

REPORT OF INSTALLATION

HAZARDOUS MATERIALS STORAGE TANKS

SIGNETICS CORP.
ALBUQUERQUE, NEW MEXICO

FOR: YEAROUT MECHANICAL & ENGINEERING, INC.

BY: JOHN C. CRAFTON, P.E.
BPLW ARCHITECTS & ENGINEERS, INC.

HAZARDOUS MATERIALS STORAGE TANKS INSTALLATION

Signetics Corp., Albuquerque, NM

PROJECT LOCATION: **SIGNETICS CORPORATION**
 9201 PAN AMERICAN FREEWAY, NE
 ALBUQUERQUE, NEW MEXICO 87113

INSTALLING
CONTRACTOR: **YEAROUT MECHANICAL &**
 ENGINEERING, INC.
 3228 LOS ARBOLES, NE
 ALBUQUERQUE, NEW MEXICO 87190

INSPECTION & REPORT: **BPLW ARCHITECTS & ENGINEERS, INC.**
 2400 LOUISIANA BLVD., NE
 AFC #5, SUITE 400
 ALBUQUERQUE, NEW MEXICO 87110

INSPECTION DATE: **JANUARY 3, 1991**



HAZARDOUS MATERIALS STORAGE TANKS INSTALLATION**Signetics Corp., Albuquerque, NM**

PROJECT DESCRIPTION:

The installation Contractor, Yearout Mechanical & Engineering, Inc., completed installation of two 5,000-gallon (nominal) reinforced fiberglass plastic storage tanks for Signetics Corporation during the last week of December, 1990. The installation was inspected on January 3, 1991, and found to be complete and well installed. The tanks were furnished to the installation contractor by Signetics Corporation.

It appears that all Environmental Protection Agency requirements have been met by this installation for structural integrity, secondary containment, corrosion resistance and damage protection during installation. No damage has occurred to the tank, piping or containing structure as of the inspection date, and the tanks are to be placed in operation.



HAZARDOUS MATERIALS STORAGE TANKS INSTALLATION

Signetics Corp., Albuquerque, NM

PURPOSE OF REPORT: This report is generated to satisfy the requirements of the New Mexico Environmental Protection Agency for independent certification of installation of hazardous materials storage tanks.

**SUMMARY
OF FINDINGS:**

The installations of the two 5,000-gallon fiberglass reinforced plastic tanks are adequate for storage of the hazardous materials intended.

**TANKS &
CONSTRUCTION:**

The two tanks are of fiberglass-reinforced plastic construction, designed to be resistant to the intended storage material. Structural integrity and corrosion resistance are guaranteed by the manufacturer of the tanks. Each tank is capable of storing a nominal volume of 5,000 gallons of liquid. Manufacturer's data shall be available for Agency review.

INSTALLATION:

Both 5,000-gallon storage tanks are installed in concrete storage pits below floor level. Floor level is maintained using fiberglass floor grating for additional safety from corrosion.

**PIPING
CONNECTIONS:**

There are two, 4" PVC pipes connected to each tank. The connections are PVC flanges bolted to flanged bulkhead RFP fittings on the top of the tank. Piping connections have been made without strain on the bulkhead fittings. For additional protection, the bulkhead fittings were fitted with reinforcing gussets at the factory.



HAZARDOUS MATERIALS STORAGE TANKS INSTALLATION**Signetics Corp., Albuquerque, NM**

PROTECTION**FROM ELEMENTS:**

The tanks and pits are located inside the building to protect from both ultra-violet rays and extremes in temperature (to prevent freezing and high temperature damage). This also allows for protection of the PVC piping from the same elements.

CONCRETE PITS:

The FRP tanks are anchored and bolted to the floor of the concrete pits. The bases of the tanks are resting soundly on the flat concrete floor. The top of the tanks are approximately six feet below the floor line of the top of the pits, and piping sleeves out of the pit are located approximately three feet above the tank top.

SECONDARY**CONTAINMENT:**

The concrete pit will serve very well as a secondary containment, holding far in excess of tank capacity (approximately two times the capacity of the tanks).

