilized for stabilization treatment as described in ~~at~~ Attachment A (*Technical Area Unit Descriptions*) for TA-50-0069 and for stabilization (including absorption), and neutralization as described in Attachment A, (Technical Area Unit Descriptions) for TA-54-0231.

(3) The Permittees shall treat by stabilization in containers only in the permitted unit identified with process code T04 in attachment J, Table J-1. The Permittees shall not store or treat waste in quantities that exceed the operating capacities identified in Table J-1.

(4) The Permittees shall treat by stabilization only those wastes with EPA Hazardous Waste Numbers listed in association with the applicable permitted storage unit and stabilization process in Attachment B (*Part A Application*).

(5) The Permittees shall ensure that wastes or treatment reagents are not used in the stabilization process if they could cause the equipment used for treatment to rupture, leak, corrode, or otherwise fail.

7.2 GLOVE BAG/GLOVEBOX INTEGRITY AND CONTAINMENT

(1) The Permittees shall maintain in the Facility Operating Record the written integrity assessment of the glove bag/glovebox system used to treat nitrate salt-bearing waste and other wastes with the characteristics of ignitability, corrosivity, and reactivity.

(2) The Permittees shall use appropriate controls and practices to prevent spill and releases from the glove bag/glovebox containment system.

7.3 ~~STABILIZATION~~ TREATMENT REQUIREMENTS

(1) The Permittees shall ensure that nitrate salt-bearing waste is treated within an enclosed glove bag/glovebox or other containment equipment.

(2) The stabilization (including absorption) treatment processes will consist of blending water and zeolite with waste solids or stabilizing liquid waste by blending with zeolite or other WIPP-approved absorbent.

(3) The neutralization process will consist of verifying pH and adding hydrochloric acid (HCl) or sodium hydroxide (NaOH) incrementally and iteratively to aqueous waste to bring the pH to within a 3–10 range. Pourable liquids in the waste drums will have their pH measured with a calibrated pH meter, prior to the neutralization process.

7.4 RELEASES WITHIN THE PERMITTED UNIT

(1) Any release, or the potential for a release, from or at the TA-50-0069 Indoor Permitted Unit or the TA-54, Area G, Pad 9 within TA-54-0231 Permitted Unit that the Permittees do~~es~~ not deem a threat to human health or the environment must be reported to the Department in accordance with Permit Section 1.9.13.

(2) The Permittees shall ensure that any release of waste from the TA-50-0069 Indoor Permitted Unit or the TA-54, Area G, Pad 9 within TA-54-0231 Permitted Unit to the environment (*e.g.,* soil, surface water, groundwater, atmosphere) is reported to the Department by e-mail or facsimile within 24 hours of its detection. Within 5 days of detection of a release to the environment, the Permittees shall submit a written report to the Department containing the information required by Permit Section 1.9.12.2.

7.5 INCOMPATIBLE WASTES

(1) The Permittees shall ensure that potentially incompatible waste is either treated or segregated to eliminate the possibility of combining materials that are incompatible.

7.6 CONFIRMATION ANALYSIS

(1) Characterization for treated waste will be conducted in accordance Permit Attachment C (*Waste Analysis Plan,* Section C.3.2.4.2 *Characterization Procedures for Waste Treated by Stabilization*).

(2) Pre-treatment and treatment verification samples will be collected in accordance with the subsection of Permit Attachment C.3.2.4 *Characterization Procedures Prior to and After Treatment of Mixed TRU Wastes.*

ATTACHMENT A

TECHNICAL AREA (TA) - UNIT DESCRIPTIONS

A fire hydrant installed according to National Fire Protection Association standards is located approximately 55 feet west of TA-50-69. Water is supplied to the fire hydrant by a municipal water system through eight inch pipes at an adequate volume and pressure (*i.e.*, 200 gallons per minute and 90 pounds per square inch static pressure) to supply a water hose in the event of a fire.

TA-50-69 has an automatic wet-pipe sprinkler system in the main building and in the large glove box enclosure. The sprinkler system is heat-activated at 100°C (212°F). The TA-50-69 Outdoor permitted unit transportainers and weather protective structures are not equipped with automatic sprinkler systems; however, a fire extinguisher is located within 20 feet of the unit. Personnel may use the fire alarm pull station at TA-50-69 in the event of a fire at both the indoor and the outdoor permitted units.

Two spill centers are located in TA-50-69 Room 102. They contain spill control equipment, personal protective equipment, and sorbents. Trained personnel may use this equipment to mitigate small containable spills when they are certain their actions will not put themselves or others at risk. Depending on the size and severity of the spill, EM&R provides additional spill control equipment and assistance upon request. Available personnel decontamination equipment includes safety showers and eye wash stations located in the TA-50-69 indoor permitted unit.

A.4 TA-54

TA-54 consists of 130 acres atop Mesita del Buey and is used for treatment and storage of hazardous and mixed waste generated throughout the Facility (*see* Figure 24 in Attachment N (*Figures)*). A principal mission of TA-54 is to manage Facility waste safely and efficiently, consistent with federal and state regulations and U.S. Department of Energy (DOE) requirements. TA-54 has three separate areas where hazardous and mixed waste is stored and treated; Area L, Area G, and TA-54 West (*see* Figure 25 in Attachment N (*Figures)***)**. There is one permitted unit at Area L, nine permitted units at Area G, and two permitted units at TA-54 West (*see* Attachment J (*Hazardous Waste Management Units*)).

Waste containers are transported to the permitted units at Areas L, G, and West by flatbed trucks, closed-box trucks, or trailers. The permitted units have design features that promote safe unloading and handling of waste containers from these trucks and trailers. Ramps are typically located at vehicle entrances to the dome structures at the Area L and Area G permitted units. Shed 31 at Area L and Shed 8 at Area G have sloped entryways for container-handling equipment. The storage domes have roll-up or roll-away vehicle access doors. The loading dock at TA-54 West allows access from the transport vehicles to the loading dock platform. These design features facilitate safe handling of containers in and out of the permitted units.

All waste containers at the TA-54 permitted units are handled in a manner that will not cause them to rupture or leak. Most containers are handled with forklifts (using drum grapplers, when appropriate) and are placed directly in the appropriate permitted unit. For larger containers, personnel can use a boom or, at TA-54 West and in portions of Area L, a bridge crane or mobile crane, respectively. At TA-54-412, waste containers (*e.g.*, fiberglass reinforced plywood crates,

drums, large boxes) are generally handled with forklifts, overhead cranes, or frictionless air pallets. Smaller containers are generally handled manually or with drum dollies. The use of proper handling equipment, appropriate to a container's size and weight, helps to prevent hazards while moving containers (*e.g.*, when loading and unloading containers).

A.4.1 AREA L

The Area L permitted unit is the area within the fence and is comprised of several storage structures: dome 215; concrete pad with canopy 32; concrete pads 35 and 36; storage sheds 68, 69, 70, 31; modular units 39 and 58 (*see* Figure 26 in Attachment N (*Figures*)).

The permitted unit stores containers of hazardous and mixed low level waste in solid and liquid form. Liquid wastes are stored primarily in structures that are designed for secondary containment; however, secondary containment pallets are also used. Secondary containment pallets are typically constructed of polyethylene or metal painted with a chemical-resistant coating. Polyethylene secondary containment pallets used at TA-54 are generally 50 inches long by 50 inches wide by 17 inches deep, with a designed capacity of 83 gallons. Currently, two sizes of metal secondary containment pallets are used at TA-54. One is 52 inches long by 52 inches wide by 6.5 inches deep, with a designed capacity of 57 gallons; the other is 60 inches wide by 60 inches long by 6.5 inches deep, with a designed capacity of 77 gallons. The metal secondary containment pallets are coated with chemically-resistant urethane. The stressed- or tensioned-membrane fabric used on Storage Dome 215 at the aboveground permitted unit within the fence at Area L is coated with ultraviolet (UV)-stabilized plasticized polyvinyl chloride (PVC). It is fungus-resistant and certified flame-retardant (*i.e.*, self-extinguishing).

A.4.1.1 Storage Dome 215

Storage Dome 215 is 60 feet wide, approximately 266 feet long, and 26 feet high (*see* Figure 25 in Attachment N (*Figures)*). It is an arch frame-supported stressed-membrane structure. The dome is of modular construction and uses light construction materials (*i.e.*, aluminum framework with membrane or fabric covering). It is equipped with 14 personnel doors and two roll-up doors. The dome’s pad is equipped with a 6-inch-high, 8-inch-wide concrete ring wall that surrounds the perimeter of the dome, and the dome is anchored to the concrete ring wall with anchor bolts. A ramp is located at the vehicle entrance to the dome and allows vehicles and container handling equipment to pass safely over the ring wall. The ring wall and the ramp prevent run-on into the dome. Any liquid that might accumulate within the storage dome (*e.g.*, liquids resulting from fire-suppression activities) is contained within the ring-walled area. Liquid that may result from fire-suppression activities and that is in excess of the capacity inside the ring wall is collected in a double-walled holding tank connected to dome 215 by a double-walled pipe.

A.4.1.2 Reserved

A.4.1.3 Storage Sheds 68, 69, and 70

Storage sheds 68, 69, and 70 are prefabricated sheds constructed of steel (Safety Storage Building, Model 22) (*see* Figure 26 in Attachment N (*Figures)*. Each shed measures approximately 23 feet long, 9 feet wide and 8.5 feet high. Access to these storage sheds is obtained through one of three sets of double doors. Storage Shed 68 has three separate compartments with one door leading to each compartment. Storage Sheds 69 and 70 each have two separate compartments with one door leading to the smaller compartment and two doors leading to the larger compartment. The sheds are elevated by design which prevents run-on. Each shed is constructed with liquid-tight sumps to ensure containment of any potential leaks or spills and to prevent runoff. The floor of each shed consists of a metal grate that covers the sump areas. Containers are placed directly on the metal grates which prevent contact with liquids that may have accumulated in the sumps. The sump of each shed is lined with high-density polyethylene liners. The designed sump storage capacity of each shed is 750 gallons, which exceeds the amount necessary to hold 10% of the total storage capacity of each shed (1,760 gallons).

Shed 68 has three separate compartments each having its own sump with individual capacities of 250 gallons. Sheds 69 and 70 have two separate compartments, each having its own sump. One compartment consists of two thirds of the surface area (and capacity) of Sheds 69 and 70. The capacity of this compartment's sump is 500 gallons; the smaller compartment's sump capacity is 250 gallons. The designed sump storage capacity of each shed is 750 gallons which exceeds the amount necessary to hold 10% of the total storage capacity of each shed (1,760 gallons).

A.4.1.4 Storage Shed 31

Storage Shed 31 is a prefabricated shed constructed of steel. It measures approximately 14 feet long, 13 feet wide, and 8 feet high (*see* Figure 26 in Attachment N (*Figures)*). The shed sits on a concrete foundation that has a raised edge and is surrounded by asphalt that is sloped away from the shed to prevent run-on. The shed has three separate liquid-tight recessed sumps in the concrete foundation that are each covered with a steel grate. Containers are stored on the steel grates, which prevent contact with liquids that may have accumulated in the sumps. The sumps and the concrete foundation are coated with chemically-resistant paint. Two of the sumps are approximately 6 feet long by 4 feet wide; the third sump is approximately 7 feet long by 6 feet wide. All three sumps are 5 inches deep. The total capacity of the three sumps is approximately 285 gallons, which exceeds the amount necessary to hold 10% of the total storage capacity of the shed (1,320 gallons). The total capacity of the three sumps is approximately 285 gallons, which exceeds the amount necessary to hold 10% of the total storage capacity of the shed (1,320 gallons).

A.4.1.5 TA-54-32

TA-54-32 (*see* Figure 26 in Attachment N (*Figures)*) consists of a concrete pad that is 116.5 feet long by 15.5 feet wide. The structure is covered by a 117.75 feet-long by 25.75 feet-wide canopy. The canopy provides protection from the weather. The concrete pad is bermed by a 1-feet-wide, 6- to 8-inch-high concrete curb. This curbed area is divided into six separate containment cells to segregate wastes with different hazard classes. The curb prevents run-on of storm water. Each containment cell consists of a recessed sump covered with grate flooring on which containers are stored; this prevents contact with liquids that may have accumulated in the sumps. The cells are separated by metal partitions above the flooring. The concrete sumps are treated with chemical-resistant epoxy filler-sealer and protective coating, providing an impervious seal to contain any potential leaks, spills, or accumulation of precipitation. Cells 1 and 6 are approximately 26.5 feet long by 13.5 feet wide by 1 feet deep, with a sump capacity of 2,675 gallons each. Cells 3 and 5 are approximately 16.8 feet long by 13.5 feet wide by 1 feet deep, with a sump capacity of 1,700 gallons each. Cells 2 and 4 are approximately 13.5 feet long by 11.2 feet wide by 1 foot deep, with a sump capacity of approximately 1,130 gallons each. These sump capacities exceed the amount necessary to hold 10% of the maximum storage capacity for TA-54-32.

A.4.1.6 TA-54-35

TA-54-35 (*see* Figure 26 in Attachment N (*Figures)*) consists of a concrete pad that measures 31.5 feet long by 31.5 feet wide. The area is covered by a 136 ft-long, 48 feet-wide canopy that provides protection from the weather. The pad has a 6-inch-high concrete berm that prevents run-on and runoff of liquids. The bermed area has an elevated ramp on one side to allow access for equipment to move waste containers. The ramp also helps to prevent run-on of precipitation and runoff of any accumulated liquids. The bermed secondary containment area of the pad is approximately 29.5 feet long by 24.5 feet wide by 8 inches deep. Stored waste containers are elevated on pallets to prevent contact with any potential accumulated liquids. The secondary containment capacity of the bermed area is approximately 3,570 gallons, which exceeds the amount necessary to hold 10% of the maximum storage capacity for TA-54-35 (15,840 gallons)

A.4.1.7 TA-54-36

TA-54-36 (*see* Figure 26 in Attachment N (*Figures)*) is a 33-feet-long by 31.5-feet-wide concrete pad. It is covered by a 136 feet-long, 48 feet-wide canopy that provides protection from the weather. The pad is surrounded by a 1-feet-wide berm that varies from 6 inches to 1 ft in height. The berm prevents run-on and runoff of liquids. The bermed secondary containment area of the pad is approximately 30.5 feet long by 30 feet wide by 9 inches deep. The pad also contained a Perma-Con® structure which has been removed and disposed. The secondary containment capacity of the bermed area is approximately 4,595 gallons, which exceeds the amount necessary to hold 10% of the maximum storage capacity for TA-54-36 (13,200 gallons).

A.4.1.8 TA-54-58

TA-54-58 (*see* Figure 26 in Attachment N (*Figures)*) is a pad that measures 33 ft long by 31.5 ft wide. It is covered by a 136 ft-long, 48 ft-wide canopy that provides protection from the weather. The pad has a 1-ft-wide berm that varies from 6 in to 1 ft in height. The berm prevents run-on and runoff of liquids. The bermed area has an elevated ramp on one side to allow access for equipment to move waste containers. The ramp also helps to prevent run-on of precipitation and runoff of any accumulated liquids. The bermed secondary containment area of the pad is approximately 30.5 ft long by 25 ft wide by 6 in deep. The secondary containment capacity of the bermed area is approximately 2,850 gallons, which exceeds the amount necessary to hold 10% of the maximum storage capacity for TA-54-58 (15,840 gallons).

A.4.1.9 TA-54-39 and Containment Pad

TA-54-39 measures 40 ft-long by 40 ft-wide (*see* Figure 26 in Attachment N (*Figures)*). It is a metal panel building set on a concrete foundation with a metal canopy attached to the south side of the building. The rectangular metal canopy measures 83 ft long by 46 ft wide. There are two areas associated with TA-54-39 that provide secondary containment. These areas include Room 101, located inside the building, and a containment pad located at the south end of the building. Room 101 inside TA-54-39 has a 6-in-high concrete curb that surrounds the room. The containment pad at the south end of TA-54-39 consists of two sections. The pad is covered by a metal canopy, which provides protection from the weather. The eastern section of the containment pad is constructed of asphaltic concrete and measures 83 ft-long by 23 ft-wide. The western section of the containment pad is approximately 58 ft-long by 16 ft-wide and is surrounded by a 1-feet-high concrete curb, which prevents run-on and runoff of liquids. The secondary containment capacity for Room 101 is approximately 3,280 gallons, which exceeds the amount necessary to hold 10% of the maximum storage capacity of the room (9,900 gallons). The secondary containment capacity for the western section of the TA-54-39 containment pad is approximately 7,120 gallons, which exceeds the amount necessary to hold 10% of the maximum storage capacity of this section of the containment pad (15,180 gallons).

A.4.2 AREA G

The permitted units at Area G are used to store and treat containers of hazardous, mixed low level, and mixed transuranic wastes in solid and liquid form (*see* Figure 27 in Attachment N (*Figures)*. Liquid wastes are stored primarily in structures that are designed for secondary containment. However, secondary containment pallets are also used.

Secondary containment pallets are typically constructed of polyethylene or metal painted with a chemical-resistant coating –Polyethylene secondary containment pallets used at TA-54 Area G are generally 50 in long by 50 in wide by 17 in deep with a designed capacity of 83 gallons. Two sizes of metal secondary containment pallets are typically used at TA-54 Area G. One size is 52 in long by 52 in wide by 6.5 in deep with a designed capacity of 57 gallons. The other is 60 in long by 60 in wide by 6.5 in deep with a designed capacity of 77 gallons.

A.4.2.1 Pad 9

The 4 to 6 in thick asphalt pad is approximately 570 feet long and 275 feet wide (*see* Figure 28 in Attachment N (*Figures)*). Transuranic Waste Inspectable Storage Project (TWISP) domes 229, 230, 231, and 232 are located on Pad 9 at the east end of Area G. Each dome is approximately 246 ft long, and 88 ft by 7 inches wide and consist of a rigid aluminum frame that supports a tensioned membrane. A series of aluminum I-beam trusses spanning the width of the structures comprise the dome framework. The membrane material is a polyester fabric coated with UV-stabilized plasticized PVC. The material is fungus-resistant and fire-retardant (*i.e.*, self-extinguishing). The membrane is integrally connected to the frame to provide a fully tensioned fit. Each dome is equipped with personnel doors and a roll-up door for vehicle access and is anchored to a concrete ring-wall with anchor bolts. Under Pad 9 is a fire water collection system that collects water from Domes 232 and 231 and transports it to a sump system in Dome 229 at the south end of Pad 9. The system is not intended for, nor was it designed to provide, secondary containment of liquid waste releases. It was designed to provide an augmented fire water collection capability to prevent fire water running off the pad if any fire suppression activities exceeded the capacity contained in the upstream domes. Domes 231 and 232 have three drain inlets apiece in the southeast portion of the domes. The drains in each dome are connected and drain to a collection pipe line that runs down the east side of Pad 9. The line terminates in the collection sump in the east end of Dome 229. The floor of Dome 230 is designed for secondary containment of liquids. The asphalt pad floor is sloped (1%) towards a concrete sump at the east end of the dome. The asphalt floor and curbs in Dome 230 are lined with a double layer of 40 mil high-density polyethylene (HDPE), and the sump is lined with a single layer of 40 mil HDPE, creating an impervious layer to contain any liquids that might accumulate. The secondary containment capacity for Dome 230, which includes the sump and curbed area, is approximately 48,255 gallons which exceeds the amount necessary to hold 10% of the total storage capacity of the dome (330,000 gallons). The TWISP domes on Pad 9 are unheated; the storage of waste within the transportainer is for the purpose of temperature equilibration of the waste for characterization procedures (*i.e.*, real-time radiography and headspace gas sampling associated with the transuranic waste characterization program).

Dome 231

The building is an aluminum A-frame truss design, anchored to a concrete ring wall. The dome is of modular construction using a membrane or fabric covering. It is equipped with personnel doors and two roll-up doors, each along the eastern and western ends of the dome. Inside the dome is a permacon that is approximately 16 ft high by 68 ft long by 28 ft wide. A radiological buffer area (RBA) tent is attached to the permacon's western side. The RBA tent is 16 ft high, 36 ft long and 28 ft wide. The permacon is divided into three main areas; cell 1 and cell 2 are designated for sort, segregate, size-reduction, and repackaging activities and a control room is located along the eastern-most side. The permacon has six personnel doors between the cells, control room, the RBA, and the dome itself; one metal roll-up door between cell 1 and cell 2; and two plastic roll-up doors along the northern and eastern walls of the RBA. Ramped entrances allow for safe movement of container-handling equipment and vehicle access. Hazardous wastes

will be characterized, sorted, segregated, and resized. Prohibited items (e.g., aerosol cans) will be removed and repackaged. Some liquids and cemented sludge waste will require treatment before shipment to the Waste Isolation Pilot Plant (WIPP) for disposal.

The following pieces of mobile equipment are used in the treatment and repackaging process: gantry cranes, fume hoods, glove bags, dedicated ventilation units, high-efficiency particulate air (HEPA) filters, vacuums, and drum lifts. Emergency and safety equipment located in TA-54-0231 include a HEPA filtration system, fire detection system, fire extinguishers, fire alarm pull station, and an emergency notification system that supplements safety requirements and controls potential contaminant releases. Additionally, a cargo container (connex) will provide a localized point source exit from the permitted treatment unit. The connex will house a personnel contamination monitor (PCM) and will be as close to the area as possible. The PCM must be installed in a connex to provide shielding from low-level gamma.

Waste containers transported from permitted storage units at TA-54, Area G, will be moved into the RBA of the TA-54-0231 permacon. Waste removed from the parent container will be repackaged into certifiable 55-gal. drums. All contents of a single waste container will be treated within a single shift or the waste containers (parent and daughter) will be closed using a vented, rigid cover if waste must be left unattended mid-treatment. Waste will not be stored in the glove bag.

Treatment process includes neutralizing and then stabilizing liquids with zeolite (i.e., absorption). Waste containers that meet decision criteria for waste matrix complexity will be processed outside of the glove bag but within the permacon.

Treatment of cemented sludge waste occurs within glove bags~~,~~ inside the TA-54-0231 permacon unit. The glove bags are well-configured to safely accommodate the stabilization (including absorption) and pH adjustment processes. Workers will be operating in cells 1 and 2 in the protective equipment required by the radiological work permit and the operating procedures.

Within the permacon unit, glove bags are used to enclose a contaminated item and form a small work area to confine the spread of contamination. Glove bags allow work to be performed on potentially contaminated items, protect personnel, and allow access to waste within the containment using gloved sleeves, which enable repackaging or manipulations without directly contacting contaminated surfaces.

The neutralization process will consist of verifying pH and adding hydrochloric acid (HCl) or sodium hydroxide (NaOH) incrementally and iteratively to aqueous waste to bring the pH to within a 3–10 range. Pourable liquids in the waste drums will have their pH measured with a calibrated pH meter, prior to the neutralization process. Additionally, N3B will generally follow EPA Method 9040C- pH Electrometric Measurement for pH testing. However, because of the need for “real-time” pH screening results at the time of waste processing, strict adherence to all aspects of EPA Method 9040C are not possible. The liquids will be neutralized, if necessary, and stabilized with zeolite in a minimum ratio of 3:1 (three parts zeolite to one part liquid waste). The treated waste will be repackaged into a new certified 55-gal. daughter drum and

characterized and certified by Central Characterization Program personnel in accordance with the WIPP WAC. All measuring tools used in the stabilization process (glass/plastic pipettes, graduated cylinders, and beakers) will be resistant to a wide variety of reagents.

Drill and drain operations will be located in the cell separate from where glove bag operations are taking place. The drum liner will be de-nested and punctured, and the sludge or liquid will be suctioned and drained out. The collected liquid will be characterized, neutralized (if necessary), and treated with zeolite or a WIPP-approved absorbent.

For free liquids observed between the liner and the existing parent drum, de-nesting operations will take place via gantry crane and the liquid will be collected, characterized, neutralized (if necessary) and stabilized with zeolite or a WIPP-approved absorbent.

A.4.2.2 Pad 1

The 4 to 6 inch thick asphalt pad is approximately 358 feet long and 213 feet wide. TA-54-412 is located on the pad in the northeastern portion of Area G (*see* Figure 29 in Attachment N (*Figures*~~)~~).

TA-54-412 (*see* Figure 29 in Attachment N (*Figures*~~)~~) is a one story building that is approximately 220 feet long by 60 feet wide (13,200 ft^2). It consists of two structures, an internal primary confinement structure that houses the DVRS processing operations and an external secondary confinement structure which surrounds the primary confinement structure. The external secondary confinement structure (hereinafter referred to as "building") provides protection from the elements and a temperature-controlled space for the internal structures and associated process equipment. A 16 ft by 16 ft roll-up vehicle-access door is located on the north end of the building. The roll-up vehicle access door opens to the secondary confinement structure area and serves as a pass-through for moving DVRS feed-stock waste into the primary confinement structure. There is also vehicle access on the south end of the building for removal of compacted waste from DVRS operations. The concrete slab provides a structural foundation for the building and the shearer and baler system and provides a direct working surface for movement of fiberglass reinforced plywood boxes and processing equipment. The concrete slab is above grade to direct potential run-on away from the building. The floor in the building is sloped to a sump that has a grating cover to provide traction and a level working surface. The sump is treated with chemical-resistant epoxy filler-sealer and protective coating.

The primary confinement structure is housed entirely within the building and consists of five interconnected enclosures or cells. The system is approximately 150 feet long by 50 feet wide by 16 feet high and sits directly on the sealed concrete floor. The primary confinement structure is constructed of 6-inch-thick, two-hour fire-rated sandwich panels made of 16-gauge steel and gypsum wallboard measuring 40 feet wide by 4 or 8 feet long. The structure interlocks in a self-supporting steel framework that can be assembled into multiple configurations. The primary confinement structure has five cells each of which is used for a specific function of the DVRS process. The cells are equipped with both personnel and large roll-up doors so that personnel, equipment, and material can access the structure and move from one cell to the next. A cell is

ATTACHMENT B

PART A APPLICATION FORM

OMB# 2050-0024; Expires 05/31/2020

United States Environmental Protection Agency
RCRA SUBTITLE C SITE IDENTIFICATION FORM

1. Reason for Submittal (Select only one.)

☐	Obtaining or updating an EPA ID number for an on-going regulated activity that will continue for a period of time. (Includes HSM activity)
☐	Submitting as a component of the Hazardous Waste Report for _____ (Reporting Year)
	☐ Site was a TSD facility and/or generator of > 1,000 kg of hazardous waste, > 1 kg of acute hazardous waste, or > 100 kg of acute hazardous waste spill cleanup in **one or more months of the reporting year** (or State equivalent LQG regulations)
☐	Notifying that regulated activity is no longer occurring at this Site
☐	Obtaining or updating an EPA ID number for conducting Electronic Manifest Broker activities
☑	Submitting a new or revised Part A Form

2. Site EPA ID Number

N	M	0	8	9	0	0	1	0	5	1	5

3. Site Name

Los Alamos National Laboratory

4. Site Location Address

Street Address **Bikini Atoll Road, SM-30**		
City, Town, or Village **Los Alamos**		County **Los Alamos**
State **New Mexico**	Country **USA**	Zip Code **87545**

5. Site Mailing Address

☐ Same as Location Address

Street Address **PO Box 1663, MS A316**		
City, Town, or Village **Los Alamos**		
State **New Mexico**	Country **USA**	Zip Code **87544**

6. Site Land Type

☐ Private ☐ County ☐ District ☑ Federal ☐ Tribal ☐ Municipal ☐ State ☐ Other

7. North American Industry Classification System (NAICS) Code(s) for the Site (at least 5-digit codes)

A. (Primary)	**928110**	C.	**562211**
B.	**54171**	D.	**562910**

8. Site Contact Information

☐ Same as Location Address

First Name **Gabriel**	MI **M**	Last Name **Pugh**
Title **Acting Manager, National Nuclear Security Administration, Los Alamos Field Office, U. S. Department of Energy**		
Street Address **3747 West Jemez Road, MS A316**		
City, Town, or Village **Los Alamos**		
State **New Mexico**	Country **USA**	Zip Code **87544**
Email **gabriel.pugh@nnsa.doe.gov**		
Phone **(505) 667-5105**	Ext	Fax **(505) 667-5948**

9. Legal Owner and Operator of the Site

A. Name of Site's Legal Owner

☐ Same as Location Address

Full Name United States Department of Energy		Date Became Owner (mm/dd/yyyy) 1/1/1943
Owner Type ☐ Private ☐ County ☐ District ☑ Federal ☐ Tribal ☐ Municipal ☐ State ☐ Other		
Street Address 3747 West Jemez Road, MS A316		
City, Town, or Village Los Alamos		
State New Mexico	Country **USA**	Zip Code 87544
Email gabriel.pugh@nnsa.doe.gov		
Phone (505) 667-5105	Ext	Fax (505) 667-5948
Comments The U.S Department of Energy (DOE) owns and co-operates the facility. The DOE National Nuclear Security Administration, Los Alamos Field Office and Triad National Security, LLC (Triad) co-operate specified hazardous waste management units located at Technical Areas (TA) 3, 14, 16, 36, 39, 50, 55, 63, and 54 West. The DOE Environmental Management, Los Alamos Field Office and Newport News Nuclear BWXT-Los Alamos, LLC (N3B) co-operate different hazardous waste management units located at TA 54, Areas G, H and L.		

B. Name of Site's Legal Operator

☐ Same as Location Address

Full Name Triad National Security, LLC		Date Became Operator (mm/dd/yyyy) 11/1/2018
Operator Type ☑ Private ☐ County ☐ District ☐ Federal ☐ Tribal ☐ Municipal ☐ State ☐ Other		
Street Address **Bikini Atoll Road, Bldg SM-30, MS A102**		
City, Town, or Village **Los Alamos**		
State **New Mexico**	Country **USA**	Zip Code **87545**
Email mhazen@lanl.gov		
Phone **(505) 309-1559**	Ext	Fax
Comments **See Item 18, Comments, for additional Operator**		

10. Type of Regulated Waste Activity (at your site)

Mark "Yes" or "No" for all current activities (as of the date submitting the form); complete any additional boxes as instructed.

A. Hazardous Waste Activities

☑ Y ☐ N	1. Generator of Hazardous Waste—If "Yes", mark only one of the following—a, b, c		
	☑	a. LQG	-Generates, in any calendar month (includes quantities imported by importer site) 1,000 kg/mo (2,200 lb/mo) or more of non-acute hazardous waste; or - Generates, in any calendar month, or accumulates at any time, more than 1 kg/mo (2.2 lb/mo) of acute hazardous waste; or - Generates, in any calendar month or accumulates at any time, more than 100 kg/mo (220 lb/mo) of acute hazardous spill cleanup material.
	☐	b. SQG	100 to 1,000 kg/mo (220-2,200 lb/mo) of non-acute hazardous waste and no more than 1 kg (2.2 lb) of acute hazardous waste and no more than 100 kg (220 lb) of any acute hazardous spill cleanup material.
	☐	c. VSQG	Less than or equal to 100 kg/mo (220 lb/mo) of non-acute hazardous waste.
If "Yes" above, indicate other generator activities in 2 and 3, as applicable.			
☐ Y ☑ N	2. Short-Term Generator (generates from a short-term or one-time event and not from on-going processes). If "Yes", provide an explanation in the Comments section.		
☑ Y ☐ N	3. Mixed Waste (hazardous and radioactive) Generator		
☑ Y ☐ N	4. Treater, Storer or Disposer of Hazardous Waste—Note: A hazardous waste Part B permit is required for these activities.		
☑ Y ☐ N	5. Receives Hazardous Waste from Off-site		
☐ Y ☑ N	6. Recycler of Hazardous Waste		
	☐	a. Recycler who stores prior to recycling	
	☐	b. Recycler who does not store prior to recycling	
☐ Y ☑ N	7. Exempt Boiler and/or Industrial Furnace—If "Yes", mark all that apply.		
	☐	a. Small Quantity On-site Burner Exemption	
	☐	b. Smelting, Melting, and Refining Furnace Exemption	

B. Waste Codes for Federally Regulated Hazardous Wastes. Please list the waste codes of the Federal hazardous wastes handled at your site. List them in the order they are presented in the regulations (e.g. D001, D003, F007, U112). Use an additional page if more spaces are needed.

See Attached						

C. Waste Codes for State Regulated (non-Federal) Hazardous Wastes. Please list the waste codes of the State hazardous wastes handled at your site. List them in the order they are presented in the regulations. Use an additional page if more spaces are needed.

None						

11. Additional Regulated Waste Activities (NOTE: Refer to your State regulations to determine if a separate permit is required.)

A. Other Waste Activities

☑ Y ☐ N	1. Transporter of Hazardous Waste—If "Yes", mark all that apply.
☑	a. Transporter
☑	b. Transfer Facility (at your site)
☐ Y ☑ N	2. Underground Injection Control
☐ Y ☑ N	3. United States Importer of Hazardous Waste
☐ Y ☑ N	4. Recognized Trader—If "Yes", mark all that apply.
☐	a. Importer
☐	b. Exporter
☐ Y ☑ N	5. Importer/Exporter of Spent Lead-Acid Batteries (SLABs) under 40 CFR 266 Subpart G—If "Yes", mark all that apply.
☐	a. Importer
☐	b. Exporter

B. Universal Waste Activities

☑ Y ☐ N	1. Large Quantity Handler of Universal Waste (you accumulate 5,000 kg or more) - If "Yes" mark all that apply. Note: Refer to your State regulations to determine what is regulated.
☑	a. Batteries
☑	b. Pesticides
☑	c. Mercury containing equipment
☑	d. Lamps
☑	e. Other (specify) Aerosol cans
☐	f. Other (specify) _____
☐	g. Other (specify) _____
☐ Y ☑ N	2. Destination Facility for Universal Waste Note: A hazardous waste permit may be required for this activity.

C. Used Oil Activities

☐ Y ☑ N	1. Used Oil Transporter—If "Yes", mark all that apply.
☐	a. Transporter
☐	b. Transfer Facility (at your site)
☐ Y ☑ N	2. Used Oil Processor and/or Re-refiner—If "Yes", mark all that apply.
☐	a. Processor
☐	b. Re-refiner
☐ Y ☑ N	3. Off-Specification Used Oil Burner
☐ Y ☑ N	4. Used Oil Fuel Marketer—If "Yes", mark all that apply.
☐	a. Marketer Who Directs Shipment of Off-Specification Used Oil to Off-Specification Used Oil Burner
☐	b. Marketer Who First Claims the Used Oil Meets the Specifications

12. Eligible Academic Entities with Laboratories—Notification for opting into or withdrawing from managing laboratory hazardous wastes pursuant to 40 CFR 262 Subpart K.

☐ Y ☑ N	A. Opting into or currently operating under 40 CFR 262 Subpart K for the management of hazardous wastes in laboratories—If "Yes", mark all that apply. Note: See the item-by-item instructions for definitions of types of eligible academic entities.
☐	1. College or University
☐	2. Teaching Hospital that is owned by or has a formal written affiliation with a college or university
☐	3. Non-profit Institute that is owned by or has a formal written affiliation with a college or univer-
☐ Y ☑ N	B. Withdrawing from 40 CFR 262 Subpart K for the management of hazardous wastes in laboratories.

13. Episodic Generation

☐ Y ☑ N	Are you an SQG or VSQG generating hazardous waste from a planned or unplanned episodic event, lasting no more than 60 days, that moves you to a higher generator category. If "Yes", you must fill out the Addendum for Episodic Generator.

14. LQG Consolidation of VSQG Hazardous Waste

☐ Y ☑ N	Are you an LQG notifying of consolidating VSQG Hazardous Waste Under the Control of the Same Person pursuant to 40 CFR 262.17(f)? If "Yes", you must fill out the Addendum for LQG Consolidation of VSQGs hazardous waste.

15. Notification of LQG Site Closure for a Central Accumulation Area (CAA) (optional) OR Entire Facility (required)

☐ Y ☑ N	LQG Site Closure of a Central Accumulation Area (CAA) or Entire Facility.
	A. ☐ Central Accumulation Area (CAA) ☐ Entire Facility
	B. Expected closure date: _____ mm/dd/yyyy
	C. Requesting new closure date: _____ mm/dd/yyyy
	D. Date closed : _____ mm/dd/yyyy ☐ 1. In compliance with the closure performance standards 40 CFR 262.17(a)(8) ☐ 2. Not in compliance with the closure performance standards 40 CFR 262.17(a)(8)

16. Notification of Hazardous Secondary Material (HSM) Activity

☑ Y ☐ N	A. Are you notifying under 40 CFR 260.42 that you will begin managing, are managing, or will stop managing hazardous secondary material under 40 CFR 260.30, 40 CFR 261.4(a)(23), (24), or (27)? If "Yes", you must fill out the Addendum to the Site Identification Form for Managing Hazardous Secondary Material.
☐ Y ☑ N	B. Are you notifying under 40 CFR 260.43(a)(4)(iii) that the product of your recycling process has levels of hazardous constituents that are not comparable to or unable to be compared to a legitimate product or intermediate but that the recycling is still legitimate? If "Yes", you may provide explanation in Comments section. You must also document that your recycling is still legitimate and maintain that documentation on site.

17. Electronic Manifest Broker

☐ Y ☑ N	Are you notifying as a person, as defined in 40 CFR 260.10, electing to use the EPA electronic manifest system to obtain, complete, and transmit an electronic manifest under a contractual relationship with a hazardous waste generator?

18. Comments (include item number for each comment)

8- Additional Site Contact Information
First Name: Douglas MI: E Last Name: Hintze
Title: Manager, Environmental Management, Los Alamos Field Office, U. S. Department of Energy
Street Address: 1900 Diamond Drive, MS M984 City, Town, or Village: Los Alamos
State: NM Country: USA Zip Code: 87544
Email: douglas.hintze@em.doe.gov
Phone: (505) 665-5820 Ext: Fax: (505) 665-5903
9B- Additional Name of Site Legal Operator
Newport News Nuclear BWXT-Los Alamos, LLC (N3B) Date Became an Operator: 04/30/2018 **Operator Type: Private**
Street Address: 600 6th Street City, Town, or Village: Los Alamos
State: NM Country: USA Zip Code: 87544
Email: glenn.morgan@em-la.doe.gov
Phone: (505) 309-1374 Ext: Fax:

19. Certification I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations. **Note: For the RCRA Hazardous Waste Part A permit Application, all owners and operators must sign (see 40 CFR 270.10(b) and 270.11)**.

Signature of legal owner, operator or authorized representative	Date (mm/dd/yyyy)
Printed Name (First, Middle Initial Last) **Gabriel M. Pugh**	Title **Acting Manager, National Nuclear Security Administration, Los Alamos Field Office, U.S. Department of Energy**
Email **gabriel.pugh@nnsa.doe.gov**	

Signature of legal owner, operator or authorized representative	Date (mm/dd/yyyy)
Printed Name (First, Middle Initial Last) **Michael W. Hazen**	Title **Operator, Triad National Security, LLC (Triad)**
Email **mhazen@lanl.gov**	

18. Comments (include item number for each comment)

19. Certification I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations. **Note: For the RCRA Hazardous Waste Part A permit Application, all owners and operators must sign (see 40 CFR 270.10(b) and 270.11)**.

Signature of legal owner, operator or authorized representative	Date (mm/dd/yyyy)
Printed Name (First, Middle Initial Last) **Douglas E. Hintze**	Title **Manager, Environmental Management, Los Alamos Field Office, U.S. Department of Energy**
Email **douglas.hintze@em.doe.gov**	

Signature of legal owner, operator or authorized representative	Date (mm/dd/yyyy)
Printed Name (First, Middle Initial Last) **Glenn Morgan**	Title **Operator, Newport News Nuclear BWXT-Los Alamos, LLC (N3B)**
Email **glenn.morgan@em-la.doe.gov**	

ADDENDUM TO THE SITE IDENTIFICATION FORM: NOTIFICATION OF HAZARDOUS SECONDARY MATERIAL ACTIVITY

ONLY fill out this form if:

- You are located in a State that allows you to manage excluded hazardous secondary material (HSM) under 40 CFR 261.2(30), 261.4(a)(23), (24), or (27) (or state equivalent; See https://www.epa.gov/epawaste/hazard/dsw/statespf.htm for a list of eligible states; AND
- You are or will be managing excluded HSM in compliance with 40 CFR 260.30, 261.4(a)(23), (24), or (27) (or state equivalent) or have stopped managing excluded HSM in compliance with the exclusion(s) and do not expect to manage any amount of excluded HSM under the exclusion(s) for at least one year. Do not include any information regarding your hazardous waste activities in this section. Note: If your facility was granted a solid waste variance under 40 CFR 260.30 prior to July 13, 2015, your management of HSM under 40 CFR 260.30 is grandfathered under the previous regulations and you are not required to notify for the HSM management activity excluded under 40 CFR 260.30.

1. Reason for Notification (Include dates where requested)

☑ Facility will begin managing excluded HSM as of **7/1/2019** (mm/dd/yyyy).

☐ Facility is still managing excluded HSM/re-notifying as required by March 1 of each even-numbered year.

☐ Facility has stopped managing excluded HSM as of _____ (mm/dd/yyyy) and is notifying as required.

2. Description of Excluded HSM Activity. Please list the appropriate codes (see Code List section of the instructions) and quantities, in short tons, to describe your excluded HSM activity ONLY (do not include any information regarding your hazardous wastes). Use additional pages if more space is needed.

A. Facility Code	B. Waste Code(s) for HSM	C. Estimate Short Tons of excluded HSM to be managed annually	D. Actual Short Tons of excluded HSM that was managed during the most recent odd-numbered year	E. Land-based Unit Code
01	D001, D002, D003, F003	1		NA

ADDENDUM TO THE SITE IDENTIFICATION FORM: EPISODIC GENERATOR

ONLY fill out this form if:

- You are an SQG or VSQG generating hazardous waste from a planned or unplanned episodic event, lasting no more then 60 days, that moves the generator to a higher generator category pursuant to 40 CFR 262 Subpart L. Note: Only one planned and one unplanned episodic event are allowed within one year; otherwise, you must follow the requirements of the higher generator category. Use additional pages if more space is needed.

Episodic Event	
1. Planned ☐ Excess chemical inventory removal ☐ Tank cleanouts ☐ Short-term construction or demolition ☐ Equipment maintenance during plant shutdowns ☐ Other _____	2. Unplanned ☐ Accidental spills ☐ Production process upsets ☐ Product recalls ☐ "Acts of nature" (Tornado, hurricane, flood, etc.) ☐ Other _____
3. Emergency Contact Phone	4. Emergency Contact Name
5. Beginning Date _____ (mm/dd/yyyy)	6. End Date _____ (mm/dd/yyyy)

Waste 1

7. Waste Description				8. Estimated Quantity (in pounds)	
9. Federal and/or State Hazardous Waste Codes					

Waste 2

7. Waste Description				8. Estimated Quantity (in pounds)	
9. Federal and/or State Hazardous Waste Codes					

Waste 3

7. Waste Description				8. Estimated Quantity (in pounds)	
9. Federal and/or State Hazardous Waste Codes					

ADDENDUM TO THE SITE IDENTIFICATION FORM: LQG CONSOLIDATION OF VSQG HAZARDOUS WASTE

ONLY fill out this form if:

- You are an LQG receiving hazardous waste from VSQGs under the control of the same person. Use additional pages if more space is needed.

VSQG 1		
1. EPA ID Number (if assigned)	2. Name	
3. Street Address		
4. City, Town, or Village	5. State	6. Zip Code
7. Contact Phone Number	8. Contact Name	
9. Email		

VSQG 2		
1. EPA ID Number (if assigned)	2. Name	
3. Street Address		
4. City, Town, or Village	5. State	6. Zip Code
7. Contact Phone Number	8. Contact Name	
9. Email		

VSQG 3		
1. EPA ID Number (if assigned)	2. Name	
3. Street Address		
4. City, Town, or Village	5. State	6. Zip Code
7. Contact Phone Number	8. Contact Name	
9. Email		

10. Type of Regulated Waste Activity (at your site)

B. Waste Codes for Federally Regulated Hazardous Wastes.

D001	D002	D003	D004	D005	D006	D007
D008	D009	D010	D011	D012	D013	D014
D015	D016	D017	D018	D019	D020	D021
D022	D023	D024	D025	D026	D027	D028
D029	D030	D031	D032	D033	D034	D035
D036	D037	D038	D039	D040	D041	D042
D043	F001	F002	F003	F004	F005	F006
F007	F008	F009	F010	F011	F012	F019
F020	F021	F022	F023	F024	F025	F026
F027	F028	F032	F034	F035	F037	F038
F039	K044	K045	K046	K047	K084	K101
K102	P001	P002	P003	P004	P005	P006
P007	P008	P009	P010	P011	P012	P013
P014	P015	P016	P017	P018	P020	P021
P022	P023	P024	P026	P027	P028	P029
P030	P031	P033	P034	P036	P037	P038
P039	P040	P041	P042	P043	P044	P045
P046	P047	P048	P049	P050	P051	P054
P056	P057	P058	P059	P060	P062	P063
P064	P065	P066	P067	P068	P069	P070
P071	P072	P073	P074	P075	P076	P077
P078	P081	P082	P084	P085	P087	P088
P089	P092	P093	P094	P095	P096	P097
P098	P099	P101	P102	P103	P104	P105
P106	P108	P109	P110	P111	P112	P113
P114	P115	P116	P118	P119	P120	P121
P122	P123	P127	P128	P185	P188	P189
P190	P191	P192	P194	P196	P197	P198
P199	P201	P202	P203	P204	P205	U001
U002	U003	U004	U005	U006	U007	U008
U009	U010	U011	U012	U014	U015	U016
U017	U018	U019	U020	U021	U022	U023
U024	U025	U026	U027	U028	U029	U030
U031	U032	U033	U034	U035	U036	U037
U038	U039	U041	U042	U043	U044	U045
U046	U047	U048	U049	U050	U051	U052
U053	U055	U056	U057	U058	U059	U060
U061	U062	U063	U064	U066	U067	U068
U069	U070	U071	U072	U073	U074	U075

10. Type of Regulated Waste Activity (at your site)
B. Waste Codes for Federally Regulated Hazardous Wastes. (Continued)

U076	U077	U078	U079	U080	U081	U082
U083	U084	U085	U086	U087	U088	U089
U090	U091	U092	U093	U094	U095	U096
U097	U098	U099	U101	U102	U103	U105
U106	U107	U108	U109	U110	U111	U112
U113	U114	U115	U116	U117	U118	U119
U120	U121	U122	U123	U124	U125	U126
U127	U128	U129	U130	U131	U132	U133
U134	U135	U136	U137	U138	U140	U141
U142	U143	U144	U145	U146	U147	U148
U149	U150	U151	U152	U153	U154	U155
U156	U157	U158	U159	U160	U161	U162
U163	U164	U165	U166	U167	U168	U169
U170	U171	U172	U173	U174	U176	U177
U178	U179	U180	U181	U182	U183	U184
U185	U186	U187	U188	U189	U190	U191
U192	U193	U194	U196	U197	U200	U201
U202	U203	U204	U205	U206	U207	U208
U209	U210	U211	U213	U214	U215	U216
U217	U218	U219	U220	U221	U222	U223
U225	U226	U227	U228	U234	U235	U236
U237	U238	U239	U240	U243	U244	U246
U247	U248	U249	U271	U278	U279	U280
U328	U353	U359	U364	U367	U372	U373
U387	U389	U394	U395	U404	U409	U410
U411						

United States Environmental Protection Agency

HAZARDOUS WASTE PERMIT PART A FORM

1. Facility Permit Contact

First Name	**Gabriel**	MI	**M**	Last Name	**Pugh**
Title	**Manager, National Nuclear Security Administration, Los Alamos Field Office, DOE**				
Email	**gabriel.pugh@nnsa.doe.gov**				
Phone	**505-667-5105**	Ext		Fax	**505-667-5948**

2. Facility Permit Contact Mailing Address

Street Address	**3747 West Jemez Road, MS A316**	
City, Town, or Village	**Los Alamos**	
State **NM**	Country **USA**	Zip Code **87544**

3. Facility Existence Date (mm/dd/yyyy)

01/01/1943

4. Other Environmental Permits

A. Permit Type	B. Permit Number	C. Description
See Attached		

5. Nature of Business

The central mission of Los Alamos National Laboratory is the reduction of global nuclear danger supported by research that also contributes to conventional defense, civilian, and industrial needs. This includes programs in nuclear, medium energy, and space physics; hydrodynamics; conventional explosives; chemistry; metallurgy; radiochemistry; space nuclear systems; controlled thermonuclear fusion; laser research; environmental technology; geothermal, solar, and fossil energy research; nuclear safeguards; biomedicine; health and biotechnology; and industrial partnerships.

4. Other Environmental Permits (continued)

A. Permit Type	B. Permit Number	C. Description
National Pollutant Discharge Elimination System (NPDES):		
NPDES Construction General Permit:		
N	**NMR12A---**	**NPDES Construction General Permit coverage for various individual construction projects: NMR120000**
NPDES Industrial and Point Source Permit:		
N	**NM0028355**	**NPDES Industrial and Sanitary Point Source Discharges**
NPDES Storm Water Multi-Sector General Permit (MSGP) for Industrial Activities		
N	**NMR053195**	**NPDES MSGP**
NPDES Storm Water Individual Permit		
N	**NM0030759**	**NPDES LANL Storm Water Individual Permit**
NPDES Pesticides General Permit		
N	**NMG87B097**	**NPDES Pesticides General Permit (PGP) for discharges from the application of pesticides**
Resource Conservation and Recovery Act (RCRA):		
R	**NM089001051**	**RCRA Hazardous Waste Facility Permit**
Groundwater Discharge Plans (GDP):		
E	**DP-857**	**TA-46 SWWS Plant and TA-3 Sanitary Effluent Reclamation Facility (SERF) Discharge Permit Application**
E	**DP-1132**	**TA-50 Radioactive Liquid Waste Treatment Facility, Discharge Permit Application**
E	**DP-1589**	**Twelve (12) Domestic Septic Tank/Leachfield Systems, Discharge Permit**
E	**DP-1793**	**On-Site Treatment and Land Application of Groundwater, Discharge Permit**
E	**DP-1835**	**Injection of Treated Groundwater into Class V Underground Injection Control (UIC) Wells, Discharge Permit**
Clean Water Act Section 404 Dredge and Fill Permits with U.S. Army Corps of Engineers		
F	**NWP-43**	**Water Canyon West Jemez road Storm Drain Controls**
F	**NWP-38**	**Sandia Canyon TA-72 Storm Water Controls**
F	**NWP-27**	**Habitat Restoration- Mortandad Wetland Enhancement**
F	**NWP-43**	**Sandia Canyon (Lower) Area 1 Storm Water Controls**
F	**NWP-43**	**Sandia Canyon (Lower) Area 2 Storm Water Controls**
F	**NWP-43**	**Upper Ancho Canyon Structure Storm Water Controls**
F	**NWP-43**	**North Ancho Canyon Lower Structure Storm Water Controls**
Air Quality Permits:		
Air Quality Operating Permit (20.2.70 NMAC)		
E	**P100-R2-M1**	**LANL Air Emissions Title V Operating Permit**
Air Quality (20.2.72 NMAC)		
E	**2195-R1-R71**	**Various 20 NMAC 2.72.202 Exemptions**
E	**2195B-M2**	**TA-3 Power Plant**

A. Permit Type	B. Permit Number												C. Description
E	**2**	**1**	**9**	**5**	**F**	**-**	**R**	**4**					**TA-33 Large Generator**
E	**G**	**C**	**P**	**3**	**-**	**2**	**1**	**9**	**5**	**G**	**-**	**R**	**1**	**TA-60 Asphalt Plant**
E	**2**	**1**	**9**	**5**	**H**	**-**								**Data disintegrator**
E	**2**	**1**	**9**	**5**	**N**	**-**	**R**	**2**						**Chemistry and Metallurgy Research Replacement Facility**
E	**2**	**1**	**9**	**5**	**P**	**-**	**R**	**1**						**TA-33 Small Generators**
Air Quality (National Emission Standards for Hazardous Air Pollutants) Beryllium Machining:														
E	**6**	**3**	**4**	**-**	**M**	**2**								**TA-3-141 Beryllium Operations**
E	**6**	**3**	**2**	**-**	**R**	**1**								**TA-35-213 Beryllium Operations**
E	**1**	**0**	**8**	**-**	**M**	**1**	**-**	**R**	**6**					**TA-55-4 Beryllium Operations**

6. Process Codes and Design Capacities

Line Number		A. Process Code			B. Process Design Capacity		C. Process Total Number of Units	D. Unit Name
					(1) Amount	(2) Unit of Measure		
								See Attached

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.		A. EPA Hazardous Waste No.				B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes									
								(1) Process Codes									(2) Process Description (if code is not entered in 7.D1))
																	See Attached

8. Map

Attach to this application a topographical map, or other equivalent map, of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all spring, rivers, and other surface water bodies in this map area. See instructions for precise requirements.

9. Facility Drawing

All existing facilities must include a scale drawing of the facility. See instructions for more detail.

10. Photographs

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment, and disposal areas; and sites of future storage, treatment, or disposal areas. See instructions for more detail.

11. Comments

Remaining pages of document include information for Items 6-10. All documentation is arranged by
individual Technical Areas (TAs) at the Los Alamos National Laboratory.

6. Process Codes and Design Capacities

Line Number		A. Process Code			B. Process Design Capacity		C. Process Total Number of Units	D. Unit Name
					(1) Amount	(2) Unit of Measure		
	1	S	0	1	18,500	G	001	Technical Area 3
	2	T	0	4	3,441	U	001	Technical Area 3
	3	X	0	1	1,020 or 50	J* or U	002	Technical Area 14 *Total indicates per day not per hour
	4	X	0	1	1,200 or 50	J* or U	002	Technical Area 16 *Total indicates per day not per hour
	5	X	0	1	2,000	J*	001	Technical Area 36 *Total indicates per day not per hour
	6	X	0	1	2,000	J*	002	Technical Area 39 *Total indicates per day not per hour
	7	S	0	1	31,500	G	002	Technical Area 50
	8	T	0	4	3,716	U	002	Technical Area 50
	9	S	0	1	407,880	G	001	Technical Area 54, Area L
1	0	T	0	4	23,160	U	001	Technical Area 54, Area L
1	1	D	8	0	1,200	Y	001	Technical Area 54, Area L
1	2	S	9	9	600	G	001	Technical Area 54, Area L
1	3	S	0	1	4,346,590	G	009	Technical Area 54, Area G
1	4	T	0	4	185,280	U	008	Technical Area 54, Area G
1	5	S	0	1	4,950	G	001	Technical Area 54, Area G
1	6	D	8	0	14	Y	001	Technical Area 54, Area G
1	7	S	0	1	34,110 + 13,410+	G	002	Technical Area 54, West +Total includes excess storage capacity
1	8	T	0	4	3,441	U	001	Technical Area 54, West
1	9	D	8	0	63	Y	001	Technical Area 54, Area H
2	0	S	0	1	272,145	G	009	Technical Area 55
2	1	S	0	2	137	G	001	Technical Area 55
2	2	T	0	4	13,914	U	005	Technical Area 55
2	3	S	0	1	105,875	G	001	Technical Area 63
2	4	T	0	4	23,160	U	001	Technical Area 63

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 3					
	1 D 0 0 1	7,000	P	S 0 1	
	2 D 0 0 2	21,000	P	S 0 1	
	3 D 0 0 3	2,500	P	S 0 1	
	4 D 0 0 4	3,000	P	S 0 1 T 0 4	
	5 D 0 0 5	3,000	P	S 0 1 T 0 4	
	6 D 0 0 6	2,500	P	S 0 1 T 0 4	
	7 D 0 0 7	7,000	P	S 0 1 T 0 4	
	8 D 0 0 8	27,000	P	S 0 1 T 0 4	
	9 D 0 0 9	4,000	P	S 0 1 T 0 4	
1	0 D 0 1 0	2,500	P	S 0 1 T 0 4	
1	1 D 0 1 1	3,000	P	S 0 1 T 0 4	
1	2 D 0 1 2	1,000	P	S 0 1	
1	3 D 0 1 8	1,500	P	S 0 1 T 0 4	
1	4 D 0 1 9	2,000	P	S 0 1 T 0 4	
1	5 D 0 2 1	2,000	P	S 0 1 T 0 4	
1	6 D 0 2 2	2,000	P	S 0 1 T 0 4	
1	7 D 0 2 3	2,000	P	S 0 1 T 0 4	
1	8 D 0 2 4	2,000	P	S 0 1 T 0 4	
1	9 D 0 2 5	2,000	P	S 0 1 T 0 4	
2	0 D 0 2 6	2,000	P	S 0 1 T 0 4	
2	1 D 0 2 7	1,500	P	S 0 1 T 0 4	
2	2 D 0 2 8	2,000	P	S 0 1 T 0 4	
2	3 D 0 2 9	1,000	P	S 0 1 T 0 4	
2	4 D 0 3 0	1,500	P	S 0 1 T 0 4	
2	5 D 0 3 2	1,500	P	S 0 1 T 0 4	
2	6 D 0 3 3	1,500	P	S 0 1 T 0 4	
2	7 D 0 3 4	1,500	P	S 0 1 T 0 4	
2	8 D 0 3 5	3,500	P	S 0 1 T 0 4	
2	9 D 0 3 6	1,500	P	S 0 1 T 0 4	
3	0 D 0 3 7	1,000	P	S 0 1 T 0 4	
3	1 D 0 3 8	1,500	P	S 0 1 T 0 4	
3	2 D 0 3 9	2,500	P	S 0 1 T 0 4	
3	3 D 0 4 0	2,500	P	S 0 1 T 0 4	
3	4 D 0 4 2	1,500	P	S 0 1 T 0 4	
3	5 D 0 4 3	1,500	P	S 0 1 T 0 4	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 3 (continued)					
36	F00 1	21,000	P	S01 T04	
37	F00 2	21,000	P	S01 T04	
38	F00 3	21,000	P	S01	
39	F00 4	2,500	P	S01 T04	
40	F00 5	21,000	P	S01	
41	F00 6	500	P	S01	
42	F00 7	500	P	S01	
43	F00 9	500	P	S01	
44	P00 3	1,000	P	S01	
45	P01 2	1,000	P	S01	
46	P01 5	1,000	P	S01	
47	P02 9	1,000	P	S01	
48	P03 0	1,000	P	S01	
49	P03 1	1,000	P	S01	
50	P03 8	1,000	P	S01	
51	P05 6	1,000	P	S01	
52	P06 3	1,000	P	S01	
53	P06 8	1,000	P	S01	
54	P07 3	1,000	P	S01	
55	P07 6	1,000	P	S01	
56	P07 8	1,000	P	S01	
57	P09 5	1,000	P	S01	
58	P09 6	1,000	P	S01	
59	P09 8	1,000	P	S01	
60	P09 9	500	P	S01	
61	P10 6	1,000	P	S01	
62	P11 3	1,000	P	S01	
63	P12 0	1,000	P	S01	
64	U00 1	1,000	P	S01	
65	U00 2	1,000	P	S01	
66	U00 3	1,000	P	S01	
67	U01 2	1,000	P	S01	
68	U01 9	1,000	P	S01	
69	U02 2	1,000	P	S01	
70	U02 9	1,000	P	S01	
71	U03 1	1,000	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 3 (continued)					
7 2	U 0 3 7	1,000	P	S 0 1	
7 3	U 0 4 4	1,000	P	S 0 1	
7 4	U 0 4 5	1,000	P	S 0 1	
7 5	U 0 5 2	1,000	P	S 0 1	
7 6	U 0 5 6	1,000	P	S 0 1	
7 7	U 0 5 7	1,000	P	S 0 1	
7 8	U 0 7 5	1,000	P	S 0 1	
7 9	U 0 7 7	1,000	P	S 0 1	
8 0	U 0 8 0	1,000	P	S 0 1	
8 1	U 1 0 3	500	P	S 0 1	
8 2	U 1 0 8	1,000	P	S 0 1	
8 3	U 1 1 2	1,000	P	S 0 1	
8 4	U 1 1 5	1,000	P	S 0 1	
8 5	U 1 1 7	1,000	P	S 0 1	
8 6	U 1 2 1	1,000	P	S 0 1	
8 7	U 1 2 2	1,000	P	S 0 1	
8 8	U 1 2 3	1,000	P	S 0 1	
8 9	U 1 3 1	1,000	P	S 0 1	
9 0	U 1 3 3	1,000	P	S 0 1	
9 1	U 1 3 4	1,000	P	S 0 1	
9 2	U 1 3 5	1,000	P	S 0 1	
9 3	U 1 4 0	1,000	P	S 0 1	
9 4	U 1 4 4	1,000	P	S 0 1	
9 5	U 1 5 1	1,000	P	S 0 1	
9 6	U 1 5 4	1,000	P	S 0 1	
9 7	U 1 5 9	1,000	P	S 0 1	
9 8	U 1 6 0	1,000	P	S 0 1	
9 9	U 1 6 1	1,000	P	S 0 1	
10 0	U 1 6 5	1,000	P	S 0 1	
10 1	U 1 6 9	1,000	P	S 0 1	
10 2	U 1 8 8	1,000	P	S 0 1	
10 3	U 1 9 0	1,000	P	S 0 1	
10 4	U 1 9 6	1,000	P	S 0 1	
10 5	U 2 0 4	1,000	P	S 0 1	
10 6	U 2 1 0	1,000	P	S 0 1	
10 7	U 2 1 1	1,000	P	S 0 1	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 3 (continued)					
10	U213	1,000	P	S01	
10	U216	1,000	P	S01	
11	U218	1,000	P	S01	
11	U219	1,000	P	S01	
11	U220	1,000	P	S01	
11	U225	500	P	S01	
11	U226	1,000	P	S01	
11	U227	500	P	S01	
11	U228	1,000	P	S01	
11	U239	500	P	S01	
11	U246	500	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.					B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes								
								(1) Process Codes								(2) Process Description (if code is not entered in 7.D1))
Technical Area 14																
	1	D	0	0	1	2,000	P	X	0	1						
	2	D	0	0	3											Included with above.
	3	D	0	0	5											Included with above.
	4	D	0	0	6											Included with above.
	5	D	0	0	7											Included with above.
	6	D	0	0	8											Included with above.
	7	D	0	0	9											Included with above.
	8	D	0	1	1											Included with above.
	9	D	0	1	8											Included with above.
1	0	D	0	2	2											Included with above.
1	1	D	0	2	8											Included with above.
1	2	D	0	2	9											Included with above.
1	3	D	0	3	0											Included with above.
1	4	D	0	3	5											Included with above.
1	5	D	0	3	6											Included with above.
1	6	D	0	3	8											Included with above.
1	7	D	0	4	0											Included with above.
1	8	F	0	0	1											Included with above.
1	9	F	0	0	2											Included with above.
2	0	F	0	0	3											Included with above.
2	1	F	0	0	4											Included with above.
2	2	F	0	0	5											Included with above.

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 16					
1	D001	20,000	P	X01	
2	D002				Included with above.
3	D003				Included with above.
4	D005				Included with above.
5	D006				Included with above.
6	D007				Included with above.
7	D008				Included with above.
8	D009				Included with above.
9	D010				Included with above.
10	D011				Included with above.
11	D018				Included with above.
12	D022				Included with above.
13	D028				Included with above.
14	D029				Included with above.
15	D030				Included with above.
16	D035				Included with above.
17	D036				Included with above.
18	D038				Included with above.
19	D040				Included with above.
20	F001				Included with above.
21	F002				Included with above.
22	F003				Included with above.
23	F004				Included with above.
24	F005				Included with above.
25	K044				Included with above.
26	K045				Included with above.

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.					B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes								
								(1) Process Codes								(2) Process Description (if code is not entered in 7.D1))
Technical Area 36																
	1	D	0	0	1	15,000	P	X	0	1						
	2	D	0	0	3											Included with above.
	3	D	0	0	5											Included with above.
	4	D	0	0	6											Included with above.
	5	D	0	0	7											Included with above.
	6	D	0	0	8											Included with above.
	7	D	0	0	9											Included with above.
	8	D	0	1	0											Included with above.
	9	D	0	1	1											Included with above.
1	0	D	0	1	8											Included with above.
1	1	D	0	2	2											Included with above.
1	2	D	0	2	8											Included with above.
1	3	D	0	2	9											Included with above.
1	4	D	0	3	0											Included with above.
1	5	D	0	3	5											Included with above.
1	6	D	0	3	6											Included with above.
1	7	D	0	3	8											Included with above.
1	8	D	0	4	0											Included with above.
1	9	F	0	0	1											Included with above.
2	0	F	0	0	2											Included with above.
2	1	F	0	0	3											Included with above.
2	2	F	0	0	4											Included with above.
2	3	F	0	0	5											Included with above.

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.					B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes								
								(1) Process Codes								(2) Process Description (if code is not entered in 7.D1))
Technical Area 39																
	1	D	0	0	1	15,000	P	X	0	1						
	2	D	0	0	3											Included with above.
	3	D	0	0	5											Included with above.
	4	D	0	0	6											Included with above.
	5	D	0	0	7											Included with above.
	6	D	0	0	8											Included with above.
	7	D	0	0	9											Included with above.
	8	D	0	1	0											Included with above.
	9	D	0	1	1											Included with above.
1	0	D	0	1	8											Included with above.
1	1	D	0	2	2											Included with above.
1	2	D	0	2	8											Included with above.
1	3	D	0	2	9											Included with above.
1	4	D	0	3	0											Included with above.
1	5	D	0	3	5											Included with above.
1	6	D	0	3	6											Included with above.
1	7	D	0	3	8											Included with above.
1	8	D	0	4	0											Included with above.
1	9	F	0	0	1											Included with above.
2	0	F	0	0	2											Included with above.
2	1	F	0	0	3											Included with above.
2	2	F	0	0	4											Included with above.
2	3	F	0	0	5											Included with above.

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 50					
	1	D001	69,696	P	S01 T04
	2	D002	52,734	P	S01 T04
	3	D003	3,444	P	S01
	4	D004	7,531	P	S01 T04
	5	D005	7,740	P	S01 T04
	6	D006	535, 451	P	S01 T04
	7	D007	567, 226	P	S01 T04
	8	D008	1,405,439	P	S01 T04
	9	D009	75,666	P	S01 T04
10		D010	8,922	P	S01 T04
11		D011	31,255	P	S01 T04
12		D012	100	P	S01
13		D013	100	P	S01
14		D014	100	P	S01
15		D015	100	P	S01
16		D016	44	P	S01
17		D017	66	P	S01
18		D018	5,535	P	S01 T04
19		D019	4,261	P	S01 T04
20		D020	100	P	S01 T04
21		D021	100	P	S01 T04
22		D022	100	P	S01 T04
23		D023	100	P	S01 T04
24		D024	100	P	S01 T04
25		D025	100	P	S01 T04
26		D026	518	P	S01 T04
27		D027	972	P	S01 T04
28		D028	216,783	P	S01 T04
29		D029	215,184	P	S01 T04
30		D030	5,491	P	S01 T04
31		D031	293	P	S01 T04
32		D032	3,135	P	S01 T04
33		D033	2,222	P	S01 T04
34		D034	1,228	P	S01 T04
35		D035	1,792	P	S01 T04
36		D036	549	P	S01 T04

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 50 (continued)					
3 7	D 0 3 7	761	P	S 0 1 T 0 4	
3 8	D 0 3 8	1,549	P	S 0 1 T 0 4	
3 9	D 0 3 9	1,675	P	S 0 1 T 0 4	
4 0	D 0 4 0	3,942	P	S 0 1 T 0 4	
4 1	D 0 4 1	293	P	S 0 1 T 0 4	
4 2	D 0 4 2	1,182	P	S 0 1 T 0 4	
4 3	D 0 4 3	655	P	S 0 1 T 0 4	
4 4	F 0 0 1	442,263	P	S 0 1 T 0 4	
4 5	F 0 0 2	147,347	P	S 0 1 T 0 4	
4 6	F 0 0 3	50,980	P	S 0 1 T 0 4	
4 7	F 0 0 4	2,817	P	S 0 1 T 0 4	
4 8	F 0 0 5	334,821	P	S 0 1 T 0 4	
4 9	F 0 0 6	100	P	S 0 1 T 0 4	
5 0	F 0 0 7	100	P	S 0 1 T 0 4	
5 1	F 0 0 8	100	P	S 0 1	
5 2	F 0 0 9	165	P	S 0 1 T 0 4	
5 3	F 0 1 0	100	P	S 0 1	
5 4	F 0 1 1	100	P	S 0 1	
5 5	F 0 1 2	100	P	S 0 1	
5 6	F 0 1 9	100	P	S 0 1	
5 7	F 0 2 0	100	P	S 0 1	
5 8	F 0 2 1	100	P	S 0 1	
5 9	F 0 2 2	100	P	S 0 1	
6 0	F 0 2 3	100	P	S 0 1	
6 1	F 0 2 4	100	P	S 0 1	
6 2	F 0 2 5	100	P	S 0 1	
6 3	F 0 2 6	100	P	S 0 1	
6 4	F 0 2 7	165	P	S 0 1	
6 5	F 0 2 8	100	P	S 0 1	
6 6	F 0 3 2	100	P	S 0 1	
6 7	F 0 3 4	100	P	S 0 1	
6 8	F 0 3 5	100	P	S 0 1	
6 9	F 0 3 7	100	P	S 0 1	
7 0	F 0 3 8	100	P	S 0 1	
7 1	F 0 3 9	100	P	S 0 1	
7 2	K 0 4 4	100	P	S 0 1	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 50 (continued)					
7 3	K 0 4 5	100	P	S 0 1	
7 4	K 0 4 6	100	P	S 0 1	
7 5	K 0 4 7	100	P	S 0 1	
7 6	K 0 8 4	100	P	S 0 1	
7 7	K 1 0 1	100	P	S 0 1	
7 8	K 1 0 2	100	P	S 0 1	
7 9	P 0 0 1	100	P	S 0 1	
8 0	P 0 0 2	100	P	S 0 1	
8 1	P 0 0 3	293	P	S 0 1	
8 2	P 0 0 4	100	P	S 0 1	
8 3	P 0 0 5	100	P	S 0 1	
8 4	P 0 0 6	143	P	S 0 1	
8 5	P 0 0 7	100	P	S 0 1	
8 6	P 0 0 8	100	P	S 0 1	
8 7	P 0 0 9	100	P	S 0 1	
8 8	P 0 1 0	100	P	S 0 1	
8 9	P 0 1 1	143	P	S 0 1	
9 0	P 0 1 2	293	P	S 0 1	
9 1	P 0 1 3	100	P	S 0 1	
9 2	P 0 1 4	100	P	S 0 1	
9 3	P 0 1 5	293	P	S 0 1	
9 4	P 0 1 6	100	P	S 0 1	
9 5	P 0 1 7	100	P	S 0 1	
9 6	P 0 1 8	100	P	S 0 1	
9 7	P 0 2 0	100	P	S 0 1	
9 8	P 0 2 1	100	P	S 0 1	
9 9	P 0 2 2	100	P	S 0 1	
10 0	P 0 2 3	100	P	S 0 1	
10 1	P 0 2 4	100	P	S 0 1	
10 2	P 0 2 6	100	P	S 0 1	
10 3	P 0 2 7	100	P	S 0 1	
10 4	P 0 2 8	100	P	S 0 1	
10 5	P 0 2 9	293	P	S 0 1	
10 6	P 0 3 0	485	P	S 0 1	
10 7	P 0 3 1	485	P	S 0 1	
10 8	P 0 3 3	143	P	S 0 1	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 50 (continued)					
10	P034	100	P	S01	
11	P036	100	P	S01	
11	P037	100	P	S01	
11	P038	227	P	S01	
11	P039	100	P	S01	
11	P040	100	P	S01	
11	P041	100	P	S01	
11	P042	100	P	S01	
11	P043	143	P	S01	
11	P044	100	P	S01	
11	P045	100	P	S01	
12	P046	100	P	S01	
12	P047	100	P	S01	
12	P048	143	P	S01	
12	P049	100	P	S01	
12	P050	100	P	S01	
12	P051	100	P	S01	
12	P054	100	P	S01	
12	P056	2,624	P	S01	
12	P057	100	P	S01	
12	P058	100	P	S01	
13	P059	100	P	S01	
13	P060	100	P	S01	
13	P062	100	P	S01	
13	P063	293	P	S01	
13	P064	100	P	S01	
13	P065	100	P	S01	
13	P066	100	P	S01	
13	P067	100	P	S01	
13	P068	293	P	S01	
13	P069	100	P	S01	
14	P070	100	P	S01	
14	P071	100	P	S01	
14	P072	100	P	S01	
14	P073	293	P	S01	
14	P074	100	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 50 (continued)					
145	P075	100	P	S01	
146	P076	403	P	S01	
147	P077	100	P	S01	
148	P078	425	P	S01	
149	P081	100	P	S01	
150	P082	100	P	S01	
151	P084	100	P	S01	
152	P085	100	P	S01	
153	P087	100	P	S01	
154	P088	100	P	S01	
155	P089	100	P	S01	
156	P092	143	P	S01	
157	P093	100	P	S01	
158	P094	100	P	S01	
159	P095	293	P	S01	
160	P096	293	P	S01	
161	P097	100	P	S01	
162	P098	293	P	S01	
163	P099	100	P	S01	
164	P101	100	P	S01	
165	P102	100	P	S01	
166	P103	100	P	S01	
167	P104	143	P	S01	
168	P105	143	P	S01	
169	P106	293	P	S01	
170	P108	100	P	S01	
171	P109	100	P	S01	
172	P110	100	P	S01	
173	P111	100	P	S01	
174	P112	143	P	S01	
175	P113	293	P	S01	
176	P114	100	P	S01	
177	P115	100	P	S01	
178	P116	100	P	S01	
179	P118	100	P	S01	
180	P119	143	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 50 (continued)					
18	P120	293	P	S01	
18	P121	100	P	S01	
18	P122	100	P	S01	
18	P123	100	P	S01	
18	P127	100	P	S01	
18	P128	100	P	S01	
18	P185	100	P	S01	
18	P188	100	P	S01	
18	P189	100	P	S01	
19	P190	100	P	S01	
19	P191	100	P	S01	
19	P192	100	P	S01	
19	P193	100	P	S01	
19	P196	100	P	S01	
19	P197	100	P	S01	
19	P198	100	P	S01	
19	P199	100	P	S01	
19	P201	100	P	S01	
19	P202	100	P	S01	
20	P203	100	P	S01	
20	P204	100	P	S01	
20	P205	100	P	S01	
20	U001	293	P	S01	
20	U002	954	P	S01	
20	U003	485	P	S01	
20	U004	100	P	S01	
20	U005	100	P	S01	
20	U008	100	P	S01	
20	U009	143	P	S01	
21	U010	143	P	S01	
21	U011	143	P	S01	
21	U012	100	P	S01	
21	U013	100	P	S01	
21	U014	293	P	S01	
21	U015	100	P	S01	
21	U016	100	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 50 (continued)					
21	U016	100	P	S01	
21	U017	100	P	S01	
21	U018	143	P	S01	
22	U019	470	P	S01	
22	U020	100	P	S01	
22	U021	100	P	S01	
22	U022	293	P	S01	
22	U023	100	P	S01	
22	U024	100	P	S01	
22	U025	100	P	S01	
22	U026	100	P	S01	
22	U027	100	P	S01	
22	U028	100	P	S01	
23	U029	293	P	S01	
23	U030	100	P	S01	
23	U031	293	P	S01	
23	U032	100	P	S01	
23	U034	143	P	S01	
23	U035	100	P	S01	
23	U036	100	P	S01	
23	U037	100	P	S01	
23	U038	143	P	S01	
23	U039	100	P	S01	
24	U039	100	P	S01	
24	U041	143	P	S01	
24	U042	100	P	S01	
24	U043	100	P	S01	
24	U044	293	P	S01	
24	U045	293	P	S01	
24	U046	100	P	S01	
24	U047	100	P	S01	
24	U048	100	P	S01	
24	U049	100	P	S01	
25	U050	100	P	S01	
25	U051	100	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 50 (continued)					
25	U052	293	P	S01	
25	U053	100	P	S01	
25	U055	143	P	S01	
25	U056	293	P	S01	
25	U057	293	P	S01	
25	U058	100	P	S01	
25	U059	100	P	S01	
25	U060	100	P	S01	
26	U061	100	P	S01	
26	U062	100	P	S01	
26	U063	100	P	S01	
26	U064	100	P	S01	
26	U066	100	P	S01	
26	U067	143	P	S01	
26	U068	143	P	S01	
26	U069	100	P	S01	
26	U070	165	P	S01	
26	U071	100	P	S01	
27	U072	100	P	S01	
27	U073	100	P	S01	
27	U074	100	P	S01	
27	U075	381	P	S01	
27	U076	100	P	S01	
27	U077	293	P	S01	
27	U078	100	P	S01	
27	U079	100	P	S01	
27	U080	4,129	P	S01	T04
27	U081	100	P	S01	
28	U082	100	P	S01	
28	U083	100	P	S01	
28	U084	100	P	S01	
28	U085	143	P	S01	
28	U086	100	P	S01	
28	U087	100	P	S01	
28	U088	100	P	S01	
28	U089	100	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 50 (continued)					
28	U090	100	P	S01	
28	U091	518	P	S01	
29	U092	143	P	S01	
29	U093	100	P	S01	
29	U094	100	P	S01	
29	U095	100	P	S01	
29	U096	100	P	S01	
29	U097	100	P	S01	
29	U098	100	P	S01	
29	U099	100	P	S01	
29	U101	100	P	S01	
29	U102	100	P	S01	
30	U103	143	P	S01	
30	U105	100	P	S01	
30	U106	100	P	S01	
30	U107	100	P	S01	
30	U108	293	P	S01	
30	U109	143	P	S01	
30	U110	100	P	S01	
30	U111	100	P	S01	
30	U112	293	P	S01	
30	U113	100	P	S01	
31	U114	100	P	S01	
31	U115	293	P	S01	
31	U116	100	P	S01	
31	U117	293	P	S01	
31	U118	100	P	S01	
31	U119	100	P	S01	
31	U120	100	P	S01	
31	U121	293	P	S01	
31	U122	778	P	S01	
31	U123	293	P	S01	
32	U124	143	P	S01	
32	U125	100	P	S01	
32	U126	100	P	S01	
32	U127	100	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 50 (continued)					
32	U128	100	P	S01	
32	U129	100	P	S01	
32	U130	100	P	S01	
32	U131	293	P	S01	
32	U132	100	P	S01	
32	U133	293	P	S01	
33	U134	667	P	S01	
33	U135	447	P	S01	
33	U136	143	P	S01	
33	U137	100	P	S01	
33	U138	100	P	S01	
33	U140	293	P	S01	
33	U141	100	P	S01	
33	U142	100	P	S01	
33	U143	100	P	S01	
33	U144	293	P	S01	
34	U145	293	P	S01	
34	U146	100	P	S01	
34	U147	100	P	S01	
34	U148	100	P	S01	
34	U149	100	P	S01	
34	U150	100	P	S01	
34	U151	884	P	S01	
34	U152	100	P	S01	
34	U153	143	P	S01	
34	U154	359	P	S01	
35	U155	100	P	S01	
35	U156	100	P	S01	
35	U157	100	P	S01	
35	U158	100	P	S01	
35	U159	315	P	S01	
35	U160	293	P	S01	
35	U161	470	P	S01	
35	U162	143	P	S01	
35	U163	143	P	S01	
35	U164	100	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 50 (continued)					
36	U161	293	P	S01	
36	U166	100	P	S01	
36	U167	143	P	S01	
36	U168	143	P	S01	
36	U169	293	P	S01	
36	U170	143	P	S01	
36	U171	100	P	S01	
36	U172	100	P	S01	
36	U173	100	P	S01	
36	U174	100	P	S01	
37	U176	100	P	S01	
37	U177	100	P	S01	
37	U178	100	P	S01	
37	U179	100	P	S01	
37	U180	100	P	S01	
37	U181	100	P	S01	
37	U182	100	P	S01	
37	U183	100	P	S01	
37	U184	100	P	S01	
37	U185	100	P	S01	
38	U186	100	P	S01	
38	U187	100	P	S01	
38	U188	293	P	S01	
38	U189	100	P	S01	
38	U190	293	P	S01	
38	U191	100	P	S01	
38	U192	100	P	S01	
38	U193	100	P	S01	
38	U194	100	P	S01	
38	U196	293	P	S01	
39	U197	100	P	S01	
39	U200	100	P	S01	
39	U201	100	P	S01	
39	U202	100	P	S01	
39	U203	100	P	S01	
39	U204	293	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 50 (continued)					
39	U205	100	P	S01	
39	U206	100	P	S01	
39	U207	100	P	S01	
39	U208	100	P	S01	
40	U209	100	P	S01	
40	U210	513	P	S01	
40	U211	359	P	S01	
40	U213	293	P	S01	
40	U214	100	P	S01	
40	U215	100	P	S01	
40	U216	293	P	S01	
40	U217	100	P	S01	
40	U218	293	P	S01	
40	U219	293	P	S01	
41	U220	491	P	S01	
41	U221	100	P	S01	
41	U222	100	P	S01	
41	U223	143	P	S01	
41	U225	293	P	S01	
41	U226	6,594	P	S01	
41	U227	293	P	S01	
41	U228	1,219	P	S01	
41	U234	100	P	S01	
41	U235	100	P	S01	
42	U236	100	P	S01	
42	U237	100	P	S01	
42	U238	100	P	S01	
42	U239	646	P	S01	
42	U240	143	P	S01	
42	U243	100	P	S01	
42	U244	100	P	S01	
42	U246	231	P	S01	
42	U247	100	P	S01	
42	U248	100	P	S01	
43	U249	100	P	S01	
43	U271	100	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 50 (continued)					
43	U278	100	P	S01	
43	U279	100	P	S01	
43	U280	100	P	S01	
43	U283	100	P	S01	
43	U353	100	P	S01	
43	U359	100	P	S01	
43	U364	100	P	S01	
43	U367	100	P	S01	
44	U372	100	P	S01	
44	U373	100	P	S01	
44	U387	100	P	S01	
44	U389	100	P	S01	
44	U394	100	P	S01	
44	U395	100	P	S01	
44	U404	100	P	S01	
44	U409	100	P	S01	
44	U410	100	P	S01	
44	U411	100	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, Area L					
	1	D001	220,000	P	S01
	2	D002	365,000	P	S01
	3	D003	100,000	P	S01
	4	D004	25,000	P	S01 T04
	5	D005	80,000	P	S01 T04
	6	D006	65,000	P	S01 T04
	7	D007	75,000	P	S01 T04
	8	D008	800,000	P	S01 T04
	9	D009	65,000	P	S01 T04
1	0	D010	30,000	P	S01 T04
1	1	D011	40,000	P	S01 T04
1	2	D012	12,000	P	S01
1	3	D013	4,000	P	S01
1	4	D014	4,000	P	S01
1	5	D015	7,000	P	S01
1	6	D016	4,000	P	S01
1	7	D017	4,000	P	S01
1	8	D018	20,000	P	S01 T04
1	9	D019	20,000	P	S01 T04
2	0	D020	30,000	P	S01 T04
2	1	D021	10,000	P	S01 T04
2	2	D022	23,000	P	S01 T04
2	3	D023	4,000	P	S01 T04
2	4	D024	4,000	P	S01 T04
2	5	D025	4,000	P	S01 T04
2	6	D026	4,000	P	S01 T04
2	7	D027	12,000	P	S01 T04
2	8	D028	30,000	P	S01 T04
2	9	D029	7,000	P	S01 T04
3	0	D030	20,000	P	S01 T04
3	1	D031	12,000	P	S01 T04
3	2	D032	19,000	P	S01 T04
3	3	D033	19,000	P	S01 T04
3	4	D034	19,000	P	S01 T04
3	5	D035	20,000	P	S01 T04
3	6	D036	9,000	P	S01 T04

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, Area L (continued)					
3 7	D 0 3 7	7,000	P	S 0 1 T 0 4	
3 8	D 0 3 8	4,000	P	S 0 1 T 0 4	
3 9	D 0 3 9	10,000	P	S 0 1 T 0 4	
4 0	D 0 4 0	15,000	P	S 0 1 T 0 4	
4 1	D 0 4 1	7,000	P	S 0 1 T 0 4	
4 2	D 0 4 2	12,000	P	S 0 1 T 0 4	
4 3	D 0 4 3	15,000	P	S 0 1 T 0 4	
4 4	F 0 0 1	660,000	P	S 0 1 T 0 4	
4 5	F 0 0 2	350,000	P	S 0 1 T 0 4	
4 6	F 0 0 3	250,000	P	S 0 1	
4 7	F 0 0 4	30,000	P	S 0 1 T 0 4	
4 8	F 0 0 5	250,000	P	S 0 1	
4 9	F 0 0 6	7,000	P	S 0 1	
5 0	F 0 0 7	28,000	P	S 0 1	
5 1	F 0 0 8	7,000	P	S 0 1	
5 2	F 0 0 9	8,000	P	S 0 1	
5 3	F 0 1 0	4,000	P	S 0 1	
5 4	F 0 1 1	4,000	P	S 0 1	
5 5	F 0 1 2	4,000	P	S 0 1	
5 6	F 0 1 9	500	P	S 0 1	
5 7	F 0 2 0	500	P	S 0 1	
5 8	F 0 2 1	500	P	S 0 1	
5 9	F 0 2 2	500	P	S 0 1	
6 0	F 0 2 3	500	P	S 0 1	
6 1	F 0 2 4	500	P	S 0 1	
6 2	F 0 2 5	500	P	S 0 1	
6 3	F 0 2 6	500	P	S 0 1	
6 4	F 0 2 7	4,000	P	S 0 1	
6 5	F 0 2 8	4,000	P	S 0 1	
6 6	F 0 3 2	500	P	S 0 1	
6 7	F 0 3 4	500	P	S 0 1	
6 8	F 0 3 5	500	P	S 0 1	
6 9	F 0 3 7	500	P	S 0 1	
7 0	F 0 3 8	500	P	S 0 1	
7 1	F 0 3 9	4,000	P	S 0 1	
7 2	K 0 4 4	22,000	P	S 0 1	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, Area L (continued)					
7 3	K 0 4 5	4,000	P	S 0 1	
7 4	K 0 4 6	4,000	P	S 0 1	
7 5	K 0 4 7	4,000	P	S 0 1	
7 6	K 0 8 4	500	P	S 0 1	
7 7	K 1 0 1	500	P	S 0 1	
7 8	K 1 0 2	500	P	S 0 1	
7 9	P 0 0 1	4,000	P	S 0 1	
8 0	P 0 0 2	4,000	P	S 0 1	
8 1	P 0 0 3	4,000	P	S 0 1	
8 2	P 0 0 4	4,000	P	S 0 1	
8 3	P 0 0 5	4,000	P	S 0 1	
8 4	P 0 0 6	4,000	P	S 0 1	
8 5	P 0 0 7	4,000	P	S 0 1	
8 6	P 0 0 8	4,000	P	S 0 1	
8 7	P 0 0 9	4,000	P	S 0 1	
8 8	P 0 1 0	4,000	P	S 0 1	
8 9	P 0 1 1	4,000	P	S 0 1	
9 0	P 0 1 2	4,000	P	S 0 1	
9 1	P 0 1 3	4,000	P	S 0 1	
9 2	P 0 1 4	4,000	P	S 0 1	
9 3	P 0 1 5	4,000	P	S 0 1	
9 4	P 0 1 6	4,000	P	S 0 1	
9 5	P 0 1 7	4,000	P	S 0 1	
9 6	P 0 1 8	4,000	P	S 0 1	
9 7	P 0 2 0	4,000	P	S 0 1	
9 8	P 0 2 1	4,000	P	S 0 1	
9 9	P 0 2 2	4,000	P	S 0 1	
10 0	P 0 2 3	4,000	P	S 0 1	
10 1	P 0 2 4	4,000	P	S 0 1	
10 2	P 0 2 6	4,000	P	S 0 1	
10 3	P 0 2 7	4,000	P	S 0 1	
10 4	P 0 2 8	4,000	P	S 0 1	
10 5	P 0 2 9	4,000	P	S 0 1	
10 6	P 0 3 0	4,000	P	S 0 1	
10 7	P 0 3 1	4,000	P	S 0 1	
10 8	P 0 3 3	4,000	P	S 0 1	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, Area L (continued)					
10	P034	4,000	P	S01	
11	P036	4,000	P	S01	
11	P037	4,000	P	S01	
11	P038	4,000	P	S01	
11	P039	4,000	P	S01	
11	P040	4,000	P	S01	
11	P041	4,000	P	S01	
11	P042	4,000	P	S01	
11	P043	4,000	P	S01	
11	P044	4,000	P	S01	
11	P045	4,000	P	S01	
12	P046	4,000	P	S01	
12	P047	4,000	P	S01	
12	P048	4,000	P	S01	
12	P049	4,000	P	S01	
12	P050	4,000	P	S01	
12	P051	4,000	P	S01	
12	P054	4,000	P	S01	
12	P056	4,000	P	S01	
12	P057	4,000	P	S01	
12	P058	4,000	P	S01	
12	P059	4,000	P	S01	
13	P060	4,000	P	S01	
13	P062	4,000	P	S01	
13	P063	4,000	P	S01	
13	P064	4,000	P	S01	
13	P065	4,000	P	S01	
13	P066	4,000	P	S01	
13	P067	4,000	P	S01	
13	P068	4,000	P	S01	
13	P069	4,000	P	S01	
14	P070	4,000	P	S01	
14	P071	4,000	P	S01	
14	P072	4,000	P	S01	
14	P073	4,000	P	S01	
14	P074	4,000	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, Area L (continued)					
145	P075	4,000	P	S01	
146	P076	4,000	P	S01	
147	P077	4,000	P	S01	
148	P078	4,000	P	S01	
149	P081	4,000	P	S01	
150	P082	4,000	P	S01	
151	P084	4,000	P	S01	
152	P085	4,000	P	S01	
153	P087	4,000	P	S01	
154	P088	4,000	P	S01	
155	P089	4,000	P	S01	
156	P092	4,000	P	S01	
157	P093	4,000	P	S01	
158	P094	4,000	P	S01	
159	P095	4,000	P	S01	
160	P096	4,000	P	S01	
161	P097	4,000	P	S01	
162	P098	4,000	P	S01	
163	P099	4,000	P	S01	
164	P101	4,000	P	S01	
165	P102	4,000	P	S01	
166	P103	4,000	P	S01	
167	P104	4,000	P	S01	
168	P105	4,000	P	S01	
169	P106	4,000	P	S01	
170	P108	4,000	P	S01	
171	P109	4,000	P	S01	
172	P110	4,000	P	S01	
173	P111	4,000	P	S01	
174	P112	4,000	P	S01	
175	P113	4,000	P	S01	
176	P114	4,000	P	S01	
177	P115	4,000	P	S01	
178	P116	4,000	P	S01	
179	P118	4,000	P	S01	
180	P119	4,000	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, Area L (continued)					
18 1	P 1 2 0	4,000	P	S 0 1	
18 2	P 1 2 1	4,000	P	S 0 1	
18 3	P 1 2 2	4,000	P	S 0 1	
18 4	P 1 2 3	4,000	P	S 0 1	
18 5	P 1 2 7	4,000	P	S 0 1	
18 6	P 1 2 8	4,000	P	S 0 1	
18 7	P 1 8 5	4,000	P	S 0 1	
18 8	P 1 8 8	4,000	P	S 0 1	
18 9	P 1 8 9	4,000	P	S 0 1	
19 0	P 1 9 0	4,000	P	S 0 1	
19 1	P 1 9 1	4,000	P	S 0 1	
19 2	P 1 9 2	4,000	P	S 0 1	
19 3	P 1 9 4	4,000	P	S 0 1	
19 4	P 1 9 6	4,000	P	S 0 1	
19 5	P 1 9 7	4,000	P	S 0 1	
19 6	P 1 9 8	4,000	P	S 0 1	
19 7	P 1 9 9	4,000	P	S 0 1	
19 8	P 2 0 1	4,000	P	S 0 1	
19 9	P 2 0 2	4,000	P	S 0 1	
20 0	P 2 0 3	4,000	P	S 0 1	
20 1	P 2 0 4	4,000	P	S 0 1	
20 2	P 2 0 5	4,000	P	S 0 1	
20 3	U 0 0 1	4,000	P	S 0 1	
20 4	U 0 0 2	4,000	P	S 0 1	
20 5	U 0 0 3	4,000	P	S 0 1	
20 6	U 0 0 4	4,000	P	S 0 1	
20 7	U 0 0 5	4,000	P	S 0 1	
20 8	U 0 0 6	4,000	P	S 0 1	
20 9	U 0 0 7	4,000	P	S 0 1	
21 0	U 0 0 8	4,000	P	S 0 1	
21 1	U 0 0 9	4,000	P	S 0 1	
21 2	U 0 1 0	4,000	P	S 0 1	
21 3	U 0 1 1	4,000	P	S 0 1	
21 4	U 0 1 2	4,000	P	S 0 1	
21 5	U 0 1 4	4,000	P	S 0 1	
21 6	U 0 1 5	4,000	P	S 0 1	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, Area L (continued)					
21	U016	4,000	P	S01	
21	U017	4,000	P	S01	
21	U018	4,000	P	S01	
22	U019	4,000	P	S01	
22	U020	4,000	P	S01	
22	U021	4,000	P	S01	
22	U022	4,000	P	S01	
22	U023	4,000	P	S01	
22	U024	4,000	P	S01	
22	U025	4,000	P	S01	
22	U026	4,000	P	S01	
22	U027	4,000	P	S01	
22	U028	4,000	P	S01	
22	U029	4,000	P	S01	
23	U030	4,000	P	S01	
23	U031	4,000	P	S01	
23	U032	4,000	P	S01	
23	U033	4,000	P	S01	
23	U034	4,000	P	S01	
23	U035	4,000	P	S01	
23	U036	4,000	P	S01	
23	U037	4,000	P	S01	
23	U038	4,000	P	S01	
23	U039	4,000	P	S01	
24	U040	4,000	P	S01	
24	U041	4,000	P	S01	
24	U042	4,000	P	S01	
24	U043	4,000	P	S01	
24	U044	4,000	P	S01	
24	U045	4,000	P	S01	
24	U046	4,000	P	S01	
24	U047	4,000	P	S01	
24	U048	4,000	P	S01	
24	U049	4,000	P	S01	
25	U050	4,000	P	S01	
25	U051	4,000	P	S01	
25	U052	4,000	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, Area L (continued)					
25	U053	4,000	P	S01	
25	U054	4,000	P	S01	
25	U055	4,000	P	S01	
25	U056	4,000	P	S01	
25	U057	4,000	P	S01	
25	U058	4,000	P	S01	
25	U059	4,000	P	S01	
26	U060	4,000	P	S01	
26	U061	4,000	P	S01	
26	U062	4,000	P	S01	
26	U063	4,000	P	S01	
26	U064	4,000	P	S01	
26	U065	4,000	P	S01	
26	U066	4,000	P	S01	
26	U067	4,000	P	S01	
26	U068	4,000	P	S01	
26	U069	4,000	P	S01	
26	U070	4,000	P	S01	
26	U071	4,000	P	S01	
27	U072	4,000	P	S01	
27	U073	4,000	P	S01	
27	U074	4,000	P	S01	
27	U075	4,000	P	S01	
27	U076	4,000	P	S01	
27	U077	4,000	P	S01	
27	U078	4,000	P	S01	
27	U079	4,000	P	S01	
27	U080	4,000	P	S01	
27	U081	4,000	P	S01	
28	U082	4,000	P	S01	
28	U083	4,000	P	S01	
28	U084	4,000	P	S01	
28	U085	4,000	P	S01	
28	U086	4,000	P	S01	
28	U087	4,000	P	S01	
28	U088	4,000	P	S01	
28	U089	4,000	P	S01	
28	U090	4,000	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, Area L (continued)					
28	U091	4,000	P	S01	
29	U092	4,000	P	S01	
29	U093	4,000	P	S01	
29	U094	4,000	P	S01	
29	U095	4,000	P	S01	
29	U096	4,000	P	S01	
29	U097	4,000	P	S01	
29	U098	4,000	P	S01	
29	U099	4,000	P	S01	
29	U101	4,000	P	S01	
29	U102	4,000	P	S01	
30	U103	4,000	P	S01	
30	U105	4,000	P	S01	
30	U106	4,000	P	S01	
30	U107	4,000	P	S01	
30	U108	4,000	P	S01	
30	U109	4,000	P	S01	
30	U110	4,000	P	S01	
30	U111	4,000	P	S01	
30	U112	4,000	P	S01	
30	U113	4,000	P	S01	
31	U114	4,000	P	S01	
31	U115	4,000	P	S01	
31	U116	4,000	P	S01	
31	U117	4,000	P	S01	
31	U118	4,000	P	S01	
31	U119	4,000	P	S01	
31	U120	4,000	P	S01	
31	U121	4,000	P	S01	
31	U122	4,000	P	S01	
31	U123	4,000	P	S01	
32	U124	4,000	P	S01	
32	U125	4,000	P	S01	
32	U126	4,000	P	S01	
32	U127	4,000	P	S01	
32	U128	4,000	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, Area L (continued)					
32	U113	4,000	P	S01	
32	U136	4,000	P	S01	
32	U137	4,000	P	S01	
32	U138	4,000	P	S01	
32	U139	4,000	P	S01	
33	U140	4,000	P	S01	
33	U141	4,000	P	S01	
33	U142	4,000	P	S01	
33	U143	4,000	P	S01	
33	U144	4,000	P	S01	
33	U145	4,000	P	S01	
33	U146	4,000	P	S01	
33	U147	4,000	P	S01	
33	U148	4,000	P	S01	
33	U149	4,000	P	S01	
34	U150	4,000	P	S01	
34	U151	4,000	P	S01	
34	U152	4,000	P	S01	
34	U153	4,000	P	S01	
34	U154	4,000	P	S01	
34	U155	4,000	P	S01	
34	U156	4,000	P	S01	
34	U157	4,000	P	S01	
34	U158	4,000	P	S01	
34	U159	4,000	P	S01	
35	U160	4,000	P	S01	
35	U161	4,000	P	S01	
35	U162	4,000	P	S01	
35	U163	4,000	P	S01	
35	U164	4,000	P	S01	
35	U165	4,000	P	S01	
35	U166	4,000	P	S01	
35	U167	4,000	P	S01	
35	U168	4,000	P	S01	
35	U169	4,000	P	S01	
36	U165	4,000	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, Area L (continued)					
36	U166	4,000	P	S01	
36	U167	4,000	P	S01	
36	U168	4,000	P	S01	
36	U169	4,000	P	S01	
36	U170	4,000	P	S01	
36	U171	4,000	P	S01	
36	U172	4,000	P	S01	
36	U173	4,000	P	S01	
36	U174	4,000	P	S01	
37	U176	4,000	P	S01	
37	U177	4,000	P	S01	
37	U178	4,000	P	S01	
37	U179	4,000	P	S01	
37	U180	4,000	P	S01	
37	U181	4,000	P	S01	
37	U182	4,000	P	S01	
37	U183	4,000	P	S01	
37	U184	4,000	P	S01	
37	U185	4,000	P	S01	
38	U186	4,000	P	S01	
38	U187	4,000	P	S01	
38	U188	4,000	P	S01	
38	U189	4,000	P	S01	
38	U190	4,000	P	S01	
38	U191	4,000	P	S01	
38	U192	4,000	P	S01	
38	U193	4,000	P	S01	
38	U194	4,000	P	S01	
38	U196	4,000	P	S01	
39	U197	4,000	P	S01	
39	U200	4,000	P	S01	
39	U201	4,000	P	S01	
39	U202	4,000	P	S01	
39	U203	4,000	P	S01	
39	U204	4,000	P	S01	
39	U205	4,000	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, Area L (continued)					
39	U206	4,000	P	S01	
39	U207	4,000	P	S01	
39	U208	4,000	P	S01	
40	U209	4,000	P	S01	
40	U210	4,000	P	S01	
40	U211	4,000	P	S01	
40	U213	4,000	P	S01	
40	U214	4,000	P	S01	
40	U215	4,000	P	S01	
40	U216	4,000	P	S01	
40	U217	4,000	P	S01	
40	U218	4,000	P	S01	
40	U219	4,000	P	S01	
41	U220	7,000	P	S01	
41	U221	4,000	P	S01	
41	U222	4,000	P	S01	
41	U223	4,000	P	S01	
41	U225	4,000	P	S01	
41	U226	7,000	P	S01	
41	U227	4,000	P	S01	
41	U228	7,000	P	S01	
41	U234	4,000	P	S01	
41	U235	4,000	P	S01	
42	U236	4,000	P	S01	
42	U237	4,000	P	S01	
42	U238	4,000	P	S01	
42	U239	7,000	P	S01	
42	U240	4,000	P	S01	
42	U243	4,000	P	S01	
42	U244	4,000	P	S01	
42	U246	4,000	P	S01	
42	U247	4,000	P	S01	
42	U248	4,000	P	S01	
43	U249	4,000	P	S01	
43	U271	4,000	P	S01	
43	U278	4,000	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, Area L (continued)					
43	U279	4,000	P	S01	
44	U280	4,000	P	S01	
45	U328	4,000	P	S01	
46	U353	4,000	P	S01	
47	U359	4,000	P	S01	
48	U364	4,000	P	S01	
49	U367	4,000	P	S01	
50	U372	4,000	P	S01	
51	U373	4,000	P	S01	
52	U387	4,000	P	S01	
53	U389	4,000	P	S01	
54	U394	4,000	P	S01	
55	U395	4,000	P	S01	
56	U404	4,000	P	S01	
57	U409	4,000	P	S01	
58	U410	4,000	P	S01	
59	U411	4,000	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, Material Disposal Area L (Impoundments B and D/ Shafts 1, 13-17, and 19-34)					
	1 D 0 0 1	82,000	P	D 8 0	
	2 D 0 0 2	17,200	P	D 8 0	
	3 D 0 0 3	750	P	D 8 0	
	4 D 0 0 4	1,700	P	D 8 0	
	5 D 0 0 6	650	P	D 8 0	
	6 D 0 0 7	1,000	P	D 8 0	
	7 D 0 0 8	1,250	P	D 8 0	
	8 D 0 0 9	2,200	P	D 8 0	
	9 D 0 1 1	100	P	D 8 0	
1	0 D 0 1 6	600	P	D 8 0	
1	1 F 0 0 2	1,400	P	D 8 0	
1	2 P 0 1 5	4,000	P	D 8 0	
1	3 P 0 8 7	15	P	D 8 0	
1	4 U 0 0 2	5,000	P	D 8 0	
1	5 U 0 1 9	200	P	D 8 0	
1	6 U 0 6 9	500	P	D 8 0	
1	7 U 0 8 0	2,000	P	D 8 0	
1	8 U 1 2 2	550	P	D 8 0	
1	9 U 1 5 1	35	P	D 8 0	
2	0 U 1 5 4	550	P	D 8 0	
2	1 U 1 5 9	300	P	D 8 0	
2	2 U 1 6 1	500	P	D 8 0	
2	3 U 1 6 5	140	P	D 8 0	
2	4 U 2 2 0	620	P	D 8 0	
2	5 U 2 2 6	10,000	P	D 8 0	
2	6 U 2 2 8	4,400	P	D 8 0	
2	7 U 2 3 9	345	P	D 8 0	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, Area G					
	1	D001	330,000	P	S01 T04
	2	D002	395,000	P	S01 T04
	3	D003	185,000	P	S01 T04
	4	D004	2,525,000	P	S01 T04
	5	D005	82,000	P	S01 T04
	6	D006	515,000	P	S01 T04
	7	D007	3,775,000	P	S01 T04
	8	D008	5,400,000	P	S01 T04
	9	D009	100,000	P	S01 T04
10		D010	45,000	P	S01 T04
11		D011	2,540,000	P	S01 T04
12		D012	18,000	P	S01
13		D013	4,000	P	S01
14		D014	4,000	P	S01
15		D015	7,000	P	S01
16		D016	4,000	P	S01
17		D017	4,000	P	S01
18		D018	30,000	P	S01 T04
19		D019	25,000	P	S01 T04
20		D020	30,000	P	S01 T04
21		D021	15,000	P	S01 T04
22		D022	33,000	P	S01 T04
23		D023	4,000	P	S01 T04
24		D024	4,000	P	S01 T04
25		D025	4,000	P	S01 T04
26		D026	4,000	P	S01 T04
27		D027	22,000	P	S01 T04
28		D028	40,000	P	S01 T04
29		D029	7,000	P	S01 T04
30		D030	30,000	P	S01 T04
31		D031	22,000	P	S01 T04
32		D032	29,000	P	S01 T04
33		D033	29,000	P	S01 T04
34		D034	29,000	P	S01 T04
35		D035	30,000	P	S01 T04
36		D036	19,000	P	S01 T04

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, Area G (continued)					
3 7	D 0 3 7	7,000	P	S 0 1 T 0 4	
3 8	D 0 3 8	14,000	P	S 0 1 T 0 4	
3 9	D 0 3 9	20,000	P	S 0 1 T 0 4	
4 0	D 0 4 0	25,000	P	S 0 1 T 0 4	
4 1	D 0 4 1	17,000	P	S 0 1 T 0 4	
4 2	D 0 4 2	22,000	P	S 0 1 T 0 4	
4 3	D 0 4 3	25,000	P	S 0 1 T 0 4	
4 4	F 0 0 1	6,410,000	P	S 0 1 T 0 4	
4 5	F 0 0 2	3,450,000	P	S 0 1 T 0 4	
4 6	F 0 0 3	2,850,000	P	S 0 1	
4 7	F 0 0 4	35,000	P	S 0 1 T 0 4	
4 8	F 0 0 5	3,250,000	P	S 0 1	
4 9	F 0 0 6	7,000	P	S 0 1	
5 0	F 0 0 7	18,000	P	S 0 1	
5 1	F 0 0 8	7,000	P	S 0 1	
5 2	F 0 0 9	8,000	P	S 0 1	
5 3	F 0 1 0	4,000	P	S 0 1	
5 4	F 0 1 1	4,000	P	S 0 1	
5 5	F 0 1 2	4,000	P	S 0 1	
5 6	F 0 1 9	4,000	P	S 0 1	
5 7	F 0 2 0	4,000	P	S 0 1	
5 8	F 0 2 1	4,000	P	S 0 1	
5 9	F 0 2 2	4,000	P	S 0 1	
6 0	F 0 2 3	4,000	P	S 0 1	
6 1	F 0 2 4	4,000	P	S 0 1	
6 2	F 0 2 5	4,000	P	S 0 1	
6 3	F 0 2 6	4,000	P	S 0 1	
6 4	F 0 2 7	4,000	P	S 0 1	
6 5	F 0 2 8	4,000	P	S 0 1	
6 6	F 0 3 2	4,000	P	S 0 1	
6 7	F 0 3 4	4,000	P	S 0 1	
6 8	F 0 3 5	4,000	P	S 0 1	
6 9	F 0 3 7	4,000	P	S 0 1	
7 0	F 0 3 8	4,000	P	S 0 1	
7 1	F 0 3 9	4,000	P	S 0 1	
7 2	K 0 4 4	22,000	P	S 0 1	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, Area G (continued)					
7 3	K 0 4 5	4,000	P	S 0 1	
7 4	K 0 4 6	4,000	P	S 0 1	
7 5	K 0 4 7	4,000	P	S 0 1	
7 6	K 0 8 4	500	P	S 0 1	
7 7	K 1 0 1	500	P	S 0 1	
7 8	K 1 0 2	500	P	S 0 1	
7 9	P 0 0 1	4,000	P	S 0 1	
8 0	P 0 0 2	4,000	P	S 0 1	
8 1	P 0 0 3	4,100	P	S 0 1	
8 2	P 0 0 4	4,000	P	S 0 1	
8 3	P 0 0 5	4,000	P	S 0 1	
8 4	P 0 0 6	4,000	P	S 0 1	
8 5	P 0 0 7	4,000	P	S 0 1	
8 6	P 0 0 8	4,000	P	S 0 1	
8 7	P 0 0 9	4,000	P	S 0 1	
8 8	P 0 1 0	4,000	P	S 0 1	
8 9	P 0 1 1	4,000	P	S 0 1	
9 0	P 0 1 2	4,100	P	S 0 1	
9 1	P 0 1 3	4,000	P	S 0 1	
9 2	P 0 1 4	4,000	P	S 0 1	
9 3	P 0 1 5	4,100	P	S 0 1	
9 4	P 0 1 6	4,000	P	S 0 1	
9 5	P 0 1 7	4,000	P	S 0 1	
9 6	P 0 1 8	4,000	P	S 0 1	
9 7	P 0 2 0	4,000	P	S 0 1	
9 8	P 0 2 1	4,000	P	S 0 1	
9 9	P 0 2 2	4,000	P	S 0 1	
10 0	P 0 2 3	4,000	P	S 0 1	
10 1	P 0 2 4	4,000	P	S 0 1	
10 2	P 0 2 6	4,000	P	S 0 1	
10 3	P 0 2 7	4,000	P	S 0 1	
10 4	P 0 2 8	4,000	P	S 0 1	
10 5	P 0 2 9	4,100	P	S 0 1	
10 6	P 0 3 0	4,100	P	S 0 1	
10 7	P 0 3 1	4,100	P	S 0 1	
10 8	P 0 3 3	4,000	P	S 0 1	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, Area G (continued)					
10	P035	4,000	P	S01	
11	P036	4,000	P	S01	
11	P037	4,000	P	S01	
11	P038	4,100	P	S01	
11	P039	4,000	P	S01	
11	P040	4,000	P	S01	
11	P041	4,000	P	S01	
11	P042	4,000	P	S01	
11	P043	4,000	P	S01	
11	P044	4,000	P	S01	
11	P045	4,000	P	S01	
12	P046	4,000	P	S01	
12	P047	4,000	P	S01	
12	P048	4,000	P	S01	
12	P049	4,000	P	S01	
12	P050	4,000	P	S01	
12	P051	4,000	P	S01	
12	P054	4,000	P	S01	
12	P056	4,100	P	S01	
12	P057	4,000	P	S01	
12	P058	4,000	P	S01	
13	P059	4,000	P	S01	
13	P060	4,000	P	S01	
13	P062	4,000	P	S01	
13	P063	4,100	P	S01	
13	P064	4,000	P	S01	
13	P065	4,000	P	S01	
13	P066	4,000	P	S01	
13	P067	4,000	P	S01	
13	P068	4,100	P	S01	
13	P069	4,000	P	S01	
14	P070	4,000	P	S01	
14	P071	4,000	P	S01	
14	P072	4,000	P	S01	
14	P073	4,100	P	S01	
14	P074	4,000	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, Area G (continued)					
14 5	P075	4,000	P	S01	
14 6	P076	4,000	P	S01	
14 7	P077	4,000	P	S01	
14 8	P078	4,000	P	S01	
14 9	P081	4,000	P	S01	
15 0	P082	4,000	P	S01	
15 1	P084	4,000	P	S01	
15 2	P085	4,000	P	S01	
15 3	P087	4,000	P	S01	
15 4	P088	4,000	P	S01	
15 5	P089	4,000	P	S01	
15 6	P092	4,000	P	S01	
15 7	P093	4,000	P	S01	
15 8	P094	4,000	P	S01	
15 9	P095	4,100	P	S01	
16 0	P096	4,100	P	S01	
16 1	P097	4,000	P	S01	
16 2	P098	4,100	P	S01	
16 3	P099	4,000	P	S01	
16 4	P101	4,000	P	S01	
16 5	P102	4,000	P	S01	
16 6	P103	4,000	P	S01	
16 7	P104	4,000	P	S01	
16 8	P105	4,000	P	S01	
16 9	P106	4,100	P	S01	
17 0	P108	4,000	P	S01	
17 1	P109	4,000	P	S01	
17 2	P110	4,000	P	S01	
17 3	P111	4,000	P	S01	
17 4	P112	4,000	P	S01	
17 5	P113	4,000	P	S01	
17 6	P114	4,000	P	S01	
17 7	P115	4,000	P	S01	
17 8	P116	4,000	P	S01	
17 9	P118	4,000	P	S01	
18 0	P119	4,000	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, Area G (continued)					
18	P120	4,100	P	S01	
18	P121	4,000	P	S01	
18	P122	4,000	P	S01	
18	P123	4,000	P	S01	
18	P127	4,000	P	S01	
18	P128	4,000	P	S01	
18	P185	4,000	P	S01	
18	P188	4,000	P	S01	
18	P189	4,000	P	S01	
19	P190	4,000	P	S01	
19	P191	4,000	P	S01	
19	P192	4,000	P	S01	
19	P194	4,000	P	S01	
19	P196	4,000	P	S01	
19	P197	4,000	P	S01	
19	P198	4,000	P	S01	
19	P199	4,000	P	S01	
19	P201	4,000	P	S01	
19	P202	4,000	P	S01	
20	P203	4,000	P	S01	
20	P204	4,000	P	S01	
20	P205	4,000	P	S01	
20	U001	4,100	P	S01	
20	U002	7,100	P	S01	
20	U003	4,100	P	S01	
20	U004	4,000	P	S01	
20	U005	4,000	P	S01	
20	U006	4,000	P	S01	
20	U007	4,000	P	S01	
20	U008	4,000	P	S01	
21	U009	4,000	P	S01	
21	U010	4,000	P	S01	
21	U012	4,000	P	S01	
21	U013	4,000	P	S01	
21	U014	4,100	P	S01	
21	U015	4,000	P	S01	
21	U016	4,000	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, Area G (continued)					
21	U016	4,000	P	S01	
21	U017	4,000	P	S01	
21	U018	4,000	P	S01	
22	U019	4,100	P	S01	
22	U020	4,000	P	S01	
22	U021	4,000	P	S01	
22	U022	4,100	P	S01	
22	U023	4,000	P	S01	
22	U024	4,000	P	S01	
22	U025	4,000	P	S01	
22	U026	4,000	P	S01	
22	U027	4,000	P	S01	
22	U028	4,000	P	S01	
22	U029	4,000	P	S01	
23	U030	4,100	P	S01	
23	U031	4,000	P	S01	
23	U032	4,100	P	S01	
23	U033	4,000	P	S01	
23	U034	4,000	P	S01	
23	U035	4,000	P	S01	
23	U036	4,000	P	S01	
23	U037	4,000	P	S01	
23	U038	4,100	P	S01	
23	U039	4,000	P	S01	
24	U040	4,000	P	S01	
24	U041	4,000	P	S01	
24	U042	4,000	P	S01	
24	U043	4,000	P	S01	
24	U044	4,100	P	S01	
24	U045	4,100	P	S01	
24	U046	4,000	P	S01	
24	U047	4,000	P	S01	
24	U048	4,000	P	S01	
24	U049	4,000	P	S01	
25	U050	4,000	P	S01	
25	U051	4,000	P	S01	
25	U052	4,100	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, Area G (continued)					
25	U053	4,000	P	S01	
25	U054	4,000	P	S01	
25	U056	4,100	P	S01	
25	U057	4,100	P	S01	
25	U058	4,000	P	S01	
25	U059	4,000	P	S01	
25	U060	4,000	P	S01	
26	U061	4,000	P	S01	
26	U062	4,000	P	S01	
26	U063	4,000	P	S01	
26	U064	4,000	P	S01	
26	U066	4,000	P	S01	
26	U067	4,000	P	S01	
26	U068	4,000	P	S01	
26	U069	4,000	P	S01	
26	U070	4,000	P	S01	
26	U071	4,000	P	S01	
27	U072	4,000	P	S01	
27	U073	4,000	P	S01	
27	U074	4,000	P	S01	
27	U075	4,100	P	S01	
27	U076	4,000	P	S01	
27	U077	4,100	P	S01	
27	U078	4,000	P	S01	
27	U079	4,000	P	S01	
27	U080	12,000	P	S01	
27	U081	4,000	P	S01	
28	U082	4,000	P	S01	
28	U083	4,000	P	S01	
28	U084	4,000	P	S01	
28	U085	4,000	P	S01	
28	U086	4,000	P	S01	
28	U087	4,000	P	S01	
28	U088	4,000	P	S01	
28	U089	4,000	P	S01	
28	U090	4,000	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, Area G (continued)					
28	U091	4,000	P	S01	
29	U092	4,000	P	S01	
29	U093	4,000	P	S01	
29	U094	4,000	P	S01	
29	U095	4,000	P	S01	
29	U096	4,000	P	S01	
29	U097	4,000	P	S01	
29	U098	4,000	P	S01	
29	U099	4,000	P	S01	
29	U101	4,000	P	S01	
29	U102	4,000	P	S01	
30	U103	4,000	P	S01	
30	U105	4,000	P	S01	
30	U106	4,000	P	S01	
30	U107	4,000	P	S01	
30	U108	4,100	P	S01	
30	U109	4,000	P	S01	
30	U110	4,000	P	S01	
30	U111	4,000	P	S01	
30	U112	4,100	P	S01	
30	U113	4,000	P	S01	
31	U114	4,000	P	S01	
31	U115	4,100	P	S01	
31	U116	4,000	P	S01	
31	U117	4,100	P	S01	
31	U118	4,000	P	S01	
31	U119	4,000	P	S01	
31	U120	4,000	P	S01	
31	U121	4,100	P	S01	
31	U122	7,100	P	S01	
31	U123	4,100	P	S01	
32	U124	4,000	P	S01	
32	U125	4,000	P	S01	
32	U126	4,000	P	S01	
32	U127	4,000	P	S01	
32	U128	4,000	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, Area G (continued)					
32	U129	4,000	P	S01	
32	U130	4,000	P	S01	
32	U131	4,100	P	S01	
32	U132	4,000	P	S01	
32	U133	4,100	P	S01	
33	U134	12,100	P	S01	
33	U135	4,100	P	S01	
33	U136	4,000	P	S01	
33	U137	4,000	P	S01	
33	U138	4,000	P	S01	
33	U140	4,100	P	S01	
33	U141	4,000	P	S01	
33	U142	4,000	P	S01	
33	U143	4,000	P	S01	
33	U144	4,100	P	S01	
34	U145	4,000	P	S01	
34	U146	4,000	P	S01	
34	U147	4,000	P	S01	
34	U148	4,000	P	S01	
34	U149	4,000	P	S01	
34	U150	4,000	P	S01	
34	U151	7,100	P	S01	
34	U152	4,000	P	S01	
34	U153	4,000	P	S01	
34	U154	4,100	P	S01	
35	U155	4,000	P	S01	
35	U156	4,000	P	S01	
35	U157	4,000	P	S01	
35	U158	4,000	P	S01	
35	U159	4,100	P	S01	
35	U160	4,100	P	S01	
35	U161	4,100	P	S01	
35	U162	4,000	P	S01	
35	U163	4,000	P	S01	
35	U164	4,000	P	S01	
36	U165	4,100	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, Area G (continued)					
36	U166	4,000	P	S01	
36	U167	4,000	P	S01	
36	U168	4,000	P	S01	
36	U169	4,100	P	S01	
36	U170	4,000	P	S01	
36	U171	4,000	P	S01	
36	U172	4,000	P	S01	
36	U173	4,000	P	S01	
36	U174	4,000	P	S01	
37	U176	4,000	P	S01	
37	U177	4,000	P	S01	
37	U178	4,000	P	S01	
37	U179	4,000	P	S01	
37	U180	4,000	P	S01	
37	U181	4,000	P	S01	
37	U182	4,000	P	S01	
37	U183	4,000	P	S01	
37	U184	4,000	P	S01	
37	U185	4,000	P	S01	
38	U186	4,000	P	S01	
38	U187	4,000	P	S01	
38	U188	4,100	P	S01	
38	U189	4,000	P	S01	
38	U190	4,100	P	S01	
38	U191	4,000	P	S01	
38	U192	4,000	P	S01	
38	U193	4,000	P	S01	
38	U194	4,000	P	S01	
38	U196	4,100	P	S01	
39	U197	4,000	P	S01	
39	U200	4,000	P	S01	
39	U201	4,000	P	S01	
39	U202	4,000	P	S01	
39	U203	4,000	P	S01	
39	U204	4,100	P	S01	
39	U205	4,000	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, Area G (continued)					
39	U206	4,000	P	S01	
39	U207	4,000	P	S01	
39	U208	4,000	P	S01	
40	U209	4,000	P	S01	
40	U210	4,100	P	S01	
40	U211	4,100	P	S01	
40	U213	4,100	P	S01	
40	U214	4,000	P	S01	
40	U215	4,000	P	S01	
40	U216	4,100	P	S01	
40	U217	4,000	P	S01	
40	U218	4,100	P	S01	
40	U219	4,100	P	S01	
41	U220	7,100	P	S01	
41	U221	4,000	P	S01	
41	U222	4,000	P	S01	
41	U223	4,000	P	S01	
41	U225	4,100	P	S01	
41	U226	7,100	P	S01	
41	U227	4,100	P	S01	
41	U228	7,100	P	S01	
41	U234	4,000	P	S01	
41	U235	4,000	P	S01	
42	U236	4,000	P	S01	
42	U237	4,000	P	S01	
42	U238	4,000	P	S01	
42	U239	7,100	P	S01	
42	U240	4,000	P	S01	
42	U243	4,000	P	S01	
42	U244	4,000	P	S01	
42	U247	4,100	P	S01	
42	U248	4,000	P	S01	
42	U249	4,000	P	S01	
43	U250	4,000	P	S01	
43	U271	4,000	P	S01	
43	U272	4,000	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, Area G (continued)					
43	U273	4,000	P	S01	
43	U280	4,000	P	S01	
43	U328	4,000	P	S01	
43	U353	4,000	P	S01	
43	U359	4,000	P	S01	
43	U364	4,000	P	S01	
43	U367	4,000	P	S01	
44	U372	4,000	P	S01	
44	U373	4,000	P	S01	
44	U387	4,000	P	S01	
44	U389	4,000	P	S01	
44	U394	4,000	P	S01	
44	U395	4,000	P	S01	
44	U404	4,000	P	S01	
44	U409	4,000	P	S01	
44	U410	4,000	P	S01	
44	U411	4,000	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, Material Disposal Area G (Shaft 124 and Pit 29)					
1	D004	850	P	D80	
2	D005	2,100	P	D80	
3	D006	4,250	P	D80	
4	D007	4,450	P	D80	
5	D008	507,100	P	D80	
6	D009	850	P	D80	
7	D010	15	P	D80	
8	D011	530	P	D80	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, West					
	1	D001	74,252	P	S01
	2	D002	38,448	P	S01
	3	D003	3,528	P	S01
	4	D004	24,692	P	S01 T04
	5	D005	22,576	P	S01 T04
	6	D006	3,627,220	P	S01 T04
	7	D007	3,784,544	P	S01 T04
	8	D008	8,589,208	P	S01 T04
	9	D009	261,732	P	S01 T04
1	0	D010	27,160	P	S01 T04
1	1	D011	30,336	P	S01 T04
1	2	D012	36,000	P	S01
1	3	D013	8,000	P	S01
1	4	D014	8,000	P	S01
1	5	D015	14,000	P	S01
1	6	D016	8,000	P	S01
1	7	D017	8,000	P	S01
1	8	D018	1,412	P	S01 T04
1	9	D019	28,220	P	S01 T04
2	0	D020	60,000	P	S01 T04
2	1	D021	4,880	P	S01 T04
2	2	D022	6,704	P	S01 T04
2	3	D023	8,000	P	S01 T04
2	4	D024	8,000	P	S01 T04
2	5	D025	8,000	P	S01 T04
2	6	D026	8,000	P	S01 T04
2	7	D027	4,056	P	S01 T04
2	8	D028	1,158,400	P	S01 T04
2	9	D029	1,152,576	P	S01 T04
3	0	D030	26,100	P	S01 T04
3	1	D031	352	P	S01 T04
3	2	D032	16,580	P	S01 T04
3	3	D033	11,112	P	S01 T04
3	4	D034	5,820	P	S01 T04
3	5	D035	528	P	S01 T04
3	6	D036	1,764	P	S01 T04

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, West (continued)					
3 7	D 0 3 7	2,820	P	S 0 1 T 0 4	
3 8	D 0 3 8	352	P	S 0 1 T 0 4	
3 9	D 0 3 9	7,760	P	S 0 1 T 0 4	
4 0	D 0 4 0	17,460	P	S 0 1 T 0 4	
4 1	D 0 4 1	352	P	S 0 1 T 0 4	
4 2	D 0 4 2	5,644	P	S 0 1 T 0 4	
4 3	D 0 4 3	2,116	P	S 0 1 T 0 4	
4 4	F 0 0 1	2,225,608	P	S 0 1 T 0 4	
4 5	F 0 0 2	288,012	P	S 0 1 T 0 4	
4 6	F 0 0 3	137,856	P	S 0 1	
4 7	F 0 0 4	8,640	P	S 0 1 T 0 4	
4 8	F 0 0 5	1,296,844	P	S 0 1	
4 9	F 0 0 6	14,000	P	S 0 1	
5 0	F 0 0 7	36,000	P	S 0 1	
5 1	F 0 0 8	14,000	P	S 0 1	
5 2	F 0 0 9	8,000	P	S 0 1	
5 3	F 0 1 0	8,000	P	S 0 1	
5 4	F 0 1 1	8,000	P	S 0 1	
5 5	F 0 1 2	8,000	P	S 0 1	
5 6	F 0 1 9	8,000	P	S 0 1	
5 7	F 0 2 0	8,000	P	S 0 1	
5 8	F 0 2 1	8,000	P	S 0 1	
5 9	F 0 2 2	8,000	P	S 0 1	
6 0	F 0 2 3	8,000	P	S 0 1	
6 1	F 0 2 4	8,000	P	S 0 1	
6 2	F 0 2 5	8,000	P	S 0 1	
6 3	F 0 2 6	8,000	P	S 0 1	
6 4	F 0 2 7	8,000	P	S 0 1	
6 5	F 0 2 8	8,000	P	S 0 1	
6 6	F 0 3 2	8,000	P	S 0 1	
6 7	F 0 3 4	8,000	P	S 0 1	
6 8	F 0 3 5	8,000	P	S 0 1	
6 9	F 0 3 7	8,000	P	S 0 1	
7 0	F 0 3 8	8,000	P	S 0 1	
7 1	F 0 3 9	8,000	P	S 0 1	
7 2	K 0 4 4	4,000	P	S 0 1	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, West (continued)					
7 3	K 0 4 5	8,000	P	S 0 1	
7 4	K 0 4 6	8,000	P	S 0 1	
7 5	K 0 4 7	8,000	P	S 0 1	
7 6	K 0 8 4	1,000	P	S 0 1	
7 7	K 1 0 1	1,000	P	S 0 1	
7 8	K 1 0 2	1,000	P	S 0 1	
7 9	P 0 0 1	176	P	S 0 1	
8 0	P 0 0 2	176	P	S 0 1	
8 1	P 0 0 3	176	P	S 0 1	
8 2	P 0 0 4	176	P	S 0 1	
8 3	P 0 0 5	176	P	S 0 1	
8 4	P 0 0 6	176	P	S 0 1	
8 5	P 0 0 7	176	P	S 0 1	
8 6	P 0 0 8	176	P	S 0 1	
8 7	P 0 0 9	176	P	S 0 1	
8 8	P 0 1 0	176	P	S 0 1	
8 9	P 0 1 1	176	P	S 0 1	
9 0	P 0 1 2	176	P	S 0 1	
9 1	P 0 1 3	176	P	S 0 1	
9 2	P 0 1 4	176	P	S 0 1	
9 3	P 0 1 5	176	P	S 0 1	
9 4	P 0 1 6	176	P	S 0 1	
9 5	P 0 1 7	176	P	S 0 1	
9 6	P 0 1 8	176	P	S 0 1	
9 7	P 0 2 0	176	P	S 0 1	
9 8	P 0 2 1	176	P	S 0 1	
9 9	P 0 2 2	176	P	S 0 1	
10 0	P 0 2 3	176	P	S 0 1	
10 1	P 0 2 4	176	P	S 0 1	
10 2	P 0 2 6	176	P	S 0 1	
10 3	P 0 2 7	176	P	S 0 1	
10 4	P 0 2 8	176	P	S 0 1	
10 5	P 0 2 9	176	P	S 0 1	
10 6	P 0 3 0	176	P	S 0 1	
10 7	P 0 3 1	176	P	S 0 1	
10 8	P 0 3 3	176	P	S 0 1	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, West (continued)					
10	P034	176	P	S01	
11	P036	176	P	S01	
11	P037	176	P	S01	
11	P038	176	P	S01	
11	P039	176	P	S01	
11	P040	176	P	S01	
11	P041	176	P	S01	
11	P042	176	P	S01	
11	P043	176	P	S01	
11	P044	176	P	S01	
11	P045	176	P	S01	
12	P046	176	P	S01	
12	P047	176	P	S01	
12	P048	176	P	S01	
12	P049	176	P	S01	
12	P050	176	P	S01	
12	P051	176	P	S01	
12	P054	176	P	S01	
12	P056	176	P	S01	
12	P057	176	P	S01	
12	P058	176	P	S01	
13	P059	176	P	S01	
13	P060	176	P	S01	
13	P062	176	P	S01	
13	P063	176	P	S01	
13	P064	176	P	S01	
13	P065	176	P	S01	
13	P066	176	P	S01	
13	P067	176	P	S01	
13	P068	176	P	S01	
13	P069	176	P	S01	
14	P070	176	P	S01	
14	P071	176	P	S01	
14	P072	176	P	S01	
14	P073	176	P	S01	
14	P074	176	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, West (continued)					
145	P075	176	P	S01	
146	P076	176	P	S01	
147	P077	176	P	S01	
148	P078	176	P	S01	
149	P081	176	P	S01	
150	P082	176	P	S01	
151	P084	176	P	S01	
152	P085	176	P	S01	
153	P087	176	P	S01	
154	P088	176	P	S01	
155	P089	176	P	S01	
156	P092	176	P	S01	
157	P093	176	P	S01	
158	P094	176	P	S01	
159	P095	176	P	S01	
160	P096	176	P	S01	
161	P097	176	P	S01	
162	P098	176	P	S01	
163	P099	176	P	S01	
164	P101	176	P	S01	
165	P102	176	P	S01	
166	P103	176	P	S01	
167	P104	176	P	S01	
168	P105	176	P	S01	
169	P106	176	P	S01	
170	P108	176	P	S01	
171	P109	176	P	S01	
172	P110	176	P	S01	
173	P111	176	P	S01	
174	P112	176	P	S01	
175	P113	176	P	S01	
176	P114	176	P	S01	
177	P115	176	P	S01	
178	P116	176	P	S01	
179	P118	176	P	S01	
180	P119	176	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, West (continued)					
18	P120	176	P	S01	
18	P121	176	P	S01	
18	P122	176	P	S01	
18	P123	176	P	S01	
18	P127	176	P	S01	
18	P128	176	P	S01	
18	P185	176	P	S01	
18	P188	176	P	S01	
18	P189	176	P	S01	
19	P190	176	P	S01	
19	P191	176	P	S01	
19	P192	176	P	S01	
19	P194	176	P	S01	
19	P196	176	P	S01	
19	P197	176	P	S01	
19	P198	176	P	S01	
19	P199	176	P	S01	
19	P201	176	P	S01	
19	P202	176	P	S01	
20	P203	176	P	S01	
20	P204	176	P	S01	
20	P205	176	P	S01	
20	U001	176	P	S01	
20	U002	176	P	S01	
20	U003	176	P	S01	
20	U004	176	P	S01	
20	U005	176	P	S01	
20	U006	176	P	S01	
20	U007	176	P	S01	
20	U008	176	P	S01	
20	U009	176	P	S01	
21	U010	176	P	S01	
21	U011	176	P	S01	
21	U012	176	P	S01	
21	U013	176	P	S01	
21	U014	176	P	S01	
21	U015	176	P	S01	
21	U016	176	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, West (continued)					
21	U016	176	P	S01	
21	U017	176	P	S01	
21	U018	176	P	S01	
22	U019	176	P	S01	
22	U020	176	P	S01	
22	U021	176	P	S01	
22	U022	176	P	S01	
22	U023	176	P	S01	
22	U024	176	P	S01	
22	U025	176	P	S01	
22	U026	176	P	S01	
22	U027	176	P	S01	
22	U028	176	P	S01	
23	U029	176	P	S01	
23	U030	176	P	S01	
23	U031	176	P	S01	
23	U032	176	P	S01	
23	U033	176	P	S01	
23	U034	176	P	S01	
23	U035	176	P	S01	
23	U036	176	P	S01	
23	U037	176	P	S01	
23	U038	176	P	S01	
23	U039	176	P	S01	
24	U040	176	P	S01	
24	U041	176	P	S01	
24	U042	176	P	S01	
24	U043	176	P	S01	
24	U044	176	P	S01	
24	U045	176	P	S01	
24	U046	176	P	S01	
24	U047	176	P	S01	
24	U048	176	P	S01	
24	U049	176	P	S01	
25	U050	176	P	S01	
25	U051	176	P	S01	
25	U052	176	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, West (continued)					
25	U053	176	P	S01	
25	U054	176	P	S01	
25	U055	176	P	S01	
25	U056	176	P	S01	
25	U057	176	P	S01	
25	U058	176	P	S01	
25	U059	176	P	S01	
26	U060	176	P	S01	
26	U061	176	P	S01	
26	U062	176	P	S01	
26	U063	176	P	S01	
26	U064	176	P	S01	
26	U065	176	P	S01	
26	U066	176	P	S01	
26	U067	176	P	S01	
26	U068	176	P	S01	
26	U069	176	P	S01	
27	U070	176	P	S01	
27	U071	176	P	S01	
27	U072	176	P	S01	
27	U073	176	P	S01	
27	U074	176	P	S01	
27	U075	176	P	S01	
27	U076	176	P	S01	
27	U077	176	P	S01	
27	U078	528	P	S01	
27	U079	176	P	S01	
28	U080	176	P	S01	
28	U081	176	P	S01	
28	U082	176	P	S01	
28	U083	176	P	S01	
28	U084	176	P	S01	
28	U085	176	P	S01	
28	U086	176	P	S01	
28	U087	176	P	S01	
28	U088	176	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, West (continued)					
28	U091	176	P	S01	
29	U092	176	P	S01	
29	U093	176	P	S01	
29	U094	176	P	S01	
29	U095	176	P	S01	
29	U096	176	P	S01	
29	U097	176	P	S01	
29	U098	176	P	S01	
29	U099	176	P	S01	
29	U101	176	P	S01	
29	U102	176	P	S01	
30	U103	176	P	S01	
30	U105	176	P	S01	
30	U106	176	P	S01	
30	U107	176	P	S01	
30	U108	176	P	S01	
30	U109	176	P	S01	
30	U110	176	P	S01	
30	U111	176	P	S01	
30	U112	176	P	S01	
30	U113	176	P	S01	
31	U114	176	P	S01	
31	U115	176	P	S01	
31	U116	176	P	S01	
31	U117	176	P	S01	
31	U118	176	P	S01	
31	U119	176	P	S01	
31	U120	176	P	S01	
31	U121	176	P	S01	
31	U122	176	P	S01	
31	U123	176	P	S01	
32	U124	176	P	S01	
32	U125	176	P	S01	
32	U126	176	P	S01	
32	U127	176	P	S01	
32	U128	176	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, West (continued)					
32	U129	176	P	S01	
32	U130	176	P	S01	
32	U131	176	P	S01	
32	U132	176	P	S01	
32	U133	176	P	S01	
33	U134	176	P	S01	
33	U135	176	P	S01	
33	U136	176	P	S01	
33	U137	176	P	S01	
33	U138	176	P	S01	
33	U140	176	P	S01	
33	U141	176	P	S01	
33	U142	176	P	S01	
33	U143	176	P	S01	
33	U144	176	P	S01	
34	U145	176	P	S01	
34	U146	176	P	S01	
34	U147	176	P	S01	
34	U148	176	P	S01	
34	U149	176	P	S01	
34	U150	176	P	S01	
34	U151	1,060	P	S01	
34	U152	176	P	S01	
34	U153	176	P	S01	
34	U154	176	P	S01	
35	U155	176	P	S01	
35	U156	176	P	S01	
35	U157	176	P	S01	
35	U158	176	P	S01	
35	U159	528	P	S01	
35	U160	176	P	S01	
35	U161	176	P	S01	
35	U162	176	P	S01	
35	U163	176	P	S01	
35	U164	176	P	S01	
36	U165	176	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, West (continued)					
36	U166	176	P	S01	
36	U167	176	P	S01	
36	U168	176	P	S01	
36	U169	176	P	S01	
36	U170	176	P	S01	
36	U171	176	P	S01	
36	U172	176	P	S01	
36	U173	176	P	S01	
36	U174	176	P	S01	
37	U176	176	P	S01	
37	U177	176	P	S01	
37	U178	176	P	S01	
37	U179	176	P	S01	
37	U180	176	P	S01	
37	U181	176	P	S01	
37	U182	176	P	S01	
37	U183	176	P	S01	
37	U184	176	P	S01	
37	U185	176	P	S01	
38	U186	176	P	S01	
38	U187	176	P	S01	
38	U188	176	P	S01	
38	U189	176	P	S01	
38	U190	176	P	S01	
38	U191	176	P	S01	
38	U192	176	P	S01	
38	U193	176	P	S01	
38	U194	176	P	S01	
39	U197	176	P	S01	
39	U200	176	P	S01	
39	U201	176	P	S01	
39	U202	176	P	S01	
39	U203	176	P	S01	
39	U204	176	P	S01	
39	U205	176	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, West (continued)					
39	U206	176	P	S01	
39	U207	176	P	S01	
39	U208	176	P	S01	
40	U209	176	P	S01	
40	U210	176	P	S01	
40	U211	176	P	S01	
40	U213	176	P	S01	
40	U214	176	P	S01	
40	U215	176	P	S01	
40	U216	176	P	S01	
40	U217	176	P	S01	
40	U218	176	P	S01	
40	U219	176	P	S01	
41	U220	176	P	S01	
41	U221	176	P	S01	
41	U222	176	P	S01	
41	U223	176	P	S01	
41	U225	176	P	S01	
41	U226	4,584	P	S01	
41	U227	176	P	S01	
41	U228	176	P	S01	
41	U234	176	P	S01	
41	U235	176	P	S01	
42	U236	176	P	S01	
42	U237	176	P	S01	
42	U238	176	P	S01	
42	U239	352	P	S01	
42	U240	176	P	S01	
42	U243	176	P	S01	
42	U244	176	P	S01	
42	U246	176	P	S01	
42	U247	176	P	S01	
42	U248	176	P	S01	
43	U249	176	P	S01	
43	U271	176	P	S01	
43	U278	176	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, West (continued)					
43	U279	176	P	S01	
44	U280	176	P	S01	
45	U328	176	P	S01	
46	U353	176	P	S01	
47	U359	176	P	S01	
48	U364	176	P	S01	
49	U367	176	P	S01	
50	U372	176	P	S01	
51	U373	176	P	S01	
52	U387	176	P	S01	
53	U389	176	P	S01	
54	U394	176	P	S01	
55	U395	176	P	S01	
56	U404	176	P	S01	
57	U409	176	P	S01	
58	U410	176	P	S01	
59	U411	176	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 54, Material Disposal Area H (Shaft 9)					
1	D003	15	P	D80	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 55					
	1	D001	75,000	P	S01
	2	D002	150,000	P	S01 S02 T04
	3	D003	42,000	P	S01
	4	D004	5,000	P	S01 S02 T04
	5	D005	11,000	P	S01 S02 T04
	6	D006	400,500	P	S01 S02 T04
	7	D007	605,000	P	S01 S02 T04
	8	D008	900,000	P	S01 S02 T04
	9	D009	26,000	P	S01 S02 T04
1	0	D010	2,500	P	S01 S02 T04
1	1	D011	11,000	P	S01 S02 T04
1	2	D012	1,000	P	S01 T04
1	3	D018	4,500	P	S01 T04
1	4	D019	4,500	P	S01 T04
1	5	D021	4,500	P	S01 T04
1	6	D022	1,500	P	S01 T04
1	7	D027	1,500	P	S01 T04
1	8	D028	2,500	P	S01 T04
1	9	D030	1,500	P	S01 T04
2	0	D032	1,500	P	S01 T04
2	1	D033	1,500	P	S01 T04
2	2	D034	1,500	P	S01 T04
2	3	D035	12,000	P	S01 T04
2	4	D036	1,500	P	S01 T04
2	5	D037	1,500	P	S01 T04
2	6	D038	1,500	P	S01 T04
2	7	D039	11,000	P	S01 T04
2	8	D040	11,000	P	S01 T04
2	9	D042	1,500	P	S01 T04
3	0	D043	1,500	P	S01 T04
3	1	F001	110,000	P	S01 T04
3	2	F002	110,000	P	S01 T04
3	3	F003	110,000	P	S01
3	4	F004	110,000	P	S01
3	5	F005	500	P	S01
3	6	F007	500	P	S01

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 55 (continued)					
37	F009	500	P	S01	
38	P003	1,500	P	S01	
39	P012	1,500	P	S01	
40	P015	6,000	P	S01	
41	P029	1,500	P	S01	
42	P030	1,500	P	S01	
43	P031	1,500	P	S01	
44	P038	1,500	P	S01	
45	P056	3,000	P	S01	
46	P063	1,500	P	S01	
47	P068	1,500	P	S01	
48	P073	1,500	P	S01	
49	P076	1,500	P	S01	
50	P078	1,500	P	S01	
51	P095	1,500	P	S01	
52	P096	1,500	P	S01	
53	P098	1,500	P	S01	
54	P099	500	P	S01	
55	P106	1,500	P	S01	
56	P113	1,500	P	S01	
57	P120	1,500	P	S01	
58	U000	3,000	P	S01	
59	U002	1,500	P	S01	
60	U003	1,500	P	S01	
61	U012	1,500	P	S01	
62	U019	3,000	P	S01	
63	U022	1,500	P	S01	
64	U029	1,500	P	S01	
65	U031	1,500	P	S01	
66	U037	1,500	P	S01	
67	U044	1,500	P	S01	
68	U045	1,500	P	S01	
69	U052	1,500	P	S01	
70	U056	1,500	P	S01	
71	U057	1,500	P	S01	
72	U075	1,500	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 55 (continued)					
7 3	U 0 7 7	1,500	P	S 0 1	
7 4	U 0 8 0	6,000	P	S 0 1	
7 5	U 1 0 3	500	P	S 0 1	
7 6	U 1 0 8	1,500	P	S 0 1	
7 7	U 1 1 2	1,500	P	S 0 1	
7 8	U 1 1 5	1,500	P	S 0 1	
7 9	U 1 1 7	1,500	P	S 0 1	
8 0	U 1 2 1	1,500	P	S 0 1	
8 1	U 1 2 2	1,500	P	S 0 1	
8 2	U 1 2 3	1,500	P	S 0 1	
8 3	U 1 3 1	1,500	P	S 0 1	
8 4	U 1 3 3	1,500	P	S 0 1	
8 5	U 1 3 4	6,000	P	S 0 1	
8 6	U 1 3 5	1,500	P	S 0 1	
8 7	U 1 4 0	1,500	P	S 0 1	
8 8	U 1 4 4	1,500	P	S 0 1	
8 9	U 1 5 1	6,000	P	S 0 1	
9 0	U 1 5 4	6,000	P	S 0 1	
9 1	U 1 5 9	6,000	P	S 0 1	
9 2	U 1 6 0	1,500	P	S 0 1	
9 3	U 1 6 1	1,500	P	S 0 1	
9 4	U 1 6 5	1,500	P	S 0 1	
9 5	U 1 6 9	1,500	P	S 0 1	
9 6	U 1 8 8	1,500	P	S 0 1	
9 7	U 1 9 0	1,500	P	S 0 1	
9 8	U 1 9 6	1,500	P	S 0 1	
9 9	U 2 0 4	1,500	P	S 0 1	
10 0	U 2 1 0	6,000	P	S 0 1	
10 1	U 2 1 1	6,000	P	S 0 1	
10 2	U 2 1 3	1,500	P	S 0 1	
10 3	U 2 1 6	1,500	P	S 0 1	
10 4	U 2 1 8	1,500	P	S 0 1	
10 5	U 2 1 9	1,500	P	S 0 1	
10 6	U 2 2 0	6,000	P	S 0 1	
10 7	U 2 2 5	1,500	P	S 0 1	
10 8	U 2 2 6	6,000	P	S 0 1	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 55 (continued)					
10	9 U 2 2 7	1,500	P	S 0 1	
11	0 U 2 2 8	1,500	P	S 0 1	
11	1 U 2 3 9	1,500	P	S 0 1	
11	2 U 2 4 6	1,500	P	S 0 1	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 63					
	1	D001	3,300	P	S01
	2	D002	3,950	P	S01
	3	D003	1,850	P	S01
	4	D004	25,250	P	S01 T04
	5	D005	820	P	S01 T04
	6	D006	5,150	P	S01 T04
	7	D007	37,750	P	S01 T04
	8	D008	54,000	P	S01 T04
	9	D009	1,000	P	S01 T04
1	0	D010	450	P	S01 T04
1	1	D011	25,400	P	S01 T04
1	2	D012	180	P	S01
1	3	D013	40	P	S01
1	4	D014	40	P	S01
1	5	D015	70	P	S01
1	6	D016	40	P	S01
1	7	D017	40	P	S01
1	8	D018	300	P	S01 T04
1	9	D019	250	P	S01 T04
2	0	D020	300	P	S01 T04
2	1	D021	150	P	S01 T04
2	2	D022	330	P	S01 T04
2	3	D023	40	P	S01 T04
2	4	D024	40	P	S01 T04
2	5	D025	40	P	S01 T04
2	6	D026	40	P	S01 T04
2	7	D027	220	P	S01 T04
2	8	D028	400	P	S01 T04
2	9	D029	70	P	S01 T04
3	0	D030	300	P	S01 T04
3	1	D031	220	P	S01 T04
3	2	D032	290	P	S01 T04
3	3	D033	290	P	S01 T04
3	4	D034	290	P	S01 T04
3	5	D035	300	P	S01 T04
3	6	D036	190	P	S01 T04

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 63 (continued)					
3 7	D 0 3 7	70	P	S 0 1 T 0 4	
3 8	D 0 3 8	140	P	S 0 1 T 0 4	
3 9	D 0 3 9	200	P	S 0 1 T 0 4	
4 0	D 0 4 0	250	P	S 0 1 T 0 4	
4 1	D 0 4 1	170	P	S 0 1 T 0 4	
4 2	D 0 4 2	220	P	S 0 1 T 0 4	
4 3	D 0 4 3	250	P	S 0 1 T 0 4	
4 4	F 0 0 1	64,100	P	S 0 1 T 0 4	
4 5	F 0 0 2	34,500	P	S 0 1 T 0 4	
4 6	F 0 0 3	28,500	P	S 0 1	
4 7	F 0 0 4	350	P	S 0 1 T 0 4	
4 8	F 0 0 5	32,500	P	S 0 1	
4 9	F 0 0 6	70	P	S 0 1	
5 0	F 0 0 7	180	P	S 0 1	
5 1	F 0 0 8	70	P	S 0 1	
5 2	F 0 0 9	80	P	S 0 1	
5 3	F 0 1 0	40	P	S 0 1	
5 4	F 0 1 1	40	P	S 0 1	
5 5	F 0 1 2	40	P	S 0 1	
5 6	F 0 1 9	40	P	S 0 1	
5 7	F 0 2 0	40	P	S 0 1	
5 8	F 0 2 1	40	P	S 0 1	
5 9	F 0 2 2	40	P	S 0 1	
6 0	F 0 2 3	40	P	S 0 1	
6 1	F 0 2 4	40	P	S 0 1	
6 2	F 0 2 5	40	P	S 0 1	
6 3	F 0 2 6	40	P	S 0 1	
6 4	F 0 2 7	40	P	S 0 1	
6 5	F 0 2 8	40	P	S 0 1	
6 6	F 0 3 2	40	P	S 0 1	
6 7	F 0 3 4	40	P	S 0 1	
6 8	F 0 3 5	40	P	S 0 1	
6 9	F 0 3 7	40	P	S 0 1	
7 0	F 0 3 8	40	P	S 0 1	
7 1	F 0 3 9	40	P	S 0 1	
7 2	K 0 4 4	220	P	S 0 1	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 63 (continued)					
7 3	K 0 4 5	40	P	S 0 1	
7 4	K 0 4 6	40	P	S 0 1	
7 5	K 0 4 7	40	P	S 0 1	
7 6	K 0 8 4	50	P	S 0 1	
7 7	K 1 0 1	50	P	S 0 1	
7 8	K 1 0 2	50	P	S 0 1	
7 9	P 0 0 1	40	P	S 0 1	
8 0	P 0 0 2	40	P	S 0 1	
8 1	P 0 0 3	40	P	S 0 1	
8 2	P 0 0 4	40	P	S 0 1	
8 3	P 0 0 5	40	P	S 0 1	
8 4	P 0 0 6	40	P	S 0 1	
8 5	P 0 0 7	40	P	S 0 1	
8 6	P 0 0 8	40	P	S 0 1	
8 7	P 0 0 9	40	P	S 0 1	
8 8	P 0 1 0	40	P	S 0 1	
8 9	P 0 1 1	40	P	S 0 1	
9 0	P 0 1 2	40	P	S 0 1	
9 1	P 0 1 3	40	P	S 0 1	
9 2	P 0 1 4	40	P	S 0 1	
9 3	P 0 1 5	40	P	S 0 1	
9 4	P 0 1 6	40	P	S 0 1	
9 5	P 0 1 7	40	P	S 0 1	
9 6	P 0 1 8	40	P	S 0 1	
9 7	P 0 2 0	40	P	S 0 1	
9 8	P 0 2 1	40	P	S 0 1	
9 9	P 0 2 2	40	P	S 0 1	
10 0	P 0 2 3	40	P	S 0 1	
10 1	P 0 2 4	40	P	S 0 1	
10 2	P 0 2 6	40	P	S 0 1	
10 3	P 0 2 7	40	P	S 0 1	
10 4	P 0 2 8	40	P	S 0 1	
10 5	P 0 2 9	40	P	S 0 1	
10 6	P 0 3 0	40	P	S 0 1	
10 7	P 0 3 1	40	P	S 0 1	
10 8	P 0 3 3	40	P	S 0 1	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 63 (continued)					
10	P034	40	P	S01	
11	P036	40	P	S01	
11	P037	40	P	S01	
11	P038	40	P	S01	
11	P039	40	P	S01	
11	P040	40	P	S01	
11	P041	40	P	S01	
11	P042	40	P	S01	
11	P043	40	P	S01	
11	P044	40	P	S01	
11	P045	40	P	S01	
12	P046	40	P	S01	
12	P047	40	P	S01	
12	P048	40	P	S01	
12	P049	40	P	S01	
12	P050	40	P	S01	
12	P051	40	P	S01	
12	P054	40	P	S01	
12	P056	40	P	S01	
12	P057	40	P	S01	
12	P058	40	P	S01	
13	P059	40	P	S01	
13	P060	40	P	S01	
13	P062	40	P	S01	
13	P063	40	P	S01	
13	P064	40	P	S01	
13	P065	40	P	S01	
13	P066	40	P	S01	
13	P067	40	P	S01	
13	P068	40	P	S01	
13	P069	40	P	S01	
14	P070	40	P	S01	
14	P071	40	P	S01	
14	P072	40	P	S01	
14	P073	40	P	S01	
14	P074	40	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 63 (continued)					
14	P075	40	P	S01	
14	P076	40	P	S01	
14	P077	40	P	S01	
14	P078	40	P	S01	
14	P081	40	P	S01	
15	P082	40	P	S01	
15	P084	40	P	S01	
15	P085	40	P	S01	
15	P087	40	P	S01	
15	P088	40	P	S01	
15	P089	40	P	S01	
15	P092	40	P	S01	
15	P093	40	P	S01	
15	P094	40	P	S01	
15	P095	40	P	S01	
16	P096	40	P	S01	
16	P097	40	P	S01	
16	P098	40	P	S01	
16	P099	40	P	S01	
16	P101	40	P	S01	
16	P102	40	P	S01	
16	P103	40	P	S01	
16	P104	40	P	S01	
16	P105	40	P	S01	
16	P106	40	P	S01	
17	P108	40	P	S01	
17	P109	40	P	S01	
17	P110	40	P	S01	
17	P111	40	P	S01	
17	P112	40	P	S01	
17	P113	40	P	S01	
17	P114	40	P	S01	
17	P115	40	P	S01	
17	P116	40	P	S01	
17	P117	40	P	S01	
17	P118	40	P	S01	
18	P119	40	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 63 (continued)					
18	P120	40	P	S01	
18	P121	40	P	S01	
18	P122	40	P	S01	
18	P123	40	P	S01	
18	P127	40	P	S01	
18	P128	40	P	S01	
18	P185	40	P	S01	
18	P188	40	P	S01	
18	P189	40	P	S01	
19	P190	40	P	S01	
19	P191	40	P	S01	
19	P192	40	P	S01	
19	P194	40	P	S01	
19	P196	40	P	S01	
19	P197	40	P	S01	
19	P198	40	P	S01	
19	P199	40	P	S01	
19	P201	40	P	S01	
19	P202	40	P	S01	
20	P203	40	P	S01	
20	P204	40	P	S01	
20	P205	40	P	S01	
20	U001	40	P	S01	
20	U002	70	P	S01	
20	U003	40	P	S01	
20	U004	40	P	S01	
20	U005	40	P	S01	
20	U006	40	P	S01	
20	U007	40	P	S01	
20	U008	40	P	S01	
20	U009	40	P	S01	
21	U010	40	P	S01	
21	U011	40	P	S01	
21	U012	40	P	S01	
21	U013	40	P	S01	
21	U014	40	P	S01	
21	U015	40	P	S01	
21	U016	40	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 63 (continued)					
21	U016	40	P	S01	
21	U017	40	P	S01	
21	U018	40	P	S01	
22	U019	40	P	S01	
22	U020	40	P	S01	
22	U021	40	P	S01	
22	U022	40	P	S01	
22	U023	40	P	S01	
22	U024	40	P	S01	
22	U025	40	P	S01	
22	U026	40	P	S01	
22	U027	40	P	S01	
22	U028	40	P	S01	
22	U029	40	P	S01	
23	U030	40	P	S01	
23	U031	40	P	S01	
23	U032	40	P	S01	
23	U033	40	P	S01	
23	U034	40	P	S01	
23	U035	40	P	S01	
23	U036	40	P	S01	
23	U037	40	P	S01	
23	U038	40	P	S01	
23	U039	40	P	S01	
24	U040	40	P	S01	
24	U041	40	P	S01	
24	U042	40	P	S01	
24	U043	40	P	S01	
24	U044	40	P	S01	
24	U045	40	P	S01	
24	U046	40	P	S01	
24	U047	40	P	S01	
24	U048	40	P	S01	
24	U049	40	P	S01	
25	U050	40	P	S01	
25	U051	40	P	S01	
25	U052	40	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 63 (continued)					
25	U053	40	P	S01	
25	U054	40	P	S01	
25	U055	40	P	S01	
25	U056	40	P	S01	
25	U057	40	P	S01	
25	U058	40	P	S01	
25	U059	40	P	S01	
26	U060	40	P	S01	
26	U061	40	P	S01	
26	U062	40	P	S01	
26	U063	40	P	S01	
26	U064	40	P	S01	
26	U065	40	P	S01	
26	U066	40	P	S01	
26	U067	40	P	S01	
26	U068	40	P	S01	
26	U069	40	P	S01	
27	U070	40	P	S01	
27	U071	40	P	S01	
27	U072	40	P	S01	
27	U073	40	P	S01	
27	U074	40	P	S01	
27	U075	40	P	S01	
27	U076	40	P	S01	
27	U077	40	P	S01	
27	U078	120	P	S01	
27	U079	40	P	S01	
28	U080	40	P	S01	
28	U081	40	P	S01	
28	U082	40	P	S01	
28	U083	40	P	S01	
28	U084	40	P	S01	
28	U085	40	P	S01	
28	U086	40	P	S01	
28	U087	40	P	S01	
28	U089	40	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 63 (continued)					
28	U091	40	P	S01	
29	U092	40	P	S01	
29	U093	40	P	S01	
29	U094	40	P	S01	
29	U095	40	P	S01	
29	U096	40	P	S01	
29	U097	40	P	S01	
29	U098	40	P	S01	
29	U099	40	P	S01	
29	U101	40	P	S01	
29	U102	40	P	S01	
30	U103	40	P	S01	
30	U105	40	P	S01	
30	U106	40	P	S01	
30	U107	40	P	S01	
30	U108	40	P	S01	
30	U109	40	P	S01	
30	U110	40	P	S01	
30	U111	40	P	S01	
30	U112	40	P	S01	
30	U113	40	P	S01	
31	U114	40	P	S01	
31	U115	40	P	S01	
31	U116	40	P	S01	
31	U117	40	P	S01	
31	U118	40	P	S01	
31	U119	40	P	S01	
31	U120	40	P	S01	
31	U121	40	P	S01	
31	U122	70	P	S01	
31	U123	40	P	S01	
32	U124	40	P	S01	
32	U125	40	P	S01	
32	U126	40	P	S01	
32	U127	40	P	S01	
32	U128	40	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 63 (continued)					
32	U129	40	P	S01	
32	U130	40	P	S01	
32	U131	40	P	S01	
32	U132	40	P	S01	
32	U133	40	P	S01	
33	U134	120	P	S01	
33	U135	40	P	S01	
33	U136	40	P	S01	
33	U137	40	P	S01	
33	U138	40	P	S01	
33	U140	40	P	S01	
33	U141	40	P	S01	
33	U142	40	P	S01	
33	U143	40	P	S01	
33	U144	40	P	S01	
34	U145	40	P	S01	
34	U146	40	P	S01	
34	U147	40	P	S01	
34	U148	40	P	S01	
34	U149	40	P	S01	
34	U150	40	P	S01	
34	U151	70	P	S01	
34	U152	40	P	S01	
34	U153	40	P	S01	
34	U154	40	P	S01	
35	U155	40	P	S01	
35	U156	40	P	S01	
35	U157	40	P	S01	
35	U158	40	P	S01	
35	U159	40	P	S01	
35	U160	40	P	S01	
35	U161	40	P	S01	
35	U162	40	P	S01	
35	U163	40	P	S01	
35	U164	40	P	S01	
36	U165	40	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 63 (continued)					
36	U166	40	P	S01	
36	U167	40	P	S01	
36	U168	40	P	S01	
36	U169	40	P	S01	
36	U170	40	P	S01	
36	U171	40	P	S01	
36	U172	40	P	S01	
36	U173	40	P	S01	
36	U174	40	P	S01	
37	U176	40	P	S01	
37	U177	40	P	S01	
37	U178	40	P	S01	
37	U179	40	P	S01	
37	U180	40	P	S01	
37	U181	40	P	S01	
37	U182	40	P	S01	
37	U183	40	P	S01	
37	U184	40	P	S01	
37	U185	40	P	S01	
38	U186	40	P	S01	
38	U187	40	P	S01	
38	U188	40	P	S01	
38	U189	40	P	S01	
38	U190	40	P	S01	
38	U191	40	P	S01	
38	U192	40	P	S01	
38	U193	40	P	S01	
38	U194	40	P	S01	
38	U196	40	P	S01	
39	U197	40	P	S01	
39	U200	40	P	S01	
39	U201	40	P	S01	
39	U202	40	P	S01	
39	U203	40	P	S01	
39	U204	40	P	S01	
39	U205	40	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 63 (continued)					
39	U206	40	P	S01	
39	U207	40	P	S01	
39	U208	40	P	S01	
40	U209	40	P	S01	
40	U210	40	P	S01	
40	U211	40	P	S01	
40	U213	40	P	S01	
40	U214	40	P	S01	
40	U215	40	P	S01	
40	U216	40	P	S01	
40	U217	40	P	S01	
40	U218	40	P	S01	
40	U219	40	P	S01	
41	U220	70	P	S01	
41	U221	40	P	S01	
41	U222	40	P	S01	
41	U223	40	P	S01	
41	U225	40	P	S01	
41	U226	70	P	S01	
41	U227	40	P	S01	
41	U228	70	P	S01	
41	U234	40	P	S01	
41	U235	40	P	S01	
42	U236	40	P	S01	
42	U237	40	P	S01	
42	U238	40	P	S01	
42	U239	70	P	S01	
42	U240	40	P	S01	
42	U243	40	P	S01	
42	U244	40	P	S01	
42	U246	40	P	S01	
42	U247	40	P	S01	
42	U248	40	P	S01	
43	U249	40	P	S01	
43	U271	40	P	S01	
43	U278	40	P	S01	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				(1) Process Codes	(2) Process Description (if code is not entered in 7.D1))
Technical Area 63 (continued)					
43	U279	40	P	S01	
44	U280	40	P	S01	
45	U283	40	P	S01	
46	U353	40	P	S01	
47	U359	40	P	S01	
48	U364	40	P	S01	
49	U367	40	P	S01	
50	U372	40	P	S01	
51	U373	40	P	S01	
52	U387	40	P	S01	
53	U389	40	P	S01	
54	U394	40	P	S01	
55	U395	40	P	S01	
56	U404	40	P	S01	
57	U409	40	P	S01	
58	U410	40	P	S01	
59	U411	40	P	S01	

ATTACHMENT C

WASTE ANALYSIS PLAN

LIST OF TABLES

C.3.2.1.2 Visual Examination

The Permittees may use visual examination (VE) to verify the contents of MTRUW containers as a substitute to RTR or during packaging of the waste. VE is performed by physically examining the contents of a waste container to verify that the container is properly included in the appropriate waste stream, to verify the absence of free liquids, to confirm the physical form of containerized waste, and to document the materials present. The Permittees shall ensure that waste characterization determined through VE is recorded in the associated waste's AK documentation.

Standardized training for VE shall be developed. Visual examination operators shall be trained in the specific waste generating processes, typical packaging configurations, and waste material parameters expected to be found in each waste stream at the generator site. The training shall be site specific to include the various waste configurations generated at the site. Operators must requalify at least every two years.

C.3.2.2 Characterization to Meet LDR Requirements

The Permittees shall characterize MTRUW to determine its land disposal restriction status in accordance with Attachment Section C.5.2.

C.3.2.3 WIPP Characterization

Most MTRUW waste at the Facility is destined for disposal at the Waste Isolation Pilot Project (WIPP) in Carlsbad, New Mexico. Therefore, prior to shipment to WIPP, additional characterization to meet WIPP certification procedures will be implemented to meet requirements of the WIPP permit for these wastes. Waste information that is derived from the WIPP waste characterization will be used for Facility MTRUW characterization as additional information for AK.

C.3.2.4 Characterization Procedures Prior to and After Treatment of Mixed TRU Wastes

The Permittees shall adhere to the waste characterization procedures specific to waste treatment in the stabilization unit at TA-55, Building 4, Room 401;~~, and~~ for the stabilization process of blending with zeolite at the TA-50, Building 69 (TA-50-0069) Indoor Permitted Unit; and the stabilization/neutralization treatment process at TA-54, Area G, Pad 9, Dome 231 (TA-54-0231). The stabilization unit at TA-55 is a miscellaneous unit pursuant to 40 CFR Part 264, Subpart X and is used to treat liquid and solid mixed wastes by stabilization in cement to form a noncorrosive solid matrix. The stabilization treatment process at TA-50 occurs within a glovebox at a permitted storage unit and is used to treat liquid and solid mixed waste by blending with water and zeolite to form a noncorrosive and non-ignitable solid matrix. The stabilization treatment process at TA-54-0231 occurs within a glove bag at a permitted storage unit and is used to treat liquid and solid mixed waste by neutralizing pourable liquids and adding zeolite or another WIPP-approved absorbent to form a noncorrosive and non-ignitable solid matrix.

The stabilization unit at TA-55 treats homogeneous liquid and solid mixed waste generated primarily from R&D and processing and recovery operations at TA-55 and at the Chemistry and Metallurgy Research Building at TA-3. The liquid wastes (Summary Category Group L1000) generally consist of evaporator bottoms solutions and laboratory solutions that may exhibit the hazardous characteristics of corrosivity and toxicity for metals (including arsenic, barium, cadmium, chromium, lead, mercury, and silver) as defined in 40 CFR §§ 261.22 and 261.24, which are incorporated herein by reference. The homogeneous solid process wastes (Summary Category Group S3000) consist of process residue from the evaporator, process leached solids, filter cake, and other miscellaneous solids. This waste stream typically exhibits the hazardous characteristic of toxicity (for metals) and corrosivity. These waste streams are mixed with cement in 55-gallon drums and allowed to cure into a noncorrosive solid matrix. Table C-19 provides a description of the waste streams associated with the stabilization unit and identifies their potentially applicable EPA Hazardous Waste Numbers. The resulting cemented waste is identified by Summary Category Group S3000 and typically carries the Waste Matrix Code S3100.

The glovebox at the TA-50-0069 Indoor Permitted Unit is used to treat nitrate salt-bearing waste by stabilization in containers. Liquids and solid waste that exhibit the hazardous characteristics of ignitability, corrosivity (for liquids only), and toxicity for metals (including arsenic, barium, cadmium, chromium, lead, mercury, and silver) as defined in 40 CFR §§261.22 and 261.24, which are incorporated herein by reference, are treated at the unit to remove only the ignitability and corrosivity characteristics. Table C-20 provides a description of the waste streams associated with the stabilization within a bowl in a glovebox located within ~~in~~ TA-50-0069 and the stabilization (including absorption) and neutralization inside a permacon in Building TA-54-231, and identifies their potentially applicable EPA Hazardous Waste Numbers prior to treatment. After treatment, only the EPA Hazardous Waste Numbers for ignitability and corrosivity (D001 and D002) will be removed from the treated waste. All other Hazardous Waste Numbers will still apply to the treated waste.

The permitted unit at TA-54-0231 is used to treat mixed transuranic waste from the S3000 waste matrix (homogeneous solids) to remove the Resource Conservation and Recovery Act (RCRA) hazardous waste characteristics of D001, D002, and D003. Treatment of cemented sludge waste will occur within glove bags at TA-54-0231 inside the permitted permacon unit. Treatment activities include stabilizing liquids with zeolite, neutralization of liquids, and absorption of liquids using zeolite or other WIPP-approved absorbent. Table C-20 provides a description of the waste streams associated with the stabilization (including absorption) and neutralization inside a glove bag located within a permacon in TA-54-0231 and identifies their potentially applicable EPA Hazardous Waste Numbers prior to treatment. After treatment, only the EPA Hazardous Waste Numbers for ignitability and corrosivity (D001 and D002) will be removed from the treated waste. To remove the D003 code, aerosol cans will be removed/segregated from the waste stream and sent off-site for treatment and disposal. All other Hazardous Waste Numbers will still apply to the treated waste.

C.3.2.4.1 Characterization Procedures for Waste to Be Treated by Stabilization

The Permittees shall conduct chemical and physical characterization prior to treatment of MTRUW. The Permittees shall use documented AK, as described in Attachment Section C.3.1.1, to determine whether or not the waste stream is regulated as a hazardous waste. The Permittees shall use process knowledge, chemical analytical data, or both to adequately characterize the MTRUW prior to stabilization and neutralization, if necessary (TA-54-0231 only). If process information is not sufficient, the Permittees shall periodically sample and analyze the wastes to be treated by stabilization for pH and for TC metals listed in 40 CFR § 261.24 to establish a baseline, as appropriate. Based on documented AK, the wastes treated by stabilization at TA-55 do not contain VOCs or SVOCs. Parameters and analytical methods for specific hazardous constituents are presented in Table C-18.

The neutralization process will consist of verifying pH and adding hydrochloric acid (HCl) or sodium hydroxide (NaOH) incrementally and iteratively to aqueous waste to bring the pH to within a 3–10 range. Pourable liquids in the waste drums will have their pH measured with a calibrated pH meter, before the neutralization process. Additionally, N3B will generally follow EPA Method 9040C, pH Electrometric Measurement for pH testing. However, because of the need for "real-time" pH screening results at the time of waste processing, strict adherence to all aspects of EPA Method 9040C is not possible. The liquids will be neutralized, if necessary, and stabilized with zeolite in a minimum ratio of 3:1 (three parts zeolite to one part liquid waste). The treated waste will be repackaged into a new certified 55-gal. daughter drum and characterized and certified by Central Characterization Program (CCP) personnel in accordance with the WIPP WAC. All measuring tools used in the stabilization process (glass/plastic pipettes, graduated cylinders, and beakers) will be resistant to a wide variety of reagents.

~~Six remediated nitrate salt-bearing waste containers (including drum #68685) and the liquids from two unremediated nitrate salt-bearing waste containers will be sampled when the containers are opened within the glovebox in the TA-50-69 Indoor Permitted Unit. The samples will be analyzed at a LANL on-site analytical laboratory and will provide additional acceptable knowledge characterization information for these types of nitrate salt-bearing waste to confirm testing conducted with surrogate materials. Analytical results for this testing will be provided to the Department within 60 days of sample collection; the Permittees shall provide these results in the form of a table with a column indicating expected ranges for each analyte based on the Permittees surrogate waste testing.~~

~~To ensure that proper procedures and considerations for sample collection and preservation, QA/QC, and occupational safety and health are followed, the Permittees shall comply with the Facility-specific protocol consistent with the most recent version of *SW-846*. For purposes of collecting a representative sample of MTRUW, the Permittees shall collect and handle the sample in a manner that preserves its original physical form and composition and prevents contamination or changes in concentration of the parameters to be analyzed. Specific requirements as for sampling, parameters, and analytical methods are outlined in Tables C-11 and C-18. Reevaluation frequency is addressed in Attachment Section C.3.~~

C.3.2.4.2 Characterization Procedures for Waste Treated by Stabilization

The Permittees shall characterize waste treated by stabilization (*i.e.*, MTRUW) in accordance with Attachment Section C.3.2. For treatment at the TA-50-0069 Indoor Permitted Unit, samples will be collected from a minimum of 1% of treated waste containers from each waste stream and analyzed at an onsite laboratory to confirm chemical composition when compared to that of the surrogates tested.

The New Mexico Environment Department may require additional sampling of waste from the TA-54-0231 treatment process.

C.3.2.5 Sample Handling, Preservation, and Storage

Table C-15 presents the most recent *SW-846* requirements regarding sample containers, preservation techniques, and holding times associated with sample collection. The Permittees shall adhere to these requirements to ensure that sampling and analysis meet quality objectives for data.

C.4 OFF-SITE WASTE ACCEPTANCE PROCEDURES

For off-site waste, the Permittees shall require the generator to provide waste characterization documentation equivalent to that prepared by the Permittees for waste generated on site. The Permittees shall review such documentation for completeness and accuracy prior to approving the waste for shipment to the Facility.

The Permittees shall verify that off-site waste documentation, including Uniform Hazardous Waste Manifests and LDR Notification Forms, corresponds to the waste received and its associated characterization documentation.

The Permittees shall physically examine waste shipments upon receipt for correct documentation, correctness and completeness of waste container identification and labeling, and conformance with permitted container types and waste compatibility for storage and segregation, as appropriate. If the Permittees find discrepancies between the wastes received and the manifest or during further characterization find such discrepancies, the Permittees shall notify the Department in accordance with Permit Section 2.4.4. If the Permittees cannot resolve the discrepancies, the waste shall be returned to the generator in accordance with Permit Section 2.4.4.

C.5 SPECIAL PROCEDURAL REQUIREMENTS

Waste management requirements specific to ignitable, reactive, and incompatible waste as well as requirements for compliance with LDR and 40 CFR Part 264 Subparts BB and CC are described below.

C.5.1 Procedures for Ignitable, Reactive, and Incompatible Wastes to be Stored or

Table C-20
Description of Stabilization Waste Streams at Technical Area 50, Building 69 and Technical Area 54, Dome 231
(This table is for informational purposes only)

Summary Category Group	Waste Matrix Code	Waste Description[a]	Waste-Generating Activity	Basis for Hazardous Waste Designation	Potential EPA Hazardous Waste Numbers	Potential Hazardous Waste Constituents and /or Characteristics	Regulatory Limits[b] (milligrams per liter)	Potential Underlying Hazardous Constituents[c]
S3000 - Homogeneous	S3100	Homogeneous Inorganic, Cemented	Plutonium processing operations	Acceptable Knowledge	D001	Ignitable	NA[d]	
					D002	Corrosive	NA[d]	
					D003[e]	Reactivity	NA[d]	
		Homogeneous Inorganic, Cemented Organics	Plutonium processing operations	Acceptable Knowledge	D004	Arsenic	5.0	
					D005	Barium hydroxide	100.0	
					D006	Cadmium	1.0	
					D007	Chromium	5.0	
					D008	Lead	5.0	
		Homogeneous Inorganic, Non-cemented	Plutonium processing operations	Acceptable Knowledge	D009	Mercury	0.2	
					D010	Selenium	1.0	
					D011	Silver	5.0	
					D018	Benzene	0.5	
					D019	Carbon tetrachloride	0.5	
		Homogeneous Inorganic, Salts	Plutonium processing operations	Acceptable Knowledge	D021	Chlorobenzene	100.0	
					D022	Chloroform	6.0	
					D035	Methyl ethyl ketone	200.0	
					D038	Pyridine	5.0[e]	
					D039	Tetrachloroethylene	0.7	
					D040	Trichloroethylene	0.5	
					F001	Spent halogenated solvents	NA[d]	
					F002	Spent halogenated solvents	NA[d]	
					F003	Spent non-halogenated solvents	NA[d]	
					F004[e]	Spent non-halogenated solvents	NA[d]	
					F005	Spent non-halogenated solvents	NA[d]	
					F006[e]	Wastewater treatment sludges	NA[d]	
					F007[e]	Spent cyanide plating solutions	NA[d]	
					F008[e]	Spent strip/clean solutions	NA[d]	

Table C-20 (continued)

(This table is for informational purposes only)

Summary Category Group	Waste Matrix Code	Waste Description[a]	Waste-Generating Activity	Basis for Hazardous Waste Designation	Potential EPA Hazardous Waste Numbers	Potential Hazardous Waste Constituents and/or Characteristics	Regulatory Limits[b] (milligrams per liter)	Potential Underlying Hazardous Constituents[c]
S3000 - Homogeneous	S3100	Homogeneous Inorganic, Vermiculite	Plutonium processing operations	Acceptable Knowledge	D001	Ignitable	NA[d]	
					D002	Corrosive	NA[d]	
					D003[f]	Reactivity	5.0	
					D004	Arsenic	100.0	
					D005	Barium hydroxide	1.0	
					D006	Cadmium	5.0	
					D007	Chromium	5.0	
					D008	Lead	0.2	
					D009	Mercury	1.0	
					D010	Selenium	5.0	
					D011	Silver	0.5	
					D018	Benzene	0.5	
					D019	Carbon tetrachloride	100.0	
					D021	Chlorobenzene	6.0	
					D022	Chloroform	7.5	
					D027	1,4-Dichlorobenzene	0.5	
					D028	1,2-Dichloroethane	0.13[e]	
					D030	2,4-Dinitrotoluene	0.13[e]	
					D032	Hexachlorobenzene	0.5	
					D033	Hexachlorobutadiene	3.0	
					D034	Hexachloroethane	200.0	
					D035	Methyl ethyl ketone	2.0	
					D036	Nitrobenzene	100.0	
					D037	Pentachlorophenol	5.0[e]	
					D038	Pyridine	0.7	
					D039	Tetrachloroethylene	0.5	
					D040	Trichloroethylene	2.0	
					D042	2,4,6-Trichlorophenol	0.2	
					D043	Vinyl Chloride	NA[d]	
					F001	Spent halogenated solvents	NA[d]	
					F002	Spent halogenated solvents	NA[d]	
					F004[f]	Spent non-halogenated solvents	NA[d]	
					F003	Spent non-halogenated solvents	NA[d]	
					F005	Spent non-halogenated solvents	NA[d]	
					F006[f]	Wastewater treatment solvents	NA[d]	
					F007[f]	Spent cyanide-plating solutions	NA[d]	
					F008[f]	Spent strip/clean solutions	NA[d]	

Table C-20 (continued)

(This table is for informational purposes only)

Summary Category Group	Waste Matrix Code	Waste Description[a]	Waste-Generating Activity	Basis for Hazardous Waste Designation	Potential EPA Hazardous Waste Numbers	Potential Hazardous Waste Constituents and/or Characteristics	Regulatory Limits[b] (milligrams per liter)	Potential Underlying Hazardous Constituents[c]
S5000 - Debris	S5300	Combustible Debris	Plutonium processing operations	Acceptable Knowledge	D001	Ignitable	NA[d]	
					D002	Corrosive	NA[d]	
					D003	Reactive	NA[d]	
	S5400	Heterogeneous Debris	Plutonium processing operations; D&D	Acceptable Knowledge	D004	Arsenic	5.0	
					D005	Barium hydroxide	100.0	
					D006	Cadmium	1.0	
					D007	Chromium	5.0	
					D008	Lead	5.0	
					D009	Mercury	0.2	
					D010	Selenium	1.0	
					D011	Silver	5.0	
					D018	Benzene	0.5	
					D019	Carbon tetrachloride	0.5	
					D021	Chlorobenzene	100.0	
					D022	Chloroform	6.0	
					D035	Methyl ethyl ketone	200.0	
					D038	Pyridine	5.0[e]	
					D039	Tetrachloroethylene	0.7	
					D040	Trichloroethylene	0.5	
					D043	Vinyl Chloride	0.2	
					F001	Spent halogenated solvents	NA[d]	
					F002	Spent halogenated solvents	NA[d]	
					F003	Spent non-halogenated solvents	NA[d]	
					F004	Spent non-halogenated solvents	NA[d]	
					F005	Spent non-halogenated solvents	NA[d]	
					U080	Methylene Chloride	NA[d]	

[a] This table is based on information from the *Acceptable Knowledge Information Summary for Los Alamos National Laboratory Transuranic Waste Streams (*AKIS), (TWCP-AK-2.1, 1-019, R.0)(LA-UR-03-4870); and from waste characterization documentation information maintained by the Facility and Waste Operations Division. Waste with EPA Hazardous Waste Numbers that are not included in the Waste Isolation Pilot Plant (WIPP) Hazardous Waste Facility Permit will not be transported to WIPP. Additionally, recharacterization efforts for nitrate salt-bearing waste have been conducted and documented in several documents as outlined in Enclosure 3 of *Response to Ordered Action 2/3; Attachment A to Settlement Agreement and Stipulated Final Order HWB-14-20; Los Alamos National Laboratory.*

[b] A solid waste exhibits the characteristic of toxicity if, using the Toxicity Characteristic Leaching Procedure, Test Method 1331 in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (EPA, 1986), the extract from a representative sample of solid waste contains any of the contaminants listed at a concentration equal to or greater than the respective value given in the New Mexico Administrative Code , Title 20, Chapter 4, Part 1, Subpart II, Part 261, Subpart C[6-14-00].

[c] Potential underlying hazardous constituents (UHC) have been included, where the information is available. UHC characterization for the purpose of Land Disposal Restrictions will apply for mixed transuranic waste to be disposed of at WIPP.

[d] Not Applicable: Refers to the absence of regulatory limits for ignitable, corrosive and reactive characteristic waste and F-, P-, and U-listed wastes.

[e] Potential EPA Hazardous Waste Numbers present only at TA-54-231.

[f] Quantitation limit is greater than the calculated regulatory level. The quantitation limit therefore becomes the regulatory level.

ATTACHMENT E

INSPECTION PLAN

TA-54

ATTACHMENT E

INSPECTION PLAN

TA-54

ATTACHMENT E

INSPECTION PLAN

This Attachment Section presents additional inspection requirements specific to the container storage units at Technical Area (TA) 54. The Permittees shall conduct inspections at the frequency specified in the general inspection Section to identify problems in time to correct them before they harm human health or the environment.

E.1 INSPECTION REQUIREMENTS FOR TRUPACT-II CONTAINERS

The Permittees shall visually inspect waste containers prior to their placement in the TRUPACT-II containers to ensure their integrity. The inspection shall include a close examination of the cover and closure devices for visible cracks, holes, gaps, or other open spaces into the interior of the waste container when the cover and closure devices are secured in the closed position. The TRUPACT-II shall be loaded with waste containers and sealed with a locking-ring closure mechanism. After the TRUPACT-II has been sealed, the Permittees shall inspect the outside of the TRUPACT-II to ensure its integrity and that there has been no human intervention.

E.2 INSPECTION REQUIREMENTS FOR TA-54 DOME 215 HOLDING TANK

The 10,000 gallon holding tank is located at Area L, Dome 215. The tanks is used to collect liquid that may result from fire-suppression activities and that is in excess of the capacity inside the rind wall located around the dome to prevent run-on into the dome. The Permittees shall inspect the storage tank for any detectable fluids each month. If any fluids are detected in the holding tank, the Waste Management Coordinator and the Shift Operations Manager to ensure that a chemical analysis of the fluid is performed and fluid is removed within 3 days. The following inspection requirements should be applied to the monthly inspections conducted on the 10,000 gallon holding tank and shall be documented on separate forms.

E.3 STABILIZATION UNIT

The Permittees shall inspect the stabilization unit located at TA-54-0231, according to the schedule provided below.

E.3.1 Daily (During Operation)

The Permittees shall inspect the stabilization unit each operating day (i.e., when mixed waste is treated in the unit). In the daily inspection of the stabilization unit, the Permittees shall inspect the following items, as applicable:

1. Work surfaces and floors
2. Secondary containment structures
3. Labels
4. Structural integrity of cementation unit
5. (Un)loading area
6. Communication equipment

E.3.2 Weekly

The Permittees shall inspect the stabilization unit weekly for the following items, as applicable:

1. Warning signs
2. Work surfaces and floors
3. Secondary containment structure
4. Labels
5. Structural integrity of cementation unit
6. (Un)loading area
7. Communication equipment

TA-55

ATTACHMENT E

INSPECTION PLAN

TA-55
ATTACHMENT E
INSPECTION PLAN

This Attachment Section presents additional inspection requirements applicable to the waste management units at Technical Area (TA) 55. The Permittees shall conduct inspections at the frequency specified in the General Inspection Section to identify problems in time to correct them before they harm human health or the environment.

The Permittees shall perform daily inspections for the fences at TA-55 and document them on separate forms.

E.1 TA-55 VAULT

The Vault is a container storage unit (CSU) located in the basement at TA-55-4 and waste containers in the Vault shall only contain mixed waste. The following inspection requirements are applicable to those rooms in the Vault that store mixed waste.

E.1.1 Non-Intrusive Inspection Systems

Inspection requirements are satisfied in part by the use of continuous air monitors (CAM) located in each individual storage room within the Vault to continuously monitor airborne radioactivity levels. If a problem with a container is identified by a CAM, the Permittees shall remove that container from the Vault and inspect it in an open-front hood.

The Permittees shall ensure that information obtained during inspections and all container transfers are noted on the Vault Traffic Log Book maintained at TA-55. The Permittees shall inspect the Vault Traffic Log Book weekly to verify receipt or transfer of mixed waste from the Vault. If mixed waste is not currently being stored in the Vault and the weekly inspection indicates that no mixed waste has been received, the Permittees shall mark the Inspection Record Form (IRF) “No Use” and complete it according to the IRF instructions.

E.1.2 Intrusive Inspection Procedures

The Permittees shall ensure that the central hallway of the Vault is inspected weekly when mixed waste is in storage. The Permittees shall inspect and note the following items in weekly inspections:

1. Vault Traffic Log Book (inspected for receipt or transfer of waste)
2. Communications equipment
3. Warning signs
4. Security
5. Work surfaces and floors in central corridor
6. Spill and fire equipment
7. Secondary containment
8. (Un)loading area

9. Visual inspection of storage rooms from hallway
10. Nuclear Materials Custodian contacted to verify no alarms or problems

When containers are placed into or removed from a storage room within the Vault, the Permittees shall inspect the following items in that storage room, as appropriate:

1. Vault Traffic Log Book (inspected for receipt or transfer of waste)
2. Communication equipment
3. Warning signs
4. Security
5. Work surfaces and floors
6. Spill and fire equipment
7. Secondary containment
8. (Un)loading area
9. Nuclear Materials Custodian contacted to verify no alarms or problems
10. Emergency equipment/lighting
11. Covers/lids of containers
12. Labels
13. Accumulation start date
14. Compatibility
15. Structural integrity of containers
16. Aisle spacing/stacking
17. Pallets/raised containers

The Permittees shall record inspection results on the IRF maintained at TA-55.

E.2 STORAGE TANK SYSTEM

The Permittees shall inspect the storage tank system components located at TA-55-4, Room 401, according to the schedule provided below.

E.2.1 Daily (During Operation)

The Permittees shall inspect the storage tank system components (including ancillary equipment) at least once each operating day. An operating day includes when waste is present in the tank. In daily inspections, the Permittees shall inspect and note the following items, as applicable:

1. Work surfaces and floors
2. Secondary containment structure
3. Structural integrity of tanks and ancillary equipment
4. Labels
5. (Un)loading areas
6. All portions of tank systems to detect corrosion or releases of waste and to detect any possible malfunctions to overfill/spill control equipment, tank monitoring, and leak detection systems and data from these systems
7. Proper operating condition of tank

E.2.2 Weekly

The Permittees shall inspect storage tank system components weekly for the following items, as applicable:

1. Warning signs
2. Work surfaces and floors
3. Secondary containment structures
4. Covers and lids of tanks
5. Labels
6. Structural integrity of tanks and ancillary equipment
7. (Un)loading areas
8. All portions of tank systems to detect corrosion or releases of waste and to detect any possible malfunctions to overfill/spill control equipment, tank monitoring, and leak detection systems and data from these systems
9. Proper operating condition of tank

E.3 STABILIZATION UNIT

The Permittees shall inspect the stabilization unit located at TA-55-4, Room 401 according to the schedule provided below.

E.3.1 Daily (During Operation)

The Permittees shall inspect the stabilization unit each operating day (*i.e.*, when mixed waste is treated in the unit). In the daily inspection of the stabilization unit, the Permittees shall inspect the following items, as applicable:

~~1.~~7. Work surfaces and floors
~~2.~~8. Secondary containment structures
~~3.~~9. Labels
~~4.~~10. Structural integrity of cementation unit
~~5.~~11. (Un)loading area
~~6.~~12. Communication equipment

E.3.2 Weekly

The Permittees shall inspect the stabilization unit weekly for the following items, as applicable:

~~1.~~8. Warning signs
~~2.~~9. Work surfaces and floors
~~3.~~10. Secondary containment structure
~~4.~~11. Labels
~~5.~~12. Structural integrity of cementation unit
~~6.~~13. (Un)loading area
~~7.~~14. Communication equipment

E.4 ADDITIONAL INSPECTION ITEMS

The Permittees shall ensure that the items listed below are inspected monthly and documented on a separate IRF:

1. Evacuation alarms
2. Ventilation alarms
3. Fire alarms
4. Fire pumps
5. Fire extinguishers
6. Eyewashes and safety showers

Additionally, the Permittees shall inspect the fences and TA-55 access controls daily.

E.5 INSPECTION AND MONITORING FOR UNITS SUBJECT TO SUBPARTS AA AND BB REQUIREMENTS

The TA-55 CSUs are not subject to the requirements of 40 CFR Part 264, Subparts AA and BB, because they do not operate applicable process vents or equipment.

ATTACHMENT G.10

TECHNICAL AREA 54, AREA G, PAD 9

OUTDOOR CONTAINER STORAGE AND TREATMENT UNIT

CLOSURE PLAN

LIST OF TABLES

LIST OF FIGURES

1.0 INTRODUCTION

This closure plan describes the activities necessary to close the outdoor hazardous waste container storage unit and the Dome 231 Treatment Unit at Technical Area (TA)-54, Area G, Pad 9 at the Los Alamos National Laboratory (Facility), hereinafter referred to as the permitted unit. The information provided in this closure plan addresses the closure requirements specified in Permit Part 9 and the Code of Federal Regulations (CFR), Title 40, Part 264, Subparts G and I for hazardous waste management units operated at the Facility under the Resource Conservation and Recovery Act (RCRA) and the New Mexico Hazardous Waste Act.

Until closure is complete and has been certified in accordance with Permit Section 9.5, a copy of the approved closure plan or the hazardous waste facility permit containing the plan, any approved revisions to the plan, and closure activity documentation associated with the closure will be on file with hazardous waste compliance personnel at the Facility and at the U.S. Department of Energy (DOE) Los Alamos Site Office. Prior to closure of the permitted unit, this closure plan may be amended in accordance with Permit Section 9.4.8 to provide updated sampling and analysis plans and to incorporate updated decontamination technologies. Amended closure plans shall be submitted to the New Mexico Environment Department (Department) for approval prior to implementing closure activities.

2.0 DESCRIPTION OF UNIT TO BE CLOSED

~~A s~~Specific descriptions of the permitted units can be found in Permit Attachment A (*Technical Area Unit Descriptions*). Additional features and equipment located at the permitted unit and not discussed elsewhere within the Permit are described below.

The permitted unit is comprised of an asphalt pad which is located in the eastern end of Area G. It was constructed in 1993, consists of a four to six inch layer of asphalt over the underlying base course overlying fill (minimum six inches of tuff), and measures 570 feet long and 275 feet wide, or approximately 158,000 square feet. It is constructed with curbing on the west and east sides and is sloped from 1% to 1.5% to the east and south-east for drainage. Rainwater flow is directed across the pad by the eastward slope and through small PVC drains spaced at 55 foot intervals in the curbing along the east side of the pad. The slope below the curbing is protected with rock and concrete. Concrete curbing also extends along the west and partially the south sides of the pad and ends at a concrete and rock drainage structure. The remainder of the south side of the pad is uncurbed. Four domes (Domes 229, 230, 231, 232), are situated on it (*see* Figure G.10-1).

The permitted storage unit has stored the following waste types: solidified inorganic solids; leached process residues; salts and cement paste; ash; dewatered aqueous sludge; chemical treatment sludge; soils; combustible debris (*e.g.*, plastics, rubber, laboratory trash, building debris); and heterogeneous debris. Permit Part 3 (*Storage in Containers*), Permit Attachment A (*Technical Area Unit Descriptions*), Permit Attachment B (*Part A Application*), and Permit Attachment C (*Waste Analysis Plan*) include information regarding waste management procedures and hazardous waste constituents stored at the permitted unit.

The permitted treatment process within the permacon in Dome 231 was used to treat mixed transuranic waste (MTRU) from the S3000 waste matrix (homogenous solids) to deactivate the RCRA hazardous waste characteristics of D001, D002, and D003. Permit Attachment A (*Technical Area [TA] Unit Descriptions*), Permit Attachment B (*Part A Application*), and Permit Attachment C (*Waste Analysis Plan*) include information regarding waste treatment practices and hazardous waste constituents treated at the permitted unit.

Within the enclosure of permacon unit, glove bags were used to enclose a contaminated item and form a small work area to confine the spread of contamination. Use of glove bags allow work to be performed on potentially contaminated items, protect personnel, and allow access to waste within the containment using gloved sleeves, which enable repackaging or manipulations without directly contacting contaminated surfaces.

2.1 Permitted Unit Domes

The four storage domes at the permitted unit have been used for the storage of hazardous waste in both liquid and solid form since 1994. The domes (an aluminum framework of trusses covered with tension-fitted ultraviolet resistant, fire-retardant coated, polyester fabric) are 246 feet long by 89 feet wide and cover a surface area of approximately 20,400 square feet each. The base of each dome is secured with anchor bolts to a concrete ring wall that surrounds the interior floor perimeter and provides run-on and run-off protection. The ring wall is designed to retain any liquids that may accumulate within the domes. Each dome has several personnel doors around the perimeter of the dome and a larger vehicle access door and ramp on the west end.

Dome 231 contains a Perma-Con® modular panel containment structure (68 feet long x 28 feet wide) used for the ~~remediation~~ treatment of MTRU prior to shipment to the Waste Isolation Pilot Plant. Domes 229 and 232 have been used only for the storage of non-liquid hazardous waste and Dome 230 and 231 have been used for the storage of both liquid and non-liquid hazardous waste.

2.1.1 Domes 229, 231, and 232 Fire Water Collection System

The permitted unit has a fire water collection system that collects water from Domes 232, 231, and Dome 226 on Pad 1. The system was designed to provide an augmented fire water collection capability to limit run-off of fire suppression waters from the domes if the volume of water during a fire exceeded their collection capacity. Fire suppression water from the domes is collected via a pipeline that runs from Pad 1 and down the east side of the permitted unit below the asphalt. The pipeline is sloped to provide gravity flow. The southeast portions of Domes 231 and 232 have three drain inlets each and Dome 226 has two drain inlets on the south end that connect to this pipeline. The pipeline terminates in the concrete walled semi-circular collection sump (lined with high density polyethylene plastic) in the east end of Dome 229. The semi-circular sump, which measures 70 feet by 28 feet and 26 inches in depth, is not intended for secondary containment of liquid waste and has not been used as such based on review of the permitted unit's Operating Record.

2.1.2 Dome 230 Secondary Containment

Dome 230 has a concrete walled semi-circular sump (lined with high density polyethylene plastic) at the east end of the dome and double high density polyethylene layers under the pad that act as secondary containment for liquid waste. The design of the sump is similar to that of Dome 229 as described above except that the sump in Dome 230 is not connected to an external drain system. The maximum capacity of accumulated liquids within the concrete sump and the curbed area of the dome are approximately 48,000 gallons.

3.0 ESTIMATE OF MAXIMUM WASTE STORED AND TREATED

Approximately 6,400,000 gallons of hazardous waste has been stored at the permitted unit to date. Throughout the life of this Permit, it is estimated that an additional 9,000,000 gallons of hazardous waste

will be stored. It is estimated that approximately 99,000 gal. of hazardous waste will be treated and repackaged at Dome 231 over its active life.

4.0 GENERAL CLOSURE REQUIREMENTS

4.1 Closure Performance Standards

As required by Permit Section 9.2, the permitted unit will be closed to meet the following performance standards:

a. remove all hazardous waste residues and hazardous constituents; and

b. ensure contaminated media do not contain concentrations of hazardous constituents greater than the clean-up levels established in accordance with Permit Sections 11.4 and 11.5. For soils the cleanup levels shall be established based on residential use. The Permittees must also demonstrate that there is no potential to contaminate groundwater.

If the Permittees are unable to achieve either of the clean closure standards above, they must:

c. control hazardous waste residues, hazardous constituents, and, as applicable, contaminated media such that they do not exceed a total excess cancer risk of 10^{-5} for carcinogenic substances and, for non-carcinogenic substances, a target Hazard Index of 1.0 for human receptors, and meet Ecological Screening Levels established under Permit Section 11.5;

d. control hazardous waste residues, hazardous constituents, and, as applicable, contaminated media such that they do not exceed a total excess cancer risk of 10^{-5} for carcinogenic substances and, for non-carcinogenic substances, a target Hazard Index of 1.0 for human receptors, and meet Ecological Screening Levels established under Permit Section 11.5;

e. minimize the need for further maintenance;

f. control, minimize, or eliminate, to the extent necessary to protect human health and the environment, the post-closure escape of hazardous waste, hazardous constituents, leachate, contaminated runoff, or hazardous waste decomposition products to the ground, groundwater, surface waters, or to the atmosphere; and

g. comply with the closure requirements of Permit Part 9 (*Closure*) and 40 CFR Part 264 Subparts G and I.

Closure of the permitted unit will be deemed complete when: 1) all structures and related equipment have been decontaminated or otherwise properly disposed of; 2) closure has been certified by an independent, professional engineer licensed in the State of New Mexico; and 3) closure certification has been submitted to, and approved by, the Department.

4.2 Closure Schedule

This closure plan schedule is intended to address the closure requirements for the permitted unit within the authorized timeframe of the current Hazardous Waste Facility Permit (*see* Permit Section 9.4). The following section provides the schedule of closure activities (*see also* Table G.10-1 of this closure plan).

Table G.10-1

Closure Schedule for the Technical Area 54, Area G, Pad 9 Outdoor Container Storage/Treatment Unit

Activity	Maximum Time Required
Notify the Department of intent to close.	-45 days
Final receipt of waste.	Day 0
Complete waste removal.	Day 90
Complete records review and structural assessment.	10 days after completed waste removal 100 or days after final receipt of waste
Complete all closure activities and submit final closure certification report to the Department.	Day 180

Table G.10-6

List of Equipment at the Technical Area 54, Area G, Pad 9 Outdoor Container Storage/Treatment Unit

Equipment	Decontamination	Disposal
PermaCon® in Dome 231 and associated equipment	X	
Equipment and spill kit cabinets	X	
Air pallets	X	
Container pallets	X	X
Communication equipment	X	X
Access barriers and chains	X	X

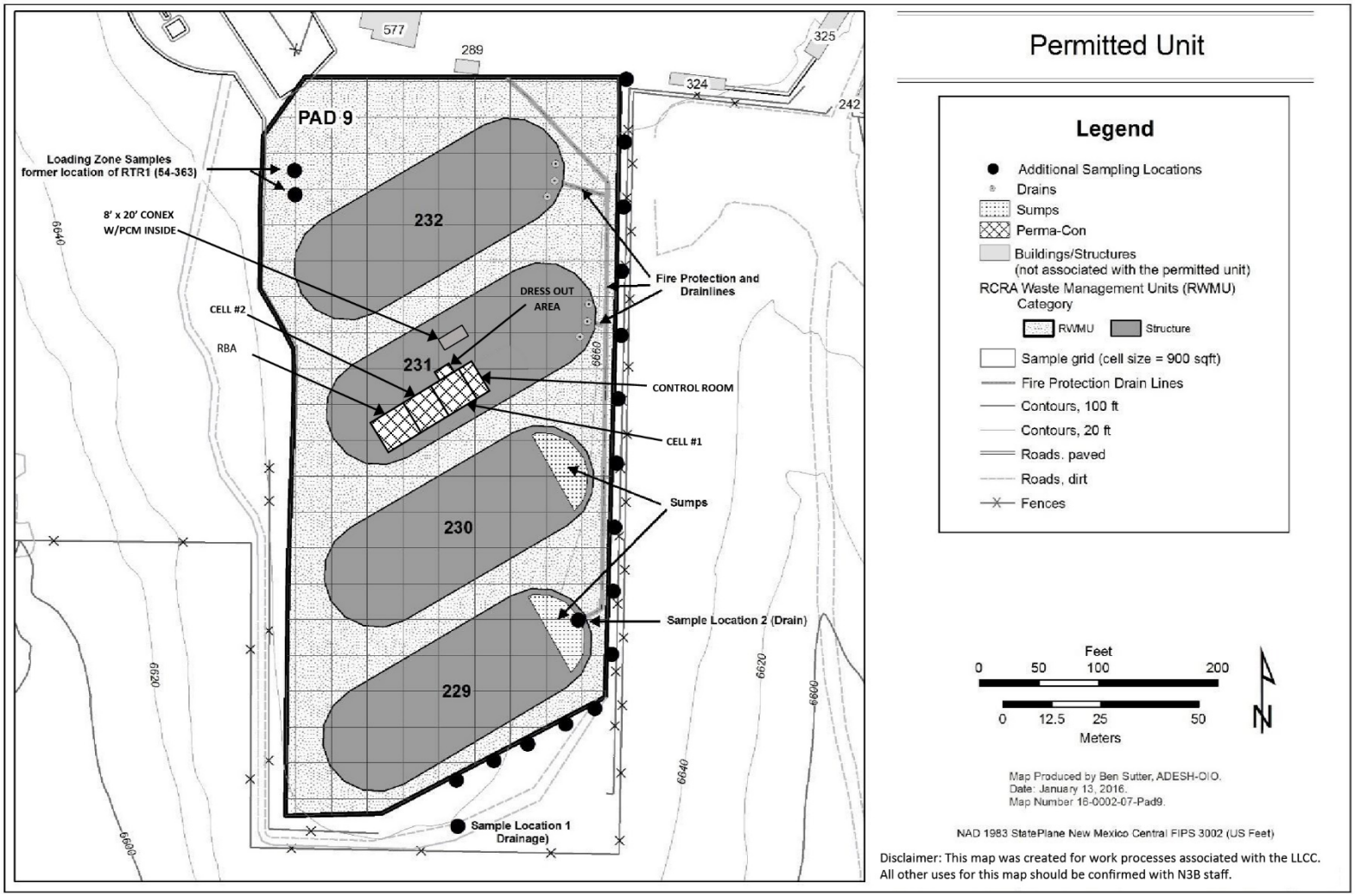

Figure G.10-1: Technical Area G, Pad 9 Outdoor Container Storage/Treatment Unit Grid Sampling and Additional Sampling Locations

ATTACHMENT J

HAZARDOUS WASTE MANAGEMENT UNITS

Unit Identifier	Process Codes	Operating Capacity	General Information	Type of Unit
TA-54 Area G Pad 9	S01 T04	1,446,720 gal 23,160 gal/day	Includes Storage Domes 229, 230, 231, and 232. Includes treatment process for macroencapsulation, stabilization (including absorption) and neutralization Total square footage – 158,000	Outdoor (associated with a regulated unit)
TA-54 Area G Pad 10	S01 T04	159,770 gal 23,160 gal/day	Includes Transuranic (TRU) Waste Characterization Facilities: TA-54-0547 (SuperHENC), TA-54-0498 (LANL HENC), TA-54-0545 and 546 (Storage trailers), and 438. Pad 10 is a consolidation of former Pads 2 and 4. Includes treatment process for macroencapsulation Approximately 89,600 square feet	Outdoor (associated with a regulated unit)
TA-54 Area G Pad 11	S01 T04	682,440 gal 23,160 gal/day	Includes Storage Dome 375. Includes treatment process for macroencapsulation Total square footage – 65,500	Outdoor (associated with a regulated unit)
TA-54 Area G Storage Shed 8	S01	11,880 gal	Also referred to as TA-54-8 Total square footage - 640	Indoor
TA-54 Area G TA-54-33	S01 T04	108,240 gal 23,160 gal/day	Also referred to as Drum Prep Facility Includes treatment process for macroencapsulation Total square footage – 8,570	Indoor

Attachment 2

Revised Figures (Attachment N, Figures 27 and 28;
and Attachment G.10, Figure G.10-1)

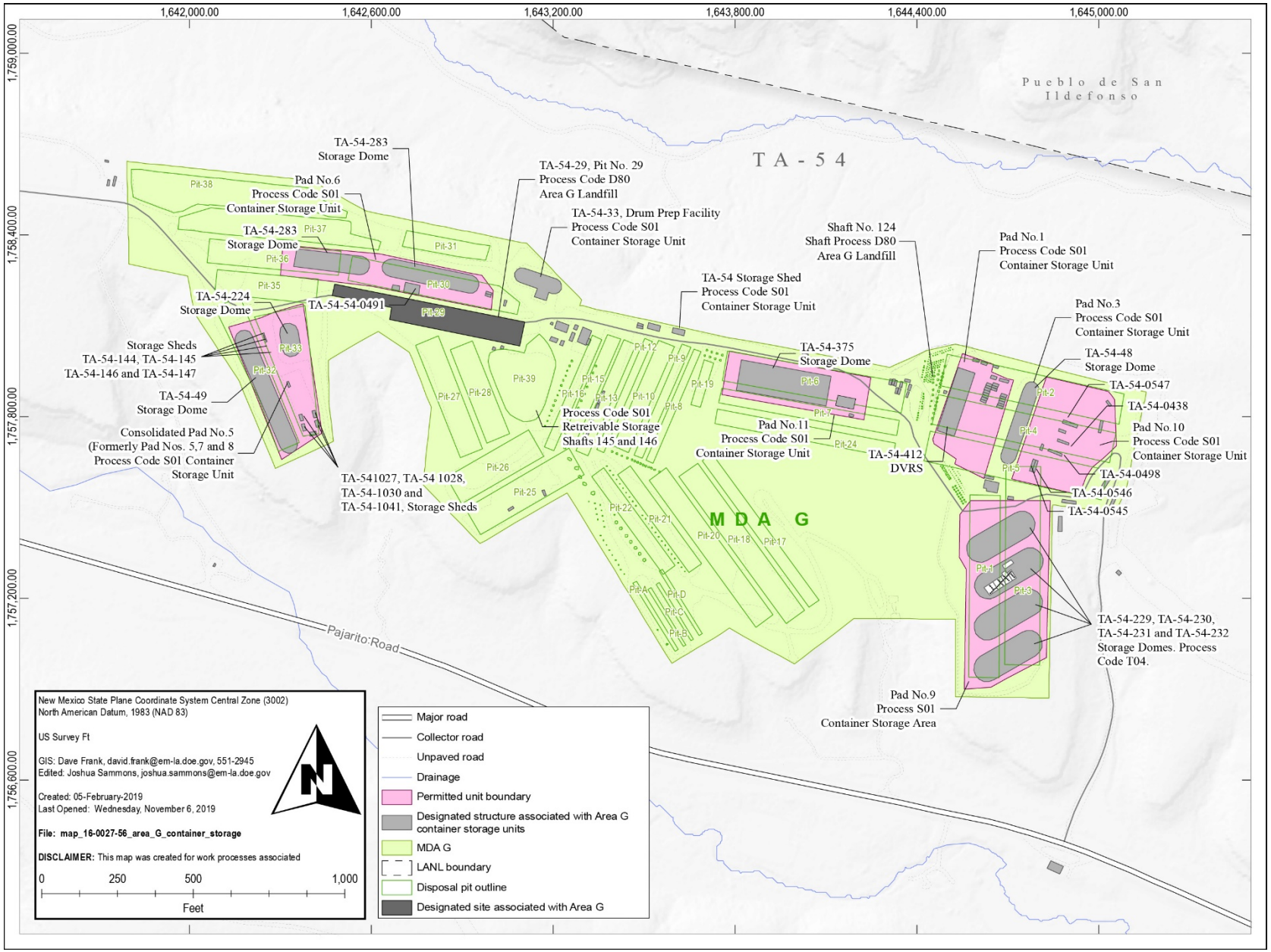

Figure 27: Technical Area 54, Area G, Container Storage/Treatment Units

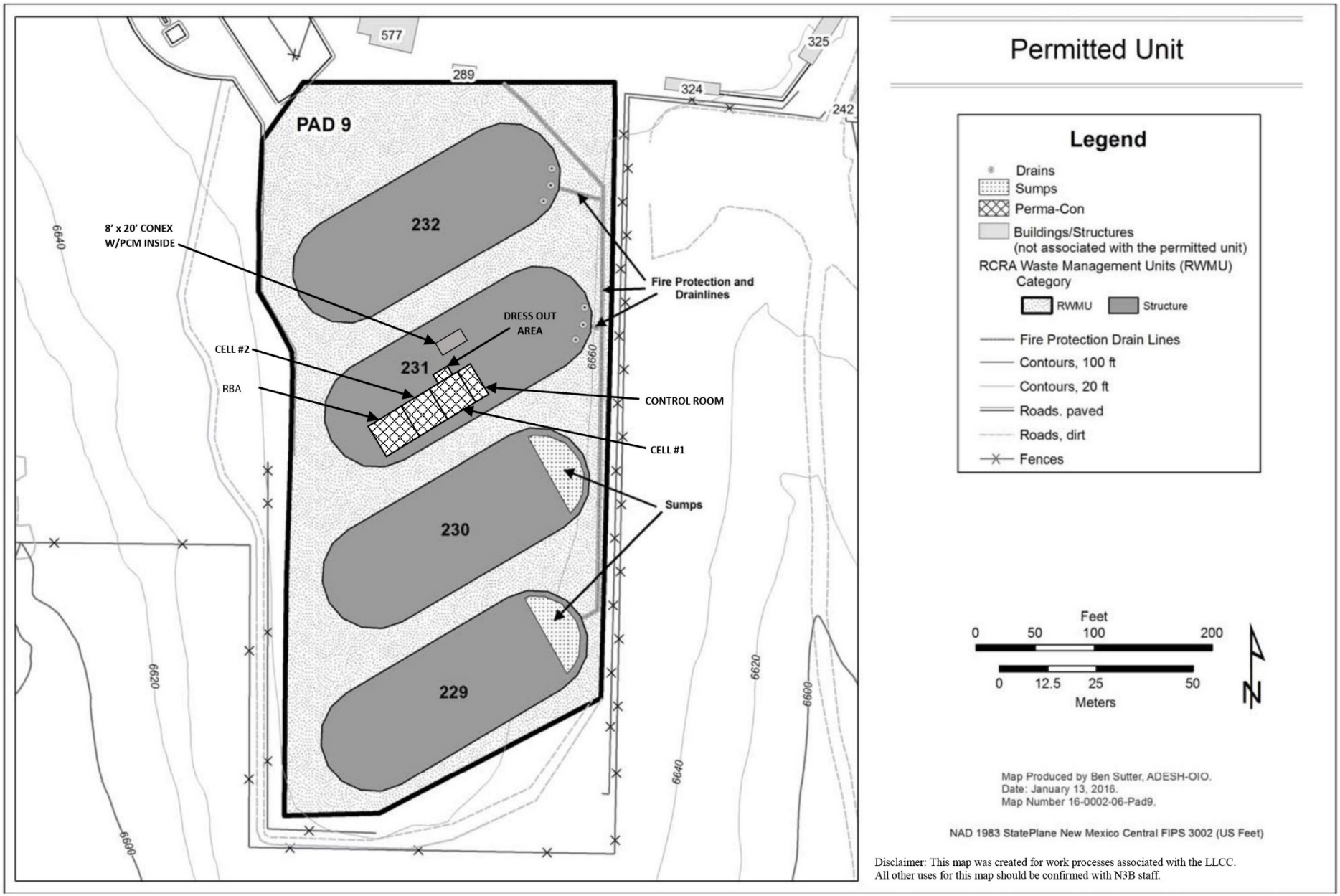

Figure 28: TA-54, Area G, Pad 9 (TWSP Domes 229, 230, 231, and 232)

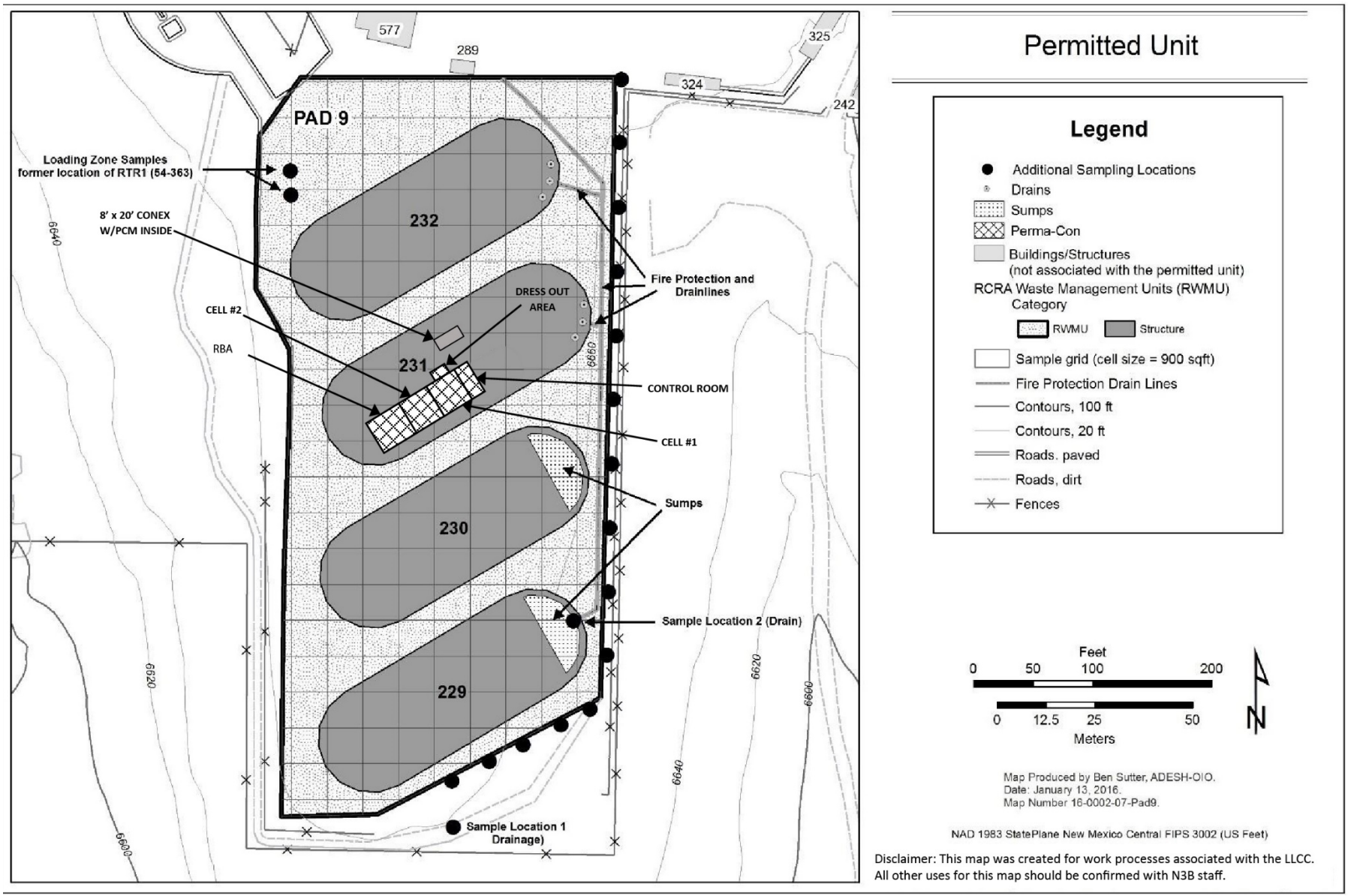

Figure G.10-1: Technical Area G, Pad 9 Outdoor Container Storage/Treatment Unit Grid Sampling and Additional Sampling Locations

Attachment 3

Certification Statement

CERTIFICATION

NEWPORT NEWS NUCLEAR BWXT-LOS ALAMOS, LLC

CERTIFICATION STATEMENT OF AUTHORIZATION

In accordance with the New Mexico Administrative Code Title 20, Chapter 4, Part 1 (incorporating the Code of Federal Regulations, Title 40 CFR § 270.11):

> "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Elizabeth Lowes, Program Manager
Environment, Safety and Health
Newport News Nuclear BWXT-Los Alamos, LLC

1-14-2020
Date

Arturo Q. Duran, Compliance and Permitting Manager
Office of Quality and Regulatory Compliance
Environmental Management
Los Alamos Field Office

1/24/20
Date