

Permit



Department of Energy

Field Office, Albuquerque
Los Alamos Area Office
Los Alamos, New Mexico 87544

JUN 25 1992



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CERTIFIED MAIL - RETURN RECEIPT REQUESTED

P 427 257 845

Mr. Edward Horst
RCRA Program Manager
Hazardous and Radioactive Materials Bureau
New Mexico Environment Department
525 Camino De Los Marquez, Suite 4
Santa Fe, New Mexico 87502

Dear Mr. Horst:

A Resource Conservation and Recovery Act (RCRA) Hazardous Waste Facility Permit was issued to the Department of Energy (DOE) and the University of California for Los Alamos National Laboratory (LANL) by the New Mexico Environment Department (NMED) in November of 1989. LANL's Hazardous Waste Facility Permit and Environmental Protection Agency identification numbers are NM0890010515-1 and NM0890010515, respectively.

This letter transmits a list of Class 1 Permit modifications to the referenced Hazardous Waste Facility Permit. The modifications were prepared in compliance with New Mexico Hazardous Waste Management Regulations, Part IX, Section 902. The modifications are considered minor modifications, such as administrative and informational changes, corrections of typographical errors, minor training plan modifications, and equipment replacement and up-grading. A fact sheet (copy enclosed) will be sent to all people on the LANL mailing list obtained from NMED.

The modifications are broken into two documents, Part I, and Part II. Part I contains the permit text to be modified, the replacement text, the reason and supporting facts for the modification request, and CFR 270.42, Appendix I Modification Class.

Part II contains a copy of the original page on which the text to be modified resides, pages containing the text to be modified with the deleted text marked through, and the replacement text underlined. To easily locate the modified and replaced text, a line bar has been placed in the left margin of any page containing text modifications.

Once the modifications have been reviewed by NMED and any changes are finalized, DOE will send copies of the replacement pages for insertion into the LANL Hazardous Waste Facility Permit, if requested. The replacement of the old pages with the replacement pages in our Hazardous Waste Facility Permit should eliminate any confusion with future Permit modifications and text.

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Mr. Edward Horst

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Additionally, DOE is requesting NMED's review of a proposed minor modification which is not listed in Appendix I of 40 CFR 270.42. Enclosed (see enclosure A) is a description of this modification which involves the relocation of two modular hazardous waste storage units within a permitted storage area. Approval as a Class I modification must be granted by NMED before this modification occurs. If approved, DOE will notify all people on the facility mailing list.

If you have any questions please call Jon Mack of my staff at 665-5026 or Jeff Carmichael of LANL at 665-2505.

Sincerely,


for Jerry L. Bellows
Area Manager

LESH:7JM-001

Enclosures

cc w/enclosures:

H. Grover, NMED, Santa Fe, NM 87502
T. Gunderson, EM-DO, LANL, MS K491
K. Hargis, EM-8, (EM-8:92-597-1),
LANL, MS K490
J. Carmichael, EM-8, LANL, MS K490
T. Drypolcher, EM-7, LANL, MS E517
A. Gustavsson, EM-7, LANL, MS J593
S. Brown, LC/GL, LANL, MS A187

Permit

**CLASS ONE PERMIT MODIFICATIONS TO THE
HAZARDOUS WASTE FACILITY PERMIT**

REQUESTED BY THE

DEPARTMENT OF ENERGY

AND THE UNIVERSITY OF CALIFORNIA

AT

LOS ALAMOS NATIONAL LABORATORY

PART I

PERMIT MODIFICATIONS

Global Permit Changes, Including the Attachments

Modify: New Mexico Environmental Improvement Division

With: New Mexico Environment Department

Reason For Modification: The New Mexico Environmental Improvement Division was elevated to a Department on July 1, 1991.

Permit Modification Class: 40 CFR 270.42, Appendix I, (A.1)

Modify: Health, Safety and Environment (HSE) Division

With: Environmental Management (EM) Division

Reason For Modification: LANL's Health, Safety and Environment Division was split into two separate divisions, known as the Health and Safety Division and the Environmental Management Division. In general, the functional duties of HSE Division spelled out in the permit have been assigned to EM Division.

Permit Modification Class: 40 CFR 270.42, Appendix I, (A.1)

Modify: All figures that present the organization of Health, Safety, and Environment (HSE) Division.

With: The organization of the Environmental Management Division.

Reason For Modification: LANL's Environmental Safety and Health Division was split into two separate divisions, known as the Health and Safety Division and the Environmental Management Division. In general, the functional duties of HSE Division spelled out in the permit have been assigned to EM Division.

Permit Modification Class: 40 CFR 270.42, Appendix I, (A.1)

Modify: All references to Health Safety and Environment Division, HSE-2, HSE-3, and HSE-5

With: Health and Safety Division, HS-2, HS-3, and HS-5 respectively

Reason for Modification: LANL's Health Safety and Environment Division was split into two separate divisions. The new name for the organization responsible for health and safety support is the Health and Safety Division.

Permit Modification Class: 40 CFR 270.42, Appendix I, (A.1)

Modify: All references to Health Safety and Environment Division, HSE-7, HSE-8, and HSE-9

With: Environmental Division, EM-7, EM-8, and EM-9

Reason for Modification: LANL's Health Safety and Environment Division was split into two separate divisions, known as the Health and Safety Division and the Environmental Division. HSE-7, HSE-8, HSE-9 and HSE-13 Groups were split off from the old Health Safety and Environment Division to form their own Division. The functions spelled out in the permit for HSE Division, specifically for HSE-7, HSE-8, and HSE-9 have been assigned to EM Division (EM-7, EM-8 and EM-9).

Permit Modification Class: 40 CFR 270.42, Appendix I, (A.1)

Modify: Pan American Worldwide Services (PAWS)

With: Johnson Controls World Services, Inc. (JCI)

Reason for Modification: Johnson Controls World Services, Inc., purchased Pan Am and the name has been changed.

Permit Modification Class: 40 CFR 270.42, Appendix I, (A.1)

Modify: Laboratory Emergency Duty Officer (LEDO) and the Laboratory's Emergency Preparedness Office Deputy Officer (EPODO)

With: Emergency Manager

Reason For Modification: The Laboratory's Operational Management Group 1 has been renamed and organized into the Emergency Management Office. The LEDO and EPODO have been renamed to Emergency Managers.

Permit Modification Class: 40 CFR 270.42, Appendix I, (A.1)

Module I Standard Conditions

I.B., page 12, line 2

Modify: Part IX, Subpart D,

With: Part IX, Subpart B

Reason for Modification: Typographical error, HWMR-5, Subpart D refers to "Fact Sheet" while Subpart B refers to "Permit Modifications"

Permit Modification Class: 40 CFR 270.42, Appendix I, (A.2)

I.D.2., page 13, line 5

Modify: as amended 1989, Part V,

With: as amended 1989, Part IX,

Reason for Modification: Typographical error, 40 CFR 270.10 (h) is referenced in HWMR-5, Part IX not Part V.

Permit Modification Class: 40 CFR 270.42, Appendix I, (A.2)

I.H.3.c., page 17

Modify: The term "On-site" as used in permit paragraph 11.B.2. means facilities under the operational control of the Permittee and located within the external perimeter of the Permittee's property. This includes Technical Areas 0, 2, 3, 6, 8, 9, 11, 14, 15, 16, 18, 21, 22, 26, 33, 35, 36, 37, 39, 40, 41, 43, 46, 48, 49, 50, 51, 52, 53, 54, 55, 58, and 59. See permit Figure I-1 and Table I-1.

With: The term "On-site" as used in permit paragraph 11.B.2. means facilities under the operational control of the Permittee and located within the external perimeter of the Permittee's property. This includes Technical Areas 0, 2, 3, 6, 8, 9, 11, 14, 15, 16, 18, 21, 22, 26, 33, 35, 36, 37, 39, 40, 41, 43, 46, 48, 49, 50, 51, 52, 53, 54, 55, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, and 74. See permit Figure I-1 and Table I-1.

Reason for Modification: Some of the land designated as Technical Area (TA-0, 3, and 48) have changed to TAs 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, and 74. This land designation change has been made so that specific

LANL operations can be associated with a designated TA. TA-0, TA-3, and TA-48 nor the newly created TAs 60 through 74 do not contain any permitted hazardous waste operations. This change in land designation has not increased or changed the physical property boundary of LANL over that already identified in the permit.

Permit Modification Class: 40 CFR 270.42, Appendix I, (A.1)

I.H.3.c., page 17, line 5

Modify: The term "On-site" as used in permit paragraph 11.B.2. means facilities under the operational control of the Permittee and located within the external perimeter of the Permittee's property. This includes Technical Areas 0, 2, 3, 6, 8, 9, 11, 14, 15, 16, 18, 21, 22, 26, 33, 35, 36, 37, 39, 40, 41, 43, 46, 48, 49, 50, 51, 52, 53, 54, 55, 58, and 59. See permit Figure I-1 and Table I-1.

With: The term "On-site" as used in permit paragraph 11.B.2. means facilities under the operational control of the Permittee and located within the external perimeter of the Permittee's property. This includes Technical Areas 0, 2, 3, 6, 8, 9, 11, 14, 15, 16, 18, 21, 22, 26, 33, 35, 36, 37, 39, 40, 41, 43, 46, 48, 49, 50, 51, 52, 53, 54, 55, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, and 74. See permit Figure 2 and Table I-1.

Reason For Modification: Figure I-1 does not exist in the permit. Figure I-1 is actually Figure 1. Figure 1 of the permit does not show the specific TAs at LANL; however, Figure 2 does specify the different TAs.

Permit Modification Class: 40 CFR 270.42, Appendix I, (A.1)

Module III Storage In Containers

III.C.3.c., page 28

Modify: No more than seventeen 2,220 gallons

With: No more than 17,220 gallons

Reason for Modification: Typographical error

Permit Modification Class: 40 CFR 270.42, Appendix I, (A.2)

III.C.3.f., page 28

Modify: No more than 1,650 fifty gallons of waste

With: No more than 1,650 gallons of waste

Reason for Modification: Typographical error

Permit Modification Class: 40 CFR 270.42, Appendix I, (A.2)

Module VII Industrial Incinerator Operation

VII.A.1., page 47

Modify: structure 16-1150

With: structure 16-1409

Reason For Modification: The structure number 16-1150 was a preliminary number in 1989, during the writing of LANL's Hazardous Waste Permit. However, the official number for this structure is now 16-1409.

Permit Modification Class: 40 CFR 270.42, Appendix I, (A.1)

Figure Replacement

Figure 2

Replace: Figure 2, Los Alamos Technical Areas with the revised Figure 2, Los Alamos Technical Areas

Reason for Modification: Some of the land designated as Technical Area (TA-0, 3, and 48) have changed to TAs 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, and 74. This land designation change has been made so that specific LANL operations can be associated with a designated TA.

Permit Modification Class: 40 CFR 270.42, Appendix I, (A.1)

Attachment A

Section A.1, page A.1, first paragraph

Modify: First paragraph by adding additional verbiage.

With: This Permit Attachment A addresses the waste analysis and waste segregation procedures implemented by Los Alamos National Laboratory for hazardous waste as defined by Section HWMR-5, Part II. Only the sampling and analytical procedures for RCRA-regulated hazardous waste are discussed here.

Reason for Modification: An introduction paragraph was needed to inform the reader about the basic coverage and limitations of Attachment A.

Permit Modification Class: 40 CFR 270.42, Appendix I, (A.1)

Attachment C, Training Plan

Section C.2.2., page C-2, line 1

Modify: All waste handler personnel

With: All waste handling personnel

Reason for Modification: Typographical error.

Permit Modification Class: 40 CFR 270.42, Appendix I, (A.2)

Section C.2.3., page C-2, lines 2 and 3

Modify: the external training program training program

With: the external training program

Reason for Modification: Typographical error, redundant verbiage.

Permit Modification Class: 40 CFR 270.42, Appendix I, (A.2)

Section C.2.4., page C-2, lines 1 and 2

Modify: As Associate Division Leader for the HSE Division

With: As Division Leader for the EM Division

Reason for Modification: Dr. Thomas Gunderson has been selected the Division Leader of the newly formed Environmental Management Division.

Permit Modification Class: 40 CFR 270.42, Appendix I, (A.1)

Section C.3., page C-2, paragraph 1, lines 1 & 2

Modify: Hazardous Waste Emergency Coordinator (HWEC)

With: Incident Commander (IC)

Reason For Modification: The Laboratory's Operational Management Group 1 has been renamed and organized into the Emergency Management Office (EMO). Personnel duty names have been changed to reflect the new organizational structure of EMO. During an emergency the EMO dispatches the Emergency Managers, and the Hazardous Material Response Team to the incident site. At the incident site the Emergency Manager becomes the Incident Commander. Note, while the name has changed the IC functions as the RCRA emergency coordinator defined in 40 CFR 264, Subpart D..

Permit Modification Class: 40 CFR 270.42, Appendix I, (A.1)

Attachment C Job Descriptions and Tables to be Replaced

RCRA Job Description, pages C-6 and C-7

Modify: Title: Section Leader, Chemical Waste Operations (HSE-7) - #003

With: Title: Section Leader, Chemical and Mixed Waste Operations (EM-7) - #003

Reason for Modification: The duties of this Section Leader have been expanded to include the management of mixed waste. Required skills and training have been increased to compensate for the additional responsibilities.

Permit Modification Class: 40 CFR 270.42, Appendix I, (B.5.b)

RCRA Job Description, pages C-13 and C-14

Modify: Title: Staff Member, Chemical Waste Operations
(HSE-7) - #009

With: Title: Staff Member, Chemical and Mixed Waste
Operations (EM-7) - #009

Reason for Modification: The duties of these Staff Members have been expanded to include the management of mixed waste. Required skills and training have been increased to compensate for the additional responsibilities.

Permit Modification Class: 40 CFR 270.42, Appendix I,
(B.5.b)

RCRA Job Description, pages C-19 and C-20

Modify: Title: Chemical Technician II/III (HSE-7) - #012

With: Title: Environmental Technician (EM-7) - #012

Reason for Modification: The Laboratory has restructured its Technician Job Series. Chemical Technician II/IIIs were renamed Environmental Technicians with no actual change in their job description or duties.

Permit Modification Class: 40 CFR 270.42, Appendix I,
(B.5.b)

RCRA Job Description, page C-24

Modify: Title: Mechanical Technician II (HSE-7) - #016

With: Title: Environmental Technician (EM-7) - #012

Reason for Modification: The Laboratory has restructured its Technician Job Series. The Mechanical Technician II job title has been eliminated. A Mechanical Technician II is now an Environmental Technician. Personnel that were Mechanical Technician IIs will receive more regulatory and operational training under their new job description and duties.

Permit Modification Class: 40 CFR 270.42, Appendix I,
(B.5.b)

RCRA Job Description, page C-51

Modify: Title: Emergency Responder - #038

With: Title: Emergency Managers/Hazardous
Material Response Team - #038

Reason for Modification: The Laboratory's Emergency Response Procedures have changed. All emergency response activities are now channeled through the LANL's Emergency Management Office (EMO). The EMO dispatches the Emergency Managers and the Hazardous Material Response Team to the incident site. At the incident site the Emergency Manager becomes the Incident Commander. Note, except for the change in the title of the Emergency Responder the actual job description has not changed.

Permit Modification Class: 40 CFR 270.42, Appendix I,
(B.5.b)

RCRA Job Description Table, pages C-55 through C-67

Replace: The RCRA Job Description Table

With: The attached revised RCRA Job Description Table

Reason for Modification: This up-date of the RCRA Job Description Table is due to personnel changes, Laboratory position restructuring, and the shorting of Emergency Response personnel and Waste Management Coordinators lists. An example of personnel changes involves the Fire Department. In the past, Fire Department personnel were trained and managed under the DOE. Now the management and training of Fire Department personnel are under the control of Los Alamos County.

The list of Emergency Managers/Hazardous Material Response Team personnel has been shorten when compared to the old Emergency Response list. LANL has classified most of the personnel that made up the old Emergency Response list as skilled support personnel. Skilled support personnel do not require training under RCRA.

The Waste Management Coordinators list has been shorten because most of LANL's Coordinators are not involved with the management of treatment, storage or disposal units. The list of Waste Management Coordinators submitted in this permit modification is made up of Coordinators involved with the management of LANL's interim status or permitted storage and treatment units.

Permit Modification Class: 40 CFR 270.42, Appendix I, (B.5.b)

Figure C-2

Replace: Figure C-2, Health, Safety, and Environment Division Organization Chart with the revised Figure C-2, Environmental Management Division Organization Chart

Permit Modification Class: 40 CFR 270.42, Appendix I, (A.1)

RCRA JOB DESCRIPTION

TITLE: Section Leader, Chemical and Mixed Waste Operations (HSE-7) - #003

A. Required Skills:

- Ø Knowledge of State and Federal Regulations regarding hazardous and mixed materials and waste.
- Ø Good technical knowledge of problems associated with hazardous and mixed waste/materials handling and use.
- Ø Ability to communicate with a wide variety of personnel, internal and external to the Laboratory.
- Ø Ability to supervise personnel in proper hazardous and mixed waste management.

B. Required Education/Training:

- Ø Minimum of bachelor's degree in chemistry/chemical engineering or an equivalent combination of experience and education.
- Ø RCRA Provisions
- Ø Personnel Safety
- Ø Respiratory Protection
- Ø Hazardous and Mixed Waste Handling and Operations
- Ø Spill Response
- Ø Contingency Plan
- Ø Recordkeeping/Inspections
- Ø On-Site/Off-Site Transportation

C. Duties:

- Ø Oversee the daily collection, packaging, and transport activities of chemical waste technicians.
- Ø Plan and direct treatment/storage/disposal activities.
- Ø Review incoming Chemical Waste Disposal Request forms and identify hazards associated with the requests.
- Ø Interact with waste generators on waste problem solutions (such as identification of unknown waste).
- Ø Write and update all chemical waste procedures.

- ∅ **Maintain operations records for Area L.**
- ∅ **Assist in on-the-job training for chemical waste handlers.**
- ∅ **Provide input and personnel to spill responses for hazardous and mixed material/waste as necessary.**
- ∅ **Evaluate overall performance of technicians and staff annually.**
- ∅ **Maintain awareness of changes in RCRA regulations and identify necessary improvements.**
- ∅ **Review and approve hazardous and mixed waste generator SOPs and relevant parameters in facility designs.**
- ∅ **Review training records and inspection records for completeness and identify any needs.**
- ∅ **Provide personnel for emergency response.**

RCRA JOB DESCRIPTION

TITLE: Staff Member, Chemical and Mixed Waste Operations (HSE-7) - #009

A. Required Skills:

- Ø Knowledge of State and Federal Regulations regarding hazardous and mixed materials and waste.
- Ø Technical knowledge of problems associated with hazardous and mixed materials handling and use.
- Ø Ability to communicate with a wide variety of personnel, internal and external to the Laboratory.
- Ø Ability to supervise personnel in proper hazardous and mixed waste management.

B. Required Education/Training:

- Ø Minimum of bachelor's degree in chemistry/chemical engineering or an equivalent combination of experience and education.
- Ø RCRA Provisions
- Ø Personnel Safety
- Ø Respiratory Protection
- Ø Hazardous/Mixed Waste Handling and Operations
- Ø Spill Response
- Ø Contingency Plan
- Ø Recordkeeping/Inspections
- Ø On-site/Off-Site Transportation

C. Duties:

- Ø Oversee the daily collection, packaging, and transport activities of hazardous and mixed waste technicians.
- Ø Plan and direct treatment/storage/disposal activities.
- Ø Review incoming Chemical Waste Disposal Request forms and identify hazards associated with the requests.
- Ø Interact with waste generators on waste problem solutions (such as the identification of unknown waste).

- Ø Write and update all chemical waste procedures.
- Ø Maintain operational records for Area L.
- Ø Assist in on-the-job training for chemical waste handlers.
- Ø Provide input to spill and emergency responses for hazardous and mixed materials/waste as necessary.
- Ø Maintain awareness of changes in RCRA regulations and identify necessary improvements.
- Ø Review and approve hazardous and mixed waste generator SOPs and relevant parameters in facility designs.
- Ø Review training records and inspections records for completeness and identify any needs.

RCRA JOB DESCRIPTION

TITLE: Environmental Technician (EM-7) - #012

A. Required Skills:

- Ø Familiarity with State and Federal Regulations regarding hazardous and mixed materials and waste.
- Ø Good technical knowledge of problems associated with hazardous and mixed waste/materials handling and use.
- Ø Oral communication skills for interfacing with waste generators.

B. Required Education/Training:

- Ø Formal chemistry classes or experience in chemical handling operations
- Ø RCRA Provisions
- Ø Personnel Safety
- Ø Respiratory Protection
- Ø Spill Response
- Ø Contingency Plan
- Ø Recordkeeping/Inspections
- Ø On-Site Transportation
- Ø Hazardous/Mixed Waste Handling and Operations

C. Duties:

- Ø Collect hazardous/mixed waste from technical areas in the Laboratory.
- Ø Segregate and/or package waste for storage/treatment/disposal.
- Ø Transport waste to the storage/treatment area.
- Ø Chemically treat waste requiring treatment.
- Ø Perform required hazardous/mixed waste facility inspections.
- Ø Assist in the recordkeeping of all hazardous and mixed waste activities.
- Ø Assist in spill or emergency response treatment, cleanup, and waste storage operations as required.
- Ø Provide input to updating of operational procedures.

RCRA JOB DESCRIPTION

TITLE: Emergency Manager/Hazardous Material Response Team - #038

A. Required Skills:

- ∅ Familiarity with State and Federal Regulations regarding hazardous and mixed materials and waste.
- ∅ Good technical knowledge of problems associated with hazardous chemical handling and use.
- ∅ Ability to communicate with wide variety of personnel, internal and external to Laboratory.
- ∅ Ability to supervise personnel in hazardous and mixed waste emergency situation.

B. Required Education/Training:

- ∅ RCRA Provisions
- ∅ OSHA Provisions
- ∅ Spill Response
- ∅ Contingency Plan
- ∅ Emergency Response

C. Duties:

- ∅ Act as the Incident Commander in the event of a RCRA emergency situation.
- ∅ Maintain awareness of RCRA regulations with respect to local operations.

RCRA JOB DESCRIPTION			
NAME	NUMBER	TITLE	GROUP
A. Drypolcher	001	Group Leader, Waste Management	EM-7
R. Garde	002	Deputy Group Leader, Waste Management	EM-7
A. Gustavsson	003	Section Leader, Chemical and Mixed Waste Operations	EM-7
J. Harper	004	Section Leader, Low-Level Waste Operations	EM-7
S. Hanson	005	Acting Section Leader, Liquid Waste Operations	EM-7
S. Zygmunt	006	Section Leader, Technical Support Section	EM-7
Vacant	008	Staff Member, Technical Support Section	EM-7
A. Montoya	009	Staff Member, Chemical and Mixed Waste Operations	EM-7
E. Lopez	009	Staff Member, Chemical and Mixed Waste Operations	EM-7
F. Vigil	009	Staff Member, Chemical and Mixed Waste Operations	EM-7
N. Sauer	009	Staff Member, Chemical and Mixed Waste Operations	EM-7
J. Kelly	009	Staff Member, Chemical and Mixed Waste Operations	EM-7
W. R. Velasquez	012	Environmental Technican	EM-7
E. Velasquez	012	Environmental Technican	EM-7
B. Romero	012	Environmental Technican	EM-7
J. Armijo	012	Environmental Technican	EM-7
M. Martinez	012	Environmental Technican	EM-7
S. Martinez	012	Environmental Technican	EM-7
T. Martinez	012	Environmental Technican	EM-7
J. Gonzales	012	Environmental Technican	EM-7
L. Esquibel	012	Environmental Technican	EM-7
L. Hupke	012	Environmental Technican	EM-7
D. Melton	014	Mechanical Technician, Technical Support	EM-7
R. Powers	014	Mechanical Technician, Technical Support	EM-7
J. F. Rutten	014	Mechanical Technician, Technical Support	EM-7
J. Mendez	015	Electronic Technician III, Technical Support	EM-7
Vacancy	015	Electronic Technician III, Technical Support	EM-7

RCRA JOB DESCRIPTION, CONTINUED

NAME	NUMBER	TITLE	GROUP
C. Villareal	017	Experimental Equipment/Facilities Operator II/III (Area G)	EM-7
R. Roybal	017	Experimental Equipment/Facilities Operator II/III (Area G)	EM-7
R. Spencer	017	Experimental Equipment/Facilities Operator II/III (Area G)	EM-7
B. Smith	017	Experimental Equipment/Facilities Operator II/III (Area G)	EM-7
M. Martinez	017	Experimental Equipment/Facilities Operator II/III (Area G)	EM-7
D. Moss	018	Experimental Equipment/Facilities Operator II/III (TA-50)	EM-7
D. Salazar	018	Experimental Equipment/Facilities Operator II/III (TA-50)	EM-7
R. Reynolds	018	Experimental Equipment/Facilities Operator II/III (TA-50)	EM-7
G. Royer	018	Experimental Equipment/Facilities Operator II/III (TA-50)	EM-7
E. Montoya	019	Chemical Technician III/Laborer	JCI
N. Garcia	019	Chemical Technician III/Laborer	JCI
J. Martinez	019	Chemical Technician III/Laborer	JCI
D. Bryant	019	Chemical Technician III/Laborer	JCI
Vacant	020	Section Leader, Decontamination and Decommissioning	EM-7
M. Romero, Supervisor	021	Health Protection Technician II/III	EM-7
M. Sanchez	021	Health Protection Technician II/III	EM-7
Vacancy	022	Staff Member, Waste Generator Interface	EM-7
F. M. Jackson	023	Technical Coordinator for Operations	M-DO
S. Hildner	024	Testing Technician III	M-1
C. C. Maxwell	025	Technical Administrative Specialist	M-1
A.D. Bonner	026	Remote Site Supervisor	M-6
D.T. Torres	027	Mechanical Technician II	M-6
W. Patterson	028	Technical Supervisor IV	M-7
S. Trujillo	029	Technical Supervisor III	M-7
L.W. Creamer	030	Group Safety Committee Chairman	M-7
C.M. Montoya	031	Safety Officer	M-8
C.M. Montoya	032	Firing Operations Supervisor	M-8
J. Maestas	033	Disposal Operations Materials Technician	WX-3
S. Ortiz	033	Disposal Operations Materials Technician	WX-3

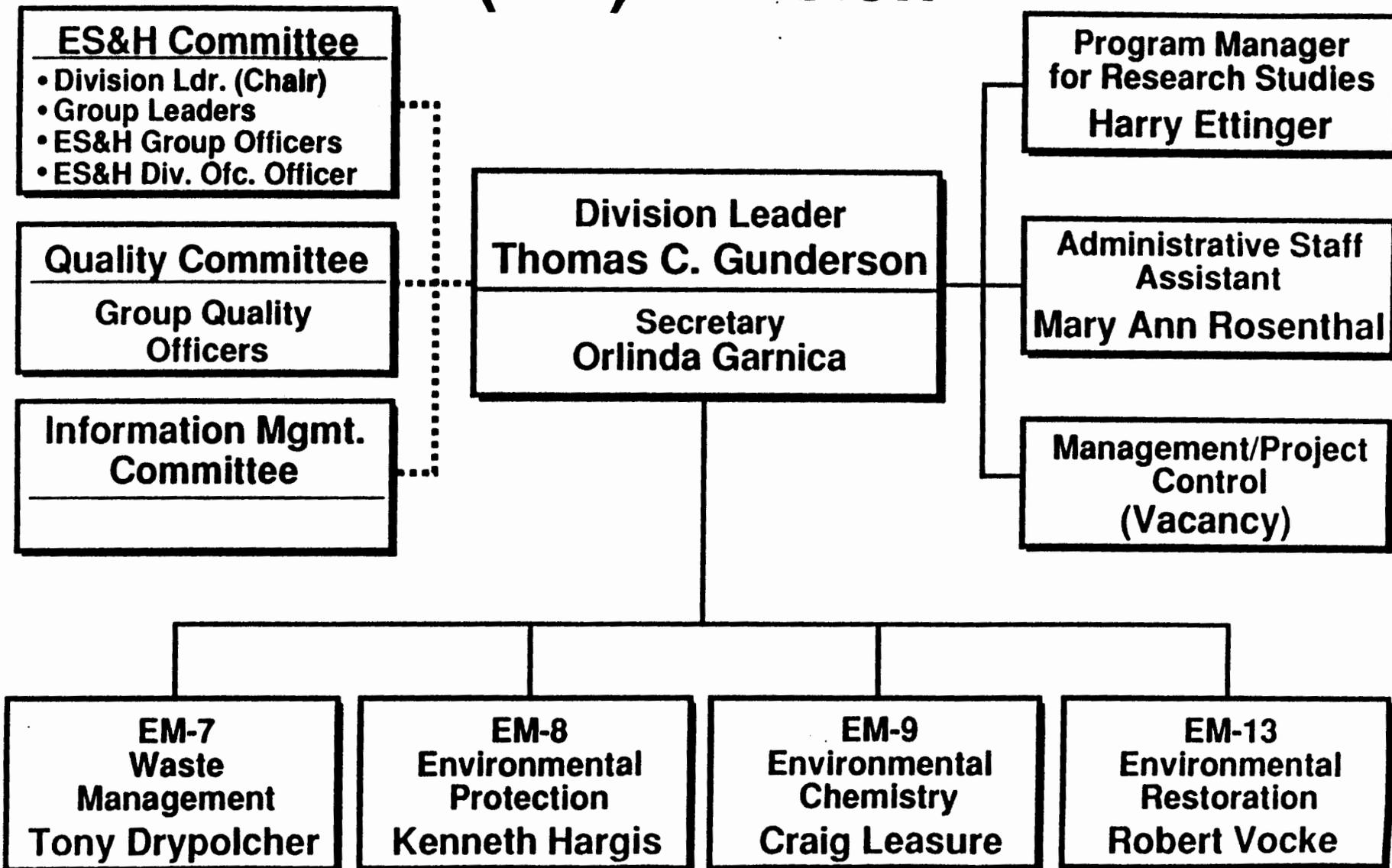
RCRA JOB DESCRIPTION, CONTINUED

NAME	NUMBER	TITLE	GROUP
J. Gallegos	033	Disposal Operations Materials Technician	WX-3
R. Garcia	033	Disposal Operations Materials Technician	WX-3
A. Montano	033	Disposal Operations Materials Technician	WX-3
P. Velarde	034	Disposal Operations Materials Technician	WX-3
B. McCormick	035	Plant Engineering Specialist Technician IV	WX-12
B. McCormick	036	Certifying Agent	WX-12
J. Martinez	036	Certifying Agent	WX-12
D. Sharpless	037	Plant Engineering Specialist Technician IV	WX-12
Z. Macbain	038	Emergency Manager/HAZ MAT Team	EMO
F. Pearce	038	Emergency Manager/HAZ MAT Team	EMO
J. Griffiths	038	Emergency Manager/HAZ MAT Team	EMO
D. Winston	038	Emergency Manager/HAZ MAT Team	EMO
D. Seitz	038	Emergency Manager/HAZ MAT Team	EMO
G. Bequett	038	Emergency Manager/HAZ MAT Team	EMO
T. Hower	038	Emergency Manager/HAZ MAT Team	HS-5
D. Volz	038	Emergency Manager/HAZ MAT Team	HS-5
T. Montoya	038	Emergency Manager/HAZ MAT Team	HS-5

RCRA JOB DESCRIPTION, CONTINUED

NAME	NUMBER	TITLE	GROUP
M. Barr	039	Waste Management Coordinator	WX-3
W. Bradley	039	Waste Management Coordinator	WX-DO
M. Fuehrer	039	Waste Management Coordinator	WX-5
K. Griechen	039	Waste Management Coordinator	WX-3
J. Klein	039	Waste Management Coordinator	X-DO
R. Larson	039	Waste Management Coordinator	WX-5
W. May	039	Waste Management Coordinator	WX-3
B. McCormick	039	Waste Management Coordinator	WX-12
C. Sandoval	039	Waste Management Coordinator	WX-3
D. Moss	039	Waste Management Coordinator	EM-7
D. Williams	039	Waste Management Coordinator	EM-7
C. Bieri	041	High Explosive Technician	M-1

Environmental Management (EM) Division



Attachment D

D.2.1.1, page D-2, first paragraph

Modify: The Laboratory maintains its own medical facility, HSE-2 Occupational Medicine, to handle job-related injuries, and to monitor employee health. Medical facilities include a staff of six physicians, two physicians assistances, ten nurses, six X-ray technicians, and two laboratory technicians.

With: The Laboratory maintains its own medical facilities, HS-2 Occupational Medicine, to handle job-related injuries, and to monitor employee health during normal business hours. Medical facilities include staff physicians, physicians assistances, nurses, X-ray technicians, and laboratory technicians.

Reason for Modification: The number of HS-2 personnel is subject to changes. Specifying the number of medical staff at the medical facility will cause needless permit modifications as HS-2 personnel change.

Permit Modification Class: 40 CFR 270.42, Appendix I, (A.1)

D.2.1.3, page D-2, line 3

Modify: and equipment.

With: and equipment and provides hazardous material response team personnel.

Reason for Modification: The Laboratory's Emergency Response Procedures have changed. All emergency response activities are now channeled through LANL's Emergency Management Office (EMO). EMO in turn will dispatch the Hazardous Materials Response Team. HS-5 makes up part of the Hazardous Materials Response Team.

Permit Modification Class: 40 CFR 270.42, Appendix I, (A.1)

D.2.1.4, page D-2

Modify: Provide cleanup operations and proper treatment and disposal of hazardous materials and supervise emergency response operations. Since HSE-7 normally handles hazardous waste, the group is highly trained and equipped. This group represents the nucleus of the hazardous waste emergency response.

With: Provide cleanup operations and proper treatment and disposal of hazardous materials.

Reason for Modification: EM-7 formally HSE-7 no longer provides a Hazardous Materials Response Team in the event of a hazardous waste release. All emergency response activities are now channeled through LANL's Emergency Management Office (EMO). EMO in turn will dispatch the Hazardous Materials Response Team. EM-7 personnel may be utilized as skilled support personnel.

Permit Modification Class: 40 CFR 270.42, Appendix I, (A.1)

D.2.1.5, Page D-2,, line 1

Modify: Provides field surveys of soil, water

With: Provides regulatory compliance support and conducts field surveys of soil, water

Reason for Modification: Providing additional information on EM-8's responsibilities.

Permit Modification Class: 40 CFR 270.42, Appendix I, (A.1)

Section D.2.1.11, page D-3, Title

Modify: Operational Management Group 1 (Emergency Management)

With: Emergency Management Office

Reason For Modification: The operational Management Group has reorganized into the Emergency Management Office.

Permit Modification Class: 40 CFR 270.42, Appendix I, (A.1)

Section D.2.1.11, page D-3, paragraph 1

Modify: This group provides a 24-hour duty officer, called the Laboratory Emergency Duty Officer (LEDO), to respond to all credible emergencies, including hazardous materials releases. The LEDO is the On-Scene Commander (OSC) for all emergencies, including releases of hazardous materials when an On-Scene Control Group (OSCG) is formed. Emergency Management maintains the Emergency Operations Center (EOC) in operational ready status should the center be required.

With: This group provides a 24-hour duty officer, called the Emergency Manager, to respond to all credible emergencies, including hazardous materials releases. The Emergency Manager is the Incident Commander for all emergencies, including releases of hazardous materials when an Incident Control Group (ICG) is formed. The Emergency Management Office maintains the Emergency Operations Center (EOC) in operational ready status should the center be required.

Reason For Modification: The Laboratory's Operational Management Group I has been renamed and organized into the Emergency Management Office (EMO). Personnel duty names have been changed to reflect the new organizational structure of EMO.

Permit Modification Class: 40 CFR 270.42, Appendix I, (A.1)

Attachment D Figures and Tables to be Replaced

Figure D-1

Replace: Figure D-1, Los Alamos Technical Areas with revised Figure D-1, Los Alamos Technical Areas

Reason for Modification: Some of the land designated as Technical Area TA-0, 3, and 48 have changed to TAs 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, and 74. This land designation change has been made so that specific LANL operations can be associated with a designated TA.

Figure D-2:

Replace: Figure D-2, Health, Safety, and Environment Division Organization Chart with the revised Figure D-2, Environmental Management Division Organization Chart

Reason for Modification: LANL's Environmental Safety and Health Division was split into two separate divisions, known as the Health and Safety Division and the Environmental Management Division.

Figure D-5:

Replace: Figure D-5, Hazardous Waste Emergency Notification Structure chart with revised Figure D-5 chart

Reason for Modification: Up-date of Organization Chart

Table D-3:

Replace: Table D-3, Emergency Equipment table with revised Table D-3

Reason for Modification: LANL equips it's hazardous waste operations with the most up-to-date equipment. A periodic update of the emergency equipment table is needed to reflect these changes.

Table D-4:

Replace: Table D-4, Hazardous Waste Emergency Coordinators with revised table of Emergency Managers

Reason for Modification: The Laboratory's Operational Management Group 1 has been renamed and organized into the Emergency Management Office (EMO). Personnel duty names have been changed to reflect the new organizational structure of EMO.

Permit Modification Class: 40 CFR 270.42, Appendix I, (A.1) for all Figures and Tables.

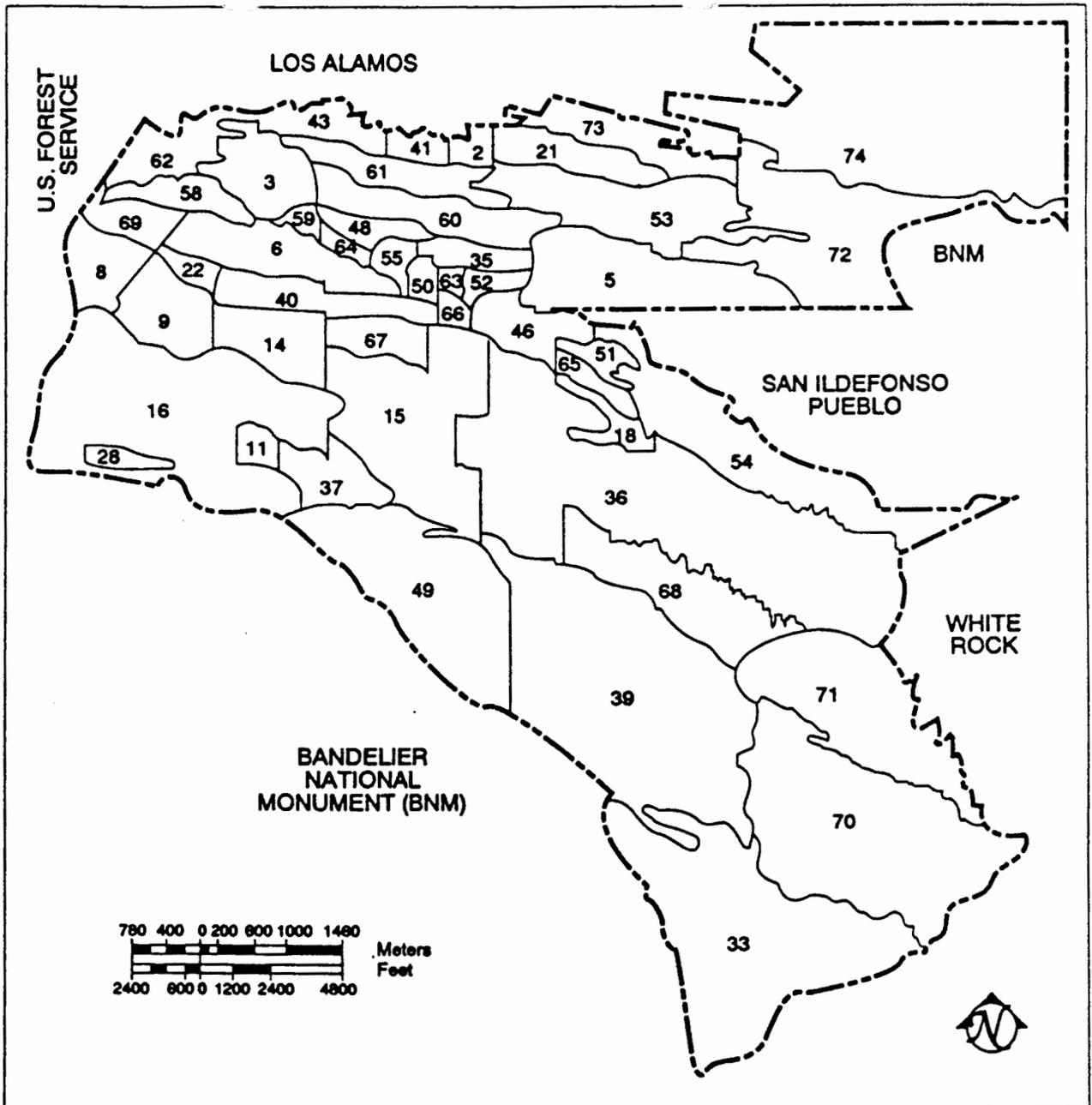


FIGURE 2
LOS ALAMOS
TECHNICAL AREAS
PREPARED FOR
LOS ALAMOS
NATIONAL LABORATORY
LOS ALAMOS, NEW MEXICO
IT CORPORATION

Environmental Management (EM) Division

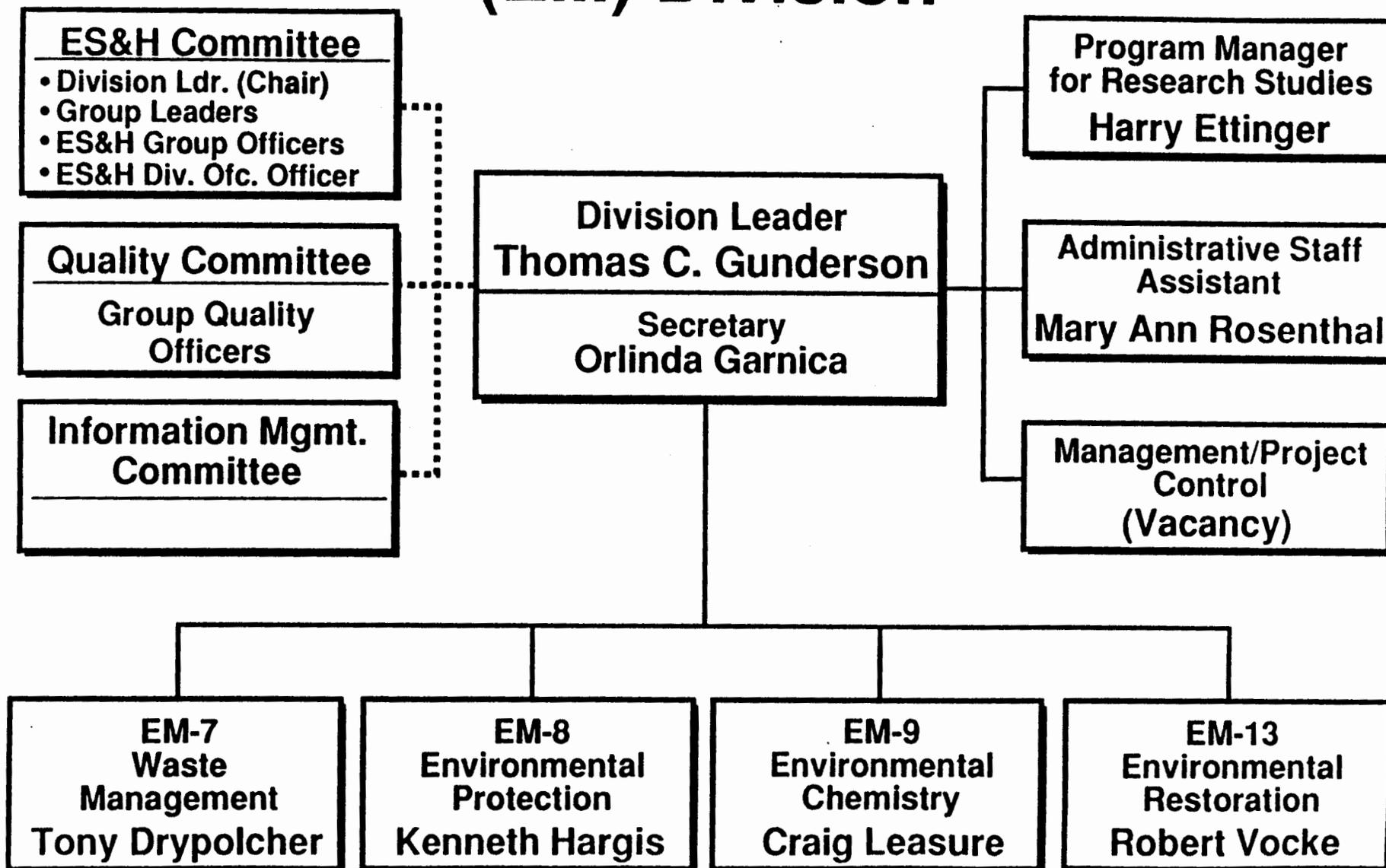
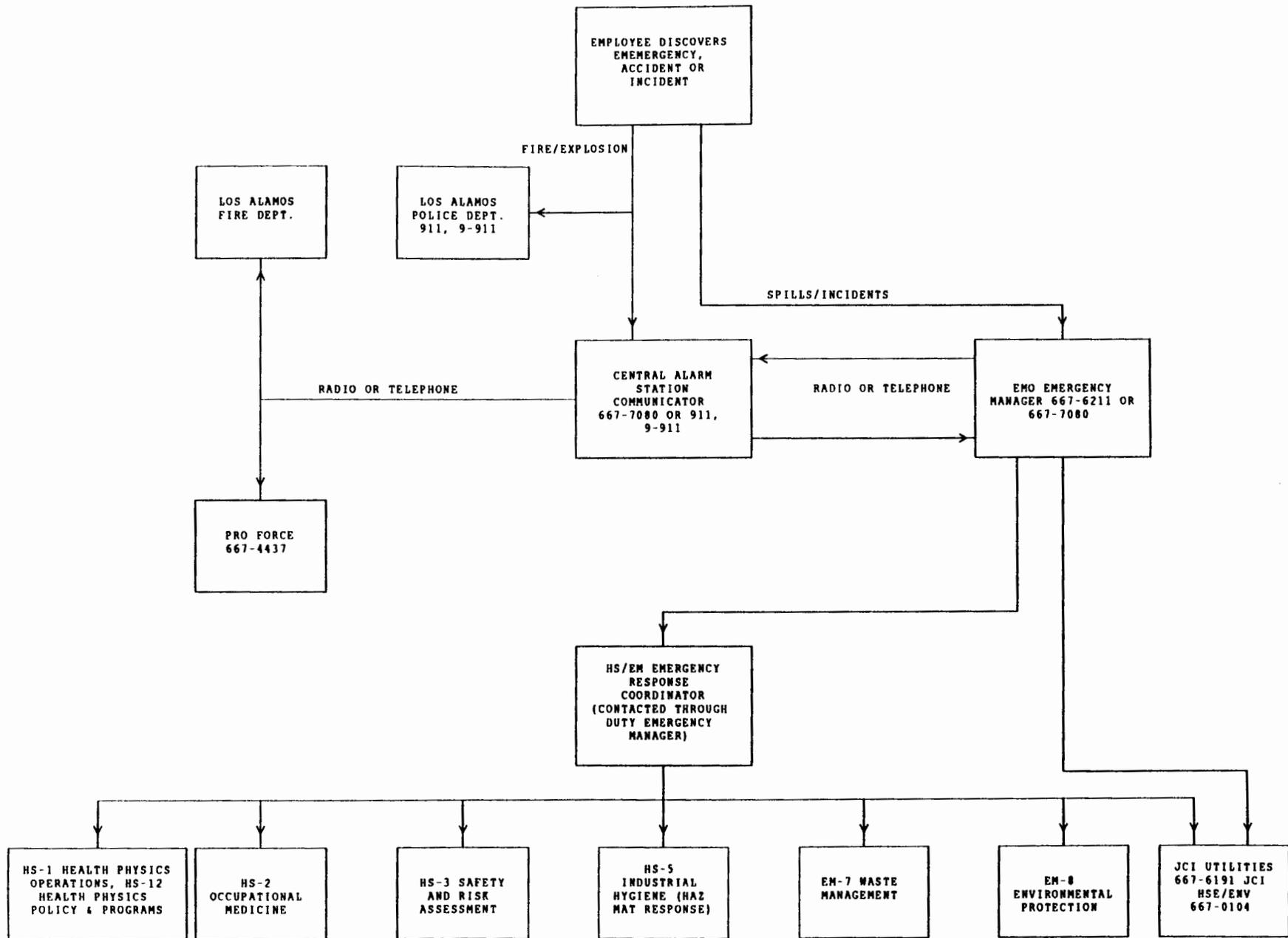


FIGURE D-5
HAZARDOUS WASTE EMERGENCY NOTIFICATION STRUCTURE



**CLASS ONE PERMIT MODIFICATIONS TO THE
HAZARDOUS WASTE FACILITY PERMIT
REQUESTED BY THE
DEPARTMENT OF ENERGY
AND THE UNIVERSITY OF CALIFORNIA
AT
LOS ALAMOS NATIONAL LABORATORY**

PART II

MODULE I STANDARD CONDITIONS

I.A. EFFECT OF PERMIT

The Permittee is allowed to incinerate, treat and store on site hazardous waste in accordance with the conditions of this permit. Any incineration, treatment or storage of hazardous waste not authorized in this permit or conducted under interim status, as defined by the Resource Conservation and Recovery Act (RCRA), is prohibited. Compliance with this permit constitutes compliance, for purposes of enforcement, with the New Mexico Hazardous Waste Act (Section 74-4-1 *et seq.* NMSA 1978) and the New Mexico Hazardous Waste Management Regulations (HWMR-5, as amended 1989), Parts V, VII and IX only for those management practices specifically authorized by this permit. The Permittee is also required to comply with HWMR-5, Parts I, II, III and IV to the extent the requirements of those Parts are applicable. The Permittee must also comply with all applicable self-implementing provisions imposed by the Resource Conservation and Recovery Act statute and/or the HWMR-5, Part VIII. A complete RCRA permit consists of this permit and a US EPA permit issued under the provisions of the Hazardous and Solid Waste Amendments of 1984 (HSWA) which addresses the portion of the RCRA program for which the State is not authorized. Issuance of this permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of State or local law or regulations. Compliance with the terms of this permit does not constitute a defense to any action brought under Sections 3008(a), 3008(h), 3013 or 7003 of RCRA; Sections 106(a), 104 or 107 of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (42 U.S.C. 9601 *et seq.*, commonly known as CERCLA); Sections 74-4-1 *et seq.* NMSA 1978, or any other law governing protection of public health or the environment.

I.B. PERMIT ACTIONS

This permit may be modified, revoked and reissued, or terminated for cause as specified in HWMR-5, as amended 1989, Part IX, Subpart D, included herein by reference. The filing of a request for a permit modification, revocation and reissuance, or termination, or the notification of planned changes or anticipated noncompliance on the part of the permittee, does not stay the applicability or enforceability of any permit condition. Review of any application for a permit renewal shall consider improvements in the state of control and measurement technology as well as changes in applicable regulations and laws.

I.C. SEVERABILITY

The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid,

MODULE I STANDARD CONDITIONS

I.A. EFFECT OF PERMIT

The Permittee is allowed to incinerate, treat and store on site hazardous waste in accordance with the conditions of this permit. Any incineration, treatment or storage of hazardous waste not authorized in this permit or conducted under interim status, as defined by the Resource Conservation and Recovery Act (RCRA), is prohibited. Compliance with this permit constitutes compliance, for purposes of enforcement, with the New Mexico Hazardous Waste Act (Section 74-4-1 *et seq.* NMSA 1978) and the New Mexico Hazardous Waste Management Regulations (HWMR-5, as amended 1989), Parts V, VII and IX only for those management practices specifically authorized by this permit. The Permittee is also required to comply with HWMR-5, Parts I, II, III and IV to the extent the requirements of those Parts are applicable. The Permittee must also comply with all applicable self-implementing provisions imposed by the Resource Conservation and Recovery Act statute and/or the HWMR-5, Part VIII. A complete RCRA permit consists of this permit and a US EPA permit issued under the provisions of the Hazardous and Solid Waste Amendments of 1984 (HSWA) which addresses the portion of the RCRA program for which the State is not authorized. Issuance of this permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of State or local law or regulations. Compliance with the terms of this permit does not constitute a defense to any action brought under Sections 3008(a), 3008(h), 3013 or 7003 of RCRA; Sections 106(a), 104 or 107 of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (42 U.S.C. 9601 *et seq.*, commonly known as CERCLA); Sections 74-4-1 *et seq.* NMSA 1978, or any other law governing protection of public health or the environment.

I.B. PERMIT ACTIONS

This permit may be modified, revoked and reissued, or terminated for cause as specified in HWMR-5, as amended 1989, Part IX, Subpart ~~BB~~, included herein by reference. The filing of a request for a permit modification, revocation and reissuance, or termination, or the notification of planned changes or anticipated noncompliance on the part of the permittee, does not stay the applicability or enforceability of any permit condition. Review of any application for a permit renewal shall consider improvements in the state of control and measurement technology as well as changes in applicable regulations and laws.

I.C. SEVERABILITY

The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid,

the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby.

I.D. DUTIES AND REQUIREMENTS

1. Duty to Comply. The Permittee shall comply, in accordance with HWMR-5, as amended 1989, Part IX, 40 CFR section 270.30(a), with all conditions of this permit, except to the extent and for the duration such noncompliance is authorized by an emergency permit issued in accordance with HWMR-5, as amended 1989, Part IX, 40 CFR section 270.61. Any permit noncompliance by any Permittee employee or contractor, other than noncompliance authorized by an emergency permit, constitutes a violation of the New Mexico Hazardous Waste Act and is grounds for enforcement action, permit termination, revocation and reissuance, modification, or denial of a permit renewal application.
2. Duty to Reapply. In accordance with HWMR-5, as amended 1989, Part IX, 40 CFR section 270.30(b), if the Permittee wishes to continue an activity allowed by this permit after the expiration date of this permit, the Permittee shall submit an administratively complete application for a new permit at least 180 calendar days before this permit expires. [HWMR-5, as amended 1989, Part V, 40 CFR section 270.10(h)]
3. Permit Expiration. Pursuant to HWMR-5 Part IX, 40 CFR 270.50, this permit shall be effective for the fixed term of ten years. As long as the state is the permit-issuing authority, this permit and all conditions herein will remain in effect beyond the permit's expiration date, if the Permittee has submitted a timely, complete application (see HWMR-5, Part IX, 40 CFR 270.10, 270.13 through 270.29) and, through no fault of the Permittee, the Director has not issued a new permit, as set forth in HWMR-5, Part IX, 40 CFR 270.51.
4. Need to Halt or Reduce Activity Not a Defense. In accordance with HWMR-5, as amended 1989, Part IX, 40 CFR section 270.30(c), it shall not be a defense for the Permittee, in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
5. Duty to Mitigate. In accordance with HWMR-5, as amended 1989, Part IX, 40 CFR section 270.30(d), the Permittee shall take all reasonable steps to minimize or correct any adverse impact on human health or the environment resulting from noncompliance with this permit.
6. Proper Operation and Maintenance. In accordance with HWMR-5, as amended 1989, Part IX, 40 CFR section 270.30(e), the Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control and related appurtenances which are installed or used by the Permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance include effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facility or similar systems only when necessary to achieve compliance with the conditions of this permit.

the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby.

I.D. DUTIES AND REQUIREMENTS

1. Duty to Comply. The Permittee shall comply, in accordance with HWMR-5, as amended 1989, Part IX, 40 CFR section 270.30(a), with all conditions of this permit, except to the extent and for the duration such noncompliance is authorized by an emergency permit issued in accordance with HWMR-5, as amended 1989, Part IX, 40 CFR section 270.61. Any permit noncompliance by any Permittee employee or contractor, other than noncompliance authorized by an emergency permit, constitutes a violation of the New Mexico Hazardous Waste Act and is grounds for enforcement action, permit termination, revocation and reissuance, modification, or denial of a permit renewal application.
2. Duty to Reapply. In accordance with HWMR-5, as amended 1989, Part IX, 40 CFR section 270.30(b), if the Permittee wishes to continue an activity allowed by this permit after the expiration date of this permit, the Permittee shall submit an administratively complete application for a new permit at least 180 calendar days before this permit expires. (HWMR-5, as amended 1989, Part IX, 40 CFR section 270.10(h))
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5. Closure Plans required by HWMR-5, as amended 1989, Part V, 40 CFR section 264.112(a) and this permit;
6. Operating record required by HWMR-5, as amended 1989, Part V, 40 CFR section 264.73 and this permit; and
7. Inspection schedules required by HWMR-5, as amended 1989, Part V, 40 CFR section 264.15 and this permit.

I.H. PERMIT CONSTRUCTION

1. Citing. Whenever paragraphs of this permit or of the Hazardous Waste Management Regulations are cited, such cite includes all subordinate 40 CFR sections of the cited paragraph. When subordinate 40 CFR sections are cited, such cite includes all 40 CFR subsections of the cited subparagraph. All such cites shall be considered an inclusion by reference in accordance with HWMR-5, as amended 1989, Part IX, 40 CFR section 270.30.
2. Gender. Whenever the pronoun "he" is used in reference to the Director of the Environmental Improvement Division or the Permittee, it is to be read as "she" in any instance where the object of the reference is female.
3. Definitions. For purposes of this Permit, terms used herein shall have the same meaning as those in HWMR-5, Parts I, V, VIII, and IX, unless this permit specifically provides otherwise; where terms are not defined in the regulations or the permit, the meaning associated with such terms shall be defined by a standard dictionary reference or the generally accepted scientific or industrial meaning of the term. "Regional Administrator" means the Regional Administrator of EPA Region VI, or his designee or authorized representative. "Director" means the Director of the New Mexico Environmental Improvement Division, or this designee or authorized representative.
 - a. References to "Wastes" in this permit mean "Hazardous Wastes" as regulated under RCRA unless specifically designated otherwise at the time of use.
 - b. The term "Knowledge of Process" means a written description of the waste, certified as true and correct by an individual familiar with the process that generated the waste. Such description shall specify the waste constituents and estimate their concentration or quantity.

5. Closure Plans required by HWMR-5, as amended 1989, Part V, 40 CFR section 264.112(a) and this permit;
6. Operating record required by HWMR-5, as amended 1989, Part V, 40 CFR section 264.73 and this permit; and
7. Inspection schedules required by HWMR-5, as amended 1989, Part V, 40 CFR section 264.15 and this permit.

I.H. PERMIT CONSTRUCTION

1. Citing. Whenever paragraphs of this permit or of the Hazardous Waste Management Regulations are cited, such cite includes all subordinate 40 CFR sections of the cited paragraph. When subordinate 40 CFR sections are cited, such cite includes all 40 CFR subsections of the cited subparagraph. All such cites shall be considered an inclusion by reference in accordance with HWMR-5, as amended 1989, Part IX, 40 CFR section 270.30.
2. Gender. Whenever the pronoun "he" is used in reference to the Director of the Environmental Improvement Division or the Permittee, it is to be read as "she" in any instance where the object of the reference is female.
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 - a. References to "Wastes" in this permit mean "Hazardous Wastes" as regulated under RCRA unless specifically designated otherwise at the time of use.
 - b. The term "Knowledge of Process" means a written description of the waste, certified as true and correct by an individual familiar with the process that generated the waste. Such description shall specify the waste constituents and estimate their concentration or quantity.
 - c. The term "On-site" as used in permit paragraph II.B.2. means facilities under the operational control of the Permittee and located within the external perimeter of the Permittee's property. This includes Technical Areas 0, 2, 3, 6, 8, 9, 11, 14, 15, 16, 18, 21, 22, 26, 33, 35, 36, 37, 39, 40, 41, 43, 46, 48, 49, 50, 51, 52, 53, 54, 55, 58, and 59. See permit Figure I-1 and Table I-1.
 - d. Technical Area Zero (TA-0), includes only the detached sites listed in Table I-1.
 - e. The term "Analysis" includes physical analysis, chemical analysis and knowledge of process determinations.

- c. ~~The term "On-site" as used in permit paragraph 11.B.2. means facilities under the operational control of the Permittee and located within the external perimeter of the Permittee's property. This includes Technical Areas 0, 2, 3, 6, 8, 9, 11, 14, 15, 16, 18, 21, 22, 26, 33, 35, 36, 37, 39, 40, 41, 43, 46, 48, 49, 50, 51, 52, 53, 54, 55, 58, and 59. See permit Figure 1-1 and Table I-1.~~
- c. The term "On-site" as used in permit paragraph 11.B.2. means facilities under the operational control of the Permittee and located within the external perimeter of the Permittee's property. This includes Technical Areas 0, 2, 3, 6, 8, 9, 11, 14, 15, 16, 18, 21, 22, 26, 33, 35, 36, 37, 39, 40, 41, 43, 46, 48, 49, 50, 51, 52, 53, 54, 55, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, and 74. See permit Figure 2 and Table I-1.
- d. Technical Area Zero (TA-0), includes only the detached sites listed in Table I-1.
- e. The term "Analysis" includes physical analysis, chemical analysis and knowledge of process determinations.

2. Type. Containers must be of a type specified in the DOT hazardous materials regulations, 49 CFR 171 to 179, if those regulations specify a particular container for the waste. As applicable, the containers shall be either: (1) previously unused or certified reconditioned DOT shipping containers; (2) the original shipping containers in which the material was first marketed; or (3) any other suitable container which satisfies the requirements of permit paragraph III. C. If the hazardous wastes are to be received and stored in their original shipping containers, the Permittee must insure that the requirements of permit paragraph III.C. are satisfied. Polyethylene bulk containers shall meet or exceed DOT specification number E9052. Compressed gas cylinders not meeting DOT requirements shall be segregated in a safe area.
3. Quantity. The following quantities include all stored liquid materials, whether regulated or not. Solid materials which do not displace containment capacity may be collocated without affecting these volumes. Solid materials which displace containment volume shall be included in calculating the stored volume as if they were liquids. The Permittee shall keep current accurate records of the quantity of waste in storage at each location below to ensure that these capacities are not exceeded.
 - a. No more than 220 gallons of liquid shall be stored at Technical Area 50, Building 50-1, BWTU curbed bay.
 - b. No more than 440 gallons of liquid shall be stored at Technical Area 54, Area L, Building Number 54-31.
 - c. No more than seventeen 2,220 gallons of liquid shall be stored at each concrete containment structure: Facility Numbers 54-32, 50-139 or 50-140.
 - d. No more than 3600 containers of 55-gallon capacity or less, or the equivalent volume of 26,470 cubic feet, 980 cubic yards or 749 cubic meters, shall be used to store solidified wastes at Technical Area 54, Area L.
 - e. No more than 3,630 gallons of liquid shall be stored in Building 50-37, Room 117.
 - f. No more than 1,650 fifty gallons of waste shall be stored in each modular storage unit.
4. Condition.
 - a. If a container holding hazardous waste is not in good condition (e.g. severe rusting, structural defects) or if it begins to leak, the Permittee shall transfer the hazardous waste from such container to a container that is in good condition or otherwise manage the waste in compliance with the conditions of this permit.
 - b. The Permittee may use overpack containers of more than 55-gallon capacity to manage defective waste storage containers. Each overpacked container shall be recorded in the facility record.

2. Type. Containers must be of a type specified in the DOT hazardous materials regulations, 49 CFR 171 to 179, if those regulations specify a particular container for the waste. As applicable, the containers shall be either: (1) previously unused or certified reconditioned DOT shipping containers; (2) the original shipping containers in which the material was first marketed; or (3) any other suitable container which satisfies the requirements of permit paragraph III. C. If the hazardous wastes are to be received and stored in their original shipping containers, the Permittee must insure that the requirements of permit paragraph III.C. are satisfied. Polyethylene bulk containers shall meet or exceed DOT specification number E9052. Compressed gas cylinders not meeting DOT requirements shall be segregated in a safe area.
3. Quantity. The following quantities include all stored liquid materials, whether regulated or not. Solid materials which do not displace containment capacity may be collocated without affecting these volumes. Solid materials which displace containment volume shall be included in calculating the stored volume as if they were liquids. The Permittee shall keep current accurate records of the quantity of waste in storage at each location below to ensure that these capacities are not exceeded.
 - a. No more than 220 gallons of liquid shall be stored at Technical Area 50, Building 50-1, BWTU curbed bay.
 - b. No more than 440 gallons of liquid shall be stored at Technical Area 54, Area L, Building Number 54-31.
 - c. ~~No more than seventeen 2,220 gallons~~ No more than 17,220 gallons of liquid shall be stored at each concrete containment structure: Facility Numbers 54-32, 50-139 or 50-140.
 - d. No more than 3600 containers of 55-gallon capacity or less, or the equivalent volume of 26,470 cubic feet, 980 cubic yards or 749 cubic meters, shall be used to store solidified wastes at Technical Area 54, Area L.
 - e. No more than 3,630 gallons of liquid shall be stored in Building 50-37, Room 117.
 - f. ~~No more than 1,650 fifty gallons of waste~~ No more than 1,650 gallons of waste shall be stored in each modular storage unit.
4. Condition.
 - a. If a container holding hazardous waste is not in good condition (e.g. severe rusting, structural defects) or if it begins to leak, the Permittee shall transfer the hazardous waste from such container to a container that is in good condition or otherwise manage the waste in compliance with the conditions of this permit.
 - b. The Permittee may use overpack containers of more than 55-gallon capacity to manage defective waste storage containers. Each overpacked container shall be recorded in the facility record.

MODULE VII INDUSTRIAL INCINERATOR OPERATION

VII.A. GENERAL CONDITIONS

1. Authorized Unit. The unit is the Spronz Incinerator Corporation, model RL-80-P incinerator located in Technical Area 16 and listed as structure 16-1150.
2. Destruction and Removal Efficiency. Emissions from the incinerator shall meet all Federal and State air standards and regulations.

VII.B. WASTE IDENTIFICATION

1. Authorized wastes.
 - a. Wastes listed as hazardous waste solely because they are ignitable, corrosive or both (F003).
 - b. Wastes listed as hazardous waste solely because they are reactive.
 - c. Wastes listed as hazardous wastes solely because they exhibit the characteristic (s) of ignitability, corrosivity, or both.
 - d. Wastes listed as hazardous wastes solely because they exhibit the characteristic of reactivity.
2. Prohibited wastes.
 - a. No hazardous wastes other than those identified in permit paragraph VII.B.1. above shall be incinerated in this unit.
 - b. No off-site wastes shall be incinerated.

VII.C. WASTE ANALYSIS

1. Waste Analysis Plan. The Permittee shall follow Permit Attachment A. where applicable.
2. Batch analysis. Each batch to be incinerated shall be inspected by a knowledgeable individual for the presence of ignitable, corrosive or reactive wastes and the absence of prohibited wastes. A signed record of each inspection shall be retained in the facility records.
3. Initial Analysis. Each new mixture of wastes not previously analyzed shall be analyzed prior to incineration for:
 - a. Heating value,
 - b. Viscosity or physical form,
 - c. Identification of any hazardous constituent,

MODULAR VII INDUSTRIAL INCINERATOR OPERATION

VII.A. GENERAL CONDITIONS

1. Authorized Unit. The unit is the Spronz Incinerator Corporation, model RL-80-P incinerator located in Technical Area 16 and listed as ~~structure 16-1159~~ structure 16-1409.
2. Destruction and Removal Efficiency. Emissions from the incinerator shall meet all Federal and State air standards and regulations.

VII.B. WASTE IDENTIFICATION

1. Authorized wastes.
 - a. Wastes listed as hazardous waste solely because they are ignitable, corrosive or both (F003).
 - b. Wastes listed as hazardous waste solely because they are reactive.
 - c. Wastes listed as hazardous wastes solely because they exhibit the characteristic(s) of ignitability, corrosivity, or both.
 - d. Wastes listed as hazardous wastes solely because they exhibit the characteristic of reactivity.
2. Prohibited wastes.
 - a. No hazardous wastes other than those identified in permit paragraph VII.B.1. above shall be incinerated in this unit.
 - b. No off-site wastes shall be incinerated.

VII.C. WASTE ANALYSIS

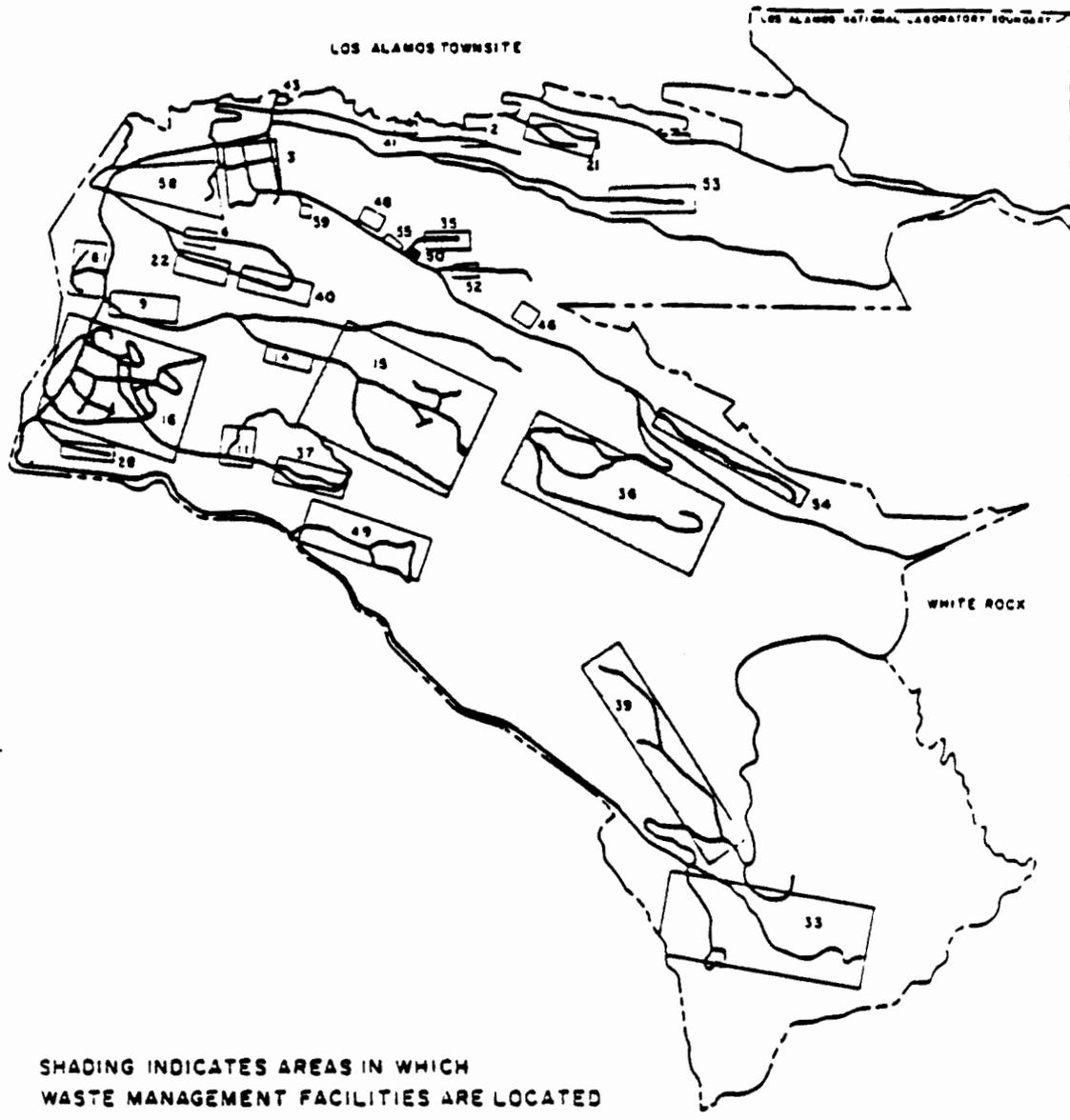
1. Waste Analysis Plan. The Permittee shall follow Permit Attachment A. where applicable.
2. Batch analysis. Each batch to be incinerated shall be inspected by a knowledgeable individual for the presence of ignitable, corrosive or reactive wastes and the absence of prohibited wastes. A signed record of each inspection shall be retained in the facility records.
3. Initial Analysis. Each new mixture of wastes not previously analyzed shall be analyzed prior to incineration for:
 - a. Heating value,
 - b. Viscosity or physical form,
 - c. Identification of any hazardous constituent,

WN
JY

MJG
11/16/87

CHECKED BY
APPROVED BY

DRAWING NUMBER 301017-02 A102



SHADING INDICATES AREAS IN WHICH WASTE MANAGEMENT FACILITIES ARE LOCATED

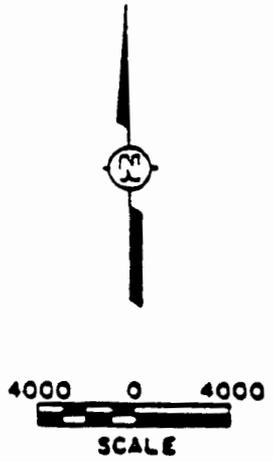


FIGURE 2
LOS ALAMOS
TECHNICAL AREAS

PREPARED FOR
LOS ALAMOS NATIONAL LABORATORY
LOS ALAMOS, NEW MEXICO

IT CORPORATION

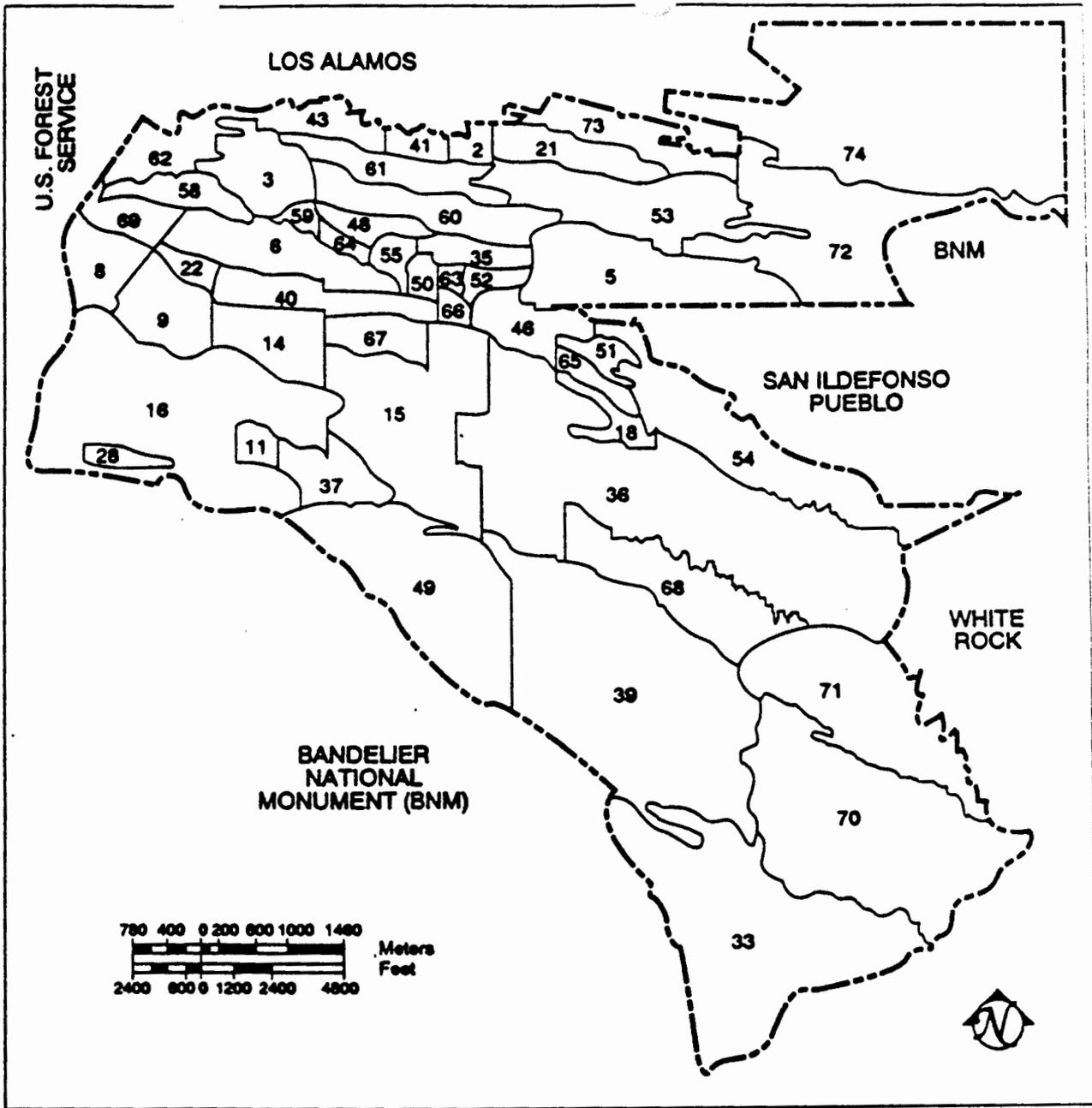


FIGURE 2
LOS ALAMOS
TECHNICAL AREAS

Permit Modification Class: 40 CFR 270.42
 Appendix I, (A.1)

PREPARED FOR
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ATTACHMENT A WASTE ANALYSIS PLAN

A.1 Hazardous waste generated by Laboratory activities can be considered as three general types: (1) wastes from processing operations, (2) wastes from research and development (R&D) activities, and (3) high explosive (HE) waste. Each of these general types has unique characteristics. Processing wastes typically are significant volumes of material that contain a very limited number of contaminants. R & D wastes, however, are typically lesser volumes of a variety of laboratory reagents, chemicals, solvents and other general laboratory waste. The composition and concentration of contaminants in a given process waste is generally uniform unless modifications to the process are made. Conversely, the waste species from R & D activities continually vary depending on the activities of the rapidly changing R & D efforts at the Laboratory. HE wastes consist of a narrow assemblage of chemicals, the concentrations of which may vary. The chemical assemblage, however, remains fairly constant.

LANL has developed procedures for the identification and segregation of hazardous wastes. When a waste is identified as hazardous, it is diverted to the appropriate method of storage, treatment or disposal based on its characteristics as determined by the Waste Analysis Plan.

A.2 Types of Waste Generated at Los Alamos

Presented below is a description of the types of wastes generated, treated, and stored at the Laboratory and those disposed of at off-site permitted facilities. The wastes are divided according to process or facility activities which generate the wastes.

A.2.1 Wastes from Basic and Applied Chemistry R & D Programs

Primary Laboratory sites for basic and applied chemistry R & D include the Chemistry and Metallurgy Research Building (TA-3-29), Radiochemistry Laboratory (TA-48), Sigma Building (TA-3-66), and the Health Research Laboratory (TA-43). Typical nonradioactive chemical wastes consist of large quantities of partly empty small containers of laboratory reagents, solvents, test samples, and other laboratory wastes. Up to several hundred waste types consisting of relatively small quantities of different acids, bases, organics, inorganics, reactive metals and other chemicals require disposal. These R & D wastes represent nearly all of the waste species included in Permit Attachment G.

A.2.2 Surface Finishing Process Wastes

The Electrochemistry Section of the MST-7 Materials Technology: Polymers and Coatings Group, located at TA-3-66, generates plating solutions containing heavy metals. Some of the wastes also contain cyanides. These are coded as toxic and reactive wastes D007, D008, D011, F007, and F009. The Print Circuit Board Shop of the MEC-10 Electronic Manufacturing and Technician Resources Group, located at TA-3-40, generates primarily acid/base wastes heavily contaminated with copper. They also generate plating solutions contaminated with lead and mercury. These wastes are coded as D002, D008, and D009, respectively. The Fabrication Section of the M-7 Detonation Systems Group, located at TA-22-91, generates a copper contaminated ferric chloride etching waste that is corrosive. It is coded D002.

A.2.3 Isotope Separation Wastes

The Isotope and Structural Chemistry Group, INC-4, generates 7N nitric and 14N sulfuric acid wastes that are hazardous because of their corrosive characteristics (D002). Based on knowledge of the waste generating processes, it has been determined that these wastes do not contain heavy metals.

ATTACHMENT A WASTE ANALYSIS PLAN

A.1 This Permit Attachment A addresses the waste analysis and waste segregation procedures implemented by Los Alamos National Laboratory for hazardous waste as defined by Section HWMR-5, Part II. Only the sampling and analytical procedures for RCRA-regulated hazardous waste are discussed here. Hazardous waste generated by Laboratory activities can be considered as three general types: (1) wastes from processing operations, (2) wastes from research and development (R&D) activities, and (3) high explosive (HE) waste. Each of these general types has unique characteristics. Processing wastes typically are significant volumes of material that contain a very limited number of contaminants. R & D wastes, however, are typically lesser volumes of a variety of laboratory reagents, chemicals, solvents and other general laboratory waste. The composition and concentration of contaminants in a given process waste is generally uniform unless modifications to the process are made. Conversely, the waste species from R & D activities continually vary depending on the activities of the rapidly changing R & D efforts at the laboratory. HE wastes consist of a narrow assemblage of chemicals, the concentrations of which may vary. The chemical assemblage, however, remains fairly constant.

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C.2.1. Internal Training

The personnel training courses emphasize the safe handling of hazardous wastes. Program instructors are trained in hazardous waste management procedures and RCRA provisions. The training program is designed to provide training commensurate with the employee's responsibilities. All employees will receive section I and II training, regardless of their duty assignment.

C.2.2. On-the-Job Training

All waste handler personnel will participate in on-the-job training programs. These programs are designed to give field demonstrations of Laboratory procedures for hazardous waste handling, inspections, and hazardous waste transportation requirements. Personnel responsible for directing on-the-job training participate in the RCRA provisions course so that they are familiar with hazardous waste management procedures as they related to RCRA.

C.2.3. External Training

In addition to internal training, selected personnel will participate in contractor-taught courses. Those personnel who will participate in the external training program training program are listed herein. These contractor-taught courses will serve to supplement the internal training program.

C.2.4. Training Coordinator

The personnel training program is directed by Dr. Thomas C. Gunderson. As Associate Division Leader for the HSE Division, Dr. Gunderson is knowledgeable about hazardous waste management facilities and practices and emergency procedures. Dr. Gunderson is responsible for coordinating the internal and external training courses and for assuring that all personnel receive the required training. The training program provides employees with training relevant to their positions within the organization. Supervisors and staff receive training appropriate to their degree of handling hazardous waste (e.g., reporting and other procedures required for compliance). For example, management responsibilities for compliance with RCRA are assigned to the HSE-7 Group Leader, who receives training in RCRA provisions. Material handlers are trained to maintain proper and safe operating procedures and to respond effectively to spills and other emergencies. Duties for each job description are matched to a LANL training course.

C.3. Emergency Response Training

The outside professionals (PAWS and the Protective Force) assist the Hazardous Waste Emergency Coordinator (HWEC) as soon as they arrive on the scene of the emergency. These people are trained in their specialties (i.e., heavy equipment operation, traffic control). PAWS personnel are also trained in personal safety. At all times during an emergency, these contractors are under the direct supervision of the HWEC and other trained Laboratory personnel. All actions taken by contractors do not perform activities other than those for which they are trained (heavy equipment operations, constructing dikes).

In order to ensure maximum protection of life and property and to mitigate the consequences of an emergency situation, it is imperative that all HSE personnel, WX

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In order to ensure maximum protection of life and property and to mitigate the consequences of an emergency situation, it is imperative that all HSE personnel, WX

RCRA JOB DESCRIPTION

TITLE: Section Leader, Chemical Waste Operations (HSE-7) — #003

A. Required Skills:

- Knowledge of State and Federal Regulations regarding hazardous materials and waste.
- Technical knowledge of problems associated with hazardous materials handling and use.
- Ability to communicate with a wide variety of personnel, internal and external to the Laboratory.
- Ability to supervise personnel in proper chemical waste management.

B. Required Education/Training:

- Minimum of bachelor's degree in chemistry/chemical engineering or an equivalent combination of experience and education.
- RCRA Provisions
- Personal Safety
- Respirator or SCBA
- Hazardous Waste Handling and Operations
 - a. Explosives/Reactivities
 - b. Acids/Bases
 - c. Organics - General
 - d. Inorganics - General
- Spill Response
- RCRA Contingency Plan
- Recordkeeping/Inspections
- On-Site/Off-Site Transportation

C. Duties:

- Oversee the daily collection, packaging, and transport activities of chemical waste technicians.
- Plan and direct treatment/disposal activities.
- Review incoming Chemical Waste Disposal Request forms and identify hazards associated with the requests.

- Interact with waste generators on waste problem solutions (such as identification of unknown waste).
- Write and update all chemical waste procedures.
- Maintain operational records for Area L and batch waste treatment system.
- Assist in on-the-job training for chemical waste handlers.
- Provide input to spill responses for hazardous material/waste as necessary.
- Evaluate overall performance of technicians and staff annually.
- Maintain awareness of changes in RCRA regulations and identify necessary improvements.
- Review and approve hazardous waste generators SOPs and relevant parameters in facility designs.
- Review training records and inspection records for completeness and identify any needs.

RCRA JOB DESCRIPTION

TITLE: Section Leader, Chemical and Mixed Waste Operations (HSE-7) - #003

A. Required Skills:

- ∅ Knowledge of State and Federal Regulations regarding hazardous and mixed materials and waste.
- ∅ Good technical knowledge of problems associated with hazardous and mixed waste/materials handling and use.
- ∅ Ability to communicate with a wide variety of personnel, internal and external to the Laboratory.
- ∅ Ability to supervise personnel in proper hazardous and mixed waste management.

B. Required Education/Training:

- ∅ Minimum of bachelor's degree in chemistry/chemical engineering or an equivalent combination of experience and education.
- ∅ RCRA Provisions
- ∅ Personnel Safety
- ∅ Respiratory Protection
- ∅ Hazardous and Mixed Waste Handling and Operations
- ∅ Spill Response
- ∅ Contingency Plan
- ∅ Recordkeeping/Inspections
- ∅ On-Site/Off-Site Transportation

C. Duties:

- ∅ Oversee the daily collection, packaging, and transport activities of chemical waste technicians.
- ∅ Plan and direct treatment/storage/disposal activities.
- ∅ Review incoming Chemical Waste Disposal Request forms and identify hazards associated with the requests.

- ∅ Interact with waste generators on waste problem solutions (such as identification of unknown waste).
- ∅ Write and update all chemical waste procedures.
- ∅ Maintain operations records for Area L.
- ∅ Assist in on-the-job training for chemical waste handlers.
- ∅ Provide input and personnel to spill responses for hazardous and mixed material/waste as necessary.
- ∅ Evaluate overall performance of technicians and staff annually.
- ∅ Maintain awareness of changes in RCRA regulations and identify necessary improvements.
- ∅ Review and approve hazardous and mixed waste generator SOPs and relevant parameters in facility designs.
- ∅ Review training records and inspection records for completeness and identify any needs.
- ∅ Provide personnel for emergency response.

RCRA JOB DESCRIPTION

TITLE: Staff Member, Chemical Waste Operations (HSE-7) — #009

A. Required Skills:

- Knowledge of State and Federal Regulations regarding hazardous materials and waste.
- Technical knowledge of problems associated with hazardous materials handling and use.
- Ability to communicate with a wide variety of personnel, internal and external to Laboratory.
- Ability to supervise personnel in proper chemical waste management.

B. Required Education/Training:

- Minimum of bachelor's degree in chemistry/chemical engineering or an equivalent combination of experience and education.
- RCRA Provisions
- Personal Safety
- Respirator or SCBA
- Hazardous Waste Handling and Operations
 - a. Explosives/Reactives
 - b. Acids/Bases
 - c. Organics - General
 - d. Inorganics - General
- Spill Response
- RCRA Contingency Plan
- Recordkeeping/Inspections
- On-Site/Off-Site Transportation

C. Duties:

- Oversee the daily collection, packaging, and transport activities of chemical waste technicians.
- Plan and direct treatment/disposal activities.
- Review incoming Chemical Waste Disposal Request forms and identify hazards associated with the requests.

- **Interact with waste generators on waste problem solutions (such as the identification of unknown waste).**
- **Write and update all chemical waste procedures.**
- **Maintain operational records for Area L and batch waste treatment system.**
- **Assist in on-the-job training for chemical waste handlers.**
- **Provide input to spill responses for hazardous materials/waste as necessary.**
- **Maintain awareness of changes in RCRA regulations and identify necessary improvements.**
- **Review and approve hazardous waste generators SOPs and relevant parameters in facility designs.**
- **Review training records and inspections records for completeness and identify any needs.**

RCRA JOB DESCRIPTION

TITLE: Staff Member, Chemical and Mixed Waste Operations (HSE-7) - #009

A. Required Skills:

- ∅ Knowledge of State and Federal Regulations regarding hazardous and mixed materials and waste.
- ∅ Technical knowledge of problems associated with hazardous and mixed materials handling and use.
- ∅ Ability to communicate with a wide variety of personnel, internal and external to the Laboratory.
- ∅ Ability to supervise personnel in proper hazardous and mixed waste management.

B. Required Education/Training:

- ∅ Minimum of bachelor's degree in chemistry/chemical engineering or an equivalent combination of experience and education.
- ∅ RCRA Provisions
- ∅ Personnel Safety
- ∅ Respiratory Protection
- ∅ Hazardous/Mixed Waste Handling and Operations
- ∅ Spill Response
- ∅ Contingency Plan
- ∅ Recordkeeping/Inspections
- ∅ On-site/Off-Site Transportation

C. Duties:

- ∅ Oversee the daily collection, packaging, and transport activities of hazardous and mixed waste technicians.
- ∅ Plan and direct treatment/storage/disposal activities.

- ∅ Review incoming Chemical Waste Disposal Request forms and identify hazards associated with the requests.
- ∅ Interact with waste generators on waste problem solutions (such as the identification of unknown waste).
- ∅ Write and update all chemical waste procedures.
- ∅ Maintain operational records for Area L.
- ∅ Assist in on-the-job training for chemical waste handlers.
- ∅ Provide input to spill and emergency responses for hazardous and mixed materials/waste as necessary.
- ∅ Maintain awareness of changes in RCRA regulations and identify necessary improvements.
- ∅ Review and approve hazardous and mixed waste generator SOPs and relevant parameters in facility designs.
- ∅ Review training records and inspections records for completeness and identify any needs.

RCRA JOB DESCRIPTION

TITLE: Chemical Technician II, III (HSE-7) — #012

A. Required Skills

- Familiarity with State and Federal Regulations regarding hazardous materials and waste.
- Good technical knowledge of problems associated with hazardous materials handling and use.
- Oral communication skills for interfacing with waste generators.

B. Required Education/Training:

- Formal chemistry classes or experience in chemical handling operations
- RCRA Provisions
- Personal Safety
- Respirator or SCBA
- Spill Response
- RCRA Contingency Plan
- Recordkeeping/Inspections
- On-Site Transportation
- Hazardous Waste Handling and Operations
 - a. Acids/Bases
 - b. Organics - General
 - c. Inorganics - General

C. Duties:

- Collect chemical waste from technical areas in Laboratory.
- Segregate and/or package waste for storage/treatment/disposal.
- Transport waste to the storage/treatment area.

- **Chemically treat any waste requiring treatment.**
- **Perform required hazardous waste facility inspections.**
- **Assist in the recordkeeping of all chemical waste activities.**
- **Assist in spill response treatment, cleanup, and disposal operations as required.**
- **Provide input to updating of operational procedures.**

RCRA JOB DESCRIPTION

TITLE: Environmental Technician (EM-7) - #012

A. Required Skills:

- ∅ Familiarity with State and Federal Regulations regarding hazardous and mixed materials and waste.
- ∅ Good technical knowledge of problems associated with hazardous and mixed waste/materials handling and use.
- ∅ Oral communication skills for interfacing with waste generators.

B. Required Education/Training:

- ∅ Formal chemistry classes or experience in chemical handling operations
- ∅ RCRA Provisions
- ∅ Personnel Safety
- ∅ Respiratory Protection
- ∅ Spill Response
- ∅ Contingency Plan
- ∅ Recordkeeping/Inspections
- ∅ On-Site Transportation
- ∅ Hazardous/Mixed Waste Handling and Operations

C. Duties:

- ∅ Collect hazardous/mixed waste from technical areas in the Laboratory.
- ∅ Segregate and/or package waste for storage/treatment/disposal.
- ∅ Transport waste to the storage/treatment area.
- ∅ Chemically treat waste requiring treatment.
- ∅ Perform required hazardous/mixed waste facility inspections.
- ∅ Assist in the recordkeeping of all hazardous and mixed waste activities.

- ∅ Assist in spill or emergency response treatment, cleanup, and waste storage operations as required.
- ∅ Provide input to updating of operational procedures.

RCRA JOB DESCRIPTION

TITLE: Emergency Responder — #038

A. Required Skills:

- Familiarity with State and Federal Regulations regarding hazardous materials and waste.
- Good technical knowledge of problems associated with hazardous chemical handling and use.
- Ability to communicate with wide variety of personnel, internal and external to Laboratory.
- Ability to supervise personnel in chemical waste emergency situation.

B. Required Education/Training:

- RCRA Provisions
- Spill Response
- Contingency Plan

C. Duties:

- To act as an emergency response coordinator in the event of a RCRA emergency situation.
- Maintain awareness of RCRA regulations with respect to local operations.

RCRA JOB DESCRIPTION

TITLE: Emergency Manager/Hazardous Material Response Team - #038

A. Required Skills:

- Ø Familiarity with State and Federal Regulations regarding hazardous and mixed materials and waste.
- Ø Good technical knowledge of problems associated with hazardous chemical handling and use.
- Ø Ability to communicate with wide variety of personnel, internal and external to Laboratory.
- Ø Ability to supervise personnel in hazardous and mixed waste emergency situation.

B. Required Education/Training:

- Ø RCRA Provisions
- Ø OSHA Provisions
- Ø Spill Response
- Ø Contingency Plan
- Ø Emergency Response

C. Duties:

- Ø Act as the Incident Commander in the event of a RCRA emergency situation.
- Ø Maintain awareness of RCRA regulations with respect to local operations.

RCRA JOB DESCRIPTION TABLE

NAME	NUMBER	TITLE	GROUP
	001	Group Leader, Waste Management	HSE-7
A. Drypolcher	002	Deputy Group Leader, Waste Management	HSE-7
A. Montoya	003	Section Leader, Chemical Waste Operations	HSE-7
J. Harper	004	Section Leader, Low Level Waste Operations	HSE-7
J. R. Buchholz	005	Section Leader, Liquid Waste Operations	HSE-7
L. C. Borduin	006	Section Leader, Technical Support Section	HSE-7
J. Vavruska	007	Lead Engineer, Technical Support Section	HSE-7
C. Warner	040	Staff Member, Technical Support Section	HSE-7
D. A. Hutchins	008	Staff Member, Technical Support Section	HSE-7
Vacancy	008	Staff Member, Technical Support Section	HSE-7
J. Fritz	009	Staff Member, Chemical Waste Operations	HSE-7
Vacancy	009	Staff Member, Chemical Waste Operations	HSE-7
Vacancy	009	Staff Member, Chemical Waste Operations	HSE-7
B. Myers	010	Staff Member, Liquid Waste Operations	HSE-7
S. Zygmunt	011	Staff Member, Technical Support	HSE-7
J. A. Mascarenas	012	Chemical Technician	HSE-7
T. S. Montoya, Supervisor	012	Chemical Technician	HSE-7
W. R. Velasquez	012	Chemical Technician	HSE-7
E. Velasquez	012	Chemical Technician	HSE-7
B. Romero	012	Chemical Technician	HSE-7
J. Gonzales	012	Chemical Technician	HSE-7
C. L. Gilley	013	Technician Liaison Specialist IV, Technical Support	HSE-7
D. Melton	014	Mechanical Technician, Technical Support	HSE-7
J. F. Rutten	014	Mechanical Technician, Technical Support	HSE-7
J. Mendez	015	Electronic Technician III, Technical Support	HSE-7

RCRA JOB DESCRIPTION TABLE CONTINUED

NAME	NUMBER	TITLE	GROUP
Vacancy	015	Electronic Technician III, Technical Support	HSE-7
L. Esquibel	016	Mechanical Technician II	HSE-7
L. Hupke	016	Mechanical Technician III	HSE-7
K. Carter	017	Experimental Equipment/Facilities Operator II/III (Area G)	HSE-7
A. Catanach	017	Experimental Equipment/Facilities Operator II/III (Area G)	HSE-7
C. Villareal	017	Experimental Equipment/Facilities Operator II/III (Area G)	HSE-7
Vacancy	017	Experimental Equipment/Facilities Operator II/III (Area G)	HSE-7
Vacancy	017	Experimental Equipment/Facilities Operator II/III (Area G)	HSE-7
D. Salazar	018	Experimental Equipment/Facilities Operator II/III (TA-50)	HSE-7
R. Reynolds	018	Experimental Equipment/Facilities Operator II/III (TA-50)	HSE-7
J. Royer	018	Experimental Equipment/Facilities Operator II/III (TA-50)	HSE-7
R. Harris	018	Experimental Equipment/Facilities Operator II/III (TA-50)	HSE-7
R. Ward	018	Experimental Equipment/Facilities Operator II/III (TA-50)	HSE-7
N. Garcia	019	Chemical Technician III/Laborer	PAWS
E. Montoya	019	Chemical Technician III/Laborer	PAWS
R. Garde	020	Section Leader, Decontamination & Decommissioning	HSE-7
M. Romero, Supervisor	021	Health Protection Technician II/III	HSE-7
M. Sanchez	021	Health Protection Technician II/III	HSE-7
K. Balo	022	Team Leader, Waste Generator Interface	HSE-7
P. Josey	022	Staff Member, Waste Generator Interface	HSE-7
Vacancy	022	Staff Member, Waste Generator Interface	HSE-7
F. M. Jackson	023	Technical Coordinator for Operations	M-DO
C. C. Bieri	041	High Explosive Technician	M-1
S. Hildner	024	Testing Technician III	M-1
C. C. Maxwell	025	Technical Administrative Specialist	M-1

RCRA JOB DESCRIPTION TABLE CONTINUED

NAME	NUMBER	TITLE	GROUP
A. D. Bonner	026	Remote Site Supervisor	M-6
D. T. Torres	027	Mechanical Technician II	M-6
W. Patterson	028	Technical Supervisor IV	M-7
S. Trujillo	029	Technical Supervisor III	M-7
L. W. Creamer	030	Group Safety Committee Chairman	M-7
C. M. Montoya	031	Safety Officer	M-8
C. M. Montoya	032	Firing Operations Supervisor	M-8
J. Maestas	033	Disposal Operations Material Technician	WX-3
S. Ortiz	033	Disposal Operations Material Technician	WX-3
J. Gallegos	033	Disposal Operations Material Technician	WX-3
K. Garcia	033	Disposal Operations Material Technician	WX-3
A. Montaño	033	Disposal Operations Material Technician	WX-3
P. Velarde	034	Disposal Operations Supervisor	WX-3
B. McCormick	035	Plant Engineering Specialist Technician IV	WX-12
B. McCormick	036	Certifying Agent	WX-12
J. Martinez	036	Certifying Agent	WX-12
D. Sharpless	037	Plant Engineering Specialist Technician IV	WX-12
J. Bacastow	038	Emergency Responder	HSE-3
W. C. Courtright	038	Emergency Responder	HSE-3
R. Goldie	038	Emergency Responder	HSE-3
P. Mahoney	038	Emergency Responder	HSE-3
C. Oliver	038	Emergency Responder	HSE-3
P. Schmidt	038	Emergency Responder	HSE-3
W. Atencio	038	Emergency Responder	HSE-5

RCRA JOB DESCRIPTION TABLE CONTINUED

NAME	NUMBER	TITLE	GROUP
F. Bolton	038	Emergency Responder	HSE-5
P. Girault	038	Emergency Responder	HSE-5
A. Hack	038	Emergency Responder	HSE-5
D. Macdonell	038	Emergency Responder	HSE-5
T. Moore	038	Emergency Responder	HSE-5
J. Robertson	038	Emergency Responder	HSE-5
G. Talley	038	Emergency Responder	HSE-5
D. Trujillo	038	Emergency Responder	HSE-5
E. Vigil	038	Emergency Responder	HSE-5
S. Vigil	038	Emergency Responder	HSE-5
... F. Weeks	038	Emergency Responder	HSE-5
L. Wheat	038	Emergency Responder	HSE-5
L. Woodrow	038	Emergency Responder	HSE-5
K. Balo	038	Emergency Responder	HSE-7
J. Buchholz	038	Emergency Responder	HSE-7
K. Carter	038	Emergency Responder	HSE-7
A. Catanach	038	Emergency Responder	HSE-7
A. Drypolcher	038	Emergency Responder	HSE-7
L. Esquibel	038	Emergency Responder	HSE-7
J. Gonzales	038	Emergency Responder	HSE-7
R. Harris	038	Emergency Responder	HSE-7
L. Hupke	038	Emergency Responder	HSE-7
..	038	Emergency Responder	HSE-7
J. Mascarenas	038	Emergency Responder	HSE-7

RCRA JOB DESCRIPTION TABLE CONTINUED

NAME	NUMBER	TITLE	GROUP
A. Montoya	038	Emergency Responder	HSE-7
T. S. Montoya	038	Emergency Responder	HSE-7
W. D. Moss	038	Emergency Responder	HSE-7
B. Myers	038	Emergency Responder	HSE-7
R. Reynolds	038	Emergency Responder	HSE-7
B. Romero	038	Emergency Responder	HSE-7
G. Royer	038	Emergency Responder	HSE-7
D. F. Salazar	038	Emergency Responder	HSE-7
W. M. Sanders	038	Emergency Responder	HSE-7
D. Vance	038	Emergency Responder	HSE-7
L. Velasquez	038	Emergency Responder	HSE-7
W. R. Velasquez	038	Emergency Responder	HSE-7
D. L. Volz	038	Emergency Responder	HSE-7
R. Ward	038	Emergency Responder	HSE-7
L. D. Williams	038	Emergency Responder	HSE-7
T. Buhl	038	Emergency Responder	HSE-8
B. Purtymun	038	Emergency Responder	HSE-8
L. Soholt	038	Emergency Responder	HSE-8
D. Van Etten	038	Emergency Responder	HSE-8
B. McCormick	038	Emergency Responder	WX-12
J. F. Griffin	038	Emergency Responder	EM
J. S. Griffiths	038	Emergency Responder	EM
Z. E. Macbain	038	Emergency Responder	EM
D. K. Winston	038	Emergency Responder	EM

RCRA JOB DESCRIPTION TABLE CONTINUED

NAME	NUMBER	TITLE	GROUP
M. Alexander	038	Emergency Responder	PAWS
M. Archuleta	038	Emergency Responder	PAWS
R. Atencio	038	Emergency Responder	PAWS
M. Bailey	038	Emergency Responder	PAWS
C. Barnett	038	Supervisor/Emergency Responder	PAWS
C. Chavez	038	Emergency Responder	PAWS
W. Chroninger	038	Emergency Responder	ENG-6
J. Cordova	038	Emergency Responder	PAWS
R. Danforth	038	Emergency Responder	PAWS
R. Defilipo	038	Emergency Responder	PAWS
r. J. Fitzgibbon	038	Supervisor/Emergency Responder	PAWS
N. Garcia	038	Emergency Responder	PAWS
S. Garcia	038	Emergency Responder	PAWS
D. Gonzales	038	Emergency Responder	PAWS
J. Graham	038	Emergency Responder	PAWS
G. Hillman	038	Emergency Responder	PAWS
T. Holm-Hansen	038	Supervisor/Emergency Responder	PAWS
A. Jackson	038	Emergency Responder	PAWS
J. Lopez	038	Emergency Responder	PAWS
B. Manzanares	038	Emergency Responder	PAWS
R. Martinez	038	Emergency Responder	PAWS
S. G. Martinez	038	Emergency Responder	PAWS
W. Meloy	038	Emergency Responder	PAWS
J. Merhege	038	Supervisor/Emergency Responder	PAWS

RCRA JOB DESCRIPTION TABLE CONTINUED

NAME	NUMBER	TITLE	GROUP
E. Montoya	038	Emergency Responder	PAWS
T. Montoya	038	Emergency Responder	PAWS
R. Ramsey	038	Emergency Responder	PAWS
A. Rodriquez	038	Emergency Responder	PAWS
M. Strosinski	038	Emergency Responder	PAWS
M. Talley	038	Emergency Responder	PAWS
S. Trujillo	038	Emergency Responder	PAWS
S. Alarid	038	Emergency Responder	DOE-FD
D. S. Archuleta	038	Emergency Responder	DOE-FD
H. V. Archuleta	038	Emergency Responder	DOE-FD
J. W. Boyet	038	Emergency Responder	DOE-FD
S. Branch	038	Emergency Responder	DOE-FD
J. Casaus	038	Emergency Responder	DOE-FD
A. C de Baca	038	Emergency Responder	DOE-FD
C. P. Chacon	038	Emergency Responder	DOE-FD
J. Chacon	038	Emergency Responder	DOE-FD
R. L. Chavez	038	Emergency Responder	DOE-FD
S. M. Coburn	038	Emergency Responder	DOE-FD
D. Davis	038	Emergency Responder	DOE-FD
J. S. Esparza	038	Emergency Responder	DOE-FD
D. E. Espinosa	038	Emergency Responder	DOE-FD
L. Espinosa	038	Emergency Responder	DOE-FD
▯ Esquibel	038	Emergency Responder	DOE-FD
R. Farris	038	Emergency Responder	DOE-FD

RCRA JOB DESCRIPTION TABLE CONTINUED

NAME	NUMBER	TITLE	GROUP
J. Fernandez	038	Emergency Responder	DOE-FD
B. R. Fresques	038	Emergency Responder	DOE-FD
C. Fresquez	038	Emergency Responder	DOE-FD
C. A. Gallegos	038	Emergency Responder	DOE-FD
M. Gallegos	038	Emergency Responder	DOE-FD
G. Garcia	038	Emergency Responder	DOE-FD
J. I. Garcia	038	Emergency Responder	DOE-FD
P. Garcia	038	Emergency Responder	DOE-FD
P. C. Garrison	038	Emergency Responder	DOE-FD
A. E. Giron	038	Emergency Responder	DOE-FD
... Goombi	038	Emergency Responder	DOE-FD
A. Gutierrez	038	Emergency Responder	DOE-FD
A. Harrand	038	Emergency Responder	DOE-FD
T. Heineman	038	Emergency Responder	DOE-FD
C. Hernandez	038	Emergency Responder	DOE-FD
L. D. Herrera	038	Emergency Responder	DOE-FD
P. R. Herrera	038	Emergency Responder	DOE-FD
M. V. Holley	038	Emergency Responder	DOE-FD
E. Kain	038	Emergency Responder	DOE-FD
J. C. Leal	038	Emergency Responder	DOE-FD
L. B. Lopez	038	Emergency Responder	DOE-FD
M. Lopez	038	Emergency Responder	DOE-FD
P. M. Lopez	038	Emergency Responder	DOE-FD
A. E. Lucero	038	Emergency Responder	DOE-FD

RCRA JOB DESCRIPTION TABLE CONTINUED

NAME	NUMBER	TITLE	GROUP
J. P. Lujan	038	Emergency Responder	DOE-FD
M. R. Lujan	038	Emergency Responder	DOE-FD
P. D. Lujan	038	Emergency Responder	DOE-FD
C. A. Lury	038	Emergency Responder	DOE-FD
J. H. Maestas	038	Emergency Responder	DOE-FD
J. O. Marquez	038	Emergency Responder	DOE-FD
A. B. Martinez	038	Emergency Responder	DOE-FD
A. J. Martinez	038	Emergency Responder	DOE-FD
E. Martinez	038	Emergency Responder	DOE-FD
E. W. Martinez	038	Emergency Responder	DOE-FD
J. Martinez	038	Emergency Responder	DOE-FD
R. A. Martinez	038	Emergency Responder	DOE-FD
R. L. Martinez	038	Emergency Responder	DOE-FD
R. R. Martinez	038	Emergency Responder	DOE-FD
R. C. Medina	038	Emergency Responder	DOE-FD
H. Mendez	038	Emergency Responder	DOE-FD
M. P. Montalvo	038	Emergency Responder	DOE-FD
T. N. D. Montoya	038	Emergency Responder	DOE-FD
P. Muller	038	Emergency Responder	DOE-FD
G. Naranjo	038	Emergency Responder	DOE-FD
J. P. Naranjo	038	Emergency Responder	DOE-FD
P. Neff	038	Emergency Responder	DOE-FD
D. T. Norris	038	Emergency Responder	DOE-FD
L. L. Norris	038	Emergency Responder	DOE-FD

RCRA JOB DESCRIPTION TABLE CONTINUED

NAME	NUMBER	TITLE	GROUP
S. Pollock	038	Emergency Responder	DOE-FD
M. L. Pullium	038	Emergency Responder	DOE-FD
J. L. Quintana	038	Emergency Responder	DOE-FD
R. Quintana	038	Emergency Responder	DOE-FD
J. Risley	038	Emergency Responder	DOE-FD
J. Rodarte	038	Emergency Responder	DOE-FD
Ed Rodriguez	038	Emergency Responder	DOE-FD
Ed Romero	038	Emergency Responder	DOE-FD
H. P. Romero	038	Emergency Responder	DOE-FD
P. A. Romero	038	Emergency Responder	DOE-FD
J. E. Roybal	038	Emergency Responder	DOE-FD
D. F. Roybal	038	Emergency Responder	DOE-FD
R. J. Roybal	038	Emergency Responder	DOE-FD
P. A. Sanchez	038	Emergency Responder	DOE-FD
G. Sandoval	038	Emergency Responder	DOE-FD
M. L. Serrano	038	Emergency Responder	DOE-FD
M. J. Sylvester	038	Emergency Responder	DOE-FD
J. Tapia	038	Emergency Responder	DOE-FD
P. J. Tapia	038	Emergency Responder	DOE-FD
B. F. Trujillo	038	Emergency Responder	DOE-FD
R. S. Velasquez	038	Emergency Responder	DOE-FD
D. E. Vigil	038	Emergency Responder	DOE-FD
J. Vigil	038	Emergency Responder	DOE-FD
M. Vigil (Capt.)	038	Emergency Responder	DOE-FD

RCRA JOB DESCRIPTION TABLE CONTINUED

NAME	NUMBER	TITLE	GROUP
M. Vigil	038	Emergency Responder	DOE-FD
N E. Vigil	038	Emergency Responder	DOE-FD
N. K. Vigil	038	Emergency Responder	DOE-FD
F. Jackson	039	Chemical Waste Coordinator	M-DO
M. Vigil	039	Chemical Waste Coordinator	M-1
C. Maxwell	039	Chemical Waste Coordinator	M-1
D. Griechen	039	Chemical Waste Coordinator	M-4
B. Olinger	039	Chemical Waste Coordinator	M-6
B. Powell	039	Chemical Waste Coordinator	M-7
Montoya	039	Chemical Waste Coordinator	M-8
R. Rabie	039	Chemical Waste Coordinator	M-9
M. Hollen	039	Chemical Waste Coordinator	MP-DO
D. Cochran	039	Chemical Waste Coordinator	MP-DO
J. Kleczka	039	Chemical Waste Coordinator	C-1
C. Blackwell	039	Chemical Waste Coordinator	CLS-DO
J. Dahlby	039	Chemical Waste Coordinator	CLS-1
M. Hoffbauer	039	Chemical Waste Coordinator	CLS-2
C. Sonntag	039	Chemical Waste Coordinator	CLS-3
W. Beattie	039	Chemical Waste Coordinator	CLS-4
K. Hosack	039	Chemical Waste Coordinator	CLS-5
D. Little	039	Chemical Waste Coordinator	CLS-6
J. Umphres	039	Chemical Waste Coordinator	CLS-7
Cutler	039	Chemical Waste Coordinator	CLS-8
J. Hansen	039	Chemical Waste Coordinator	N-DO

RCRA JOB DESCRIPTION TABLE CONTINUED

NAME	NUMBER	TITLE	GROUP
M. Mariner (Alt)	039	Chemical Waste Coordinator	N-DO
J. Martinez	039	Chemical Waste Coordinator	N-2
G. Weber	039	Chemical Waste Coordinator	IS-DOT
J. Halladay	039	Chemical Waste Coordinator	IS-9
L. Lucero	039	Chemical Waste Coordinator	IS-9
E. Salazar	039	Chemical Waste Coordinator	IS-9
O. Juveland	039	Chemical Waste Coordinator	IS-12
A. Dyson (Alt)	039	Chemical Waste Coordinator	IS-12
F. Brady	039	Chemical Waste Coordinator	MAT-14
P. Valerio (Alt)	039	Chemical Waste Coordinator	MAT-14
C. King	039	Chemical Waste Coordinator	P-DO
K. Joy	039	Chemical Waste Coordinator	ESS-DO
S. Helmick	039	Chemical Waste Coordinator	INC-DO
J. FitzPatrick	039	Chemical Waste Coordinator	INC-4
S. Kinkead	039	Chemical Waste Coordinator	INC-4
C. Longmire	039	Chemical Waste Coordinator	INC-11
M. Roybal (Alt)	039	Chemical Waste Coordinator	INC-11
F. Bolton	039	Chemical Waste Coordinator	MEC-DO
M. Lujan	039	Chemical Waste Coordinator	MEC-10
D. Heimbach	039	Chemical Waste Coordinator	IT-DO
C. Holman	039	Chemical Waste Coordinator	IT-6
R. Meade	039	Chemical Waste Coordinator	IT-7
N. Bowler	039	Chemical Waste Coordinator	IT-7
J. Martinez	039	Chemical Waste Coordinator	IT-7

RCRA JOB DESCRIPTION TABLE CONTINUED

NAME	NUMBER	TITLE	GROUP
D. Green	039	Chemical Waste Coordinator	HSE-1
D. Volz	039	Chemical Waste Coordinator	HSE-7
M. Phillips	039	Chemical Waste Coordinator	HSE-9
D. Engstrom	039	Chemical Waste Coordinator	J-6
W. Bradley	039	Chemical Waste Coordinator	WX-DO
	039	Chemical Waste Coordinator	WX-3
W. May	039	Chemical Waste Coordinator	WX-3
M. Barr	039	Chemical Waste Coordinator	WX-3
R. Larson	039	Chemical Waste Coordinator	WX-5
C. Radosevich	039	Chemical Waste Coordinator	MST-3
W. Gibson	039	Chemical Waste Coordinator	MST-5
A. Herrera	039	Chemical Waste Coordinator	MST-5
J. Mitchell	039	Chemical Waste Coordinator	MST-4 / 6
J. Clements	039	Chemical Waste Coordinator	MST-7
R. Hermes	039	Chemical Waste Coordinator	MST-7
A. Hoyt	039	Chemical Waste Coordinator	MST-7
C. Foxx	039	Chemical Waste Coordinator	MST-12
D. Shapland	039	Chemical Waste Coordinator	MST-14
D. Shapland	039	Chemical Waste Coordinator	MST-DO
J. Valerio	039	Chemical Waste Coordinator	MEE-11
C. King	039	Chemical Waste Coordinator	LANCE/P
T. Holm-Hansen	039	Chemical Waste Coordinator	PAWS
D. Randolph	039	Chemical Waste Coordinator	CRMO

NAME	NUMBER	RCRA JOB DESCRIPTION		GROUP
			TITLE	
A. Drypolcher	001		Group Leader, Waste Management	EM-7
R. Garde	002		Deputy Group Leader, Waste Management	EM-7
A. Gustavsson	003		Section Leader, Chemical and Mixed Waste Operations	EM-7
J. Harper	004		Section Leader, Low-Level Waste Operations	EM-7
S. Hanson	005		Acting Section Leader, Liquid Waste Operations	EM-7
S. Zygmunt	006		Section Leader, Technical Support Section	EM-7
Vacant	008		Staff Member, Technical Support Section	EM-7
A. Montoya	009		Staff Member, Chemical and Mixed Waste Operations	EM-7
E. Lopez	009		Staff Member, Chemical and Mixed Waste Operations	EM-7
F. Vigil	009		Staff Member, Chemical and Mixed Waste Operations	EM-7
N. Sauer	009		Staff Member, Chemical and Mixed Waste Operations	EM-7
J. Kelly	009		Staff Member, Chemical and Mixed Waste Operations	EM-7
W. R. Velasquez	012		Environmental Technican	EM-7
E. Velasquez	012		Environmental Technican	EM-7
B. Romero	012		Environmental Technican	EM-7
J. Armijo	012		Environmental Technican	EM-7
M. Martinez	012		Environmental Technican	EM-7
S. Martinez	012		Environmental Technican	EM-7
T. Martinez	012		Environmental Technican	EM-7
J. Gonzales	012		Environmental Technican	EM-7
L. Esquibel	012		Environmental Technican	EM-7
L. Hupke	012		Environmental Technican	EM-7
D. Melton	014		Mechanical Technician, Technical Support	EM-7
R. Powers	014		Mechanical Technician, Technical Support	EM-7
J. F. Rutten	014		Mechanical Technician, Technical Support	EM-7
J. Mendez	015		Electronic Technician III, Technical Support	EM-7
Vacancy	015		Electronic Technician III, Technical Support	EM-7

RCRA JOB DESCRIPTION, CONTINUED

NAME	NUMBER	TITLE	GROUP
C. Villareal	017	Experimental Equipment/Facilities Operator II/III (Area G)	EM-7
R. Roybal	017	Experimental Equipment/Facilities Operator II/III (Area G)	EM-7
R. Spencer	017	Experimental Equipment/Facilities Operator II/III (Area G)	EM-7
B. Smith	017	Experimental Equipment/Facilities Operator II/III (Area G)	EM-7
M. Martinez	017	Experimental Equipment/Facilities Operator II/III (Area G)	EM-7
D. Moss	018	Experimental Equipment/Facilities Operator II/III (TA-50)	EM-7
D. Salazar	018	Experimental Equipment/Facilities Operator II/III (TA-50)	EM-7
R. Reynolds	018	Experimental Equipment/Facilities Operator II/III (TA-50)	EM-7
G. Royer	018	Experimental Equipment/Facilities Operator II/III (TA-50)	EM-7
E. Montoya	019	Chemical Technician III/Laborer	JCI
N. Garcia	019	Chemical Technician III/Laborer	JCI
J. Martinez	019	Chemical Technician III/Laborer	JCI
D. Bryant	019	Chemical Technician III/Laborer	JCI
Vacant	020	Section Leader, Decontamination and Decommissioning	EM-7
M. Romero, Supervisor	021	Health Protection Technician II/III	EM-7
M. Sanchez	021	Health Protection Technician II/III	EM-7
Vacancy	022	Staff Member, Waste Generator Interface	EM-7
F. M. Jackson	023	Technical Coordinator for Operations	M-DO
S. Hildner	024	Testing Technician III	M-1
C. C. Maxwell	025	Technical Administrative Specialist	M-1
A.D. Bonner	026	Remote Site Supervisor	M-6
D.T. Torres	027	Mechanical Technician II	M-6
W. Patterson	028	Technical Supervisor IV	M-7
S. Trujillo	029	Technical Supervisor III	M-7
L.W. Creamer	030	Group Safety Committee Chairman	M-7
C.M. Montoya	031	Safety Officer	M-8
C.M. Montoya	032	Firing Operations Supervisor	M-8
J. Maestas	033	Disposal Operations Materials Technician	WX-3
S. Ortiz	033	Disposal Operations Materials Technician	WX-3
Permit Modification Class: 40 CFR 270.42, Appendix I, (A.1) NM0890010515-1			C-56

RCRA JOB DESCRIPTION, CONTINUED

NAME	NUMBER	TITLE	GROUP
J. Gallegos	033	Disposal Operations Materials Technician	WX-3
R. Garcia	033	Disposal Operations Materials Technician	WX-3
A. Montano	033	Disposal Operations Materials Technician	WX-3
P. Velarde	034	Disposal Operations Materials Technician	WX-3
B. McCormick	035	Plant Engineering Specialist Technician IV	WX-12
B. McCormick	036	Certifying Agent	WX-12
J. Martinez	036	Certifying Agent	WX-12
D. Sharpless	037	Plant Engineering Specialist Technician IV	WX-12
Z. Macbain	038	Emergency Manager/HAZ MAT Team	EMO
F. Pearce	038	Emergency Manager/HAZ MAT Team	EMO
J. Griffiths	038	Emergency Manager/HAZ MAT Team	EMO
D. Winston	038	Emergency Manager/HAZ MAT Team	EMO
D. Seitz	038	Emergency Manager/HAZ MAT Team	EMO
G. Bequett	038	Emergency Manager/HAZ MAT Team	EMO
T. Hower	038	Emergency Manager/HAZ MAT Team	HS-5
D. Volz	038	Emergency Manager/HAZ MAT Team	HS-5
T. Montoya	038	Emergency Manager/HAZ MAT Team	HS-5

RCRA JOB DESCRIPTION, CONTINUED

NAME	NUMBER	TITLE	GROUP
M. Barr	039	Waste Management Coordinator	WX-3
W. Bradley	039	Waste Management Coordinator	WX-DO
M. Fuehrer	039	Waste Management Coordinator	WX-5
K. Griechen	039	Waste Management Coordinator	WX-3
J. Klein	039	Waste Management Coordinator	X-DO
R. Larson	039	Waste Management Coordinator	WX-5
W. May	039	Waste Management Coordinator	WX-3
B. McCormick	039	Waste Management Coordinator	WX-12
C. Sandoval	039	Waste Management Coordinator	WX-3
D. Moss	039	Waste Management Coordinator	EM-7
D. Williams	039	Waste Management Coordinator	EM-7
C. Bieri	041	High Explosive Technician	M-1

**HEALTH, SAFETY, AND ENVIRONMENT DIVISION
LOS ALAMOS NATIONAL LABORATORY**

March 21, 1989

Total Staff: 472.80

SM: 186.52

Support: 286.28

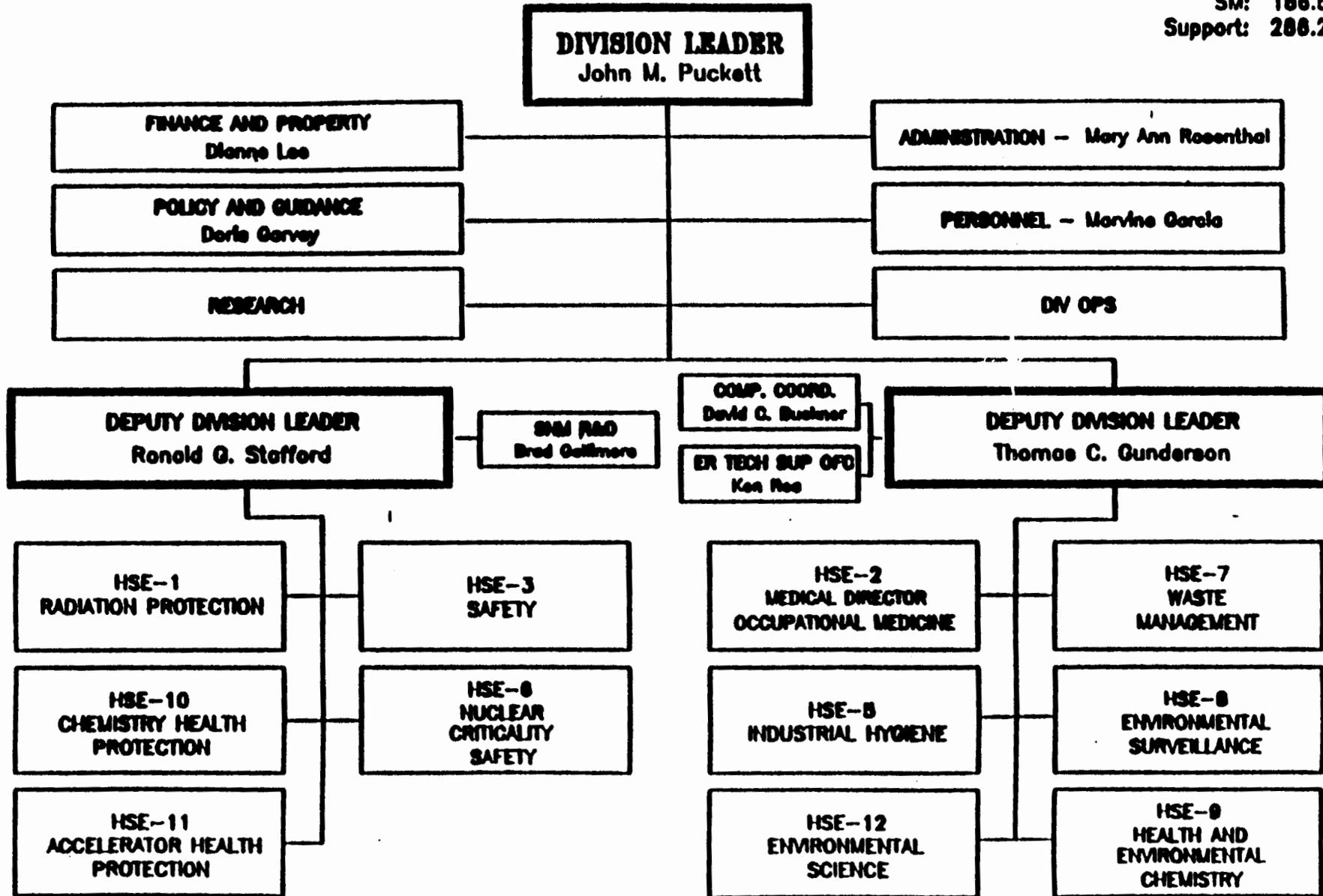
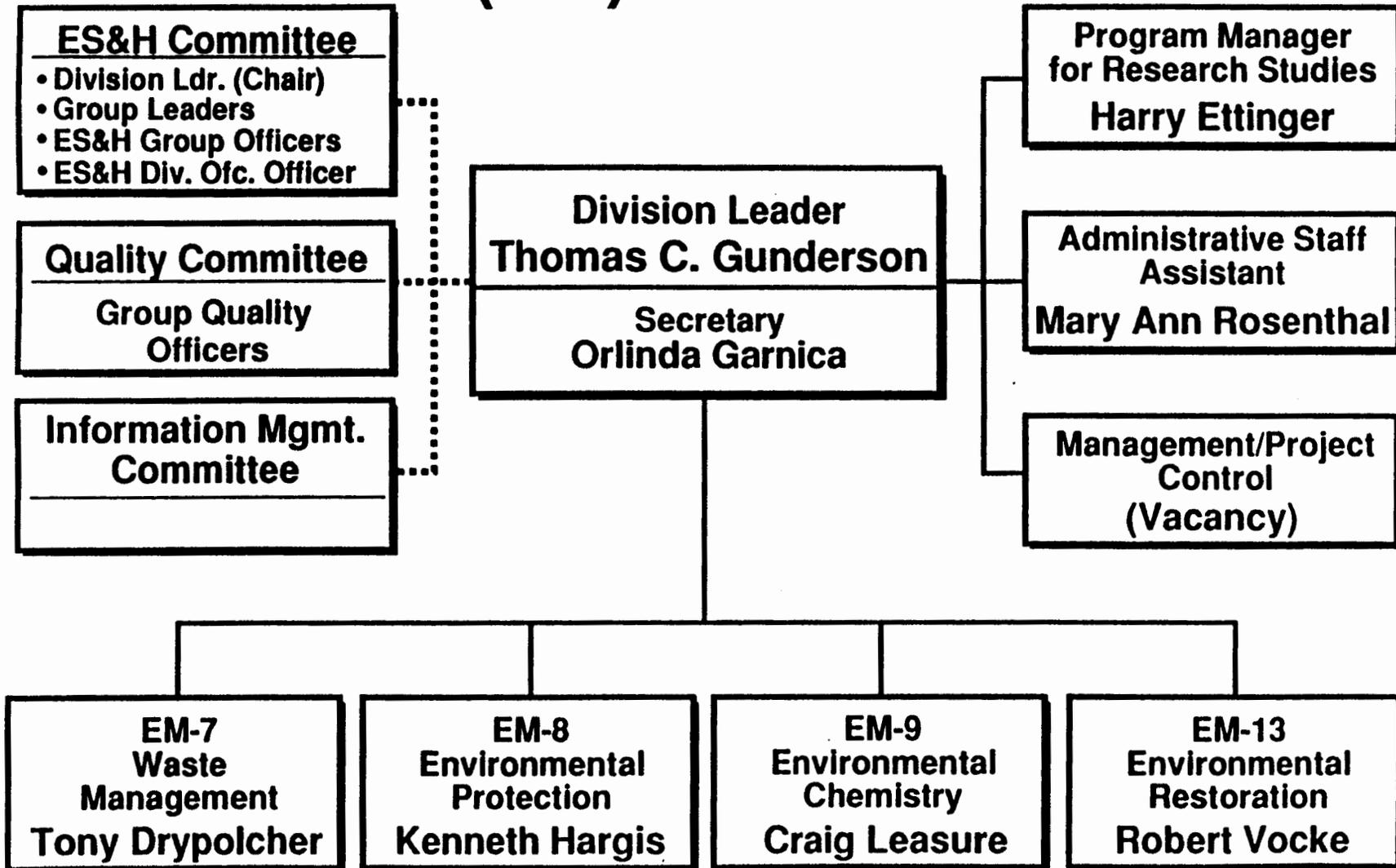


Figure C-2 Health, Safety, and Environment Division Organization Chart

NM0890010515-1

Environmental Management (EM) Division



Environmental Management Division

Los Alamos

Figure C-2 Environmental Management Organization Chart
Permit Modification Class: 40 CFR 270.42, Appendix I, (A.1)
NM0890010515-1

D.2 HAZARDOUS WASTE EMERGENCY RESPONSE RESOURCES

The Laboratory maintains its own response resources to handle emergencies. Interaction with outside agencies is limited for security reasons and because it is impractical to train these agencies to cope with the technical diversity of the Laboratory's operations such that they could safely contribute in an emergency. Response resources include personnel, emergency equipment, and communication systems.

D.2.1 Response Groups

The emergency response groups available to the Laboratory include the Fire Department, the contracted services of the Mason Hanger Protective Force (security), Pan Am World Services (PAWS) (maintenance), Los Alamos Medical Center, internal Laboratory services including medical facilities, and minor external assistance from the Los Alamos County Police. The services offered by these response groups are itemized on Table D-2 and discussed briefly in the following. Each of the emergency response groups retains a current copy of the HWF Contingency Plan.

D.2.1.1 Medical Facilities

The Laboratory maintains its own medical facility, HSE-2 Occupational Medicine, to handle job-related injuries and to monitor employee health. Medical facilities include a staff of six physicians, two physician assistants, ten nurses, six x-ray technicians, and two laboratory technicians.

HSE-2 is supported by HSE-5, Industrial Hygiene. HSE-5 can provide exposure and treatment information via telephone access to Chemtrec and the National Library of Medicine, and via computer access to TOXLINE, CHEMLINE, and the Toxicity Data Bank.

Those cases which cannot be handled at HSE-2 would be forwarded to the Los Alamos County Hospital, where the Laboratory maintains a fully equipped decontamination room. The HSE-2 staff meets with the hospital's emergency staff monthly to go over procedures. In the event that a case is sent to the hospital, staff from HSE-2 provide assistance at the hospital.

D.2.1.2 HSE-3 Safety

HSE-3 reviews and approves fire protection procedures. They may assist in process shutdown and evacuation.

D.2.1.3 HSE-5 Industrial Hygiene

In addition to medical support, HSE-5 provides site field testing to determine the nature (nonradiological) and extent of contamination, provide information on correct handling of chemicals, and specify protective clothing and equipment.

D.2.1.4 HSE-7 Waste Management

Provides cleanup operations and proper treatment and disposal of hazardous materials and supervises emergency response operations. Since HSE-7 normally handles hazardous waste, the group is highly trained and equipped. This group represents the nucleus of the hazardous waste emergency response.

D.2.1.5 HSE-8 Environmental Surveillance

Provides field surveys of soils, water, air and biota to determine environmental effects of exposure. The group includes expertise in geohydrology and meteorology.

D.2.1.6 Fire Department

The Fire Department provides fire protection for the Laboratory as well as the communities of Los Alamos and White Rock. The department includes 98 personnel.

In the case of an emergency within the Laboratory, the Fire Department puts itself under the direction of the Laboratory response team.

D.2 HAZARDOUS WASTE EMERGENCY RESPONSE RESOURCES

The Laboratory maintains its own response resources to handle emergencies. Interaction with outside agencies is limited for security reasons and because it is impractical to train these agencies to cope with the technical diversity of the Laboratory's operations such as that they could safely contribute in an emergency. Response resources include personnel, emergency equipment, and communication systems.

D.2.1 Response Groups

The emergency response groups available to the Laboratory include the Fire Department, the contracted services of the Mason Hanger Protective Force (security), Pan Am World Services (PAWS) (maintenance). Los Alamos Medical Center, Internal Laboratory services include medical facilities, and minor external assistance from the Los Alamos County Police. The services offered by these response groups are itemized on Table D-2 and discussed briefly in the following. Each of the emergency response groups retains a current copy of the HWF Contingency Plan.

D.2.1.1 Medical Facilities

~~The Laboratory maintains its own medical facility, HSE-2 Occupational Medicine, to handle job-related injuries, and to monitor employee health. Medical facilities include a staff of six physicians, two assistants, ten nurses, six x-ray technicians, and two laboratory technicians.~~

The Laboratory maintains its own medical facilities, HS-2 Occupational Medicine, to handle job-related injuries, and to monitor employee health during normal business hours. Medical facilities include staff physicians, physicians assistants, nurses, X-ray technicians, and laboratory technicians.

HSE-2 is supported by HSE-5, Industrial Hygiene. HSE-5 can provide exposure and treatment information via telephone access to Chemtrec and the National Library of Medicine, and via computer to TOXLINE, CHEMLINE, and the Toxicity Data Bank.

Those cases which cannot be handled by HSE-2 would be forwarded to the Los Alamos County Hospital, where the Laboratory maintains a fully equipped decontamination room. The HSE-2 staff meets with the hospital's emergency staff monthly to go over procedures. In the event that a case is sent to the hospital, staff from HSE-2 provide assistance at the hospital.

D.2.1.2 HSE-3 Safety

HSE-3 reviews and approves fire protection procedures. They may assist in process shutdown and evacuation.

D.2.1.3 HSE-5 Industrial Hygiene

In addition to medical support, HSE-5 provides site field testing to determine the nature (nonradiological) and extent of contamination, provide information on correct handling of chemical, and specify protective clothing and equipment, and provides hazardous material response team personnel.

D.2.1.4 HSE-7 Waste Management

~~Provide cleanup operations and proper treatment and disposal of hazardous materials, and supervises emergency response operations. Since HSE-7 normally handle hazardous waste, the group is highly trained and equipped. This group represents the nucleus of the hazardous waste emergency response.~~

D.2.1.5 HSE-8 Environmental Surveillance

Provides regulatory compliance support and conducts field survey of soil, water, air and biota to determine environmental effects of exposure. The group includes expertise in geohydrology and meteorology.

D.2.1.6 Fire Department

The Fire Department provides fire protection for the Laboratory as well as the communities of Los Alamos and White Rock. The department includes 98 personnel.

In the case of an emergency within the Laboratory, the Fire Department puts itself under the direction of the Laboratory response team.

The Fire Department personnel make regular tours of the Laboratory facilities to detect and discuss hazards associated with individual facilities and are instructed in hazardous material handling and emergency procedures. They are aware of the hazardous waste practices at the Laboratory, and are well equipped to handle any credible emergency situation.

D.2.1.7 Mason & Hanger Protective Force (Pro-Force)

The Pro-Force consists of more than 300 personnel who are responsible for Laboratory security. The security force is provided by Mason & Hanger, Silas Mason, under contract to the Laboratory.

During an emergency, the Pro-Force activities include maintenance of security, direction of traffic within the Laboratory, and control of access to the emergency site. The Pro-Force maintains the necessary equipment to perform these functions such as crowd control equipment, patrol cars, etc.

D.2.1.8 PAWS

PAWS provides a maintenance support force on contract to the Laboratory. This support force is under the Laboratory's direction in an emergency. PAWS conducts inspections of Laboratory equipment, maintains equipment, and participates in emergency cleanup.

D.2.1.9 Los Alamos County Police

In keeping with the principle of handling emergencies internally, the Los Alamos County Police have only a minimal interaction with the Laboratory in an emergency. That interaction is limited to traffic control on DOE roads with public access. The limits of interaction are included in a signed agreement, a copy of which is included as an attachment to this document. There are no agreements with other agencies.

D.2.1.10 WX and M Division Personnel

Personnel in WX and M Divisions are trained to safely handle and dispose of highly reactive materials (High Explosives). Any spill or uncontrolled release of material at the burning grounds (TA-14 and -16) or the detonation pads (TAs 14, 15, 36, and 39) will be cleaned up by personnel from these divisions. The Fire Department may be called to respond if a burn or detonation results in an uncontrolled fire.

D.2.1.11 Operational Management Group I (Emergency Management)

This group provides a 24-hour duty officer, called the Laboratory Emergency Duty Officer (LEDO), to respond to all credible emergencies, including hazardous materials releases. The LEDO is the On-Scene Commander (OSC) for all emergencies, including releases of hazardous materials when an On-Scene Control Group (OSCG) is formed. Emergency Management maintains the Emergency Operations Center (EOC) in operational ready status should the center be required.

The Fire Department personnel makes regular tours of the Laboratory facilities to detect and discuss hazards associated with individual facilities and are instructed in hazardous material handling and emergency procedures. They are aware of the hazardous waste practices at the Laboratory, and are well equipped to handle any credible emergency situation.

D.2.1.7 Mason & Hanger Protective Force (Pro-Force)

The Pro-Force consists of more than 300 personnel who are responsible for Laboratory security. The security force is provided by Mason & Hanger, Silas Mason, under contract to the Laboratory.

During an emergency the Pro-Force activities include maintenance of security, direction of traffic within the Laboratory, and control of access to the emergency site. The Pro-Force maintains the necessary equipment to perform these functions such as crowd control equipment, patrol cars, etc.

D.2.1.8 PAWS

PAWS provides a maintenance support force on contract to the Laboratory. This support force is under the Laboratory's direction in an emergency. PAWS conducts inspections of Laboratory equipment, maintains equipment, and participates in emergency cleanup.

D.2.1.9 Los Alamos County Police

In keeping with the principle of handling emergencies internally, the Los Alamos County Police have only minimal interaction with the Laboratory in an emergency. That interaction is limited to traffic control on DOE roads with public access. The limits of interaction are included in a signed agreement, a copy of which is included as an attachment to this document. There are no agreements with other agencies.

D.2.1.10 WX and M Division Personnel

Personnel in WX and M Divisions are trained to safely handle and dispose of highly reactive materials (High Explosives). Any spill or uncontrolled release of material at the burning grounds (TA-14 and -16) or the detonation pads (TAs 14, 15, 36, and 39) will be cleaned up by personnel from these divisions. The Fire Departments may be called to respond if a burn or detonation results in an uncontrolled fire.

D.2.1.11 Operational Management Group I (Emergency Management) Emergency Management Office

~~This group provides a 24-hour duty officer, called the Laboratory Emergency Duty officer (LEDO), to respond to all credible emergencies, including hazardous materials releases. The LEDO is the On-Scene Commander (OSC) for all emergencies, including releases of hazardous materials when an On-Scene Control Group (OSCG) is formed. Emergency Management maintains the Emergency Operations Center (EOC) in operational ready status should the center be required.~~

This group provides a 24-hour duty officer, called the Emergency Manager, to respond to all credible emergencies, including hazardous materials releases. The Emergency Manager is the Incident Commander for all emergencies, including releases of hazardous materials when an Incident Control Group (ICG) is formed. The Emergency Management Office maintains the Emergency Operations Center (EOC) in operational ready status should the center be required.

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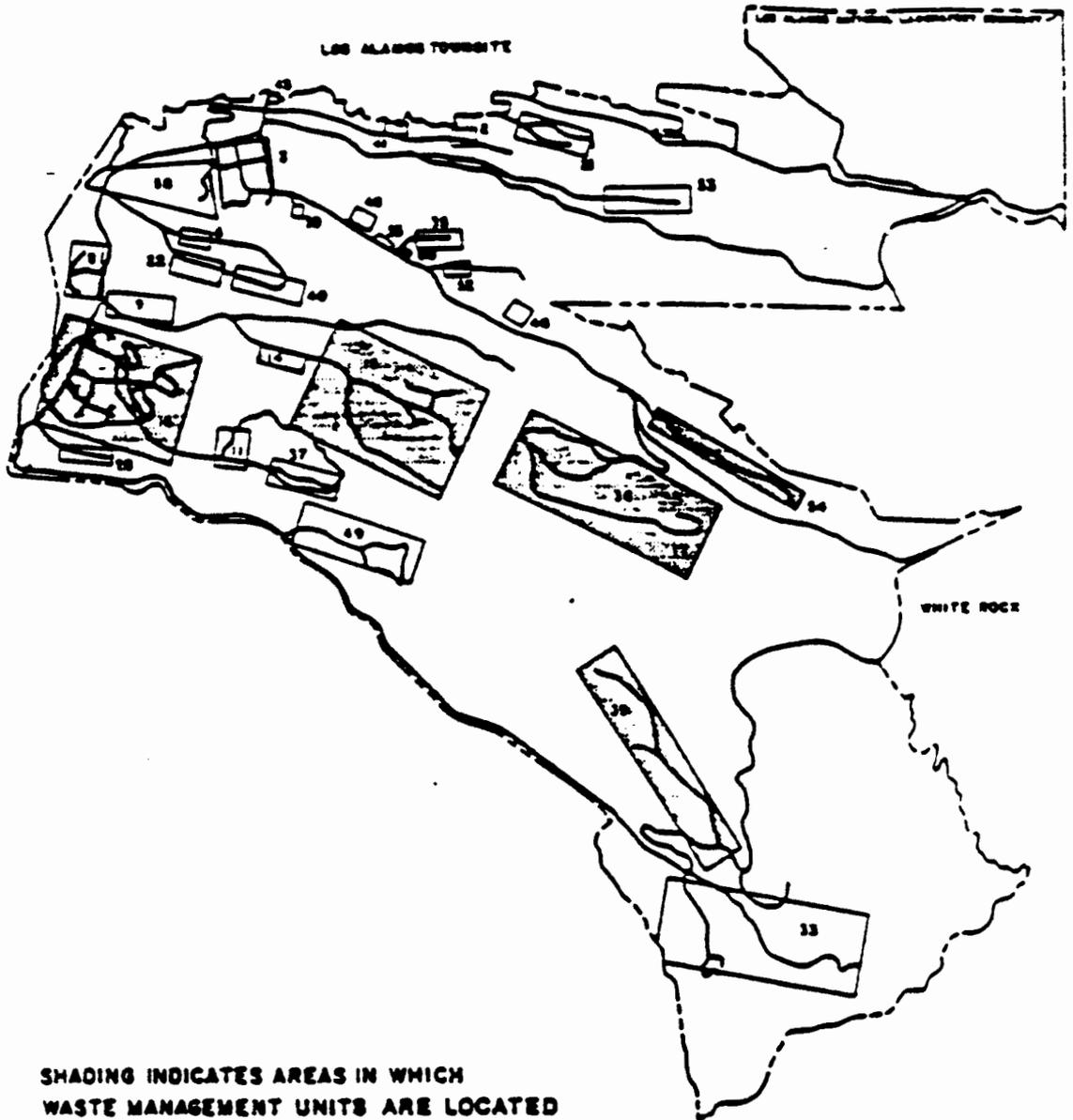
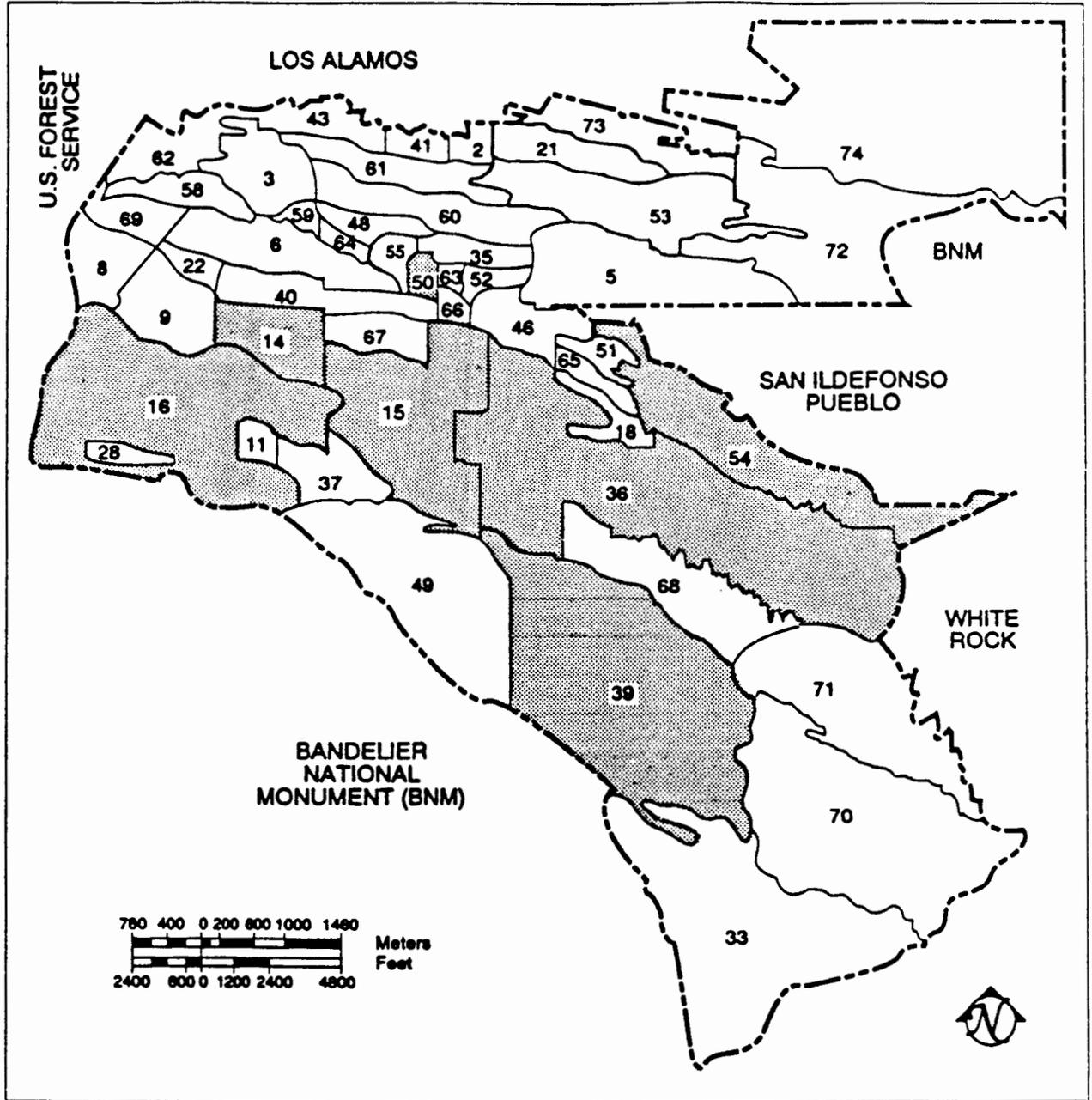


Figure D-1
**LOS ALAMOS
 TECHNICAL AREAS**
 PREPARED FOR
**LOS ALAMOS
 NATIONAL LABORATORY**
LOS ALAMOS, NEW MEXICO

INTERCOM 11/11/88





 SHADING INDICATES TECHNICAL AREAS IN WHICH WASTE MANAGEMENT UNITS ARE LOCATED

FIGURE D-1

LOS ALAMOS
TECHNICAL AREAS

PREPARED FOR

LOS ALAMOS
NATIONAL LABORATORY
LOS ALAMOS, NEW MEXICO

Permit Modification Class: 40 CFR 270.42
Appendix I, (A.1)

NM0890010515-1

IT CORPORATION

**HEALTH, SAFETY, AND ENVIRONMENT DIVISION
LOS ALAMOS NATIONAL LABORATORY**

March 21, 1989

Total Staff: 472.80

SM: 186.52

Support: 286.28

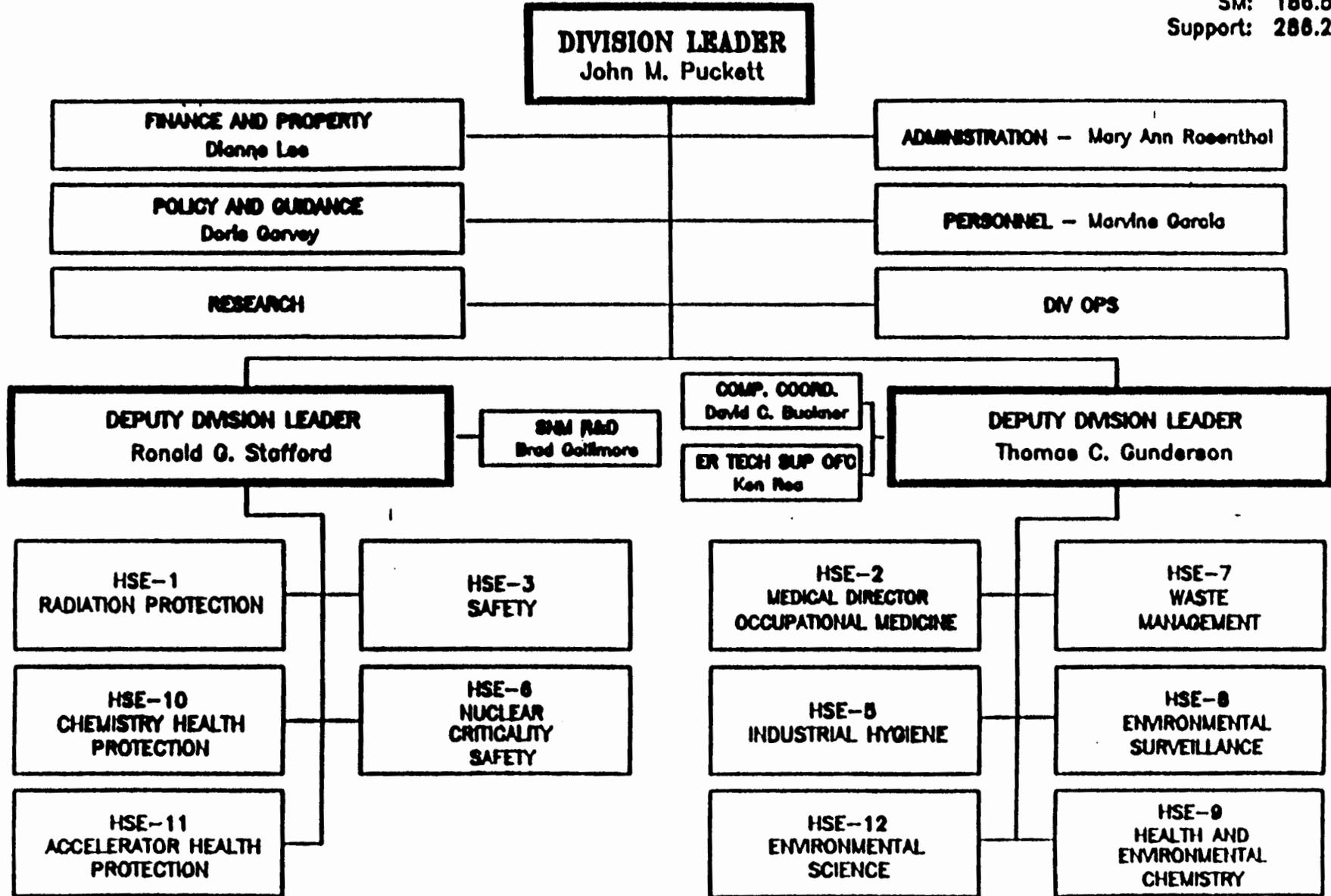
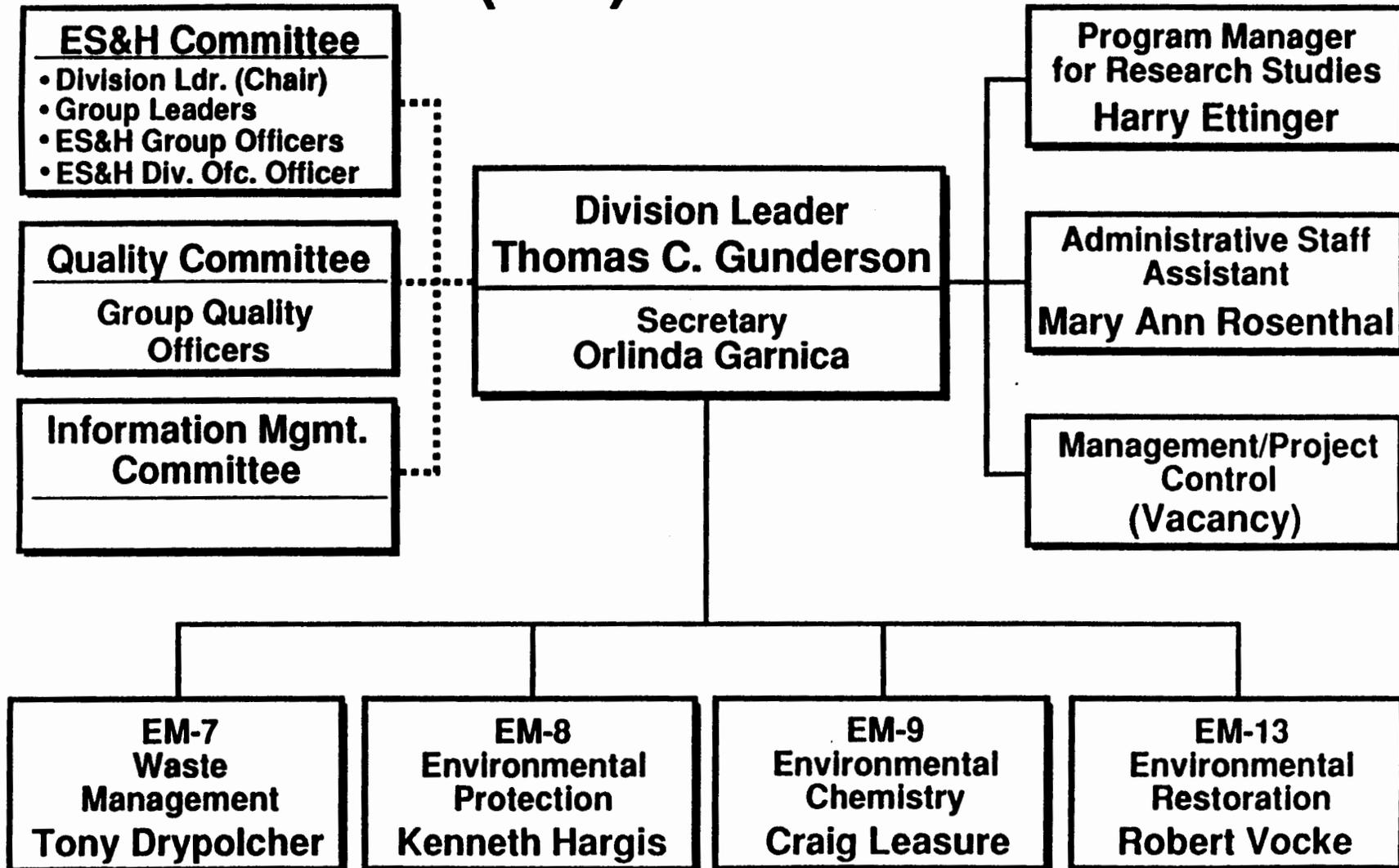


Figure D-2 Health, Safety, and Environment Division Organization Chart

NM0890010515-1

D-17

Environmental Management (EM) Division



Environmental Management Division

Los Alamos

Figure D-2 Environmental Management Organization Chart
Permit Modification Class: 40 CFR 270.42, Appendix I, (A.1)
NM0890010515-1

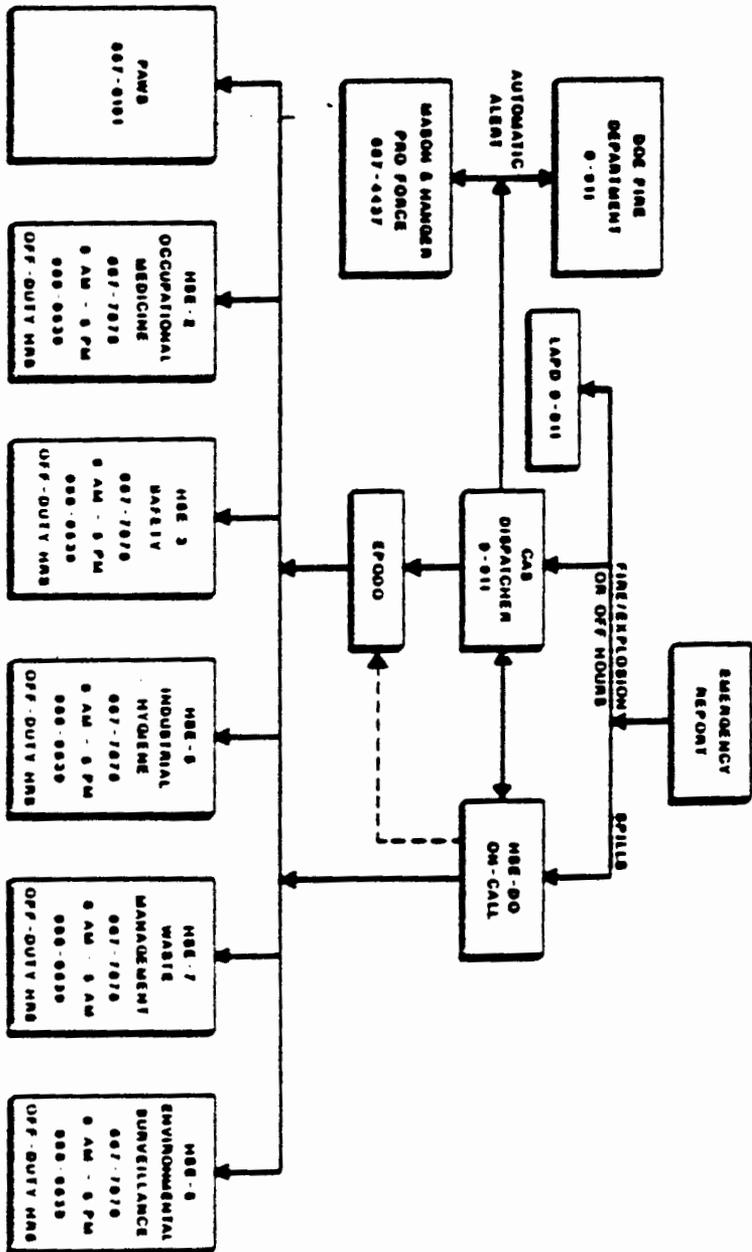
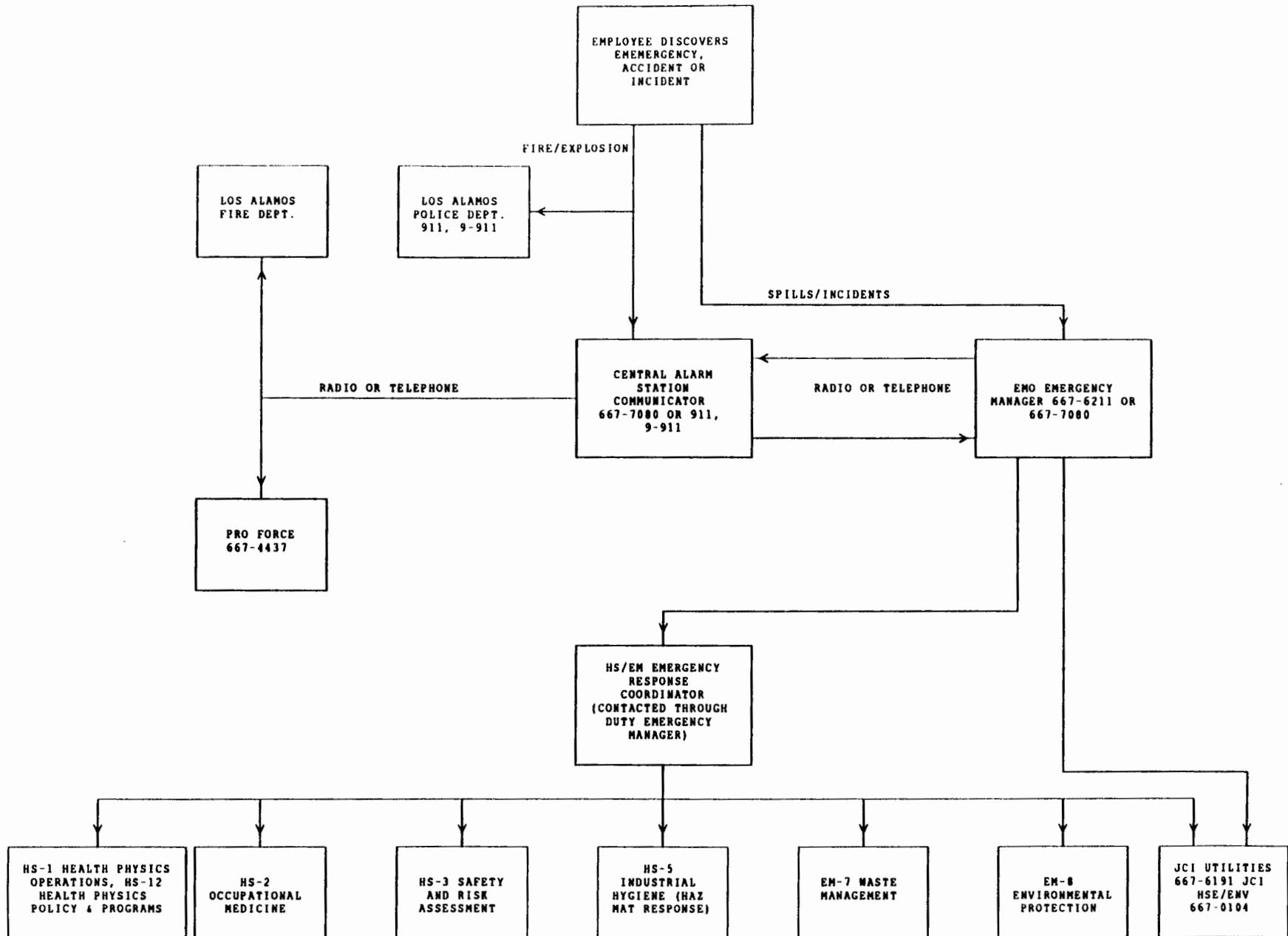


Figure D-5
 HAZARDOUS WASTE
 EMERGENCY
 NOTIFICATION STRUCTURE
 PREPARED BY

LOS ALAMOS NATIONAL LABORATORY
 LOS ALAMOS, NEW MEXICO

100411 CORPORATION
 ALL INFORMATION CONTAINED
 HEREIN IS UNCLASSIFIED

FIGURE D-5
HAZARDOUS WASTE EMERGENCY NOTIFICATION STRUCTURE



Permit Modification Class: 40 CFR 270.42, Appendix I, (A.1)

NM0890010515-1

TABLE D-3
(Continued)

**EMERGENCY EQUIPMENT AT THE BURNING GROUND AND
THE OPEN DETONATION PADS, TAs 14, 15, 16, 36, AND 39**

Fire Control Equipment

Fire Extinguisher in each vehicle used to transport HE material
Fire Extinguisher in each control bunker

Description of General Capabilities

These are portable units of approximately 9 to 15 pounds capacity used in wet chemical laboratory applications. May be used by any employee in case of a fire. Fire extinguishers are never used to put out controlled fires at the burning grounds.

Communication Equipment

Telephones
Two-way radios

Description of General Capabilities

Telephones for internal communication at the Laboratory and off-site communication with federal, state, county, and other agencies are available. A Centrex telephone system and a private telephone line (if Centrex fails) are available for use by all employees.

Located in each control bunker, in the control building at the burning ground, and at the waste water treatment facility at the burning ground. Radios allow communication between each vehicle.

TABLE D-3

EMERGENCY EQUIPMENT

EMERGENCY EQUIPMENT AT THE TA-50 BATCH WASTE TREATMENT UNIT (BWTR)

Fire Control Equipment:

2 fire extinguishers (B,C)

Description of General Capabilities:

These are portable units of approximately 9 to 15 pounds capacity used in wet chemical laboratory applications. May be used by any employee in the event of fire.

East wall of Batch Waste Treatment Room (BWTR)
West wall of adjoining room (Rm. 24) to west of BWTR

Fire alarm pull box

Description of General Capabilities:

Manually operated fire alarm which may be activated by any employee in the event of fire to notify Central Alarm Station.

Located on east wall immediately outside BWTR
1 automatic thermal alarm

Sprinkler system

Description of General Capabilities:

The sprinkler system is an automatic system which delivers a maximum of 200 psi of water spray through shower heads placed at locations which maximize fire suppression range capability. In the event of fire, this system should function automatically, requiring no manual assistance.

2 sprinkler heads in ceiling of BWTR, set off at 212°F

Communication Equipment:

Telephones

Description of General Capabilities:

Telephones for internal communication at the Laboratory and off-site communication with Federal, State, County and other agencies are available. A Centrex telephone system and a private telephone line (if Centrex fails) are available for use by all employees.

Located in Room 24 and at the BWTR
Telephones equipped with building-wide paging system

Evacuation alarm, single tone horn

Description of General Capabilities:

The evacuation alarm activates the central alarm system, which automatically activates the emergency response procedures.

TABLE D-3
(Continued)

Spill Control Equipment:

Eight-inch curb around reactor and receiving tanks
Absorbent kept onsite

Description of General Capabilities:

The curbing and enclosed containment volume has been designed to satisfy containment requirements specified in 40 CFR 261.

Decontamination Equipment

Safety shower located next to reactor tank outside curbed area
Eye wash located on south wall next to hood

Description of General Capabilities:

Safety showers and eye washes are used by personnel who receive a chemical splash to skin or eyes. Specific material safety data sheets for the chemical should be obtained prior to working with the chemical to determine if the application of water is indicated for decontamination.

TABLE D-3
(Continued)

EMERGENCY EQUIPMENT AT THE TA-50 CHEMICAL WASTE INCINERATOR AND ROOM 117 STORAGE AREA

Fire Control Equipment:

13 fire extinguishers (9C-CO; 4 A-water)

Description of General Capabilities:

These are portable units of approximately 9 to 15 pounds capacity used in wet chemical laboratory applications. May be used by any employee in the event of fire.

Manually operated fire alarm may be activated by any employee in the event of fire to notify Central Alarm Station.

The sprinkler system is an automatic system which delivers a maximum of 200 psi of water spray through shower heads placed at locations which maximize fire suppression range capability. In the event of fire, this system should function automatically, requiring no manual assistance.

Halon Extinguishing Systems are indicated to supplement automatic sprinkler systems which protect high value equipment, or suppress special hazardous operations or occupancies.

Location:

- 1 Mechanical Equipment Room 111
- 2 High Bay Room 112
- 2 High Bay Room 114
- 1 South of Library and Conference Room
- 1 Chemistry Laboratory Room 107
- 1 Process Engineering Laboratory Room 209
- 1 Office Area Room 202
- 1 Room 21
- 1 Room 117

11 Fire Alarm Pull Boxes connected to the CAS

Location:

- 1 Mechanical Equipment Room 111
- 1 High Bay Room 112
- 2 South of Library and Conference Room
- 2 High Bay Room 114
- 1 East of women's changing room
- 1 Process Engineering Laboratory
- 1 Office Area Room 202
- 2 Room 21

- Automatic thermal alarm on inlet and exhaust of ventilation system
Automatic thermal sprinkler system throughout offices

4 Fire Hydrants

Location:

- 1 Northwest corner of Building 84
- 1 West of Building 69
- 1 Northeast of Building 37

Halon Extinguishing System, manual and ultraviolet in Room 115

TABLE D-3
(Continued)

EMERGENCY EQUIPMENT - HSE-7 CONTROLLED

Spill Control Equipment: Located at TA-54, Area G

Heavy equipment available for emergencies may include

- 2 scrapers
- 1 bulldozer
- 1 tractor (front end loader)

Shovels

Absorbents (vermiculite) in combustibles storage shed

Description of General Capabilities:

The following pieces of heavy equipment will be used in the event of large spills. Small spills will be absorbed with absorbent.

Decontamination Equipment:

Small decontamination pit for heavy equipment
Showers (MD-11)

Other:

- Change room with protective clothing (MD-11)
- 2-3 dozen respirators (particulates) (MD-11)
- 2 self-contained, portable air masks (MD-11)
- 2 emergency generators, portable
- 3 vehicles are available for evacuation of personnel:
 - 2 sanfu
 - 1 Jeep (with emergency equipment, e.g., coveralls, booties, tape, rope)

TABLE D-3
(Continued)

Communication Equipment:

Telephones throughout building with building-wide paging system

Description of General Capabilities:

Telephones for internal communication at the Laboratory and off-site communication with Federal, State, County and other agencies are available. A Centrex telephone system and a private telephone line (if Centrex fails) are available for use by all employees.

Radio located in Room 202

Spill Control Equipment:

Absorbent kept onsite

PCB room is bermed to handle all liquids stored

Have Spill Prevention and Containment Plan

Description of General Capabilities:

Containment is designed to handle all liquids stored. Absorbent is used in the event of a small spill.

Decontamination Equipment:

Showers

Emergency eyewash

Description of General Capabilities:

Safety showers and eye washes are used by personnel who receive a chemical splash to skin or eyes. Specific material safety data sheets for the chemical should be obtained prior to working with the chemical to determine if the application of water is indicated for decontamination.

TABLE D-3
(Continued)

EMERGENCY EQUIPMENT AT TA-54, AREA L

Fire Control Equipment:

- 1 fire hydrant located 30 feet south of site entrance to site
- 1 CO fire extinguisher located inside trailer at west end of site (B,C)
- 1 CO fire extinguisher located inside storage shed (B,C)
- 1 freeze-proof faucet located immediately east of shed

Description of General Capabilities:

These are portable units of approximately 9 to 15 pounds capacity used in wet chemical laboratory applications. May be used by any employee in the event of fire.

Spill Control Equipment:

- Shovels
- Oversized drums
- Absorbent inside storage shed
- Heavy equipment from Area G available for any emergencies at Area L
- Bermed storage area

Description of General Capabilities:

The following pieces of heavy equipment will be used in the event of large spills. Small spills will be absorbed with absorbent.

Communications Equipment:

- 2-way radios are available to all personnel when in area
- 2-way radios are in all vehicles used for moving hazardous waste
- Telephone located inside trailer

Description of General Capabilities:

External and internal Laboratory communications which may be used in emergency situations are listed.

Decontamination Equipment:

- 1 emergency shower and eye wash located immediately east of shed

Description of General Capabilities:

Safety showers and eye washes are used by personnel who receive a chemical splash to skin or eyes. Specific material safety data sheets for the chemical should be obtained prior to working with the chemical to determine if the application of water is indicated for decontamination.

Other:

- 2 self-contained, portable air masks located inside trailer

TABLE D-3
(Continued)

SUPPLEMENTARY EMERGENCY EQUIPMENT

PAN AM WORLD SERVICES (667-6196)

<u>Equipment</u>	<u>Number</u>
A. Transportation	
1. Pickups, 1/2 through 3/4 ton	183
2. Trucks 1 through 3 ton	25
3. Powerwagon (E-20781 with welder (PN-30256) mounted on vehicle, CC-135	1
4. Buses (11-passenger)	2
5. Stationwagens	11
6. Vans, panels, and carryalls	24
B. Special Equipment	
1. Road grader, Champion, self-propelled blade, with radio	1
2. Grader, John Deere, self-propelled, with radio	1
3. Loaders, bucket, Melroe, Bobcat, 1/3 cubic yards	3
4. Loader, bucket, Michigan, 2-3/4 cubic yards	1
5. Loader, Fiat-Ellis, 3 cubic yards	1
6. Loader, bucket, Michigan, 2-1/2 cubic yards	1
7. Loader, bucket, Michigan, 3-1/4 cubic yards	1
8. Loader, bucket, Yale, 3 cubic yards, with radio	1
9. Loader, bucket, backhoe, International, 1-1/2 cubic yards	1
10. Loaders, bucket, backhoe, Case, 7/8 cubic yards	2
11. Loader, backhoe, Ford, 1 cubic yard	1
12. Snowplows, Bombardier, with blade	2
13. Bulldozer, D-8, Crawler	1
14. Bulldozers, TD-25, International	2
15. Scraper, Terex, self-propelled	1
16. Scraper, Fiat-Ellis, self-propelled	1
17. Bulldozer, 280, rubber-tired, with radio	1
18. Semitrailers	5
19. Lights, camp (electrical, plant, portable, 1000 to 5000 watts)	4
20. Power saws	14
	(approx)
21. Flusher, street, 3000-gallon Truck, tanker, 500-gallon, International	1
22. Mobile transceivers (2-way, KOB-753)	64

TABLE D-3
(Continued)

PAN AM WORLD SERVICES (667-6196)

<u>Equipment</u>	<u>Number</u>
B. Special Equipment (cont)	
23. Mobile transceivers (2-way, fire network)	7
24. Handsets (2-way)	8
25. Pageboys (1-way)	235
26. Welders, mounted on trailers and trucks	32
27. Fire tools (hand)	150
	(approx)
C. Supplies	
1. Food	
Box lunches	150
D. Other Supplies	
1. Bedding	
Blankets	60
Bedrolls (disposable)	50
(from U.S. Forest Service in Santa Fe)	
2. Butane gas (25-gallon tanks)	4
3. Fuel and lubricants	
4. Miscellaneous supplies	
<u>Manpower</u>	
A. Fire Bosses	
1. Crew bosses	3
2. Straw bosses	12
B. Service Bosses	
1. Transportation boss	1
C. Specialists	
1. Cat bosses	2
2. Bulldozer operators	14
3. Clerks	10
4. Dispatchers	3
5. Mechanics	17
6. Power saw operators	8
7. Radio and telephone operators	10
8. Truck drivers	13
9. Tool sharpener	4

TABLE D-3
(Continued)

PAN AM WORLD SERVICES (667-6196)

<u>Manpower (cont)</u>	<u>Number</u>
7. Radio and telephone operators	10
8. Truck drivers	13
9. Tool sharpener	4
D. Firefighters	
1. Organized crews (approximately 8 men per crew)	14 crews

TABLE D-3
(Continued)

EMERGENCY EQUIPMENT AT THE FIRE DEPARTMENT
(9-911)

8 1000-gallons-per-minute pumper trucks
5 Minipumper trucks
5 1500-gallon tank trucks
4 Modular ambulances
1 Rescue vehicle
69 Self-contained breathing apparatus
Various firefighting equipment
Emergency Medical Technician (EMT) medical equipment
98 Personnel with 81 hours MTA training
1 75-foot elevated platform

TABLE D-3
(Continued)

EMERGENCY RESOURCES AT THE MEDICAL FACILITY (HSE-2)
(667-7878) 8 am - 5 pm
(988-0539) off-duty hours

Manpower

6 (2 casual) physicians
2 physician's assistants
10 (1 part-time) nurses
3 (2 casuals) x-ray technicians
2 laboratory technicians

Special Equipment - Portable

1 Radio base station (HSE-Div. net, being installed)
3 Walkie talkies (HSE-Div. net)
1 Portable cardiac monitor and defibrillator
1 Crash cart - emergency equipment
1 Portable physicians bag - drugs
1 Portable suction unit
5 Portable stretchers
1 Ambulance stretcher with straps
6 Wheel chairs
1 Manual resuscitator
6 Portable oxygen units
Several intravenous holders and solutions
6 Otoscope/ophthalmoscope sets
1 Portable sphygmomanometer
10 Stethoscopes
Many contamination apparel
1 Eye irrigation system
Many inflatable limb traction splints
3 Industrial first aid kits
Many extrication and cervical collars -
Many crutches and canes
Many suture sets

Supplies

Bedding and pillows
Rescue blankets
Burn blankets
Thermal/icing pouches
Multitrauma dressing and bandages

TABLE D-3
(Continued)

EMERGENCY RESOURCES AT THE MEDICAL FACILITY (HSE-2)
(667-7878) 8 am - 5 pm
(988-0539) off-duty hours

Special Facilities - Nonportable

Completely equipped medical clinic with emergency lighting system, x-ray machine, and ambulance entrance. Contamination showers, protective clothing, and wound counters. Suction unit, electrocardiograph (12 lead), pulse rate monitor/recorder, primary response trauma kits are included.

Transportation

1970 Plymouth Sedan

TABLE D-3

EMERGENCY EQUIPMENT

TA-14

Emergency Equipment Available AT TA-14-Q23 For HE Waste Detonation Pad:

FIRE CONTROL EQUIPMENT

6 Fire Extinguisher

Location:

5 Carbon Dioxide through-out TA-14-Q23

1 Water at TA-14-Q23

Description of General Capabilities:

There are six portable units of approximately 9 to 15 pounds capacity used in HE detonation application. May be used by any employee in case of fire. Fire extinguishers are never used to put out controlled fires at the burning grounds.

SPILL CONTROL EQUIPMENT

Shovels

Rake

Water Pails

Garden Hose

Location: TA-14-Q23

COMMUNICATION EQUIPMENT

Centrex Telephone System

2 Telephones

Location: TA-14-Q23

Description of General Capabilities:

Telephones for internal and external communications for use by all employees.

DECONTAMINATION EQUIPMENT:

Eye Wash Stations

Location: TA-14-Q23

PERSONNEL PROTECTION AND SAFETY EQUIPMENT

First Aid kits

Location: TA-14-Q23

TABLE D-3

**EMERGENCY EQUIPMENT
(Continued)**

TA-15

Emergency Equipment Available At TA-15 HE Waste Detonation Pad:

FIRE CONTROL EQUIPMENT

2 Fire Extinguisher

Location:

2 Vehicular Mounted ABC Fire Extinguishers
1 Fire Extinguisher Located In Control Bunker
4 Fire Alarm Pull Boxes Located Inside Buildings
184, 185, 186, and 310

Description of General Capabilities:

There are 3 portable units of approximately 5 to 15 pounds capacity used in HE detonation laboratory application. May be used by any employee in case of fire. Fire alarms may be activated by any employee in the event of fire. Fire extinguishers are never used to put out controlled fires at the burning grounds.

1 Fire Hydrant At Entrance To Building 186

COMMUNICATION EQUIPMENT

Centrex Telephone System

Located: Control bunker and control building

Description of General Capabilities:

Telephones for internal and external communications and have paging capabilities.

PERSONNEL PROTECTION AND SAFETY EQUIPMENT

First Aid kits

Hearing Protection

Location: TA-15 Control Bunker

TABLE D-3
EMERGENCY EQUIPMENT
(Continued)

TA-16

Emergency Equipment Available At TA-16 Four HE Waste Detonation Burn Pads:

FIRE CONTROL EQUIPMENT

6 Fire Extinguisher

Location:

1 Halon in the Burn Control Shelter

5 ABC in site vehicles

Description of General Capabilities:

There are six portable units of approximately 5 to 15 pounds capacity used in wet chemistry laboratory application. May be used by any employee in case of fire. Fire extinguishers are never used to put out controlled fires at the burning grounds.

SPILL CONTROL EQUIPMENT

Shovels

Rakes

Pitch Forks

Garden Hose

Location: TA-16 Burn Control Shelter

COMMUNICATION EQUIPMENT

Centrex Telephone System

3 Telephones

Location: Throughout TA-16

Description of General Capabilities:

Telephones for internal and external communications for use by all employees.

PERSONNEL PROTECTION AND SAFETY EQUIPMENT

First Aid kits

Hearing Protection

Full and Half Face Respirators

Chemical Resistant Splash Garments

Location: TA-16 Burn Control Shelter

TABLE D-3

**EMERGENCY EQUIPMENT
(Continued)**

TA-36

Emergency Equipment Available At TA-36 HE Waste Detonation Pad:

FIRE CONTROL EQUIPMENT

19 Fire Extinguisher

Location:

1 Carbon Dioxide through-out TA-36-12

6 Water at TA-36-12

2 Halon at TA-36-12

10 Vehicular Mounted ABC Fire Extinguishers

Description of General Capabilities:

There are 19 portable units of approximately 5 to 15 pounds capacity used in HE detonation application. May be used by any employee in case of fire. Fire extinguishers are never used to put out controlled fires at the burning grounds.

SPILL CONTROL EQUIPMENT:

Shovels

Rake

Location: TA-36-12

COMMUNICATION EQUIPMENT

Centrex Telephone System

1 Telephone

5 Vehicles Two-way Radios

4 Hand-held Radios

Location: TA-36-12

Description of General Capabilities:

The telephone is for internal and external communications for use by all employees.

DECONTAMINATION EQUIPMENT:

Portable Eye Wash Station

First Aid Kits

TABLE D-3

**EMERGENCY EQUIPMENT
(Continued)**

Emergency Equipment Available At TA-36 HE Waste Detonation Pad, Continued:

PERSONNEL PROTECTION AND SAFETY EQUIPMENT

First Aid kits
Hearing Protection
Respirators
Location: TA-36-8

TABLE D-3

EMERGENCY EQUIPMENT

TA-39

Emergency Equipment Available AT TA-39 For HE Waste Detonation Pad:

FIRE CONTROL EQUIPMENT

3 Fire Extinguisher

Location:

2 BC extinguisher at TA-39, Bldg 6

1 BC extinguisher at TA-39, Bldg 57

Description of General Capabilities:

There are three portable units of approximately 10 pounds capacity used in HE detonation application. May be used by any employee in case of fire. Fire extinguishers are never used to put out controlled fires at the burning grounds.

SPILL CONTROL EQUIPMENT

Shovels

Rake

Water Pails

Location: TA-39, Bldg 6, and Bldg 57

COMMUNICATION EQUIPMENT

Centrex Telephone System

2 Telephones

Location: TA-39, Bldg 6, and 57

Description of General Capabilities:

Telephones for internal and external communications for use by all employees.

PERSONNEL PROTECTION AND SAFETY EQUIPMENT

First Aid kits

Hearing Protection

Location: TA-39, Bldg 6, Bldg 57

**TABLE D-3
EMERGENCY EQUIPMENT
(Continued)**

TA-50

Emergency Equipment at the Batch Waste Treatment Unit

FIRE CONTROL EQUIPMENT:

2 Fire Extinguishers

Description of General Capabilities:

These are portable units of approximately 9 to 15 pounds capacity used in wet chemistry laboratory applications. May be used by any employee in the event of fire.

Locations:

East wall of Batch Waste Treatment Room (BWTR) and the west wall of adjoining room (Rm.24) to west of BWTR.

Fire Alarm Pull Box

Description of General Capabilities:

Manually operated fire alarms which may be activated by any employee in the event of fire and one automatic thermal alarm.

Locations:

East wall immediately outside BWTR and inside the BWTR respectfully.

Sprinkler System

Description of General Capabilities:

The sprinkler system is an automatic system which delivers a maximum of 200 psi of water spray through shower heads placed at locations which maximize fire suppression range capacity. In the event of fire, this system should function automatically, requiring no manual assistance.

Locations:

2 sprinkler heads in ceiling of BWTR, set off at 212 degrees Fahrenheit.

COMMUNICATION EQUIPMENT

Telephones

Description of General Capabilities:

Telephones for internal and external communications. A Centrex telephone system and a private telephone line (if the Centrex fails) are available for use by all employees.

TABLE D-3

**EMERGENCY EQUIPMENT
(Continued)**

Emergency Equipment at the Batch Waste Treatment Unit , Continued:

Locations:

Room 24 and at the BWTR also telephones equipped with building-wide paging system.

Evacuation Alarm, Single Tone Horn

Description of General Capabilities:

The evacuation alarm activates the central alarm system, which automatically activates the emergency response procedures.

TABLE D-3
EMERGENCY EQUIPMENT
(Continued)

TA-50

Emergency Equipment At TA-50-37, Available For The Controlled Air Incinerator And Associated Container Storage Areas And Tank Storage:

FIRE CONTROL EQUIPMENT:

12 Fire Extinguishers (3 CO₂, 9 Halon)

Locations:

- 1 Halon in Room 111
- 1 Halon, 2 CO₂ in Room 112
- 2 Halon in Room 114
- 1 Halon at front main doorway
- 1 CO₂ in Room 106
- 1 Halon in Room 209
- 1 Halon in Room 202
- 1 Halon in Room 21
- 1 Halon in Room 116

Description of General Capabilities:

These portable units are from 5.5 to 44 pounds in capacity and may be used by any employee in the event of fire.

14 Fire Alarm Pull Boxes

Locations:

- 1 in Room 111
- 2 in Room 112
- 1 south of the library and conference room
- 2 in Room 114
- 1 east of the women's change room
- 1 in the break room
- 1 in Room 202
- 2 in Room 21
- 1 in Room 15
- 1 in Room 116
- 1 in the access hallway, Room 113

Description of General Capabilities:

Manually operated fire alarms may be activated by any employee in the event of fire to notify the CAS.

TABLE D-3

**EMERGENCY EQUIPMENT
(Continued)**

Emergency Equipment At TA-50-37 , Continued:

An automatic water sprinkler system is located throughout TA-50-37. Room 115 has an additional Halon system. Rooms 117 and 118 have a supplementary external foam additive system to maximize fire suppression.

Description of General Capabilities:

The automatic sprinkler system delivers a maximum of 200 psi of water spray through sprinkler heads placed at locations which will maximize fire suppression.

FIRE CONTROL EQUIPMENT, continued:

Halon extinguishing systems supplement the automatic sprinkler system and are used to protect high value equipment or in areas of special operations.

An automatic thermal alarm system is located throughout TA-50-37.

4 Fire Hydrants

Locations:

- 1 northwest corner of TA-50-94, west of TA-50-37
- 1 west of TA-50-69
- 1 northeast of TA-50-37
- 1 southeast of TA-50-37

13 Freeze-Proof Faucets

Locations:

- 2 hot water and 2 cold water faucets located in Room 116
- 1 faucet located in Room 114
- 8 faucets in various outdoor locations surrounding TA-50-37

TABLE D-3

EMERGENCY EQUIPMENT (Continued)

Emergency Equipment At TA-50-37 , Continued:

SPILL CONTROL EQUIPMENT:

Room 115 is curbed and has a capacity of 562 gallons. Room 117 has a recessed floor with a capacity of approximately 23,700 gallons. Room 118 is equipped with a 200 gallon capacity sump. Overflows from Room 118 are contained in the recessed floor in Room 117 or may be handled by a sump in Room 117.

Absorbent is kept in Room 114. Absorbent includes seventy-five 2-foot spill pillows and 500 18" X 36" absorbent sheets. The Spill Prevention, Control, and Containment Plan is located in the safety document bookcase in TA-50-37.

COMMUNICATION EQUIPMENT:

Thirty-one telephones and a building-wide paging system are located throughout TA-50-37, 94, and 54. Additionally, a two-way radio is assigned to truck #38438.

Alarms

Fire alarm emits a double slow whoop sound.
Evacuation alarm is a continuous single-tone alarm.

Description of General Capabilities:

Telephones are available to any employee for use in internal and external communication. Fire alarm may be activated by any employee in case of fire to notify the CAS. Evacuation alarm is activated whenever a situation requires evacuation of the area.

DECONTAMINATION EQUIPMENT:

Six safety showers and eye washes are located in or around TA-50-37. MSDS information specific to chemicals on hand is located in each laboratory and shop.

**TABLE D-3
EMERGENCY EQUIPMENT
(Continued)**

Emergency Equipment At TA-50-37 , Continued:

Description of General Capabilities:

Safety showers and eye washes are used by personnel who receive a chemical splash to the skin or eyes. Specific MSDSs for the chemical(s) should be obtained prior to working with mixed waste or mixed material to determine if the application of water is indicated for decontamination. Decontamination area in egress bay (Room 116) allows for a wash down of contaminated equipment.

PERSONAL PROTECTIVE EQUIPMENT:

2 SCBA are located in Room 103.

Room 103 is a change room with protective clothing available.

OTHER:

Portable emergency generator (5,000 watt) is located at TA-50-54.

Vehicle available for evacuation of personnel is located on-site.

Forklifts (electric, and propane) are located in Room 114.

1 HazMat vehicle is located at TA-50-1 and is available for emergencies in the area.

TABLE D-3
EMERGENCY EQUIPMENT
(Continued)

TA-54

Emergency Equipment At TA-54, Area G:

FIRE CONTROL EQUIPMENT:

- 7 extinguishers
 - 5 Halon
 - 2 ABC
- Location: TA-54-49

An automatic thermal alarm system is located in TA-54-49.

Description of General Capabilities:

Fire extinguishers may be used by any employee in the event of a small fire. If the ceiling mounted thermal alarm system sensors are activated, the Pro-Force and Fire Department are alerted.

1 fire hydrant located near TA-54-156

SPILL CONTROL EQUIPMENT:

A 6-inch asphalt curb surrounds the interior of TA-54-49 and is sufficient for capacity of any spill. Absorbent spill pillows and pads are stored at the emergency spill station inside each dome. Vermiculite and corn cob fractions are also available in TA-54-79 and at the emergency spill station in each dome.

- 1 portable spill station contains
 - plastic suits
 - pair goggles
 - pair rubber gloves
 - absorbent pads and pillows
 - plastic bags

TABLE D-3

**EMERGENCY EQUIPMENT
(Continued)**

Emergency Equipment At TA-54, Area G: Continued

COMMUNICATION EQUIPMENT:

A private telephone is located at the front (north side) of TA-54-49. Telephones with speakers are located in TA-54-2, 11, 22 and 33. Eight portable two-way radios are issued to technicians and to the secretary at TA-54-22. Two base unit radios are located in TA-54-22. Pagers are carried by all technicians; pagers are accessed by telephone.

Two two-way radios are issued to vehicles assigned to Area G.

Description of General Capabilities:

Telephones and alarms are located throughout Area G. The evacuation alarm is a high-pitch wailing sound which can be heard throughout Area G. Strobe lights mounted on poles throughout the area may be used to visually alert personnel to evacuate the area. A video explaining alarms and evacuation procedures must be viewed prior to entering the site.

DECONTAMINATION EQUIPMENT:

Portable eye wash stations are available at TA-54-49.
One safety shower is located at TA-54-11.
MSDS are available at TA-54-22.

Description of General Capabilities:

The safety shower and eye washes are used by personnel who receive a chemical splash to the skin or eyes. Specific MSDSs for the chemical(s) should be obtained prior to working with mixed waste or mixed material to determine if the application of water is indicated for decontamination.

PERSONAL PROTECTIVE EQUIPMENT:

A change room is located at TA-54-11; protective clothing is available in TA-54-2.

Air respirators are available at TA-54-156.

TABLE D-3

**EMERGENCY EQUIPMENT
(Continued)**

Emergency Equipment At TA-54, Area G: Continued

Additional respirators are available in the Emergency Response Trailer by the main gate.

OTHER:

Heavy equipment kept on-site includes:

scrapers
bulldozer
front-end loader
dump truck
flat-bed truck

Four portable emergency generators are available on-site:

Locations: Three are located by TA-54-48 and the other is in the Emergency Response trailer.

Vehicles available in Area G to evacuate personnel include:

Honda all-terrain vehicles (ATVs)
Polaris ATVs
pickup trucks
dump truck
flatbed truck
golf carts

The Emergency Response trailer may be pulled by several different vehicles and is equipped to respond as a first response vehicle.

**TABLE D-3
EMERGENCY EQUIPMENT
(Continued)**

TA-54

Emergency Equipment At TA-54, Area L:

FIRE CONTROL EQUIPMENT:

9 fire extinguishers (Halon, Water, CO₂)

Locations:

1 Halon (A,B,C) inside TA-54-37

1 Halon (A,B,C) inside TA-54-60

1 water (A) inside TA-54-51

1 Halon (A,B,C) inside northeast end of TA-54-32

1 extinguisher (B,C) inside TA-54-39

1 extinguisher (CO₂) southeast end of Area L next to spill kit

1 CO₂ (B,C) located outside of TA-54-31

1 extinguisher located 30 feet from southeast side of TA-54-32

1 water (A) located outside of TA-54-117

Description of General Capabilities:

These fire extinguishers may be used by any employee in case of a small fire.

Fire alarm pull boxes are located inside TA-54-37, 39, 51, 60, and 117.

Description of General Capabilities:

Fire alarms may be activated by any employee in the event of a fire to notify the CAS.

1 fire hydrant is located 30 feet south of entrance to site.

1 freeze-proof faucet is located approximately 25 feet east of TA-54-31.

SPILL CONTROL EQUIPMENT:

Shovels located in TA-54-46

Oversized drums

Sawdust absorbent located on site

TABLE D-3

EMERGENCY EQUIPMENT (Continued)

Emergency Equipment At TA-54, Area L, Continued:

Spill kits are located throughout Area L. Each kit includes two 25 pound bags of Zorball, 50 pounds of caustic neutralizer, 100 pounds of acid neutralizer, and an inventory of tools and supplies. A complete spill kit inventory list can be obtained at TA-54, Area L.

COMMUNICATION EQUIPMENT:

Two-way radios are available to personnel while in Area L. Three 2-way radios are issued to vehicles used in Area L activities. Three outdoor telephones, are located in Area L. There are also fire alarms, evacuation alarms and a PA system at Area L.

Locations:

Telephones are located inside TA-54-37, 39, 51, 55 and 61. Two evacuation telephones and alarm buttons are located at the northeast end of structure 54-32 and inside building 37, by the secretaries desk. A portable phone is available for emergency communications during evacuation. This portable phone is located in building 37, in the secretaries office. The fire alarm is a double slow whoop sound. An emergency evacuation paging system is located in TA-54-37 and at the north end of TA-54-32. The evacuation alarm is a pulsating sound. The PA system can be operated from any phone in Area L.

Description of General Capabilities:

Telephones for internal, external, and PA capabilities are available for use by any employee. Fire and evacuation alarms are activated in the event of a fire or in case an evacuation is required.

DECONTAMINATION EQUIPMENT:

One emergency shower and eye wash are located immediately east of TA-54-31. One emergency shower and eye wash are located between TA-54-35 and 36. One emergency shower and eye wash are located in TA-54-39. One portable eye wash is located in TA-54-52. MSDSs are available in TA-54-46.

Description of General Capabilities:

Safety showers and eye washes are used by personnel who receive a chemical splash to the skin or eyes. Specific MSDSs for the chemical(s) should be obtained prior to working with mixed waste or mixed material to determine if the application of water is indicated for decontamination.

TABLE D-3
EMERGENCY EQUIPMENT
(Continued)

Emergency Equipment At TA-54, Area L, Continued:

PERSONAL PROTECTIVE EQUIPMENT:

2 SCBAs are located in TA-54-55.

OTHER:

A portable emergency generator is located in TA-54-46.

A forklift and Bobcat are available in Area L.

Heavy equipment from Area G is available for emergencies at Area L.

6 crashgates for evacuation purposes located throughout Area L.

1 pedestrian/crashgate located next to building 37.

TABLE D-3
EMERGENCY EQUIPMENT
(Continued)

**Supplemental Emergency Equipment Available From The
Los Alamos Fire Department:**

	<u>Number</u>
1,000 gallons per minute pumper truck	1
1,250 gallons per minute pumper trucks	7
Minipumper trucks	4
3,000-gallon tankers	2
2,000-gallon tankers	2
1,500-gallon tanker	1
Modular ambulances	4
Rescue vehicles	2
Crash-Fire-Rescue (CFR) units	2
SCBA	70
105-foot ladder truck	1
Personnel with 81 hours MTA training	110
Various firefighting equipment	

**TABLE D-3
EMERGENCY EQUIPMENT
(Continued)**

**Supplementary Emergency Equipment Available From
Johnson Controls World Services Inc.:**

	Number
TRANSPORTATION	
Pickups, 1/2 through 3/4 ton	183
Trucks 1 through 3 ton	25
Powerwagon (E-20781) with welder (PN-30256) mounted on vehicle, CC-135	1
Buses (11-passenger)	2
Station wagons	2
Vans, panels, and carryalls	24
SPECIAL EQUIPMENT	
Road grader, Cat, self-propelled blade, with radio	1
Grader, John Deere, self-propelled, with radio	1
Loaders, bucket, Melroe, Bobcat, 1/3 cubic yards	3
Loader, bucket, Cat, 2-3/4 cubic yards, with radio	1
Loader, Fiat-Allis, 3 cubic yards	1
Loader, bucket, Cat, 2-1/2 cubic yards	1
Loader, bucket, Cat, 3-1/4 cubic yards	1
Loader, bucket, Yale, 3 cubic yards, with radio	1
Loader, bucket, backhoe, Case, 1-1/2 cubic yards	1
Loaders, bucket, backhoe, Case, 7/8 cubic yards	2
Loader, backhoe, Ford, 1 cubic yard	1
Snowplows, Bombardier, with blade	2
Bulldozer, D-8, Crawler	1
Bulldozers, TD-25, International	2
Scraper, Terex, self-propelled	1
Scraper, Fiat-Allis, self-propelled	1
Bulldozer, 280, rubber-tired, with radio	1
Semitrailers	5
Power saw	(approx)6
Flush, street, 3000-gal. tanker truck, 55-gal	FMC1
Mobile transceivers (2-way, KOB-753)	20

**TABLE D-3
EMERGENCY EQUIPMENT
(Continued)**

**Supplementary Emergency Equipment Available From
Johnson Controls World Services Inc., Continued:**

	<u>Number</u>
SPECIAL EQUIPMENT (CONT.)	
Handsets (2-way)	64
Pageboys (1-way)	235
Welders, mounted on trailers and trucks	32
PERSONNEL	
Bulldozer operators	14
Clerks	10
Dispatchers	1
Mechanics	17
Power saw operators	8
Radio and telephone operators	1
Truck drivers	13

**TABLE D-3
EMERGENCY EQUIPMENT
(Continued)**

Emergency Equipment At The Medical Facility, HSE-2

At SM-409 Central Clinic:

<u>PERSONNEL:</u>	<u>Number</u>
Physicians (2 casual)	7
Physician's Assistants (2 casual)	5
Nurses (6 casual)	12
X-ray Technicians (1 casual)	2
Clinical Laboratory Technicians (4 part-time)	5
 <u>SPECIAL EQUIPMENT-PORTABLE:</u>	
Receivers - Med Net, Fire Net, Hickory Net, Emergency HSE-Div.	4
Walkie talkies (HSE Division NET)	4
Cardiac monitors and defibrillators (1 backup)	2
Crash cart-emergency equipment with E-tank O ₂	1
Portable physicians bag-drugs	1
Portable suction unit	1
Portable, 1 ambulance, 3 gurney stretchers	2
Wheel chairs	3
O ₂ tanks	3
Manual resuscitators	2
IV stands	2
IV solutions	q.s.*
Otoscope/ophthalmoscopes	4
Portable sphygmomanometers	6
Stethoscopes	20
Anti-c apparel	q.s.
Eye irritation solution	q.s.
Full set air splints	1
Industrial first-aid kits	1
Extrication and cervical collars, crutches, canes	q.s.
Suture sets	4

SUPPLIES-GENERAL:

- Bedding/Pillows
- Rescue blankets
- Burn blankets
- Thermal/icing pouches
- Multitrauma dressings, surgical and first aid supplies
- *q.s.-inventory varies as needed.

**TABLE D-3
EMERGENCY EQUIPMENT
(Continued)**

Emergency Equipment At The Medical Facility, HSE-2, Continued:

SPECIAL FACILITIES - NONPORTABLE:

- Completely equipped emergency room with ambulance entrance
- Emergency lighting system
- Complete X-ray suite
- Contamination showers, protective clothing and wound counters
- 12 lead electrocardiograph
- Fully equipped CRASH Cart with Life Pak, intubation equipment, emergency drugs, etc.
- Fully equipped decontamination room at Los Alamos Medical Center adjacent to LAMC Emergency Room

TRANSPORTATION:

- Full ambulance service is available within minutes to the central facility and all satellite clinics.
- 1980 Dodge Van

COMMUNICATION:

- Base station on State Medical Net

**TABLE D-4
HAZARDOUS WASTE EMERGENCY COORDINATORS**

(To be notified in succession)

<u>Primary Coordinators</u>	<u>Laboratory Telephone</u>	<u>Home Telephone</u>	<u>Home Address</u>
1. Donald Winston, Emergency Management	7-6211	662-2453	450 Navajo Road, Los Alamos, NM
2. James F. Griffin, Emergency Management Coordinator	7-6211	662-5436	1057 Cedro Court, Los Alamos, NM
3. Z. Edward MacBain, Emergency Management Coordinator	7-6211	662-6211	1856 Cooper Place, Los Alamos, NM
4. James S. Griffiths, Emergency Management Coordinator	7-6211	662-9155	190 Manhattan Loop, Los Alamos, NM

TABLE D-4
EMERGENCY MANAGERS

<u>Emergency Management Coordinators</u>	<u>Laboratory Telephone</u>	<u>Home Telephone</u>	<u>Home Address</u>
Ed MacBain	7-6211	-----	1856 Cooper, Los Alamos, NM
James S. Griffiths	7-6211	662-9155	190 Manhattan Loop, Los Alamos, NM
Gary W. Bequette	7-6211	662-4554	2369-B33, Los Alamos, NM
Frank Pearce	7-6211	662-3136	819 Scott Way, Los Alamos, NM
Deanna M. Seitz	7-6211	662-7356	65 San Juan, Los Alamos, NM
James A. Walton	7-6211	455-3316	Route 11, Box 20, Space 19, Santa Fe, NM

CONTAINER MANAGEMENT ATTACHMENT F

F.1 Container Packaging, Sampling, and Labeling

F.1.1 Container Packaging and Transport

When chemical substances are declared to be in excess, the originating group completes a Chemical Waste Disposal Request (Form H-1) and sends the form to the Waste Management Group (HSE-7). The request lists the chemical waste the generating group needs to dispose of, the quantity and physical form of the wastes, and other pertinent information such as the condition of the containers. Material Safety Data Sheets (MSDS's) and existing analytical data may also be available. The containers described will range from two ounce bottles of unusable chemical to 330-gallon Tuff-Tanks of plating material.

The Chemical Waste Disposal Request form is reviewed for adequacy of information and assignation of segregation codes, DOT information, and EPA codes. It is then used by HSE-7 personnel as the shipping form when the waste is collected. HSE-7 personnel then visit the generating site to package the waste for transport to TA-54, Area L. All waste is transferred in accordance with the Laboratory's On-Site Transportation Manual.

Small containers of waste (<5 gallon size), will be overpacked in either a DOT approved cardboard box or plastic or metal drum with absorbent material (referred to as labpacks). Vermiculite will be the most commonly used absorbent; however, the organic waste is compatible with absorbents such as corncobs and sawdust. These absorbents may be used for this category of waste since in cases of contamination of the absorbent incinerators prefer to receive a more combustible material than vermiculite. Containers that will be composited at TA-54, Area L will be sorted and packaged separately from those that will remain in labpacks for storage.

Drums and Tuff-Tanks will be visually inspected for integrity before transport. If the drum is unacceptable it will be repackaged or overpacked prior to transport. The wastes are transported on either a three-ton or one-ton flat bed truck.

Upon arrival at TA-54, Area L, the wastes are unloaded from the transport vehicle. Labpack waste will be temporary placed at the packaging building for labeling or compositing. Drums and Tuff-Tanks will be placed on either the sampling pad or storage pad for sampling and labeling.

F.1.2 Drum labeling, recording, and sampling system

Each unique package of waste, meaning labpack or drum, is labeled with the following information.

- chemical group number
- unique record number
- date of generation (If this information is not already on the container, the date from the Chemical Waste Disposal Request Form is used.)
- either an EPA hazardous waste label or the words hazardous waste

This information and the Chemical Disposal Request Form is provided to the resident data analyst. This individual creates a second record as part of the Hazardous Waste Database. All records are then maintained by the data analyst in accordance with the requirements of this permit.

Sampling of the waste is then performed as outlined in Permit Attachment A. The sampling pad is restricted to one family of chemicals at a time, for example organics. The group allowed at the time will be posted on the pad. This ensures that incompatible chemicals do not react in the containment basin of the

CONTAINER MANAGEMENT ATTACHMENT F

F.1 Container Packaging, Sampling, and Labeling

F.1.1 Container Packaging and Transport

When chemical substance are declared to be in excess, the originating group completes a Chemical Waste Disposal Request (~~Form H-7~~) (Form 10-3A) and sends the form to the Waste Management Group (HSE-7). The request lists the chemical waste the generating group needs to dispose of, the quantity and physical form of the wastes, and other pertinent information such as the condition of the containers. Material Safety Data Sheets (MSDSs) and existing analytical data may also be available. The containers described will range from two ounce bottles of unusable chemical to 330-gallon Tuff-Tanks of plating material.

The Chemical Waste Disposal Request Form is reviewed for adequacy of information and assignment of segregation codes, DOT information, and EPA codes. It is then used by HSE-7 personnel as the shipping form when the waste is collected. HSE-7 personnel then visit the generating site to package the waste for transport to TA-54, Area L. All waste is transferred in accordance with the Laboratory's On-Site Transportation Manual.

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Drums and Tuff-Tanks will be visually inspected for integrity before transport. If the drum is unacceptable it will be repackaged or overpacked prior to transport. The wastes are transported on ~~either a three-ton or one-ton flat-bed truck~~ half-ton to twelve-ton truck.

Upon arrival at TA-54, Area L, the wastes are unloaded from the transport vehicle. Labpack waste will be temporary placed at the packaging building for labeling or compositing. Drums and Tuff-Tanks will be placed on either the sampling pad or storage for sampling and labeling.

F.1.2 Drum labeling, recording, and sampling system

Each unique package of waste, meaning labpack or drum, is labeled with the following information.

- chemical group number
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Permit Modification Class: 40 CFR 270.42, Appendix I, (A.3)

NM0890010515-1

F-1

LEGEND

MATERIAL DISPOSAL UNITS

- 54 31 PACKAGING BUILDING
- 54 32 ROOFED WASTE STORAGE PAD
- 54 34 TREATMENT PAD
- 54 35 SAMPLING PAD
- 54 37 OFFICE TRAILER
- 54 38 PCB BUILDING
- 54 43 SEPTIC HOLDING TANK
- 54 44 PROPANE TANK
- 54 48 EQUIPMENT STORAGE BUILDING
- 54 50 EQUIPMENT STORAGE BUILDING
- 54 51 OFFICE TRAILER
- 54 55 SAMPLE PREP LAB BUILDING
- 54 56 TRANSPORT PAD
- 54 60 OFFICE TRAILER
- 54 62 CANOPY OVER MD-36 MD-38 MD-39
- 54 68 MODULAR STORAGE BUILDING
- 54 69 MODULAR STORAGE BUILDING
- 54 80 SEPTIC HOLDING TANK
- 54 81 PCB OIL TANK STORAGE
- 54 82 DRUM CRUSHER
- B SURFACE IMPROVEMENT
- D LOCATION OF AREA L INACTIVE SHAFTS

FIGURE 6

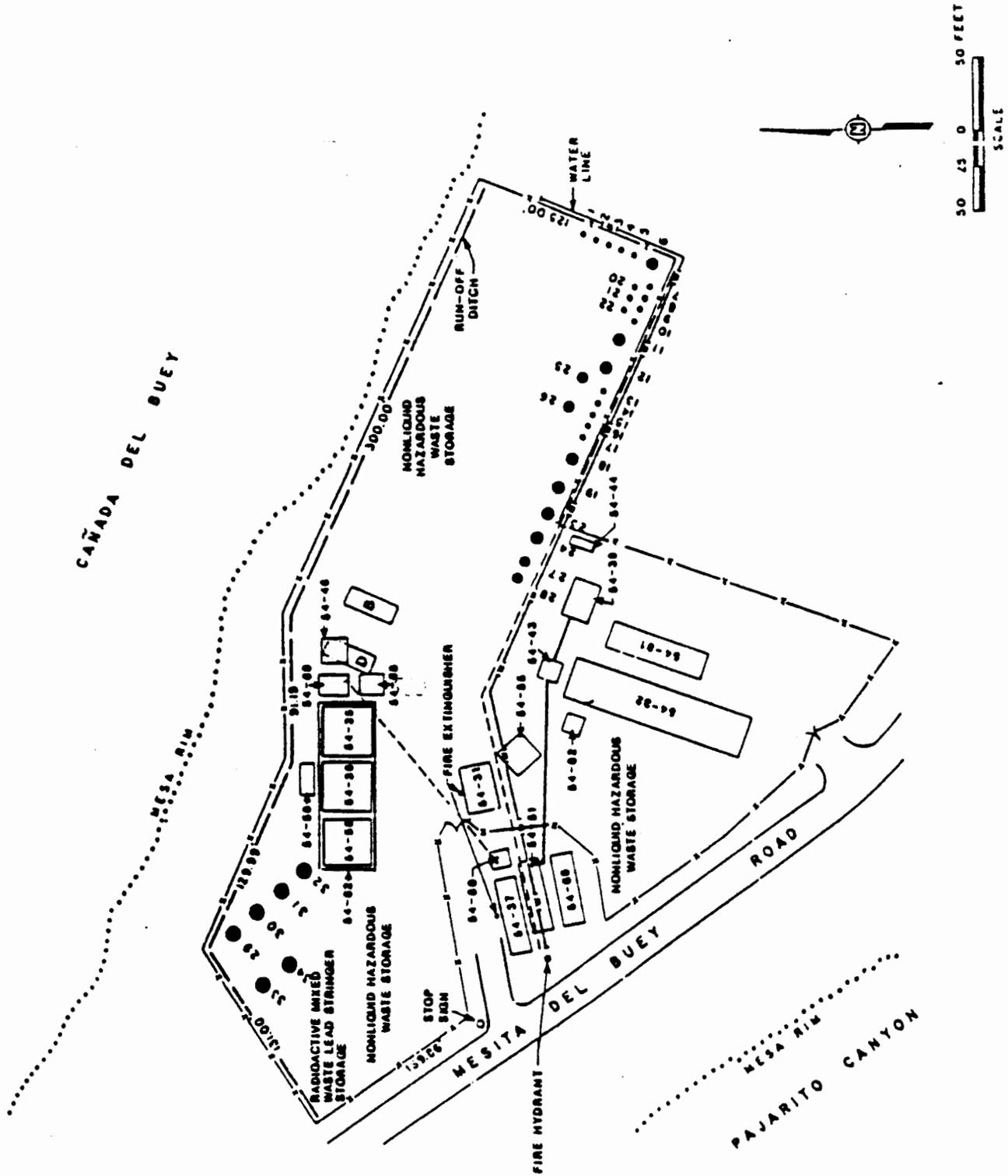
**TA-54 AREA L
WASTE MANAGEMENT UNITS**

PREPARED FOR

**LOS ALAMOS
NATIONAL LABORATORY
LOS ALAMOS, NEW MEXICO**



Creating a Safer Tomorrow

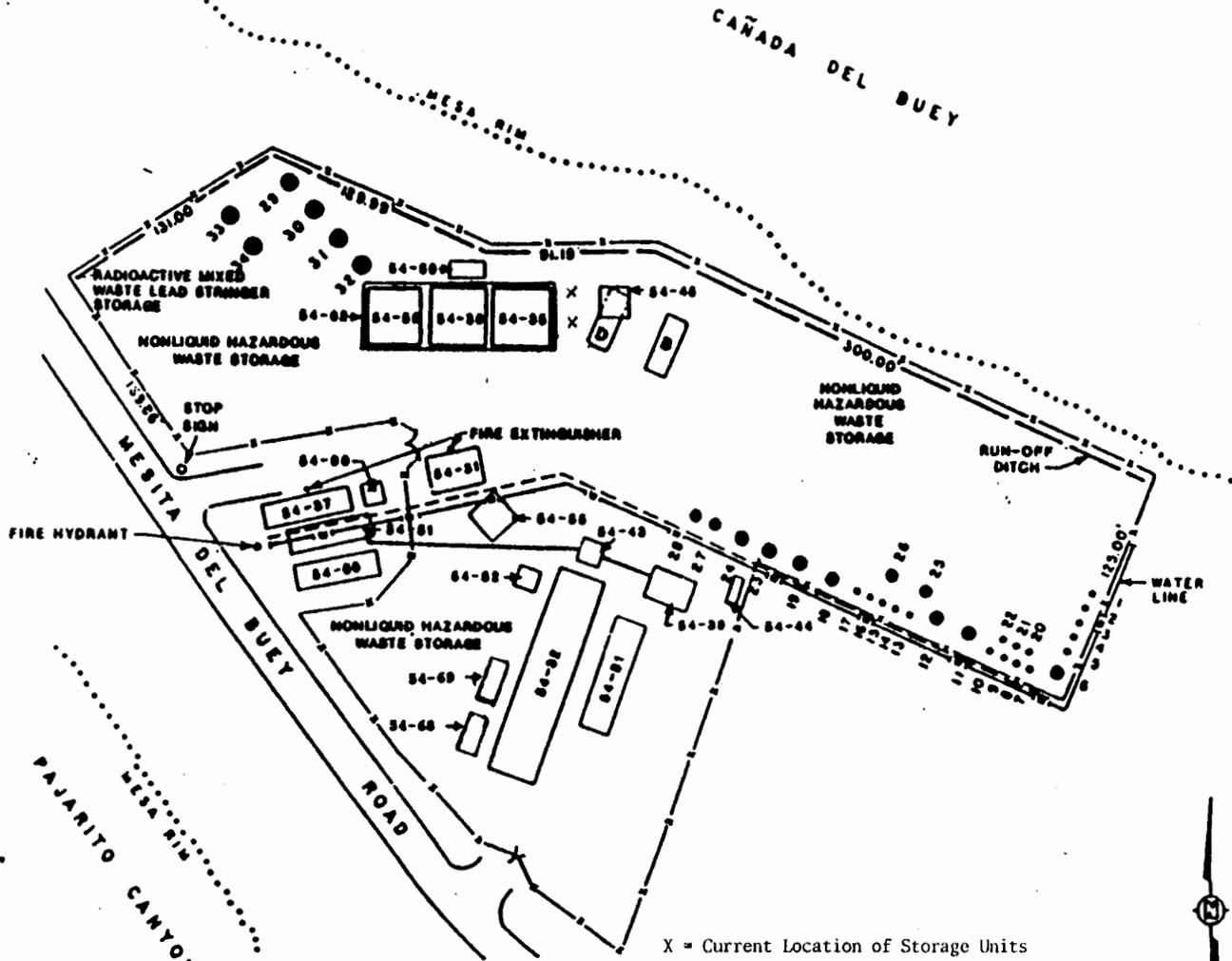


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 CHECKED BY: []
 DATE: []
 DRAWING NUMBER: []

LEGEND

MATERIAL DISPOSAL UNITS

- 84-31 PACKAGING BUILDING
- 84-32 ROOFED WASTE STORAGE PAD
- 84-36 TREATMENT PAD
- 84-36 SAMPLING PAD
- 84-37 OFFICE TRAILER
- 84-38 PCB BUILDING
- 84-43 SEPTIC HOLDING TANK
- 84-44 PROPANE TANK
- 84-46 EQUIPMENT STORAGE BUILDING
- 84-46 EQUIPMENT STORAGE BUILDING
- 84-51 OFFICE TRAILER
- 84-55 SAMPLE PREP LAB BUILDING
- 84-59 TRANSPORT PAD
- 84-59 OFFICE TRAILER
- 84-62 CANOPY OVER MD-36, MD-36, MD-54
- 84-65 MODULAR STORAGE BUILDING
- 84-65 MODULAR STORAGE BUILDING
- 84-66 SEPTIC HOLDING TANK
- 84-61 PCB OIL TANK STORAGE
- 84-62 DRUM CRUSHER
- 84-62 SURFACE IMPOUNDMENT
- 84-62 SURFACE IMPOUNDMENT
- LOCATION OF AREA 1 INACTIVE SHAFTS



X = Current Location of Storage Units
 54-68, 54-69 = Proposed Location of Storage Units

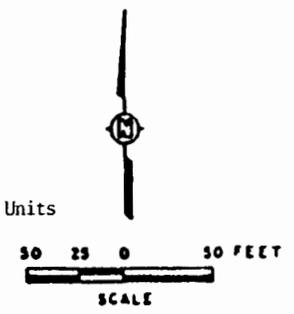


Figure 6
TA-84 AREA L
WASTE MANAGEMENT UNITS
 PREPARED FOR
LOS ALAMOS
NATIONAL LABORATORY
LOS ALAMOS, NEW MEXICO



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