

DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

To: Pam
To: _____
To: _____
To: _____

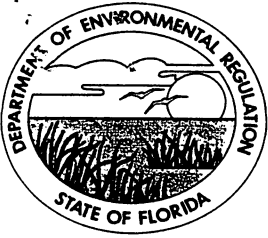
NORTHEAST DISTRICT - JACKSONVILLE

*TO: Don Trussell, Hazardous Waste Section, Tallahassee
THROUGH: Mike Fitzsimmons *MF*
Ashwin B. Patel *ABP*
Vicky G. Valade *VG*
FROM: Pamela Fellabaum *PF*
DATE: April 4, 1991
SUBJECT: Quadrex HPS Incorporated
Hazardous Waste Inspection of March 26, 1991
Alachua County - FLD 980 711 071

Attached is subject inspection report.

* Land Ban

PF:ajb



Florida Department of Environmental Regulation

Northeast District • Suite B200, 7825 Baymeadows Way • Jacksonville, Florida 32256-7577

Lawton Chiles, Governor

Carol M. Browner, Secretary

April 9, 1991

Mr. Ben Warren, Vice President
Quadrex HPS Incorporated
Post Office Box 4100
Gainesville, Florida 32606

Dear Mr. Warren:

Quadrex HPS Incorporated
Hazardous Waste Inspection of March 26, 1991
Alachua County - FLD 980 711 071


Enclosed is a copy of the report documenting the March 26, 1991 Hazardous Waste Inspection conducted by this office.

If you have any questions regarding this report or hazardous waste regulations, please do not hesitate to contact this office for assistance.

Thank you for your time and continued cooperation.

Sincerely,

Pamela Fellabaum
Environmental Specialist
Hazardous Waste Section

PF:ajb 
Enclosure



Florida Department of Environmental Regulation

Northeast District • Suite B200, 7825 Baymeadows Way • Jacksonville, Florida 32256-7577

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HAZARDOUS WASTE INSPECTION REPORT

1. INSPECTION REPORT __COMPLAINTXXROUTINE__ FOLLOW-UP __ PERMITTING

FACILITY NAME Quadrex HPS Incorporated DER/EPA ID FLd 980 711 071

STREET ADDRESS 1940 NW 67th Place, Gainesville, Florida 32606

MAILING ADDRESS Post Office Box 4100, Gainesville, Florida 32606

COUNTY Alachua PHONE (904) 373-6066 DATE 3/26/91 TIME 10:45

TYPE OF FACILITY:

Generator Status

Conditionally Exempt

__Small Quantity

__Generator

(100-1000 kg/month)

xxGenerator (>1000kg/mo)

xxHazardous Waste

Fuel Marketer

Storage

xxContainer

xxTank

__Waste Pile

__Surface Impoundment

Treatment

__Tank

__Land Treatment

__Thermal

__Chem/Phys/Bio.

__Incinerator

__Surface Impoundment

Transporter

__Transporter

__Transfer Facility

Disposal

__Landfill

__Surface Impoundment

__Waste Pile

Non-Handler

__Non-Handler

2. Applicable Regulations:

__ 40 CFR 261.5 xx 40 CFR 262 __ 40 CFR 263 __ 40 CFR 264 xx 40 CFR 265
xx 40 CFR 266.34

3. Responsible Official: Mr. Ben Warren, Vice President

4. Survey Participants & Principal Inspector

Mr. Flaacke, Quadrex

Mr. Whittle, Quadrex

Mr. Fleetwood, Quadrex

Pam Fellabaum, FDER

5. Facility Latitude: 29°42'08"

Longitude: 82°20'51"

Section: 18

Township: 9S

Range: 20E

6. Type of Ownership: FEDERAL STATE COUNTY MUNICIPAL PRIVATE

7. Permit number: H001-169480 Date Issued: 9/28/90 Expiration Date: 9/27/95

8. Pre-arranged Inspection: XXYes __No

Quadrex HPS Incorporated
Hazardous Waste Inspection of
March 26, 1991

PROCESS DESCRIPTION:

Quadrex HPS Incorporated is a waste processing and liquid bulking operation for liquid scintillation fluids (LSF). These fluids are used by researchers to detect small amounts of radioactivity from samples of research materials that have been immersed in the fluid. The LSF contain small amounts of xylene and toluene, and are therefore, regulated under RCRA as F003/F005 hazardous waste and are subject to the land ban regulations. Quadrex is also subject to NRC regulations due to the potential radioactivity of the LSF.

Brokers throughout the United States ship the LSF to Quadrex in drums containing either small glass or plastic vials or bulk liquids. Approximately ninety percent (90%) of the LSF arrive in vials and the remaining ten percent (10%) arrive in bulk liquids in lined drums. Both types of drums contain cushioning packing material, usually vermiculite.

After the paperwork corresponding to each drum has been checked, the drums are assigned a number and taken to the temporary holding area before processing. The drums that contain the LSF vials and packing material are processed inside the main facility building. The drum lids are removed, the drums are lifted by an air hoist and the contents are emptied onto a shaker screen. The packing materials that fall into a catch basin are radiologically tested and then put into a roll-off. This packing material is shipped to Chemical Conservation Company for use in the production of light weight aggregate.

The glass and plastic vials that remain on top of the shaker table are conveyed to a crusher. The fluid in the vials is drained into a basin, radiologically tested and then pumped to a 3,000 gallon above-ground tank outside. The broken glass and plastic are caught in a catch basket and rinsed in a solution of alcohol and water which is in turn radiologically tested then pumped to the 3,000 gallon tank.

The crushed, rinsed plastic/glass is visually inspected to remove any uncrushed plastic/glass containers and placed in a drum where any residual liquids drain to the bottom of the drum. The accumulated liquid is then drained off, tested, and pumped to the 3,000 gallon tank. The remaining glass/plastic is put into trucks and sent to Chemical Conservation for disposal in an industrial waste landfill.

The bulk liquids that are brought to Quadrex arrive in both trucks and containers. The liquids that test negatively radiologically are then pumped through a filter to the 3,000 gallon tank. The packing material and empty drums are tested and picked up by

Quadrex HPS Incorporated
Hazardous Waste Inspection of
March 26, 1991 - page two

Chemical Conservation. The inner liners are rinsed and either returned to the broker or are picked up by Chemical Conservation. All filtered solid material (gloves and towels) are manifested and shipped to Rineco Chemical Industries in Benton, Arkansas.

Liquids that test negative radiologically and have waste codes D001, F003, F005 are pumped to the 3,000 gallon tank. Oldover Corporation pumps out this tank and the liquids are burned as hazardous waste fuel by Florida Solite Corporation. This tank has 100% secondary containment and a sump to contain any spillage. All underground piping has been brought above ground to comply with the 40 CFR 264 tank regulations. Liquids with waste codes that Oldover is not permitted to accept remain in the drums for transportation to other facilities including: Giant Cement Co., Rineco Chemical Industries, Allworth, Inc., Fisher Industrial Services and Detrex Corp.

All liquids that test positive radiologically are put into drums and placed in the main hazardous waste storage area for additional radiological decay. These drums were closed and were properly labeled.

All empty drums are radiologically tested and then loaded onto a trailer and sent to Drum Service of Florida in Zellwood.

Quadrex was issued Operating Permit #HO 01-169480 on September 28, 1990. The expiration date of the permit is September 27, 1995. The hazardous waste storage area has been built to permit specifications and consists of a covered, bermed concrete storage structure with secondary containment and sumps. The facility appears to be operating within its permitted storage capacity. There were approximately 600 55-gallon drums of hazardous waste inside the storage area. All of the drums were labeled with hazardous waste labels and with the dates of accumulation. Hazardous waste generated by Quadrex is also stored in the permitted storage area and all of these drums were closed and properly labeled and dated.

A review of the facility's operating records found them to be in order. No violations were noted at the time of the inspection.