

STATE OF FLORIDA



DEPARTMENT OF

Health & Rehabilitative Services

Bob Graham, Governor

1317 WINEWOOD BOULEVARD

TALLAHASSEE, FLORIDA 32301

April 30, 1980

U.S. Nuclear Regulatory Commission
Office of State Programs
Washington, D.C. 20555

ATTN: Ms. Marie Janinek

Dear Ms. Janinek:

This is the second quarterly report for the first year under contract #NRC-06-79-307 covering the period from January 1, 1980, through March 31, 1980.

Most of the objectives that were outlined in our first quarter report to be accomplished in this second quarter were attained. A lot of useful data is being collected and we should soon know where to concentrate our monitoring efforts on a state wide basis.

As you are aware, the services of Mr. Don Gibbons were provided to us for two days in November 1979, to help launch this study. We would now like for Mr. Gibbons to return to Florida for a few more days so that this study may further benefit from his guidance, particularly when we undertake our surveys in the Miami area. Any assistance that you or Mr. Gibbons may provide would be greatly appreciated.

This report is a review of this quarter's activities. A more detailed report will be submitted at the end of the fourth quarter (annually). In the meantime, for any questions or concerns you may have, please do not hesitate to contact this office.

Sincerely,

Paul E. Shuler, Jr.

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Public Health Physicist
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(see list)

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I. Facility Contacts (telephone)

A telephone survey was conducted in the Ft. Lauderdale area as a trial method for determining frequent handlers of radioactive material shipments. Most of the following listed facilities affirmed that they do handle some radioactive material shipments, but on an infrequent basis. Those that do handle such shipments regularly are Purolator, Nuclear Pharmacy, Inc., and Medical Delivery Service. Those telephoned are as follows:

- a. Eller and Company
- b. Gulfstream Shipping Corporation
- c. Lavino Shipping Company
- d. Sea Land Service, Inc.
- e. Seabulk Corporation
- f. Strachan Shipping Company
- g. Seatraders, Ltd.
- h. Schmahl and Schmahl, Inc.
- i. American Trading Company
- j. J.P. Reynolds Company
- k. Maki International
- l. Martin and Merrill
- m. Tropical Customs Brokers
- n. Dart Transit Company
- o. Dow Trucking Company
- p. Florida Texas Freight
- q. Rush Trucking
- r. Roadway Express
- s. Pilot Freight Carriers
- t. Republic Freight System (Yellow Freight)
- u. United Parcel Service
- v. Purolator Courier Service
- w. Eastern Airlines - Air Freight
- x. Delta Airlines - Air Freight
- y. National Airlines - Air Freight
- z. Northwest Airlines - Air Freight
- aa. Ozark Airlines - Air Freight
- bb. Republic Airlines - Air Freight
- cc. Trans-World Airlines - Air Freight
- dd. United Airlines - Air Freight
- ee. Federal Express
- ff. Florida East Coast Railroad
- gg. Seaboard Coast Railroad Company
- hh. Nuclear Pharmacy, Inc.
- ii. Medical Delivery Service of Miami

II. Facilities Visited

In addition to the freight handling facilities visited during the first quarter, other facilities in Tampa, Ft. Lauderdale and Jacksonville have been visited in order to determine their relative volume of radioactive material shipments. Those additional facilities are:

- a. Airborne Freight Corporation - Tampa, Jacksonville
- b. Air Cargo (U.S. Air) - Tampa
- c. Purolator Courier Corporation - Tampa, Ft. Lauderdale
- d. Eastern Airlines - Tampa, Ft. Lauderdale
- e. Delta Air Lines - Tampa, Ft. Lauderdale
- f. Federal Express - Tampa
- g. Emery Air Freight - Tampa
- h. Braniff Airlines - Tampa
- i. Ozark Airlines - Ft. Lauderdale
- j. Sunny Air Freight - Ft. Lauderdale
- k. Rush Trucking Company - Ft. Lauderdale
- l. Shulman Air Freight Inc. - Jacksonville
- m. Republic Airlines - Jacksonville

III. Facility and/or Package Inspections

Of the additional terminals contacted during this quarter, none appeared to be handling the volume of radioactive material packages as that of the Purolator - Orlando facility.

During our initial visit to the Tampa and Ft. Lauderdale terminals previously listed, no radioactive material packages were present at that particular time.

During a later visit on a Sunday night to the Purolator-Tampa terminal, only three radioactive material packages were present. A truck was due later that night from the Purolator - Orlando terminal with a large shipment of radioactive material packages. Likewise, during our visit to the Purolator - Ft. Lauderdale terminal, it was reaffirmed that most of their radioactive material packages are received from their Orlando terminal. Again, the majority of Purolator's radioactive material packages can be inspected early on Sunday evenings in Orlando.

The following package inspections were performed:

<u>PLACE</u>	<u>DATE</u>	<u>INSPECTION RESULTS</u>
Purolator - Orlando	1/22/80	Inspected 4 of 4; one non-compliance item
Purolator - Tampa	1/27/80	Inspected 3 of 3; two non-compliance items
Purolator - Tampa	2/22/80	Inspected 1 of 1; no non-compliance items
Airborne - Tampa	2/22/80	Inspected 1 of 1; no non-compliance items
Purolator - Orlando	3/17/80	Inspected 6 of 6; no non-compliance items

More detailed data concerning these packages and facilities will be included in our annual report.

IV. Vehicle Inspections

No vehicle inspections were reported during this quarter.

V. Personnel and/or Area Monitoring

Results of 32 TLD devices that had been placed in areas or on personnel were received from Radiation Detection Company:

A. Area Monitors

<u>PLACE</u>	<u>DURATION</u>	<u>mR</u>
Delta - Tampa	1/23-2/22	0
Delta - Tampa	1/23-2/22	0
Emery - Tampa	1/23-2/22	15
Federal Express - Tampa	1/23-2/22	0
Eastern - Tampa	1/23-2/22	0
Eastern - Tampa	1/23-2/22	0
Air Cargo - Tampa	1/23-----	not recovered
Purolator - Tampa	1/23-2/22	240
Purolator - Tampa	1/23-2/22	65
Purolator - Tampa	1/23-2/22	30
Purolator - Tampa	1/23-2/22	20
Purolator - Tampa	1/23-2/22	20
Purolator - Tampa	1/23-2/22	15
Purolator - Tampa	1/23-2/22	0
Purolator - Tampa	1/23-2/22	0
Purolator - Tampa	1/23-2/22	0
Airborne - Tampa	1/23-2/22	0
Purolator - Orlando	12/16-2/19	1050
Purolator - Orlando	12/16-2/19	1600
Purolator - Orlando	12/16-2/19	600
Purolator - Orlando	12/16-2/19	310
Purolator - Orlando	12/16-----	not recovered
Purolator - Orlando	12/16-2/19	40
Purolator - Orlando	12/16-2/19	0
Airborne - Jacksonville	1/4 -2/13	0
Airborne - Jacksonville	1/4 -2/13	0
Airborne - Jacksonville	1/4 -2/13	0

B. Personnel Monitors

<u>PLACE</u>	<u>DURATION</u>	<u>mrem</u>	<u>JOB</u>
Purolator - Orlando	12/16-2/19	0	Handler
Purolator - Orlando	12/16-2/19	100	Handler
Purolator - Orlando	12/16-not recovered		Driver
Purolator - Orlando	1/22-2/19	0	Dispatcher
Airborne - Jacksonville	2/13-not recovered		Handler
Airborne - Jacksonville	2/13-not recovered		Handler
Airborne - Jacksonville	2/13-not recovered		Handler

VI. Transportation Reviews Conducted During Routine Radioactive Materials License Inspections

A. During many of the routine inspections of Florida Radioactive Materials Licensees, their transportation aspects are being reviewed by the inspector. Those additional facilities that are licensed to use radioactive materials for which reports concerning their transportation of radioactive materials were submitted this quarter are as follows:

- a. Uranium Recovery Corporation in Polk County, 1/9/80
- b. Miami Heart Institute, 1/11/80
- c. American Hospital Supply in Dade County, 1/3/80
- d. Titanium Enterprises near Green Cove Springs, 2/14/80
- e. Sandoz, Inc. in Homestead, 2/1/80
- f. Nuclear Pharmacy, Inc. in Miami, 1/8/80
- g. University of Central Florida near Orlando, 2/6/80
- h. Textatope Pharmacy in Orlando, 2/7/80

B. During the 2/14/80 inspection of Titanium Enterprises, their transportation procedures were reviewed. TE no longer ships "LSA-Radioactive" material by rail to Tennessee. Instead, they ship to the Port at Jacksonville via truck (Crown Motor Lines). It is TE's responsibility to provide proper placards. The representative of TE being interviewed stated that the trucking company had said they would refuse to ship for them if placards were placed on their trucks. When the TE representative was advised that such placards were necessary, he obtained one from a nearby cabinet. When he was told that one on each of the four sides of the vehicle was required, he said that he was not aware of that requirement because he had been told otherwise.

VII. Transportation Incidents

One transportation incident was reported during this second quarter of the contract.

Word was received by our Miami office from the Texas Radiation Control Program that a shipment containing $^{241}\text{Am-Be}$ and ^{137}Cs was missing that had been shipped from Texas to Peru through the Miami Airport. A search and survey of the Miami Airport freight handling facilities revealed nothing. Paper work reviewed indicated that the shipment had left Miami via Airlift International, but was not accounted for upon arrival of the flight in Peru.

VIII. Planned Activities

The third quarter activities planned under this contract are as follows:

- a. Inspect terminal facilities in the Miami area.
- b. Inspect the vehicles delivering from out-of-state to the Purolator-Orlando terminal on weekends.
- c. Inspect the packages and handling of same at the Purolator-Orlando terminal on Sunday nights.
- d. Inspect reactor low level waste shipments. (None of these were reported inspected during the second quarter.)
- e. Continue to monitor the facilities that demonstrate relatively high readings on their area TLD devices.

Copies:

10 to NRC
1 to John Lanham, Jacksonville
1 to Uray Clark, Tallahassee
1 to Orlando (OPCRHI)
1 to Miami (OPCRHI)
1 to Dade County Health Department - Livingstone
1 to Broward County Health Department - Dunsmore
1 to Pinellas County Health Department - McCall
1 to Hillsborough County Health Department - Reid
1 to Polk County Health Department - Keaton
3 to YRS files