Permit

Los Alamos
NATIONAL LABORATORY
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Solid Waste Regulatory Compliance
P.O. Box 1663, Mail Stop K490
Los Alamos, New Mexico 87545
(505) 667-0666/FAX: (505) 667-5224

Date: April 19, 2004
Refer to: SWRC:04-032

CERTIFIED MAIL
RETURN
RECEIPT REQUESTED

RECEIVED
APR 2004
NMED Hazardous
Waste Bureau

Mr. John E. Kieling
Permits Management Program
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6303

Subject: Response to Determination of Interim Status and Permitted Units-
Los Alamos National Laboratory, EPA ID. No. NM0890010515

Dear Mr. Kieling:

The purpose of this letter is to respond to your request of February 27, 2004 regarding information related to closure of potential interim status waste management units at Los Alamos National Laboratory (LANL). Your letter states that the information will be used to determine whether closure of these six units is completed or the units will be included in the second round of the permit renewal currently under review. Two of the units were closed under interim status; three were < 90-day storage areas; and one unit identified in the letter was a duplicate. All the units were closed appropriately and must be omitted from LANL's renewal permit.

Two of the units were closed in accordance with approved closure plans. The closure plans indicate that these units were being closed as hazardous waste interim status units prior to the issuance of the LANL hazardous waste facility permit by the New Mexico Environmental Improvement Division (NMEID) on November 8, 1989. The certifications of closure were approved by the NMEID.

Three units were operated as less than ninety-day (<90-day) storage units and removed from service under LANL procedures for closure of such units. These units were included in LANL Resource Conservation and Recovery Act Part A permit applications in 1986 and 1987 but were subsequently removed from the November 2, 1988 Part A permit application submitted for the 1989 hazardous waste facility permit. The inclusion

16179

and subsequent removal of these <90-day storage units from Part A permit applications reflects some confusion about the types of units to be identified in a Part A. Inspection records from the relevant time period identify these units solely as <90-day storage areas. All appropriate hazardous waste container storage units listed in the application were included in the permit, thus terminating interim status for other hazardous waste management units at the facility. No record of further requests from NMEID for closure plans for these units based upon that loss of interim status have been found.

The list of units for which information was requested is included as Attachment 1 of this submittal. The unit specific attachments and documentation obtained from LANL permitting records are discussed below:

Technical Area (TA) -3, SM-40
This unit was a <90-day storage area. On June 22, 1984, the NMEID issued a Notice of Violation to the U.S. Department of Energy, Los Alamos Area Office that included a condition (Part Two, #7) that LANL identify all <90-day hazardous waste accumulation areas then in use at the facility. TA-3-40 was included in that list in the LANL response of July 25, 1984. (Please see Attachment 2.) The unit was described as a <90-day storage area in LANL waste management unit inspection record forms for 1985 through 1988. This unit was included in the drawings lists of subsequent Part A permit applications (March 19, 1986 and November 23, 1987) as "temporary chemical waste storage." The <90 day storage area was removed from service in October, 1993.

TA-9-39
This unit was a <90-day storage area and satellite accumulation area. 1985 and 1986 inspection records indicate it was a <90-day storage area until September 1986 when it was converted to a satellite accumulation area due to the small quantities of waste in storage. The unit was subsequently reclassified as a <90-day storage area identified as Site ID #28 in the LANL Hazardous Waste Storage Area Tracking System until it was removed from service in April 1994. It was reactivated in October 1995 (Site ID #567) and deactivated again in October 1999.

*TA-16(*sic.*), SM102, Rm 118A, ENG-R 2579*
This container storage unit should be identified as TA-3, SM102, Rm 118A. The October 31, 1984 Part A permit application omits a technical area designation for this unit which is listed immediately following some TA-16 units. The listing titles the unit as the "LiH storage area." Subsequent Part A permit applications clearly indicate the unit being at TA-3 by structure number and the title. A closure plan for the unit was submitted to the NMEID in September 1985 and revised on February 18, 1986. A public notice for the closure plan was posted August 16, 1987 (See Attachment 3). The certification of closure was approved by NMEID on June 17, 1988. (See Attachment 4.)

TA-22, TD 96
NMED's letter of February 27, 2004, identifies this unit as both TA-22, TD 96 and TA-22, TD 96-3. However, records from the mid 1980s to the present indicate only one waste management unit at TA-22, TD 96, which is the small explosive device storage cabinet Structure 96-3. The March 19, 1986 Part A permit application includes two photographs for the unit including a general site

orientation and the actual storage area (See Attachment 5). This unit was a <90-day storage area. The unit was identified as such in 1985 and in subsequent inspection records. The area has been operated as Site ID #219/829 in LANL's Hazardous Waste Storage Area Tracking System and was removed from service in March 2002.

TA-40, DF-2

Inspection records for 1985 through 1988 identify this explosives magazine as a container storage unit. A closure plan for the unit was first submitted to the NMEID on September 30, 1985 and revised on February 18, 1986. A public notice for the closure was posted on August 16, 1987 (See Attachment 3). The certification of closure was approved by NMEID on June 17, 1988. (See Attachment 4.)

In addition, your letter requested a copy of the March 19, 1986 Part A permit application. A copy of the signed EPA Form 3510-1 and unit photographs is provided from our records as Attachment 5. If you should have any further questions concerning this submittal, please contact Gian Bacigalupa at (505) 667-1579.

Sincerely,

Tony Grieggs

Tony Grieggs, Group Leader
Solid Waste Regulatory Compliance Group
Risk Reduction and Environmental Stewardship Division

TG:GB:vc

Att: a/s

Cy: w/o attach:
G. Turner, LASO/DOE, MS A316
E. Louderbough, LC-ESH, LANL, MS A187
J. Ellvinger, RRES-SWRC, LANL, MS K490

List of Attachments

1. LANL Interim Status Units with Unknown Closure Status (included with February 27, 2004 letter from John Kieling, New Mexico Environment Department to Pete Nanos, University of California, and Ralph Erickson, U.S. Department of Energy, "Determination of Interim Status and Permitted Units, Los Alamos National Laboratory, EPA ID No. NM0890010515").
2. Notice of Violation Response, July 25, 1984.
3. Notice of Intent to Change Container Storage Areas
4. NMEID Approval of Certification of Closure, TA-3-102 and TA-40-2, June 17, 1988
5. March 19, 1986 LANL Part A Permit Application

Attachment 1

LANL Interim Status Units with Unknown Closure Status (included with February 27, 2004 letter from John Kieling, New Mexico Environment Department to Pete Nanos, University of California, and Ralph Erickson, U.S. Department of Energy, "Determination of Interim Status and Permitted Units, Los Alamos National Laboratory, EPA ID No. NM0890010515").

LANL INTERIM STATUS UNITS WITH UNKNOWN CLOSURE STATUS

UNIT	UNIT TYPE	DESCRIPTION	REGULATORY STATUS	AUTHORITY	PERMIT REQUESTED ?	CLOSURE STATUS	SUBJECT TO POST-CLOSURE CARE?	MIX WAS UNI
TA-3, SM-40	storage	temporary chemical waste storage	interim status	3/19/86 Part A; (from 11/23/87 Part A)	no	?	no	?
TA-9-39	storage	structure for storage	interim status	3/19/86 Part A; (from 11/23/87 Part A)	no	?	no	?
TA-16, SM102, Rm. 118A, ENG-R 2579	storage	LiH storage area	interim status	10/31/84 Part A (dated 10/31 and 11/1)	no	?	no	no
TA-22, TD 96	storage	structure used as storage area (temp)	interim status	3/19/86 Part A (from 11/23/87 Part A)	no	?	no	?
TA-22, TD 96-3	storage	temporary storage area	interim status	3/19/86 Part A (from 11/23/87 Part A)	no	?	no	?
TA-40, DF-2	storage	temporary storage area	interim status	3/19/86 Part A (from 11/23/87 Part A)	no	?	no	?

We don't have 3/19/86 Part A. Those units come from 11/23/87 Part A list of units submitted in other Part A's.

Attachment 2

Notice of Violation Response, July 25, 1984.

Department of Energy
Albuquerque Operations
Los Alamos Area Office
Los Alamos, New Mexico 87544

JUL 24 1984

Mr. Steven Asher, Director
NM Environmental Improvement Division
P. O. Box 968
Santa Fe, NM 87504-0968

Attention: Mr. Greg Mello

Dear Mr. Asher:

The following information is provided in response to your "Notice of Violation" letter dated June 22, 1984. Some of the information is marked as draft material and when it has been reviewed and approved by DOE, Albuquerque, it will be forwarded to you in its final form.

Part One Item 1 - Request for a closure plan.

Enclosure 1 is a draft closure and post closure plan.

Part One Item 2 - Request for a post closure plan.

Enclosure 1 is a draft closure and post closure plan.

Part One Item 3 - Request for a copy of ground water monitoring program or waiver demonstration.

Enclosure 2 is a draft waiver demonstration request.

Part One Item 4 - Request for more definition regarding descriptive categories in the biennial report.

Enclosure 3 is a revised biennial report.

Part One Item 5 - Request to amend Part A to include lithium hydride storage area.

Enclosure 4 is a revised Part A.

Part One Item 6 - Statement that the 800 gallon container receiving plating waste does not have interim status for storage greater than ninety days.

No response necessary as we concur with your determination. The 800 gallon tank is identified in Part Two in Item 7 as the TA-3-40 plating tank.

Part One Item 7 - Statement that written waste analysis plan does not meet certain requirements.

Enclosure 5 is a draft waste analysis plan.

Part One Item 8 - Statement that a formal inspection plan does not exist for Area L or the treatment tank area in TA-50-1, and that inspection schedules and inspection logs must be submitted for treatment, storage (greater than ninety days) and disposal areas.

Enclosure 6 is the inspection schedules for Area L (TA-54), TA-3-40, TA-46, and TA-53 (ETL). The inspection schedules for TA-50-1 will be available when the unit becomes operational.

Part One Item 9 - Request for documentation regarding weekly inspection of storage areas of less than ninety days.

See enclosure 6.

Part One Item 10 - Request for documentation regarding annual training review.

Enclosure 7 is the requested documentation.

Part One Item 11 - Observation that a container awaiting disposal had two holes in the lid.

The lid was replaced.

Part One Item 12 - Request for an emergency equipment list to be provided to EID.

Enclosure 8 is the emergency equipment list.

Part One Item 13 - Statement that an accumulation date was not visible in a plating waste container.

Accumulation date tags are now affixed to containers in storage areas of less than ninety days.

Part Two Item 1 - Request for information regarding 4000 gallons of tank storage identified in the October 1983 revised Part A.

Through a misunderstanding we were attempting to identify the total volume of storage that was estimated to exist at the Laboratory.

We have determined that no single tank or combination of tanks with a total volume of 4000 gallons used to storage waste exist at the Laboratory.

Part Two Item 2 - Request for a determination that radioactive lithium hydride stored at Area L meets the by-product material definition as contained in 10CFR30.4(d).

The radioactive lithium hydride meets the definition that you cited.

Part Two Item 3 - Request to determine if the waste sand at the HE burning area is hazardous.

The HE burning area has not been used since the area was recently maintained. After its next use the waste sand will be subjected to the EP toxicity test and the analytical results will be forwarded to you.

Part Two Item 4 - Statement that an 8250 gallon contained storage area shown on the October 1983 revised Part A did not meet interim status requirements. In addition, you requested a revised Part A.

Enclosure 4 is a revised Part A. The 8250 gallon area is a PCB storage area. The Laboratory currently does not store TSCA waste and RCRA waste in the same storage area. However, we intend to maintain this area as an emergency backup storage area for RCRA waste. We will notify you if RCRA wastes are stored in this area.

Part Two Item 5 - Statement that the improved batch treatment facility in TA-50-1 meets the requirements for interim status.

No response necessary

Part Two Item 6 - Questions concerning the description of TA-54 and the correct delineation of the area. The November 1980 Part A listed 100 surface acres and the October 1983 revised Part A listed 1600 acre-feet.

Both answers are correct. However, drawings are included with the revised Part A that shows the original 100 surface acres.

Part Two Item 7 - Request for a list of storage areas of less than ninety days along with a description of the waste.

The three areas are as follows:

Location	Description
TA-3-40	Plating tank waste
TA-46	Acid
TA-53	Cleaning solution solvents or acid

Part Two Item 8 - Discussion concerning the "unlimited surface impoundment" at Area L and possible elimination of this form of treatment under interim authority.

At this time we are not prepared to process this certification required to delist the facility, because at some time in the future we may choose to this form of treatment

Part Two Item 9 - Discussion concerning the storage of waste for more than ninety days at Area G.

RCRA wastes are not stored for more than ninety days at Area G.

The information contained in this letter that is relevant to the enclosed revised Part A (Enclosure 4) should be considered as an addendum to the Part A.

The enclosures to this letter were reviewed by classification personnel and are subject to the following notice, "NOT FOR PUBLIC DISSEMINATION. THE DOCUMENT CONTAINS INFORMATION THAT MAY BE SUBJECT TO SECTION 148 OF THE ATOMIC ENERGY ACT, AS AMENDED." The material may be treated as a bound document. Enclosed is some specific information regarding the handling of material marked under Section 148.

We have tried to be responsive to your requests and if necessary will be happy to provide additional details. If you have any questions regarding this response please contact Mr. William Crismon at the letterhead address or call (505) 667-5268.

I appreciate your cooperation in this matter.

Sincerely,

Original signed by
Harold E. Valencia

Harold E. Valencia
Area Manager

crs:07-24-84/0990A

Enclosures:
As Stated

cc:
William Taylor - EPA-Dallas, w/o encls.
Allen Davis, EPA-Dallas, w/Rev. Part A
C. E. Garcia, ES&H, ALC, w/encls.

Attachment 3

Notice of Intent to Change Container Storage Areas

PUBLI C NOTICE

NEW MEXICO ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE BUREAU
P.O. BOX 968
Santa Fe, New Mexico 87504

DATE: August 16, 1987

PUBLIC NOTICE NO. 14

NOTICE OF INTENT TO CHANGE CONTAINER STORAGE AREAS TA 40-2, TA 22-24 and TA 3-102 INTERIM STATUS AND TO CLOSE LONG-TERM (GREATER THAN 90-DAY) STORAGE AREAS FOR HAZARDOUS WASTE

The State of New Mexico is authorized to operate a hazardous waste management program, in lieu of the Federal program, for those portions of the Resource Conservation and Recovery Act in effect prior to the enactment of the Hazardous and Solid Waste Amendments of 1984 (HSWA). The HSWA imposes additional requirements on hazardous waste management facilities which will be administered and enforced by the EPA until the State of New Mexico receives additional authorization for these requirements. The New Mexico Environmental Improvement Division (NMEID) of the State Health and Environment Department will determine whether to approve Los Alamos National Laboratory's (LANL), EPA I.D. Number NM 0890010515, request to close under interim status three long term storage units.

Under authority of the New Mexico Hazardous Waste Act (§74-4-1 et. seq. NMSA 1978, as amended 1987) and the New Mexico Hazardous Waste Management Regulations (HWMR-3), the NMEID proposes to change status of LANL's TA-40-2, TA-22-24 and TA 3-102 storage units, located at Technical Areas TA-40, TA -22 and TA - 3, LANL, Los Alamos, NM, and to approve a closure plan for the short-term (less than 90-day) storage area at each site. LANL is involved in Research & Development work and has conducted long term storage of hazardous wastes associated with these programs after the units are closed they may be reopened for less than 90 days waste storage.

The address for the EID representative for either reviewing or obtaining a copy of the administrative record, or part thereof at 35 cents per page, or for commenting or public participation is:

Mr. C. Kelley Crossman, Environmental Supervisor
Hazardous Waste Section
New Mexico Environmental Improvement Division
P.O. Box 968
Santa Fe, New Mexico 87504-0968
(505) 827-2929

Any person, including the applicant, who wishes to comment on decision to change Interim Status & to Close long-term (greater than 90 days storage of hazardous waste for these areas) may do so by submitting comments, along with the commentor's name and address, to the address above. All written comments submitted on the decision to issue the permit must be received by ( ) to be considered in formulating a final decision.

Any person including the applicant, who wishes to request a public hearing concerning the proposed action(s), may do so by submitting a written request to the above mentioned address. Any request for a hearing shall state the nature of the issues proposed to be raised in the hearing. All requests must include the requestor's name and address. Requests for a hearing must be received by ( ) to be considered.

Attachment 4

NMEID Approval of Certification of Closure, TA-3-102 and TA-40-2, June 17, 1988

NEW MEXICO
HEALTH AND ENVIRONMENT
DEPARTMENT

Post Office Box 968
Santa Fe, New Mexico 87504-0968

ENVIRONMENTAL IMPROVEMENT DIVISION

Michael J. Burkhart
Director

GARREY CARRUTHERS
Governor

LARRY GORDON
Secretary

CARLA L. MUTH
Deputy Secretary

June 17, 1988

Mr. Harold Valencia
U. S. Department of Energy
Los Alamos Area Office
Los Alamos, New Mexico 87544

RE: Closure Certifications
NM 0890010515

Dear Mr. Valencia:

The EID has reviewed the certifications of closure for TA 3-102, submitted March 28, 1988, and TA 22-24 and TA 40-2 submitted with your undated letter which was received on May 19, 1988. This completes the partial closure process in accordance with the New Mexico Hazardous Waste Management Regulations-4, Section 206.C.2.

If you have any questions pelase call mat at 827-2923.

Sincerely,

C. Kelley Crossman
Permitting Supervisor

CKC/pv

cc: Tanga Winkle, EPA (6H-HS)

Attachment 5

March 19, 1986 LANL Part A Permit Application

1.0 INTRODUCTION AND PART A APPLICATION

1.1 INTRODUCTION

This application was prepared for submittal to the Environmental Protection Agency (EPA) and the New Mexico Environmental Improvement Division (NMEID) in order to meet the requirements of the Resource Conservation and Recovery Act (RCRA) for a Part B Permit Application. The EPA authorization for Los Alamos to operate under interim status is included as Appendix A. The EPA formally requested the Part B permit application in a February 22, 1984 letter to the Los Alamos Laboratory Director. Subsequently, the New Mexico Environmental Improvement Division transmitted a joint call-in of the permit application to the Laboratory dated April 23, 1984. These two letters are given in Appendices B and C, respectively. More recently, in a letter of August 7, 1984, the EPA requested a Part B Permit Application from Los Alamos addressing radioactive/chemical mixed waste (Appendix D). This permit application addresses chemical waste only. As necessary, a separate permit application will be submitted to address radioactive/chemical mixed waste.

The format of the Part B application follows an outline provided in "A Guide for Preparing RCRA Permit Applications for Existing Storage Facilities", U.S. EPA, 1982. An outline of the permit application with citations of the regulations covered by each section is shown in Table 1-1.

Los Alamos National Laboratory (Los Alamos) is a multidisciplinary laboratory (RCRA No. NM0890010515). The principal mission of the Laboratory is the design and development of weapons for the nation's nuclear arsenal; however, considerable research and development (R&D) is directed toward the development of the peaceful uses of nuclear energy including research on controlled thermonuclear reactions, fission reactors, nuclear safeguards, laser fusion, and medium energy physics. Extensive basic research programs in physics, chemistry, metallurgy, mathematics and computers, earth sciences, and electronics support these efforts. Biomedical and environmental research includes programs in molecular biology, radiobiology, cancer therapy, radiology, and industrial hygiene. Expansion into nonnuclear areas is represented by applied technology development of solar and geothermal energy and superconducting power transmission lines.

Los Alamos is managed by the University of California for the U.S. Department of Energy (DOE) with substantial work performed for the Department of Defense and the Nuclear Regulatory Commission. The University is responsible to DOE's Los Alamos Area Office (LAAO) which reports to the DOE Albuquerque Operations Office (ALO). Although not a primary function, some hazardous waste management and storage occurs at Los Alamos. Los Alamos falls under Standard Industrial Classification (SIC) Code Number 9711, national defense organizations.

Much of this application was prepared from existing documentation at the Laboratory. In addition, new information was developed for this permit application.

1.2 REVISED PART A APPLICATION

The complete RCRA Part A Application Revision is included in the following pages. The original Part A Application was submitted to the EPA in November 1980.

TABLE 1-1. FORMAT OUTLINE AND REGULATION REFERENCES

REPORT SECTION	RCRA REGULATION REFERENCE[1]	NMHWMR REFERENCE
1.0 INTRODUCTION AND REVISED PART A APPLICATION		
1.1 INTRODUCTION		
1.2 REVISED PART A APPLICATION	270.13	302.A.4.a
2. FACILITY DESCRIPTION		
2.1 GENERAL DESCRIPTION	270.14(b)(1)	302.A.4.b(1)
2.2 LOCATION INFORMATION	270.14(b)(11), 270.14(b)(19), 264.18(a),(b)	302.A.4.b(1), 206.B.8.a & b
2.3 TRAFFIC PATTERNS	270.14(b)(10)	302.A.4.b(1)
3.0 WASTE CHARACTERISTICS AND ANALYSIS PLAN		
3.1 CHEMICAL AND PHYSICAL ANALYSES	270.14(b)(2), 264.13, 264.73(b)(3)	302.A.4.b(1), 206.B.3, 203.C.2.c
3.2 WASTE ANALYSIS PLAN	270.14(b)(3), 264.13, 261 App. I	302.A.4.b(1), 206.B.3
3.3 WASTE SEGREGATION	264.13	206.B.3
4.0 WASTE MANAGEMENT PRACTICES AND FACILITIES		
4.1 TA-50 BATCH TREATMENT SYSTEM AND CONTAINER STORAGE AREA	270.15, 264.171-173, 264.175, 264.191-192	302.A.4.b(2)(a), 206.D.4.b-d 206.D.4.f, 206.D.5.b & c
4.2 TA-50 CHEMICAL WASTE INCINERATOR	270.19, 264.340-345	302.A.4.b(2)(e), 206.D.8.a-f
4.3 TA-54, AREA L WASTE TRANSFER, PACKAGING, AND STORAGE FACILITIES	270.15, 264.171-173, 264.175	302.A.4.b(2)(a), 206.D.4.b-d, 206.D.4.f
4.4 TA-54, AREA L TREATMENT TANKS	270.16, 264.190-192	302.A.4.b(2)(b), 206.D.5.a-c
4.5 TA-54, AREA L LAND DISPOSAL SHAFTS	270.21, 264.301, 264.309, 264.315-316	302.A.4.b(2)(g), 206.D.10.b, 206.D.10.e, 206.D.10.j & k
5.0 GROUNDWATER MONITORING	264.90(b)(4)	206.D.1.a(2)
6.0 PROCEDURES TO PREVENT HAZARDS		
6.1 SECURITY	270.14(b)(9), 264.14	302.A.4.b(1), 206.B.4
6.2 WARNING SIGNS	264.14(c)	206.B.4.b(3)
6.3 INSPECTION SCHEDULES AND REQUIREMENTS	270.14(b)(5), 264.15, 264.33, 264.174, 264.194, 264.303, 264.347	302.A.4.b(1), 206.B.5, 206.B.9.d, 206.D.4.e, 206.D.5.d, 206.D.10.d, 206.D.8.g
6.4 PREPAREDNESS AND PREVENTION REQUIREMENTS	264.34-35	206.B.9.e-g
6.5 PREVENTIVE PROCEDURES, STRUCTURES AND EQUIPMENT	270.14(b)(8)	302.A.4.b(1)
6.6 PREVENTION OF ACCIDENTAL IGNITION OR REACTION OF IGNITABLE, REACTIVE, OR INCOMPATIBLE WASTE	270.14(b)(9), 270.15(d), 264.17, 264.176, 264.198, 264.312	302.A.4.b(1), 302.A.4.b(2)(a), 206.B.7, 206.D.4.g, 206.D.5.f, 206.D.10.g
7.0 HAZARDOUS WASTE FACILITIES CONTINGENCY PLAN		
7.1 INTRODUCTION		
7.2 HAZARDOUS WASTE EMERGENCY RESPONSE RESOURCES	264.37, 264.52(c), 264.52(e)	206.B.9.h, 206.B.10.h, 206.B.10.f
7.3 NONSUDDEN RELEASES		
7.4 SUDDEN RELEASES	264.51, 264.52(a)	206.B.10.b-d
7.5 SPECIFIC EMERGENCY RESPONSE PROCEDURES FOR HAZARDOUS WASTE FACILITIES	270.14(b)(7), 264.56	302.A.4.b(1), 206.B.10.m
7.6 EVACUATION	264.52(f)	206.B.10.i
7.7 SALVAGE AND CLEANUP	270.14(b)(7), 264.56	302.A.4.b(1), 206.B.10.m
7.8 POST-EMERGENCY ASSESSMENT		
7.9 EMERGENCY RECORDS		
7.10 EMERGENCY REPORTS	270.14(b)(7), 264.56	302.A.4.b(1), 206.B.10.m
7.11 CONTINGENCY PLAN AMENDMENT	264.54	206.B.10.k
8.0 PERSONNEL TRAINING		
8.1 OUTLINE OF TRAINING PROGRAM	264.16(d)(2)	206.B.6.d
8.2 TRAINING CONTENT, FREQUENCY, AND TECHNIQUES	270.14(b)(12), 264.16	302.A.4.b(1), 206.B.6
8.3 EMERGENCY RESPONSE TRAINING	264.16(a)(3)	206.B.6.a
8.4 IMPLEMENTATION OF TRAINING PROGRAM	264.16(b), (c), & (e)	206.B.6.b, c & e
9.0 CLOSURE AND POST-CLOSURE PLAN	270.14(b)(13), 264.112	302.A.4.b(1), 206.D.2.c
9.1 GENERAL CLOSURE/POST-CLOSURE INFORMATION		
9.2 CLOSURE PLAN FOR THERMAL TREATMENT FACILITIES		
9.3 CLOSURE PLAN FOR TA-50 STORAGE, BATCH TREATMENT, AND INCINERATION FACILITIES		
9.4 CLOSURE, PARTIAL CLOSURE AND POST-CLOSURE FOR TA-54, AREA L FACILITIES	270.14(b)(13), 270.21(e), 264.112, 264.310(a) & (b), 264.197, 264.117 & 118	302.A.4.b(1), 206.D.2.c & g, 206.D.2.h, 302.A.4.b(2)(g), 206.D.10.f(1)
9.5 SAMPLING AND ANALYTICAL PROCEDURES		
10.0 OTHER FEDERAL LAWS	270.3, 270.14(b)(20)	302.A.4.b(1)
11.0 CERTIFICATION	270.11	302.B

[1] From Code of Federal Regulations 40.

(fill-in areas are spaced for elite type, i.e., 12 characters/inch)

Form Approved OMB No. 158-R0175

U.S. ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permits Program

(Read the "General Instructions" before starting.)

GENERAL

I. EPA I.D. NUMBER: F N M 0 8 9 0 0 1 0 5 1 5

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent *(the area to the left of the label space lists the information that should appear)*, please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete Items I, III, V, and VI *(except VI-B which must be completed regardless)*. Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

LABEL ITEMS

I. EPA I.D. NUMBER

III. FACILITY NAME

V. FACILITY MAILING ADDRESS

VI. FACILITY LOCATION

Department of Energy
Attn: Mr. Harold Valencia
Los Alamos Area Office
Los Alamos, N.M. 87544

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.

SPECIFIC QUESTIONS	MARK 'X' YES	NO	FORM ATTACHED	SPECIFIC QUESTIONS	MARK 'X' YES	NO	FORM ATTACHED
A. Is this facility a **publicly owned treatment works** which results in a **discharge** to waters of the U.S.? (FORM 2A)	X		NO	B. Does or will this facility *(either existing or proposed)* include a **concentrated animal feeding operation** or **aquatic animal production facility** which results in a **discharge** to waters of the U.S.? (FORM 2B)		X	
C. Is this a facility which currently results in **discharges** to waters of the U.S. other than those described in A or B above? (FORM 2C)	X		NO	D. Is this a proposed facility *(other than those described in A or B above)* which will result in a **discharge** to waters of the U.S.? (FORM 2D)		X	
E. Does or will this facility treat, store, or dispose of **hazardous wastes**? (FORM 3)	X		YES	F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4) Geothermal	X		
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X		J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	

III. NAME OF FACILITY

1 SKIP: LOS ALAMOS NATIONAL SCIENTIFIC LABORATORY

IV. FACILITY CONTACT

A. NAME & TITLE *(last, first, & title)*	B. PHONE *(area code & no.)*
2 HAROLD VALENCIA	505 667 5105 FTS 843-5105

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX

3 LOS ALAMOS AREA OFFICE

B. CITY OR TOWN	C. STATE	D. ZIP CODE
4 LOS ALAMOS	NM	87544

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER

5 LOS ALAMOS

B. COUNTY NAME

LOS ALAMOS

C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE *(if known)*
6 LOS ALAMOS	NM	87544	

CONTINUED FROM THE FRONT

7 (specify) NATIONAL SECURITY	7 (specify)
C. THIRD	D. FOURTH
7 (specify)	7 (specify)

VIII. OPERATOR INFORMATION

A. NAME

LOS ALAMOS NATIONAL LABORATORY

B. Is the name listed in Item VIII-A also the owner? ☐ YES ☐ NO

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)

F = FEDERAL; M = PUBLIC (other than federal or state); S = STATE; O = OTHER (specify); P = PRIVATE

(specify)

D. PHONE (area code & no.)

A 505 667 4301

E. STREET OR P.O. BOX

PO BOX 1663 MS 518

F. CITY OR TOWN

LOS ALAMOS

G. STATE NM

H. ZIP CODE 87545

IX. INDIAN LAND

Is the facility located on Indian lands? ☐ YES ☐ NO

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water) 9 N NM0028355	B. PSD (Air Emissions from Proposed Sources) 9 P
C. UIC (Underground Injection of Fluids) 9 U	E. OTHER (specify) 9 N NM0028576 (specify) NPDES
D. RCRA (Hazardous Waste) 9 R	F. OTHER (specify) 9 (specify)

XI. MAP

Attach to this application a topographic 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 and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)

The mission of Los Alamos National Laboratory (LANL) is the application of science and technology to solve national problems including weapons development and energy supply and conservation programs, while basic science research complements and strengthens its fundamental technical capabilities. The LANL is owned by the US Department of Energy and operated under contract by the University of California.

XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED
Harold Valencia Los Alamos Area Manager		

COMMENTS FOR OFFICIAL USE ONLY

Shaded areas are spaced for elite type, i.e., 12 characters/inch.

FORM 3 RCRA

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

HAZARDOUS WASTE PERMIT APPLICATION

Consolidated Permits Program

(This information is required under Section 3005 of RCRA.)

I. EPA I.D. NUMBER

S													T/A	C
F	N	M	0	8	9	C	0	1	0	5	1	5		1

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED (yr., mo., & day)	COMMENTS
23	24 - 29	

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below *(mark one box only)* to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in Item I above.

A. FIRST APPLICATION *(place an "X" below and provide the appropriate date)*

[X] 71 **1. EXISTING FACILITY** *(See instructions for definition of "existing" facility. Complete item below.)*

C 8 13 — FOR EXISTING FACILITIES, PROVIDE THE DATE *(yr., mo., & day)* OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED *(use the boxes to the left)*

YR.	MO.	DAY
5 7	— —	— —
73 74	75 76	77 78

[ ] 71 **2. NEW FACILITY** *(Complete item below.)*

FOR NEW FACILITIES, PROVIDE THE DATE *(yr., mo., & day)* OPERATION BEGAN OR IS EXPECTED TO BEGIN

YR.	MO.	DAY
73 74	75 76	77 78

B. REVISED APPLICATION *(place an "X" below and complete Item I above)*

[X] 72 **1. FACILITY HAS INTERIM STATUS**

[ ] 72 **2. FACILITY HAS A RCRA PERMIT**

III. PROCESSES – CODES AND DESIGN CAPACITIES

A. PROCESS CODE – Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code*(s)* in the space provided. If a process will be used that is not included in the list of codes below, then describe the process *(including its design capacity)* in the space provided on the form *(Item III-C)*.

B. PROCESS DESIGN CAPACITY – For each code entered in column A enter the capacity of the process.

1. AMOUNT – Enter the amount.
2. UNIT OF MEASURE – For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:		
CONTAINER *(barrel, drum, etc.)*	S01	GALLONS OR LITERS
TANK	S02	GALLONS OR LITERS
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS
Disposal:		
INJECTION WELL	D79	GALLONS OR LITERS
LANDFILL	D80	ACRE-FEET *(the volume that would cover one acre to a depth of one foot)* OR HECTARE-METER
LAND APPLICATION	D81	ACRES OR HECTARES
OCEAN DISPOSAL	D82	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	D83	GALLONS OR LITERS

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR
OTHER *(Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Item III-C.)*	T04	GALLONS PER DAY OR LITERS PER DAY

UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G	LITERS PER DAY	V	ACRE-FEET	A
LITERS	L	TONS PER HOUR	D	HECTARE-METER	F
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRES	B
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	Q
GALLONS PER DAY	U	LITERS PER HOUR	H		

EXAMPLE FOR COMPLETING ITEM III *(shown in line numbers X-1 and X-2 below)*: A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

S		T/A	C
C	DUP		1

1 2 - 13 14 15

LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify)	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY	LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY
	16 - 18	19 - 27	28	29 - 32		16 - 18	19 - 27	28	29 - 32
X-1	S 0 2	600	G		5				
X-2	T 0 3	20	E		6				
1	S 0 1	17880	G		7				
2	T 0 1	7680	U		8				
3	T 0 4	NA (SEC IIIC)			9				
4	T 0 3	0.15	D		10				
	16 - 18	19 - 27	28	29 - 32		16 - 18	19 - 27	28	29 - 32

CONTINUE ON REVERSE

III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

Discrete pieces of High Explosives (HE) waste are collected, packaged, and burned at the TA-16 burning ground. HE contaminated equipment, pipe, etc. that have been flash burned at TA-16 have been disposed of at Area P. Two burn pads (388, 399) are used to burn the discrete pieces of HE while pad 387 is used to flash the equipment. Two pressure vessels (401, 406) are used to burn HE sludge from various processing facilities located at the Laboratory. The sludge is collected at various sumps located throughout the HE processing areas and taken directly to the pressure vessels for treatment. The sumps are regulated under NPDES permits. The sludge is placed on layers of sand in the vessels, the water allowed to drain from the bottom into an evaporation pond and the residue on the sand burned. These vessels do not contain an accumulation of liquids; therefore, they are not considered tanks. Sand from burn pads 388 and 399 have been found to be EP toxic for Barium. This sand has in the past been disposed of at Area P. Engineering drawings and location of the sites are included under item V. Design capacities are not applicable as the treatment process is performed on an as-needed basis.

T03

The incinerator at TA-50 Building 37 has been used to burn methanol and ethanol contaminated with transuranic waste. This incinerator was originally built to treat transuranic waste and has been operating since 1979. Mixed waste containing the methanol and ethanol were burned in this incinerator before November 1980.

IV. DESCRIPTION OF HAZARDOUS WASTES

A. EPA HAZARDOUS WASTE NUMBER — Enter the four-digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four-digit number*(s)* from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

B. ESTIMATED ANNUAL QUANTITY — For each **listed waste** entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each **characteristic** or **toxic contaminant** entered in column A estimate the total annual quantity of all the non-listed waste*(s)* that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE — For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:
   For listed hazardous waste: For each **listed** hazardous waste entered in column A select the code*(s)* from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.
   For non-listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code*(s)* from the list of process codes contained in Item III to indicate **all** the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.
   Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code*(s)*.

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER — Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B,C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV *(shown in line numbers X-1, X-2, X-3, and X-4 below)* — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. EPA HAZARD. WASTE NO (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	K054	900	P	T03 D80	
X-2	D002	400	P	T03 D80	
X-3	D001	100	P	T03 D80	
X-4	D002				included with above

CONTINUE ON PAGE 3

Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

Form Approved OMB No. 158-S80001

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
WNM089001051 / 1	W DUP / 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

No.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)				D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	D001	50000	P	S01	T03			
2	D002	150000	P	S01		T01		
3	D003	5000	P	S01	T04			
4	D003	5000	P	S01	T03	T01		Lithium Hydride only
5	D004	2000	P	S01				
6	D005	20000	P	S01				Sand from clean out of explosives burn pads.
7	D005	250*	P	S01				
8	D006	250*	P	S01	T01			
9	D007	1000	P	S01	T01			
10	D008	2000	P	S01				
11	D009	1500	P	S01		T01		
12	D010	250*	P	S01				
13	D011	250*	P	S01	T01			
14	D012	250*	P	S01	T03			
15	D016	750*	P	S01	T03			
16		END OF D DESIGNATOR						
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
W N M 0 8 9 0 0 1 0 5 1 5 — T/A C: 1	W DUP — T/A C: 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	F001	1000	P	S01	
2	F002	3000	P	S01	
3	F003	2000	P	S01	
4	F004	250*	P	S01	
5	F005	250*	P	S01	
6	F006	250*	P	S01 T01	
7	F007	12500	P	S01 T01	
8	F008	1000	P	S01 T01	
9	F009	6000	P	S01 T01	
10	F027	700	P	S01 T03	
11	F028	700	P	S01	
		END OF F DESIGNATOR			
13					
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26					

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CONTINUE ON REVERSE

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
W N M 0 8 9 0 0 1 0 5 1 5 — T/A C: 1	W DUP — T/A C: 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	K044	50000	P	S01 T04	
2	K047	250*	P	S01 T04	
3		END OF K DESIGNATOR			
4					
5					
6					
7					
8					
9					
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25					
26					

EPA Form 3510-3 (6-80)

CONTINUE ON REVERSE

(enter "A", "B", "C", etc. behind the "3" to identify photocopied pages)

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)		FOR OFFICIAL USE ONLY	
W N M 0 8 9 0 0 1 0 5 1 5	T/A C 1	W DUP	T/A C 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	P001	250*	P	S01	
2	P002	250*	P	S01	
3	P003	250*	P	S01	
4	P004	250*	P	S01	
5	P005	250*	P	S01	
6	P006	250*	P	S01 T04	
7	P007	250*	P	S01	
8	P008	250*	P	S01	
9	P009	250*	P	S01 T04	
10	P010	250*	P	S01	
11	P011	250*	P	S01	
12	P012	250*	P	S01	
13	P013	250*	P	S01 T01	
14	P014	250*	P	S01	
15	P015	6000	P	S01	
16	P016	250*	P	S01	
17	P017	250*	P	S01	
18	P018	250*	P	S01	
19	P020	250*	P	S01	
20	P021	250*	P	S01 T01	
21	P022	250*	P	S01 T04	
22	P023	250*	P	S01	
23	P024	250*	P	S01	
24	P026	250*	P	S01	
25	P027	250*	P	S01	
26	P028	250*	P	S01	

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CONTINUE ON REVERSE

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
W N M 0 8 9 0 0 1 5 1 5 — T/A C: 1	W DUP — T/A C: 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES *(continued)*

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	P029	250*	P	S01 T01	
2	P030	250*	P	S01 T01	
3	P031	250*	P	S01 T04	
4	P033	250*	P	S01 T04	
5	P034	250*	P	S01	
6	P036	250*	P	S01	
7	P037	250*	P	S01	
8	P038	250*	P	S01	
9	P039	250*	P	S01	
10	P040	250*	P	S01	
11	P041	250*	P	S01	
2	P042	250*	P	S01	
13	P043	250*	P	S01	
14	P044	250*	P	S01	
15	P045	250*	P	S01	
16	P046	250*	P	S01	
17	P047	250*	P	S01	
18	P048	250*	P	S01	
19	P049	250*	P	S01	
20	P050	250*	P	S01	
21	P051	250*	P	S01	
22	P054	250*	P	S01 T01 T04	
23	P056	250*	P	S01	
24	P057	250*	P	S01	
25	P058	250*	P	S01	
26	P059	250*	P	S01	

EPA Form 3510-3 (6-80)

CONTINUE ON REVERSE

(enter "A", "B", "C", etc. behind the "3" to identify photocopied pages)

Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)		FOR OFFICIAL USE ONLY	
W N M 0 8 9 0 0 1 0 5 1 5	T/A C 1	W DUP	T/A C 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)				D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	P 0 6 0	250*	P	S 0 1				
2	P 0 6 2	250*	P	S 0 1				
3	P 0 6 3	250*	P	S 0 1	T 0 4			
4	P 0 6 4	250*	P	S 0 1	T 0 4			
5	P 0 6 5	250*	P	S 0 1	T 0 4			
6	P 0 6 6	250*	P	S 0 1				
7	P 0 6 7	250*	P	S 0 1				
8	P 0 6 8	250*	P	S 0 1				
9	P 0 6 9	250*	P	S 0 1		T 0 4		
10	P 0 7 0	250*	P	S 0 1				
11	P 0 7 1	250*	P	S 0 1		T 0 4		
12	P 0 7 2	250*	P	S 0 1				
13	P 0 7 3	250*	P	S 0 1	T 0 1	T 0 4		
14	P 0 7 4	250*	P	S 0 1		T 0 1		
15	P 0 7 5	250*	P	S 0 1				
16	P 0 7 6	250*	P	S 0 1	T 0 1	T 0 4		
17	P 0 7 7	250*	P	S 0 1		T 0 4		
18	P 0 7 8	250*	P	S 0 1	T 0 1			
19	P 0 8 1	250*	P	S 0 1	T 0 4			
20	P 0 8 2	250*	P	S 0 1				
21	P 0 8 4	250*	P	S 0 1				
22	P 0 8 5	250*	P	S 0 1				
23	P 0 8 7	250*	P	S 0 1				
24	P 0 8 8	250*	P	S 0 1				
25	P 0 8 9	250*	P	S 0 1				
26	P 0 9 2	250*	P	S 0 1				

EPA Form 3510-3 (6-80)

CONTINUE ON REVERSE

(enter "A", "B", "C", etc. behind the "3" to identify photocopied pages)

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1): W N M 0 8 9 0 0 1 0 5 1 5 — T/A C 1

FOR OFFICIAL USE ONLY: W DUP — T/A C 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	P093	250*	P	S01 T03	
2	P094	250*	P	S01 T03	
3	P095	250*	P	S01 T03	
4	P096	250*	P	S01 T04	
5	P097	250*	P	S01 T03	
6	P098	250*	P	S01 T01	
7	P099	250*	P	S01 T01	
8	P101	250*	P	S01 T03	
9	P102	250*	P	S01 T03	
10	P103	250*	P	S01 T03	
11	P104	250*	P	S01 T01	
12	P105	250*	P	S01	
13	P106	250*	P	S01 T01	
14	P107	250*	P	S01 T04	
15	P108	250*	P	S01 T03	
16	P109	250*	P	S01 T03	
17	P110	250*	P	S01 T03	
18	P111	250*	P	S01 T03	
19	P112	250*	P	S01 T03 T04	
20	P113	250*	P	S01	
21	P114	250*	P	S01	
22	P115	250*	P	S01	
23	P116	250*	P	S01	
24	P118	250*	P	S01 T03	
25	P119	250*	P	S01	
26	P120	250*	P	S01	

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CONTINUE ON REVERSE

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
W N M 0 8 9 0 0 1 0 5 1 5 — T/A: 1	W DUP — T/A: 2 — DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	P121	250*	P	S01 T01	
2	P122	250*	P	S01 T04	
3	P123	250*	P	S01 T03	
4		END OF P DESIGNATOR			
5					
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EPA Form 3510-3 (6-80)

CONTINUE ON REVERSE

NOTE: Photocopy this page before completing if you have more than 20 wastes to list.

Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
W N M D 8 9 0 0 1 0 5 1 5 T/A C 1	W DUP T/A C 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	U001	250*	P	S01 T03	
2	U002	3500	P	S01 T03	
3	U003	250*	P	S01 T03	
4	U004	250*	P	S01 T03	
5	U005	250*	P	S01	
6	U006	250*	P	S01 T04	
7	U007	250*	P	S01 T03	
8	U008	250*	P	S01 T03 T04	
9	U009	250*	P	S01 T03	
10	U010	250*	P	S01 T03	
11	U011	250*	P	S01 T03	
12	U012	250*	P	S01 T03	
13	U014	250*	P	S01 T03	
14	U015	250*	P	S01 T03	
15	U016	250*	P	S01 T03	
16	U017	250*	P	S01 T03	
17	U018	250*	P	S01 T03	
18	U019	750	P	S01	
19	U020	250*	P	S01 T03 T04	
20	U021	250*	P	S01 T03	
21	U022	250*	P	S01 T03	
22	U023	250*	P	S01 T03 T04	
23	U024	250*	P	S01 T03	
24	U025	250*	P	S01 T03	
25	U026	250*	P	S01 T03	
26	U027	250*	P	S01 T03	

EPA Form 3510-3 (6-80)

CONTINUE ON REVERSE

(enter "A", "B", "C", etc. behind the "3" to identify photocopied pages)

Continued from page 2.
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Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
W N M 0 8 9 0 0 1 0 5 1 5 T/A C 1	W DUP T/A C 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	U028	250*	P	S01 T03	
2	U029	250*	P	S01 T03	
3	U030	250*	P	S01 T03	
4	U031	250*	P	S01 T03	
5	U032	250*	P	S01 T01	
6	U033	250*	P	S01 T04	
7	U034	250*	P	S01 T03	
8	U035	250*	P	S01 T03	
9	U036	250*	P	S01 T03	
10	U037	250*	P	S01 T03	
11	U038	250*	P	S01 T03	
2	U039	250*	P	S01 T03	
13	U041	250*	P	S01 T03	
14	U042	250*	P	S01 T03 T04	
15	U043	250*	P	S01 T04	
16	U044	1000	P	S01 T03	
17	U045	250*	P	S01 T04	
18	U046	250*	P	S01 T03	
19	U047	250*	P	S01 T03	
20	U048	250*	P	S01 T03	
21	U049	250*	P	S01 T03	
22	U050	250*	P	S01 T03	
23	U051	250*	P	S01 T03	
24	U052	250*	P	S01 T03	
25	U053	250*	P	S01 T03	
26	U055	250*	P	S01 T03	

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CONTINUE ON REVERSE

Continued from page 2.
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Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
W N M 0 8 9 0 0 1 0 5 1 5 T/A C 1	W DUP T/A C 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)			2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	U056	250*	P	S01	T03		
2	U057	250*	P	S01	T03		
3	U058	250*	P	S01	T03		
4	U059	250*	P	S01	T03		
5	U060	250*	P	S01	T03		
6	U061	250*	P	S01	T03		
7	U062	250*	P	S01	T03		
8	U063	250*	P	S01	T03		
9	U064	250*	P	S01	T03		
10	U066	250*	P	S01	T03		
11	U067	250*	P	S01	T03		
12	U068	250*	P	S01	T03		
13	U069	250*	P	S01	T03		
14	U070	250*	P	S01	T03		
15	U071	250*	P	S01	T03		
16	U072	250*	P	S01	T03		
17	U073	250*	P	S01	T03		
18	U074	250*	P	S01	T03		
19	U075	250*	P	S01	T04		
20	U076	250*	P	S01	T03		
21	U077	250*	P	S01	T03		
22	U078	250*	P	S01	T03		
23	U079	250*	P	S01	T03		
24	U080	3000	P	S01	T03		
25	U081	250*	P	S01	T03		
26	U082	250*	P	S01	T03		

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CONTINUE ON REVERSE

(enter "A", "B", "C", etc. behind the "3" to identify photocopied pages)

Continued from page 2.

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Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
W N M 0 8 9 0 0 1 0 5 1 5 T/A C 1	W DUP T/A C 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)				2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	U 0 8 3	250*	P	S 0 1	T 0 3			
2	U 0 8 4	250*	P	S 0 1	T 0 3			
3	U 0 8 5	250*	P	S 0 1	T 0 3			
4	U 0 8 6	250*	P	S 0 1	T 0 3			
5	U 0 8 7	250*	P	S 0 1	T 0 3			
6	U 0 8 8	250*	P	S 0 1	T 0 3			
7	U 0 8 9	250*	P	S 0 1	T 0 3			
8	U 0 9 0	250*	P	S 0 1	T 0 3			
9	U 0 9 1	250*	P	S 0 1	T 0 3			
10	U 0 9 2	250*	P	S 0 1	T 0 4			
11	U 0 9 3	250*	P	S 0 1	T 0 3			
12	U 0 9 4	250*	P	S 0 1	T 0 3			
13	U 0 9 5	250*	P	S 0 1	T 0 3			
14	U 0 9 6	250*	P	S 0 1	T 0 3			
15	U 0 9 7	250*	P	S 0 1	T 0 3			
16	U 0 9 8	250*	P	S 0 1	T 0 3			
17	U 0 9 9	250*	P	S 0 1	T 0 3			
18	U 1 0 1	250*	P	S 0 1	T 0 3			
19	U 1 0 2	250*	P	S 0 1	T 0 3			
20	U 1 0 3	250*	P	S 0 1	T 0 3			
21	U 1 0 5	250*	P	S 0 1	T 0 3			
22	U 1 0 6	250*	P	S 0 1	T 0 3			
23	U 1 0 7	250*	P	S 0 1	T 0 3			
24	U 1 0 8	250*	P	S 0 1	T 0 3			
25	U 1 0 9	250*	P	S 0 1	T 0 3			
26	U 1 1 0	250*	P	S 0 1	T 0 3			

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CONTINUE ON REVERSE

(enter "A", "B", "C", etc. behind the "3" to identify photocopied pages)

Continued from page 2.

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Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
W N M 0 8 9 0 0 1 0 5 1 5 — T/A C: 1	W DUP — T/A C: 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	U 1 1 1	250*	P	S 0 1 T 0 3	
2	U 1 1 2	250*	P	S 0 1 T 0 3 T 0 4	
3	U 1 1 3	250*	P	S 0 1 T 0 3 T 0 4	
4	u 1 1 4	250*	P	S 0 1 T 0 3	
5	U 1 1 5	250*	P	S 0 1 T 0 3 T 0 4	
6	U 1 1 6	250*	P	S 0 1 T 0 3	
7	U 1 1 7	250*	P	S 0 1 T 0 3 T 0 4	
8	U 1 1 8	250*	P	S 0 1 T 0 3 T 0 4	
9	U 1 1 9	250*	P	S 0 1 T 0 3	
10	U 1 2 0	250*	P	S 0 1 T 0 3	
11	U 1 2 1	250*	P	S 0 1	
2	U 1 2 2	250*	P	S 0 1 T 0 3	
13	U 1 2 3	250*	P	S 0 1	
14	U 1 2 4	250*	P	S 0 1 T 0 3	
15	U 1 2 5	250*	P	S 0 1 T 0 3	
16	U 1 2 6	250*	P	S 0 1 T 0 3	
17	U 1 2 7	250*	P	S 0 1 T 0 3	
18	U 1 2 8	205*	P	S 0 1 T 0 3	
19	U 1 2 9	250*	P	S 0 1 T 0 3	
20	U 1 3 0	250*	P	S 0 1 T 0 3	
21	U 1 3 1	250*	P	S 0 1 T 0 3	
22	U 1 3 2	250*	P	S 0 1 T 0 3	
23	U 1 3 3	250*	P	S 0 1 T 0 3 T 0 4	
24	U 1 3 4	250*	P	S 0 1 T 0 1 T 0 4	
25	U 1 3 5	250*	P	S 0 1 T 0 4	
26	U 1 3 6	250*	P	S 0 1	

Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

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EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
W N M 0 8 9 0 0 1 0 5 1 5 T/A C 1	W DUP T/A C 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)				2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	U 1 3 7	250*	P	S 0 1	T 0 3			
2	U 1 3 8	250*	P	S 0 1	T 0 3			
3	U 1 3 9	250*	P	S 0 1	T 0 3			
4	U 1 4 0	250*	P	S 0 1	T 0 3			
5	U 1 4 1	250*	P	S 0 1	T 0 3			
6	U 1 4 2	250*	P	S 0 1	T 0 3			
7	U 1 4 3	250*	P	S 0 1	T 0 3			
8	U 1 4 4	250*	P	S 0 1				
9	U 1 4 5	250*	P	S 0 1				
10	U 1 4 6	250*	P	S 0 1				
11	U 1 4 7	250*	P	S 0 1	T 0 3			
12	U 1 4 8	250*	P	S 0 1	T 0 3			
13	U 1 4 9	250*	P	S 0 1	T 0 3			
14	U 1 5 0	250*	P	S 0 1	T 0 3			
15	U 1 5 1	250*	P	S 0 1	T 0 3			
16	U 1 5 2	250*	P	S 0 1				
17	U 1 5 3	250*	P	S 0 1	T 0 3			
18	U 1 5 4	250*	P	S 0 1	T 0 3			
19	U 1 5 5	250*	P	S 0 1	T 0 3			
20	U 1 5 6	250*	P	S 0 1	T 0 3			
21	U 1 5 7	1000	P	S 0 1	T 0 3			
22	U 1 5 8	250*	P	S 0 1	T 0 3			
23	U 1 5 9	1000	P	S 0 1	T 0 3			
24	U 1 6 0	250*	P	S 0 1	T 0 4	T 0 3		
25	U 1 6 1	250*	P	S 0 1	T 0 3			
26	U 1 6 2	250*	P	S 0 1	T 0 3			

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

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EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
W N M 0 8 9 0 0 1 0 5 1 5 T/A C 1	W DUP T/A C 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	U163	250*	P	S01 T03	
2	U164	250*	P	S01 T03	
3	U165	250*	P	S01 T03	
4	U166	250*	P	S01 T03	
5	U167	250*	P	S01 T03	
6	U168	250*	P	S01 T03	
7	U169	250*	P	S01 T03	
8	U170	250*	P	S01 T03	
9	U171	250*	P	S01 T03	
10	U172	250*	P	S01 T03	
11	U173	250*	P	S01 T03	
2	U174	250*	P	S01 T03	
13	U176	250*	P	S01 T03	
14	U177	250*	P	S01 T03	
15	U178	250*	P	S01 T03	
16	U179	250*	P	S01 T03	
17	U180	250*	P	S01 T03	
18	U181	250*	P	S01 T03	
19	U182	250*	P	S01 T03	
20	U183	250*	P	S01 T03	
21	U184	250*	P	S01 T03	
22	U185	250*	P	S01 T03	
23	U186	250*	P	S01 T03	
24	U187	250*	P	S01 T03	
25	U188	250*	P	S01 T03	
26	U189	250*	P	S01 T03 T04	

Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

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EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
W N M 0 8 9 0 0 1 0 5 1 5 T/A C 1	W DUP T/A C 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)				2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	U190	250*	P	S01	T03			
2	U191	250*	P	S01	T03			
3	U192	250*	P	S01	T03			
4	U193	250*	P	S01	T03			
5	U194	250*	P	S01	T03			
6	U196	250*	P	S01	T03			
7	U197	250*	P	S01	T03			
8	U200	250*	P	S01	T03			
9	U201	250*	P	S01	T03			
10	U202	250*	P	S01	T03			
11	U203	250*	P	S01	T03			
2	U204	250*	P	S01				
13	U205	250*	P	S01	T04			
14	U206	250*	P	S01	T03			
15	U207	250*	P	S01	T03			
16	U208	250*	P	S01	T03			
17	U209	250*	P	S01	T03			
18	U210	250*	P	S01	T03			
19	U211	250*	P	S01	T03			
20	U212	250*	P	S01	T03			
21	U213	250*	P	S01	T03	T04		
22	U214	250*	P	S01	T03			
23	U215	250*	P	S01				
24	U216	250*	P	S01				
25	U217	250*	P	S01	T04			
26	U218	250*	P	S01	T03			

EPA I.D. NUMBER (enter from page 1): W N M 0 8 9 0 0 1 0 5 1 5 — F/A C: 1

FOR OFFICIAL USE ONLY: W DUP — F/A C: 2 — DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	U 2 1 9	250*	P	S 0 1	
2	U 2 2 0	1000	P	S 0 1 T 0 3	
3	U 2 2 1	250*	P	S 0 1 T 0 3	
4	U 2 2 2	250*	P	S 0 1 T 0 3	
5	U 2 2 3	1000	P	S 0 1 T 0 3	
6	U 2 2 5	250*	P	S 0 1 T 0 3	
7	U 2 2 6	2000	P	S 0 1 T 0 3	
8	U 2 2 7	250*	P	S 0 1 T 0 3	
9	U 2 2 8	4000	P	S 0 1 T 0 3	
10	U 2 3 0	250*	P	S 0 1 T 0 3	
11	U 2 3 1	250*	P	S 0 1 T 0 3	
	U 2 3 2	250*	P	S 0 1 T 0 3	
13	U 2 3 3	250*	P	S 0 1 T 0 3	
14	U 2 3 4	250*	P	S 0 1 T 0 4	
15	U 2 3 5	250*	P	S 0 1 T 0 3	
16	U 2 3 6	250*	P	S 0 1 T 0 3	
17	U 2 3 7	250*	P	S 0 1 T 0 3	
18	U 2 3 8	250*	P	S 0 1 T 0 3	
19	U 2 3 9	1000	P	S 0 1 T 0 3	
20	U 2 4 0	250*	P	0 1 T 0 3	
21	U 2 4 2	250*	P	S 0 1 T 0 3	
22	U 2 4 3	250*	P	S 0 1 T 0 3	
23	U 2 4 4	250*	P	S 0 1 T 0 3	
24	U 2 4 6	250*	P	S 0 1	
5	U 2 4 7	250*	P	S 0 1 T 0 3	
26		END OF U DESIGNATOR			

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CONTINUE ON REVER

(enter "A", "B", "C", etc. behind the "3" to identify photocopied pages)

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 2 wastes to list.

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EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
W N M 0 8 9 0 0 1 0 5 1 5 — T/A C: 1	W DUP — T/A C: 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	U 2 1 9	250*	P	S 0 1	
2	U 2 2 0	1000	P	S 0 1 T 0 3	
3	U 2 2 1	250*	P	S 0 1 T 0 3	
4	U 2 2 2	250*	P	S 0 1 T 0 3	
5	U 2 2 3	1000	P	S 0 1 T 0 3	
6	U 2 2 5	250*	P	S 0 1 T 0 3	
7	U 2 2 6	1500	P	S 0 1 T 0 3	
8	U 2 2 7	250*	P	S 0 1 T 0 3	
9	U 2 2 8	2000	P	S 0 1 T 0 3	
10	U 2 3 0	250*	P	S 0 1 T 0 3	
11	U 2 3 1	250*	P	S 0 1 T 0 3	
12	U 2 3 2	250*	P	S 0 1 T 0 3	
13	U 2 3 3	250*	P	S 0 1 T 0 3	
14	U 2 3 4	250*	P	S 0 1 T 0 4	
15	U 2 3 5	250*	P	S 0 1 T 0 3	
16	U 2 3 6	250*	P	S 0 1 T 0 3	
17	U 2 3 7	250*	P	S 0 1 T 0 3	
18	U 2 3 8	250*	P	S 0 1 T 0 3	
19	U 2 3 9	1000	P	S 0 1 T 0 3	
20	U 2 4 0	250*	P	0 1 T 0 3	
21	U 2 4 2	250*	P	S 0 1 T 0 3	
22	U 2 4 3	250*	P	S 0 1 T 0 3	
23	U 2 4 4	250*	P	S 0 1 T 0 3	
24	U 2 4 6	250*	P	S 0 1	
25	U 2 4 7	250*	P	S 0 1 T 0 3	
26		END OF U DESIGNATOR			

EPA Form 3510-3 (6-80)

CONTINUE ON REVERSE

(enter "A", "B", "C", etc. behind the "3" to identify photocopied pages)

...ued from the front.

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

A. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 3.

All entries with an asterick in column IV3 on page 3A are generated in labpack quantities only. If a new process/experiment will generate more than the stated quantity, a revised Part A will be submitted.

EPA I.D. NO. (enter from page 1)

F N M 0 8 9 0 0 1 0 5 1 5 6

V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility (see instructions for more detail).

VI. 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).

FACILITY GEOGRAPHIC LOCATION

LATITUDE (degrees, minutes, & seconds)	LONGITUDE (degrees, minutes, & seconds)
3 5 4 9 0 5 1	1 0 6 1 4 0 1 5

VIII. FACILITY OWNER

☐ A. If the facility owner is also the facility operator as listed in Section VIII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VIII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER	2. PHONE NO. (area code & no.)
E United States Department of Energy	5 0 5 - 6 6 7 - 5 1 0 5

3. STREET OR P.O. BOX	4. CITY OR TOWN	5. ST.	6. ZIP CODE
F Los Alamos Area Office	G Los Alamos	N M	8 7 5 4 5

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME (print or type)	B. SIGNATURE	C. DATE SIGNED
Harold Valencia Los Alamos Area Office	H D Valencia	3-19-86

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME (print or type)	B. SIGNATURE	C. DATE SIGNED
Siegfried S. Hecker Director	Siegfried S. Hecker	3/19/86

CONTINUE ON PAGE 5

Form Approved OMB No. 158-S80004

V. FACILITY DRAWING (see page 4)

The following drawings are attached to the revised Part A dated 10/31/84.

ENG-R 5277 Sheets 2 & 5 - "S" Site showing location of burn pits area - also relationship of "S" Site to rest of Lab. TA-40 & TA-14 locations where HE waste may be destroyed.

TA-16 - Structure Location Plan - Structural designation of pressure vessels (401, 406) and burn pads (387, 388, 399).

ENG-C-27630 - Pressure Vessel (406)

ENG-C-25937 - Pressure Vessel (401)

ENG-C-5849 - Burn Pads (387, 388, 389).

LA-RV-1-13.1 and LA-RV-P-9 - Batch Waste Treatment System at TA-50-1.

Area L Chemical Storage Facility, TA-54.

Area L Chemical Storage Facility, shed.

ENG-R-5277 Shed 10 - TA-15 and TA-36 - firing points where HE waste may be destroyed.

ENG-R-5277 Sheet 11 - TA-39 firing points where HE waste may be destroyed.

ENG-R-5277 Sheet 5 - TA-14 and TA-40 firing points where HE waste may be destroyed.

1. The following drawings are attached to the revised Part A dated 7/26/84:

   Figure 1 - Technical Area Location Plan

   Figure 4 - TA-50 Structure Location Plan showing location of the Batch Waste Treatment Facility in Building 1 and the controlled air incinerator in Building 37.

   Figure 5 - TA-54 Structure Location Plan showing Area L.

2. The following drawings are attached to the revised Part A dated April 1, 1985:

   TDF (Fig. 4-3 of Part B)

   TDF (Fig. 4-4 of Part B)

   TA-54 Area L Storage Area (2 drawings)

3. The following are new submittals:

   TA-54 Area L Storage Area Drawings, Revised July 25, 1985 (2 drawings)

   Photographs:

   TA-3, SM-40 = Temporary chemical waste storage

   TA-3, SM-102 - South Side, LiH room

   TA-9-39 (2 photographs) - Structure and bilingual sign for storage

   TA-14-23 - Building with bilingual sign

Form Approved OMB No. 158-S80004

V. FACILITY DRAWING (see page 4)

3. (cont'd.)

TA-14-23 and 35 - Building 23 with firing pad 35

TA-15, Phermex - Firing pad

TA-16, Area P - Area with bilingual sign

TA-16-387 - Burn pad

TA-16-406 - Storage area (temp)

TA-16-394 - Burn pad

TA-16-401 - Storage area (temp)

TA-16-389 - Building used as control point

TA-16-399 - Burn pad

TA-16-388 - Burn pad

TA-22, TD 96-3 - Temporary storage area with bilingual sign

TA-22, TD 96 - Structure used as storage area (temp)

TA-22, TD 24 - Structure used as storage area (temp)

TA-36-8, Kappa 8 - Firing pad

TA-39, AC-6 - Firing pad

TA-39, AC-57 - Firing pad

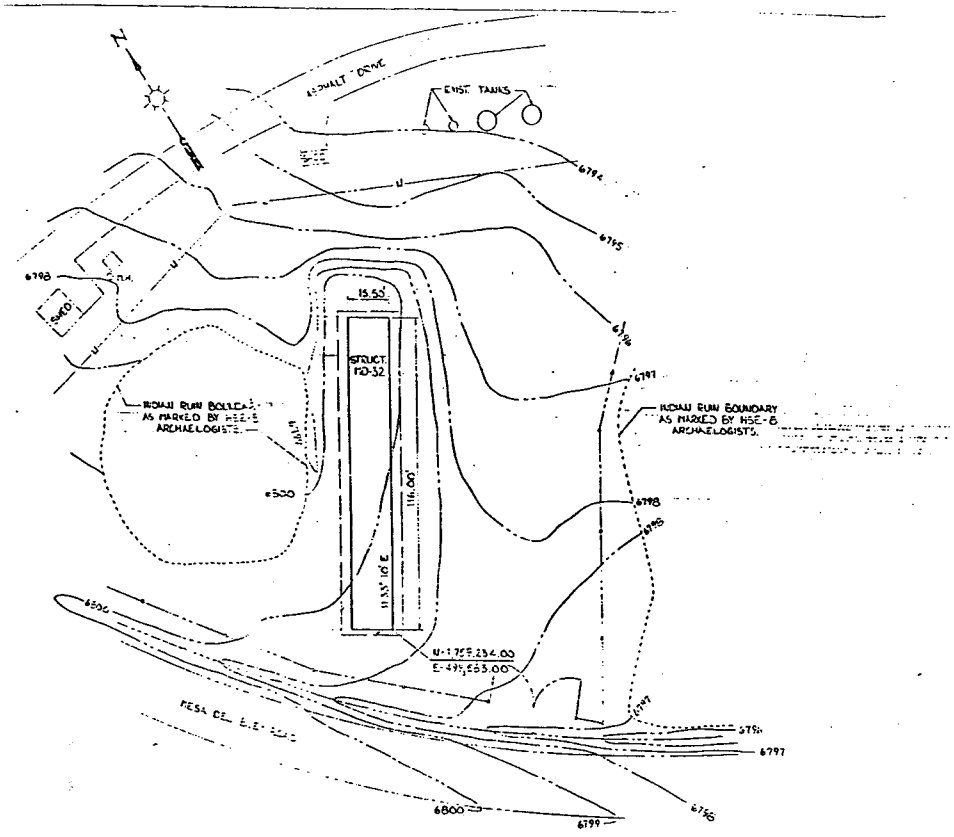
TA-40, DF-2 - Structure used as temporary storage area

TA-50-1 - West side of building with BWT

TA-50-1, Batch Waste Treatment - East doors to BWT (middle of photo, in background)

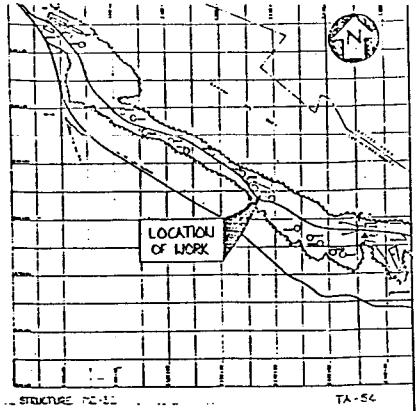
TA-50-37 - TDF facility (east side)

TA-54, Area L (5 photographs)



PLOT PLAN

SCALE: 1" = 20'-0"



LOCATION PLAN

GENERAL NOTES

1. DO NOT SCALE DRAWINGS FOR CONSTRUCTION DIMENSIONS.
2. FIELD VERIFY DIMENSIONS PRIOR TO CONSTRUCTION.
3. REPAIR ALL AREAS DAMAGED DURING CONSTRUCTION TO MATCH EXISTING ADJACENT AREAS.
4. KEEP WORK SITE IN AN ORDERLY CONDITION AND AT PROJECT COMPLETION REMOVE ALL WASTE. LEAVE WORK SITE IN A CONDITION ACCEPTABLE TO THE ENG-1 INSPECTOR. DISPOSE OF REMOVED MATERIALS AS DIRECTED BY ENG-1, UNLESS NOTED.
5. PREPARE SURFACE ZONE CELL SURFACES WITH 1 COAT PRIMER; ALUMINUM-PIGMENTED PLASTIC FOR TWO COAT SET COATING SYSTEM, ZA STOCK NO. 2K05 TO 0004; 2 FINISH COATS; COLOR SET MATCHING MATERIAL PLASTIC, LT. GRAY, ZA STOCK NO. 2K05 TO 0033.

   PAINT GALVANIZED BARBED FENCE METAL WITH 1 COAT PRIMER, WHITE 9-712; 2 FINISH COATS OF SEMI-GLOSS WATER BASE ALKYD GLOSS ENAMEL, GRAY, MIL 3-E-1.
6. COMPACT FILL MATERIAL IN 8" MAXIMUM LIFTS TO 95% DENSITY LABORATORY TEST MAX DENSITY PER ASTM D1557 METHOD D & FIELD DENSITY PER ASTM D2922 OF ALL FILL MATERIAL.

LEGEND

- NEW CONSTRUCTION
- FUTURE CONSTRUCTION
- ROW BOUNDARY
- EXISTING
- EXISTING WATER LINE

NOTE:
SURVEY-TOPOGRAPHIC INFORMATION WAS OBTAINED FROM SURVEY DRAWING NO. ENG. 54-42.

THIS JOB MUST BE INSPECTED AND ANY CHANGES APPROVED BY F.A.J. VERGEZ
PHONE

NO	DATE	REVISIONS	DRN	DES	CHK	REQ'D SUP	REQ'D PR	REQ'D PM	EN

AUTHORIZED BY D.O.E. PGM
HSE-8 TSE
ENG-1
ENG-4
ENG-5

FACILITIES ENGINEERING DIVISION

CHEMICAL STORAGE AREA L

CIVIL: PLOT PLAN

STRUCTURE FD-32 TA-54

DRAWN E. SANCHEZ
DESIGN
CHECKED E. SANCHEZ
RELEASED
DATE

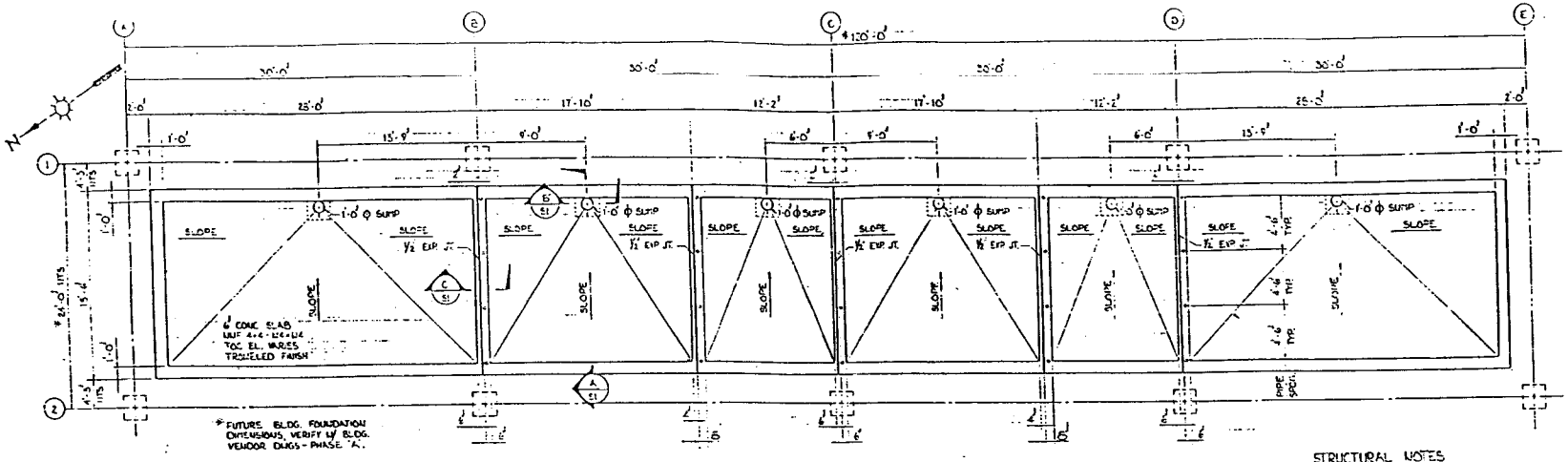
SUBMITTED RECOMMENDED APPROVED

LOS ALAMOS
Los Alamos National Laboratory
Los Alamos New Mexico 87545

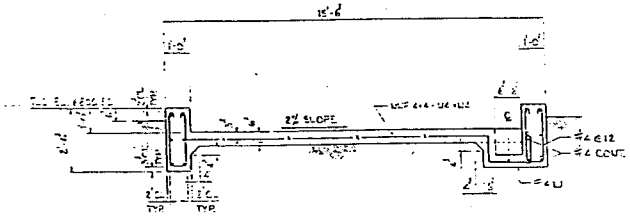
SHEET C1 1 OF 2

CLASSIFICATION REVIEWER DATE

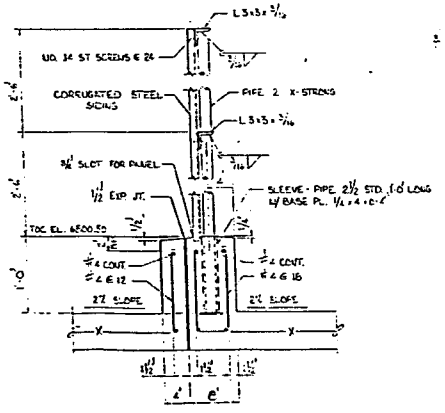
REQUESTING DIVISION-GROUP JOB NO. 5204-54
REQUESTING DIVISION-GROUP PHASE
DRAWING NO. ENG-C 44854
REV.



FOUNDATION PLAN
SCALE: ¼" = 1'-0"



SECTION A
SCALE: ½" = 1'-0"



SECTION C
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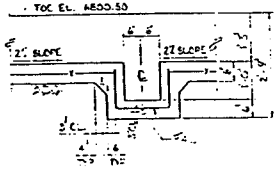


SECTION B
SCALE: ½" = 1'-0"

STRUCTURAL NOTES

1. STRUCTURE EXCAVATION - EXCAVATE FOR WALLS & SLABS IN ACCORDANCE WITH ELEVATIONS & DIMENSIONS SHOWN ON THIS DRAWING. EXCAVATION SHALL EXTEND A SUFFICIENT DISTANCE FROM WALLS TO ALLOW FOR PLACING & REMOVAL OF FORMS. OVEREXCAVATION BELOW ELEVATIONS SHOWN SHALL BE RESTORED TO PROPER ELEVATION BY BACKFILLING WITH CONCRETE. THE EXCAVATION SHALL BE INSPECTED BY ENG-1 INSPECTOR PRIOR TO PLACING REINFORCING STEEL.

2. CONCRETE CONSTRUCTION SHALL BE IN CONFORMANCE WITH FACILITIES ENGINEERING DIVISION STANDARD SPECIFICATIONS:
   SECTION 03100 - CONCRETE FORMWORK, B2 C-LEVEL
   SECTION 03200 - REINFORCING STEEL, GRADE 60
   SECTION 03300 - CAST-IN-PLACE CONCRETE, f'c = 4000 PSI

   FINISH WALLS & SLABS WITH A PREMIXED SINGLE APPLICATION SEALER & HARDENER FLOOR FINISH. THE FINISH SHALL BE DELIVERED TO THE JOB SITE IN LABELED CONTAINERS & APPLIED IN ACCORDANCE WITH THE MANUFACTURERS DIRECTIONS.

3. MISCELLANEOUS STEEL - MATERIAL, FABRICATION, ERECTION & PAINTING OF STEEL SHALL CONFORM TO SITE ENGINEERING STANDARD SPECIFICATION SECTION 05120 - STRUCTURAL STEEL.

   BARRIER PANELS SHALL BE 26 GAUGE 2½" x ½" CORRUGATED GALVANIZED STEEL CONFORMING TO ASTM A446 G-90. FASTEN WITH NO. 14 SELF-TAPPING SCREWS.

NO	DATE	REVISION	DWN	DES	CHK	STRUC MGR	MECH MGR	ENG MGR

FACILITIES ENGINEERING DIVISION

CHEMICAL STORAGE AREA L

STRUCT: FOUNDATION PLAN

STRUCTURE NO. 32

DRAWN R. SANCHEZ
DESIGN B. [illegible]
CHECKED C. SANCHEZ
RELEASED [illegible]
DATE 7-9-85

SUBMITTED [illegible]
RECOMMENDED [illegible]
APPROVED [illegible]

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

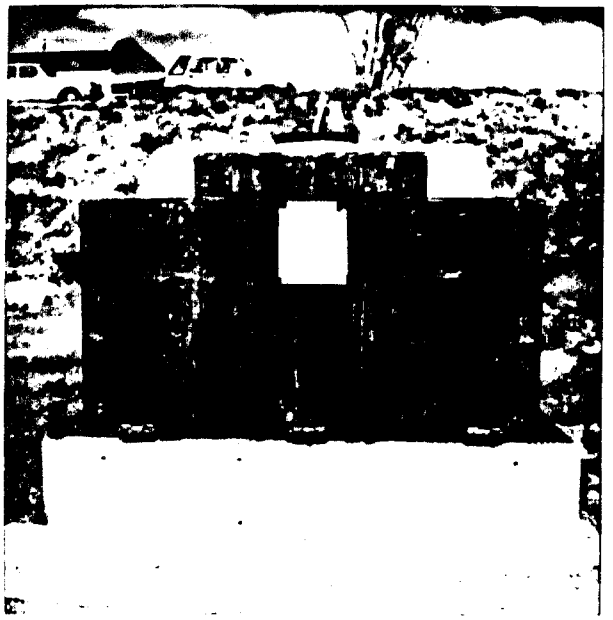
SHEET S1 2 OF 2

CLASSIFICATION U
DATE 7-22-85

REQUESTING DIVISION-GROUP JOB NO. 8204-54
REQUESTING GROUP P-LEC-1

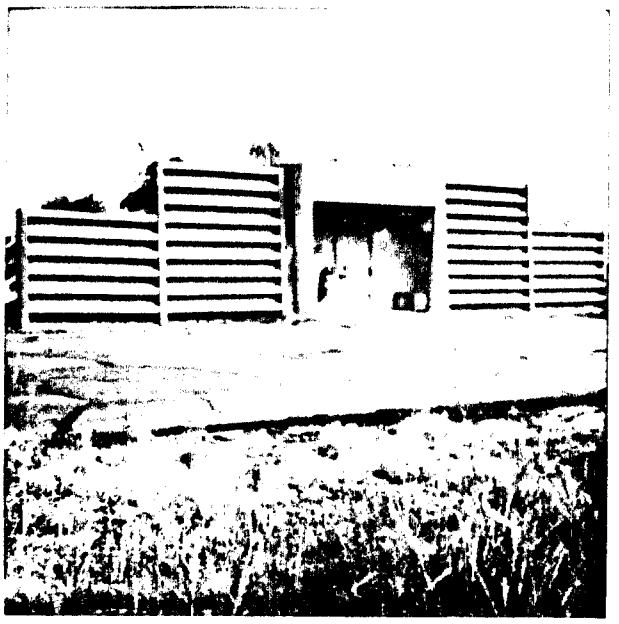
DRAWING NO. ENG-C 44556

REV



TA-3, SM-40

TA-3, SM-102



TA-9-39

TA-9-39

TA-14-23

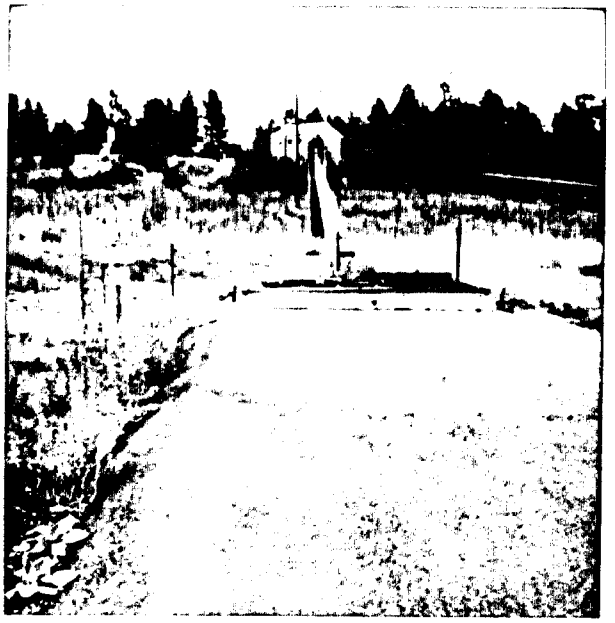
TA-14-23 and 35

TA-15, Phermex

TA-16, Area P

TA-16-387

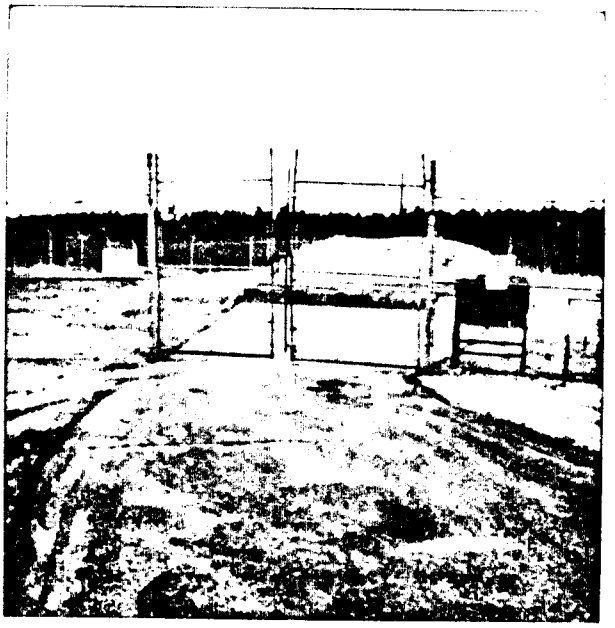
TA-16-406



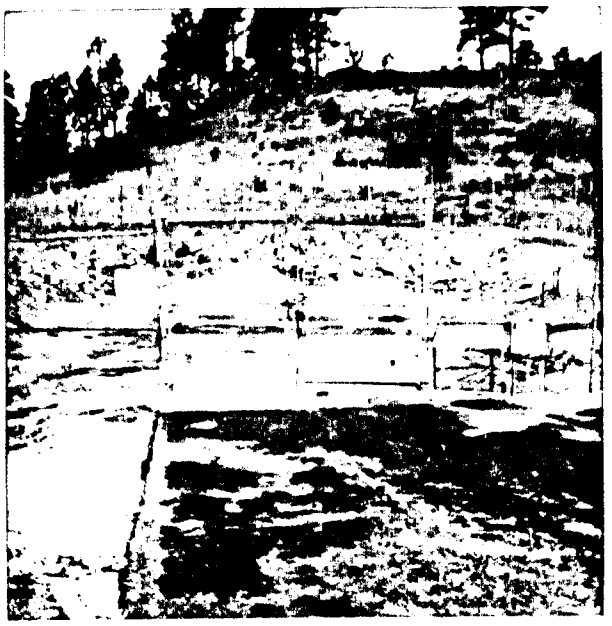
TA-16-394

TA-16-401

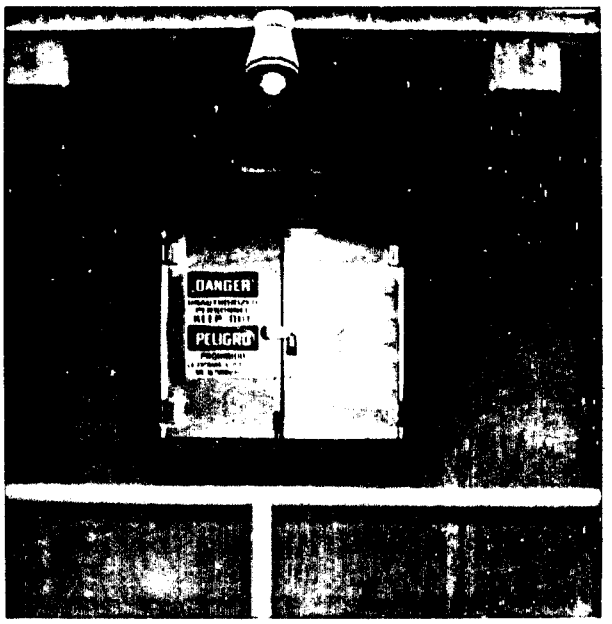
TA-16-389



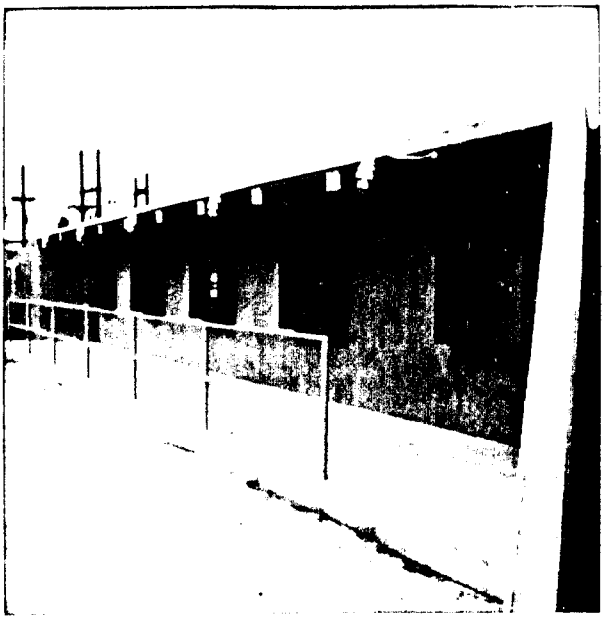
TA-16-399



TA-16-388



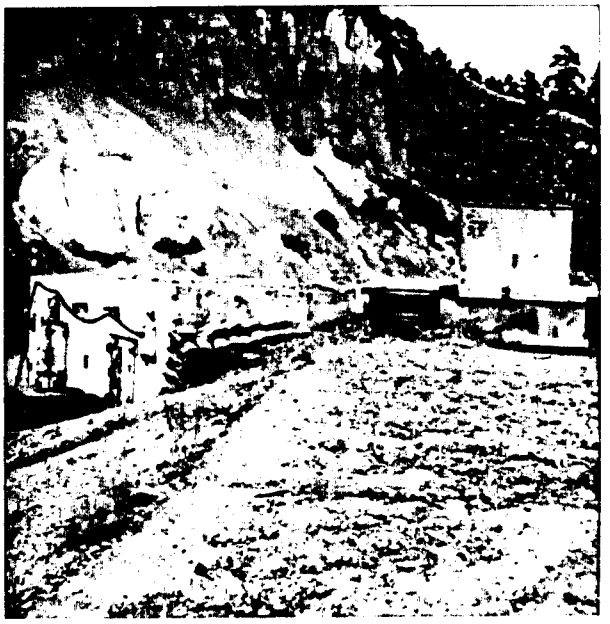
TA-22, TD 96-3



TA-22, TD 96

TA-22, TD 24

TA-36-8, Kappa 8



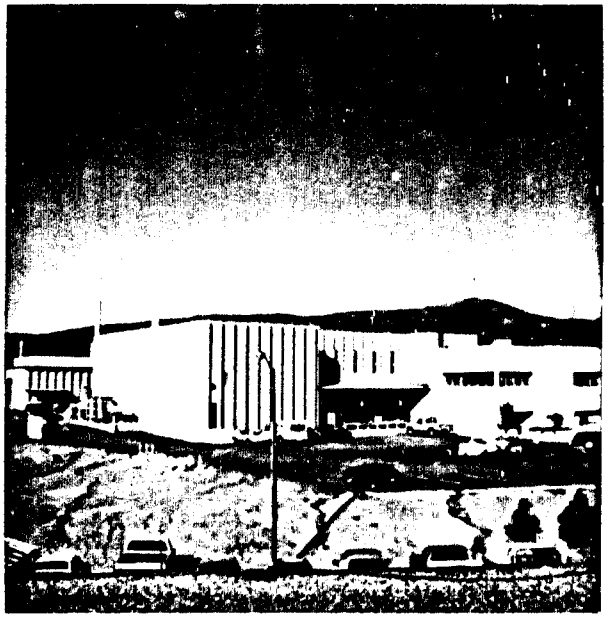
TA-39, AC-6

TA-39, AC-57

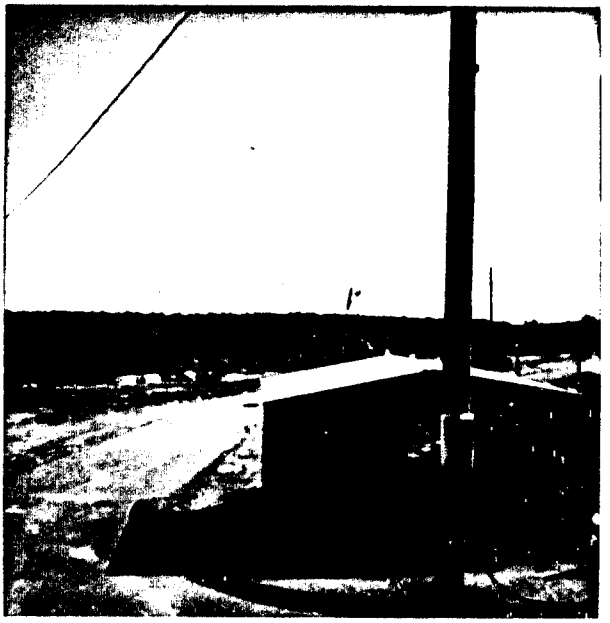
TA-40, DF-2

TA-50-1

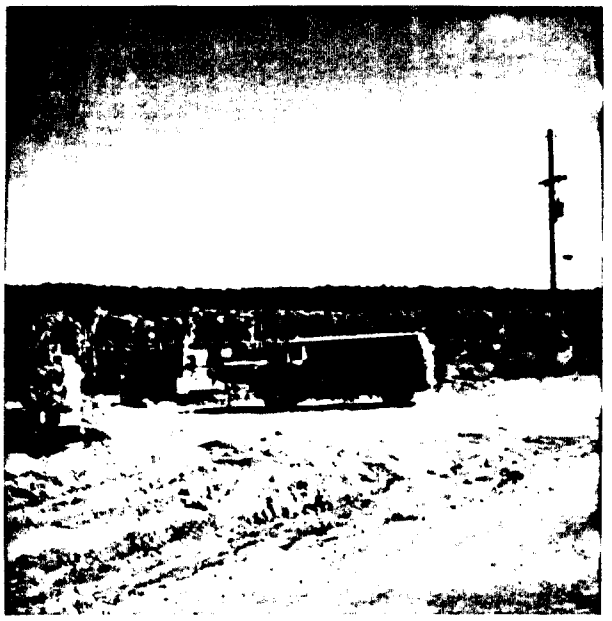
TA-50-1, Batch Waste Treatment



TA-50-37



TA-54, Area L



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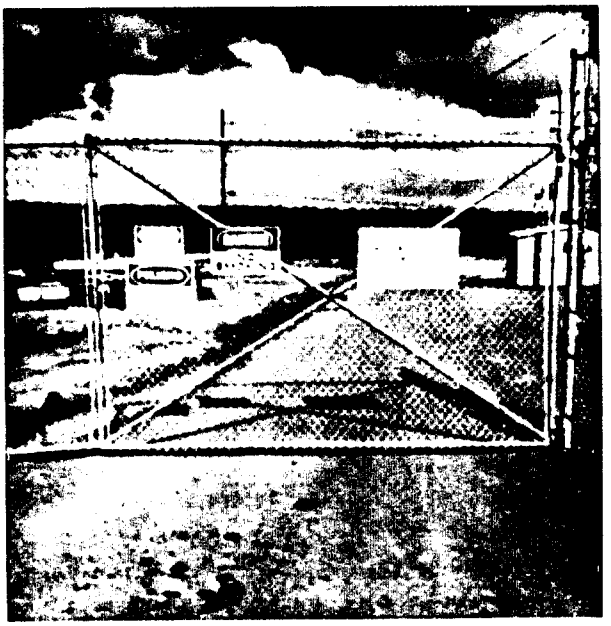

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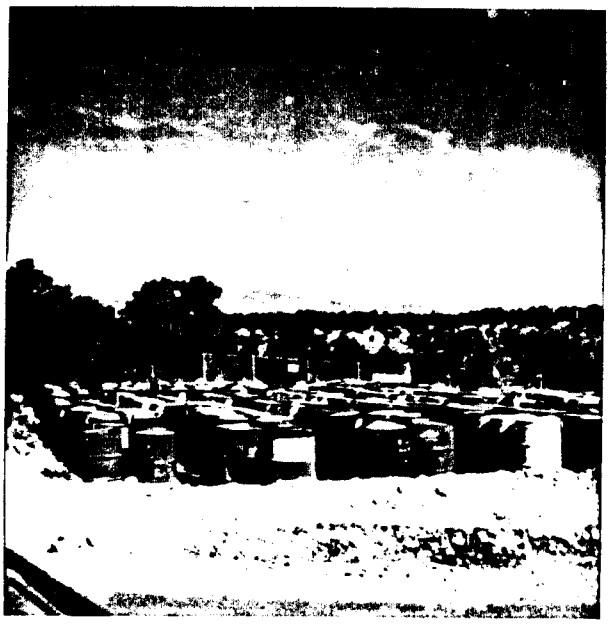
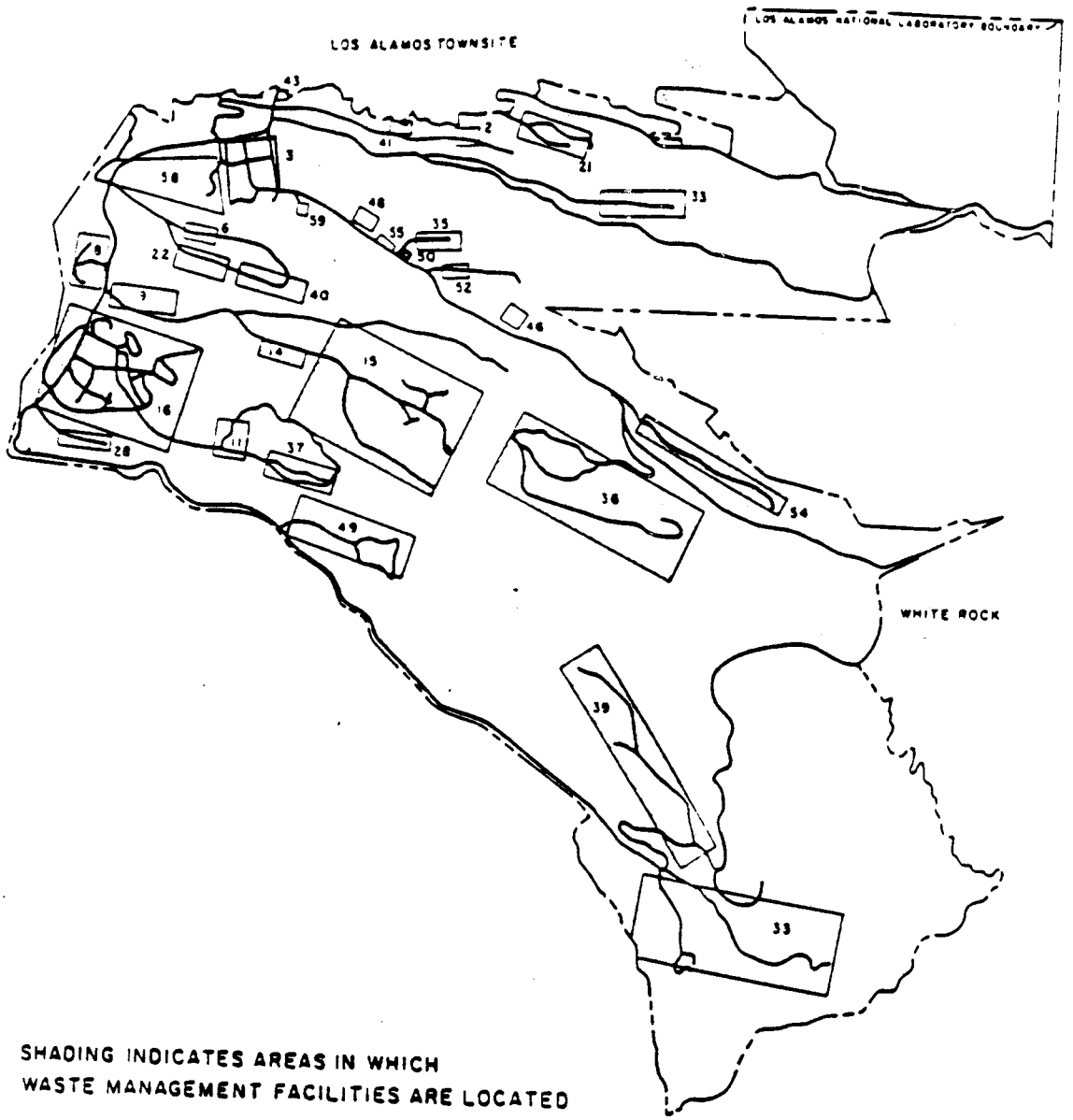


TA-54, Area L

TA-54, Area L



SHADING INDICATES AREAS IN WHICH WASTE MANAGEMENT FACILITIES ARE LOCATED

4000 0 4000

SCALE

Reference for "Site Characterization Technical Plans for the Los Alamos National Laboratory"

LOS ALAMOS
TECHNICAL AREAS

PREPARED FOR
LOS ALAMOS NATIONAL LABORATORY
LOS ALAMOS, NEW MEXICO

IT CORPORATION

DRAWN BY	MJG	CHECKED BY	
	11/26/84	APPROVED BY	

DRAWING NUMBER 6635 02 A-1

32803