



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VI
1201 ELM STREET
DALLAS, TEXAS 75270

File
REQ 85
S19

HSWA
General

October 3, 1985

Mr. Peter Pache, Manager
Hazardous Waste Section
New Mexico Environmental Improvement
Division
P.O. Box 968
Santa Fe, New Mexico 87504-0968

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Dear Mr. Pache:

Enclosed is the preliminary assessment (PA) for Signetics Corporation, EPA I.D. Number NMD000709782. The PA must be completed prior to the issuance of a RCRA permit to Signetics. In doing the PA, we have reviewed our files. We need NMEID's concurrence on this PA in order to ensure all issues are addressed in the event our files are not complete. We would appreciate your concurrence, or non-concurrence, within 30 days of receipt of this letter. If you have any questions, please call Jamie Wright at (214) 767-2614.

Sincerely yours,

David L. Olschewsky, Chief
Technical Section

Enclosure

RECEIVED

OCT 07 1985

HAZARDOUS WASTE SECTION

PRELIMINARY ASSESSMENT FACILITY CHECKLIST

Facility: Signetics Corporation

Reviewer: Jamie Wright

EPA ID #: NMD000709782

Date: 9-23-85

HAZIT #: _____

Waste Management Units: (attach PA unit checklist for each unit)

- RCRA Regulated Units (include status)
 Chemical Storage #2 - SO1
 Flammable Storage #4 - SO1
 3 5000 gallon tanks - SO2
 2 fiberglass, 1 steel
- Solid Waste Management Units (include status):
 elementary acid neutralization tank w/ discharge to
 municipal sewer.

Reviewed Documents :

- RCRA: Part A Part B Draft Permit
- CERCLA: Notification NO date _____
 Mitre Model _____ date _____ HRS _____
 Remedial Investigation _____ date _____
 Feasibility Study _____ date _____
 Record of Decision _____ date _____

EID Inspection
6-14-84 - no violations

- Inspection Reports: (Agency, date of inspection)
 9/9/82 RCRA - not operational - EPA
 Inspection of 4-24-85 - no violations RCRA - EID
- Enforcement Actions: (Agency, date of action)
~~9/9/82 EPA RCRA~~
 EPA C.O. 9-20-82 RCRA ; closure insurance violations
 EPA C.O. 9-16-83 RCRA closure / post-closure assurance violations
- Exposure Information: N/A

6. Other Information: (Aerial photos, Federal/State Agencies, TSCA/OSHA/NPDES permits, local contractors, etc...)

Site Description:

See facility map Attachment 1
Manufacturer of integrated circuits

Waste Analysis - Attachment 3

Process Information - Attachment 4

SWMU's - Attachment 5

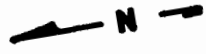
Summary:

No problems have been discovered during RCRA inspections at the facility which indicate that prior releases may have occurred. The WMEID CERCLA staff verified in early 1985 that the old municipal landfill is not on Signetics property and what was has been removed. No further action is necessary at this site.

Recommended Actions: (indicate all applicable)

- 1. No Further Action
- 2. Site Investigation
- 3. Remedial Investigation
- 4. Corrective Action
- 5. Referral for Health Assessment

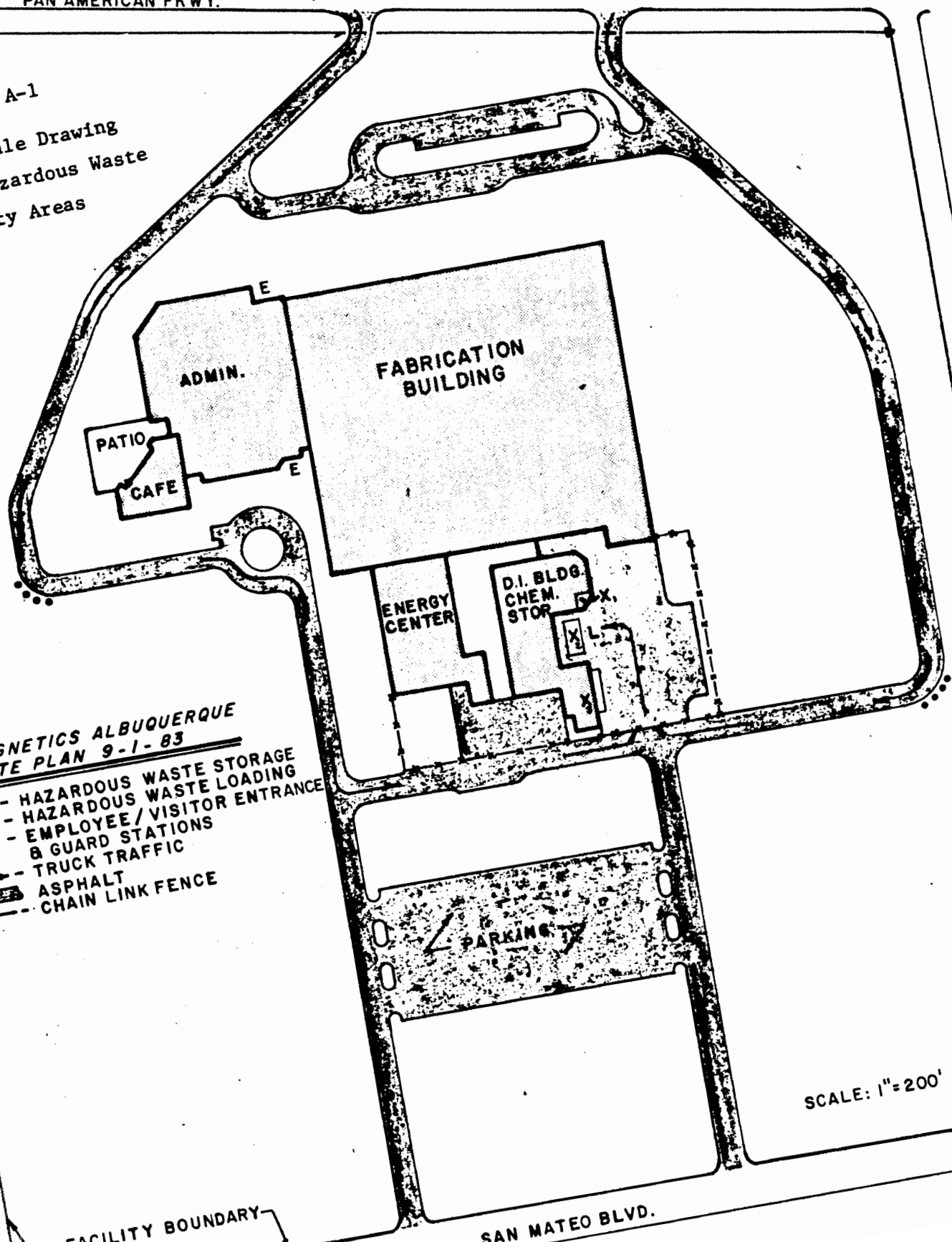
Attachment 1



I-25 INTERSTATE FRWY

PAN AMERICAN FRWY.

EXHIBIT A-1
Facility Scale Drawing
Indicating Hazardous Waste
Activity Areas



SIGNETICS ALBUQUERQUE
SITE PLAN 9-1-83

- X - HAZARDOUS WASTE STORAGE
- L - HAZARDOUS WASTE LOADING
- E - EMPLOYEE / VISITOR ENTRANCE & GUARD STATIONS
- TRUCK TRAFFIC
- ASPHALT
- CHAIN LINK FENCE

SCALE: 1" = 200'

FACILITY BOUNDARY

SAN MATEO BLVD.

SAN DIEGO AVENUE

ALAMEDA AVENUE

SECTION B

FACILITY DESCRIPTION

This section provides a general description of the hazardous waste management facility as required by HWMR 302.A.1.b. This description is intended to acquaint the permit application reviewer/permit writer with an overview of the facility.

B.1 General Description:

Signetics Corporation (EPA ID No. NMD 000709782) is located on the northern boundary of the City of Albuquerque, New Mexico. The street address is:

Signetics Corporation
9201 Pan American Freeway, N.E.
Bernalillo County
Albuquerque, NM 87113

The mailing address is:

Signetics Corporation
P. O. Box 10272
Albuquerque, NM 87184

The geographic coordinates are: Latitude 35 degrees 05' 020", Longitude 106 degrees 39' 015".

Signetics Corporation legally controls operation of the facility and is the owner of the facility and the land on which the facility is located. There are 4 x 27,000 sq. foot manufacturing areas within the 500,000 sq. foot complex.

This facility is primarily a manufacturer of integrated circuits (I.C.'s). Three types of hazardous wastes result from Signetics' activities: Corrosive Wastes, Toxic Wastes, and Ignitable Wastes. The process steps which generate these hazardous wastes are mentioned below.

The etching step in I. C. production generates Hydrofluoric Acid wastes. These streams are collected through segregated pipes into 5,000-gallon storage tanks. The wastes are then shipped to commercial Treatment Storage Disposal Facilities (TSDF's) by permitted transporters. Most I. C. cleaning steps involve acid (sulfuric, nitric) solutions. These wastes are diverted to elementary wastewater neutralization system.

The treatment of wastewater, whose only hazardous characteristic is Corrosivity, by pH neutralization, is exempt from RCRA requirement per 40 CFR 264.1 (g) (6) and HWMR 206.A.4.f.

Mixed Ignitable "Solvent I" wastes contain components that have ignitable or corrosive characteristics. These mainly result from the photo stripping process. This waste is stored in a 5,000 gal. tank. Other waste photolithographic chemicals (Waste "Solvent II") are segregated in 55-gal. drums. Toxic wastes comprise gloves, containers, and rags contaminated with arsenic which is used in the "doping" process discarded lamps that contain mercury are stored separately on site in 55-gallon drums. These wastes are then removed as in the Hydrofluoric Acid Wastes.

Because this is a modern facility, all conceivable wastes are segregated through appropriate plumbing at work stations at the time of construction. In addition, there are no "hidden" pipes or drains. All plumbing are accessible to routine visual inspections.

Signetics-Albuquerque stores only the hazardous wastes generated on site. No off-site wastes are accepted. Signetics operates no injection or withdrawal wells, and there are no surface or sub-surface leachates or landfills. In addition, there are no surface impoundments, waste piles, incinerators, land treatment facilities, or landfills in use at this facility. Rain water drains along the north and south property boundary via "arroyos" or channels.

The contact person and party responsible for the hazardous waste management activities at Signetics Albuquerque facility is:

Gary M. Mavrakis
Chemical Support Section Head
(505) 822-7188

The electronics industry is a dynamic industry which is responsive to changes in the economy and new technology. Changes in the industry can result in changes in the waste stream quantity, composition, and handling procedures. This is also a facility with expansion capacities; any additional changes will be reviewed and updated in this plan.

Attachment 2
PRELIMINARY ASSESSMENT UNIT CHECKLIST

Unit: Chemical Storage #2
EPA #: NMD000709782
Hazit #: _____

Reviewer: Jamie Wright
Date: 9/23/85

Waste Management Unit: (include type and status)

- X, on Facility Map, to be permitted for RCRA
1. RCRA: 55 gal. drum storage of solid waste contaminated with Hg or Arsenic
Capacity 64 drums
 2. SWMU:

Evidence of Release: (eg. sampling data, visual inspections, etc.)
NONE indicated during RCRA inspections

Pollutant Dispersal Pathways: (groundwater, surface water, air)

Waste Characteristics: (type, quantity, fate, toxicity)
D004, D009 in 1984 had 2 drums of each, EP Toxic

Target Populations of Concern: (human, environment)
Workers

Documents Reviewed:

Part A, Part B, draft permit

Summary:

The storage area has not had any problems in the past with releases as indicated by inspections. The area also meets the runoff requirements of §264. What is stored is solid not liquid, therefore runoff should not be a problem anyway. The area seems to indicate no prior problems and further action is not necessary

Recommended Actions: (indicate all applicable)

- 1. No Further Action
- 2. Site Investigation
- 3. Remedial Investigation
- 4. Corrective Action
- 5. Referral for Health Assessment

PRELIMINARY ASSESSMENT UNIT CHECKLIST

Unit: Flammable Storage #4
 EPA #: NM0000709782
 Hazit #: _____

Reviewer: James Wright
 Date: 9/23/85

Waste Management Unit: (include type and status)

1. RCRA: X_3 on Facility Map, to be permitted
 55 gal. drum storage of ignitable waste, capacity -
 36 drums
2. ~~SWMU:~~

Evidence of Release: (eg. sampling data, visual inspections, etc.)
 NONE indicated on RCRA inspection reports

Pollutant Dispersal Pathways: (groundwater, surface water, air)
 fire, explosion creating a fire fighting situation w/ runoff
 to soil if large quantities of water are required
 and air if fire

Waste Characteristics: (type, quantity, fate, toxicity)
 solvents, during 1984 had 15 drums, D001 and F003

Target Populations of Concern: (human, environment)
 workers

Documents Reviewed:

Part A, Part B
 draft permit

Summary:

The storage area has not had any problems in the past with releases as indicated by inspections. There is no indication of problems with operating and/or maintenance procedures indicated. The area meets any applicable non-runoff requirements of §264. The storage area seems to have no prior problems and further action is not necessary.

Recommended Actions: (indicate all applicable)

- 1. No Further Action
- 2. Site Investigation
- 3. Remedial Investigation
- 4. Corrective Action
- 5. Referral for Health Assessment

PRELIMINARY ASSESSMENT UNIT CHECKLIST

Unit: Tank #3
EPA #: NM0000709782
Hazit #: _____

Reviewer: Jamie Wright
Date: 9-23-85

Waste Management Unit: (include type and status)

1. RCRA: 5000 gal tank, bought in 1982, supported vertically in an underground covered concrete vault which has been coated with a chemically-resistant resin, it is a
2. ~~SHMU~~: steel tank, to be permitted for RCRA located on facility map as X₂

Evidence of Release: (eg. sampling data, visual inspections, etc.)

None indicated from RCRA inspections

Pollutant Dispersal Pathways: (groundwater, surface water, air) air, if fire, if tank leaks, the concrete vault holds over 9000 gal. (192% of tank volume). the tank and the vault can easily be inspected, as part of the contingency plan the vault will be pumped out, the lines is compatible, no problems should occur unless the waste ignites and overflow of the vault results.

Waste Characteristics: (type, quantity, fate, toxicity)

Ignitable Solvent Waste. in 1984 generated approximately 40,000 gal., waste is pumped out and sent off-site to a TSD, waste is D001, F003

Target Populations of Concern: (human, environment)

workers.

Documents Reviewed:

Part A, Part B,
draft permit

Summary:

No problems have been detected during inspections at the facility regarding releases or operating/maintenance procedures. No prior problems seem to have occurred and further action is not necessary.

Recommended Actions: (indicate all applicable)

- 1. No Further Action
- 2. Site Investigation
- 3. Remedial Investigation
- 4. Corrective Action
- 5. Referral for Health Assessment

PRELIMINARY ASSESSMENT UNIT CHECKLIST

Unit: Tank # 4
EPA #: NMD000709782
Hazit #: _____

Reviewer: James Wright
Date: 9-23-85

Waste Management Unit: (include type and status)

- 1. RCRA: 5000 gal tank, bought June 1982, supported vertically in underground concrete vault that has been ~~treated~~ coated w/ a chemically resistant resin, fiberglass tank to be permitted
- 2. SWMU: X2 on Facility Map

Evidence of Release: (eg. sampling data, visual inspections, etc.)
None indicated from RCRA inspections

Pollutant Dispersal Pathways: (groundwater, surface water, air)
Concrete vault holds over 9000 gal. (192% capacity of tank)
little chance of overflow, liner is compatible

Waste Characteristics: (type, quantity, fate, toxicity)
Buffered Oxide Etch Waste: 1984 30,000 gal generated; approximately.
D002, corrosive and toxic, waste is sent off-site to a TSD

Target Populations of Concern: (human, environment)
Workers

Documents Reviewed:
Part A, Part B, draft permit

Summary:

No problems have been detected during inspections at the facility regarding releases or operating/maintenance procedures. No prior problems seem to have occurred and further action is not necessary.

Recommended Actions: (indicate all applicable)

- 1. No Further Action
- 2. Site Investigation
- 3. Remedial Investigation
- 4. Corrective Action
- 5. Referral for Health Assessment

PRELIMINARY ASSESSMENT UNIT CHECKLIST

Unit: Tank #5

Reviewer: James H Wright

EPA #: NMD000709782

Date: 9-23-85

Hazit #: _____

Waste Management Unit: (include type and status)

- 1. RCRA: 5000 gallon fiberglass tank supported vertically in an underground chemically-resistant concrete vault. X₂ on facility map, to be permitted
- 2. SWMU:

Evidence of Release: (eg. sampling data, visual inspections, etc.)
None indicated in RCRA inspections

Pollutant Dispersal Pathways: (groundwater, surface water, air)
concrete vault holds over 9000 gallons. little chance for overflow, liner is compatible.

Waste Characteristics: (type, quantity, fate, toxicity)
Hydrofluoric Acid Waste, 1984 ~~over~~ approximate generation of 50,000 gal, Corrosive and toxic, D002) waste sent off-site to a TSD.

Target Populations of Concern: (human, environment)
Workers

Documents Reviewed:
Part A, Part B. draft permit,

Summary:

No problems have been detected during inspections at the facility regarding releases ~~or~~ operating / maintenance problems. No prior problems seem to have occurred and further action is not necessary.

Recommended Actions: (indicate all applicable)

1. No Further Action
2. Site Investigation
3. Remedial Investigation
4. Corrective Action
5. Referral for Health Assessment

