



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

NOV 22 1995

✓ NOT ON LIST

License Nos. D-170; STB-258 (Retired)
Docket No. 040-00215

Steve Cellary
Manager
Ford Fasteners
110 S. Newman Street
Hackensack, New Jersey 07601

SUBJECT: NRC REGION I INSPECTION NO. 040-00215/95-001

Dear Mr. Cellary:

As Andrew Schwartz and Anthony Dimitriadis of my staff discussed with you during the inspection of your facilities on August 8, 1995, the Nuclear Regulatory Commission (NRC) has been reviewing records to ensure that facilities, where activities authorized by Atomic Energy Commission (AEC) and NRC licenses that have been terminated, are suitable for release for unrestricted use in accordance with current NRC guidelines. As you may be aware, the NRC and its predecessor, the AEC, issue licenses that authorize the use of various radioactive materials.

A contractor for the NRC, Oak Ridge National Laboratory (ORNL), initially reviewed each terminated license file and scored it according to a system designed to identify facilities that require additional review by the NRC staff. In general, files that indicate that radioactive material may have been used at particular facilities, but which do not include adequate final survey records for those facilities, are identified for our additional review. The review by ORNL identified License No. D-170 (Retired) issued to Sun Flame Appliances, Limited as a file describing a site that requires additional review. The NRC Region I staff reviewed this file and determined that additional action was necessary since the information in the files did not provide sufficient detail to conclude that the facilities at 110 South Newman Street, Hackensack, New Jersey meet current guidelines for release for unrestricted use. License No. STB-258 superseded License No. D-170 in 1961.

On August 8, 1995, Andrew Schwartz and Anthony Dimitriadis of this office conducted an inspection of the facilities at 110 South Newman Street, Hackensack, New Jersey to determine whether radioactive contamination exists at the facility as a result of activities previously authorized by this license. The preliminary findings of this inspection were discussed with you at the conclusion of the inspection. The inspection report is enclosed with this letter. As described in the report, the inspectors conducted a radiological survey of the facilities. No radiation levels above background were identified at this facility.

Based on the facts and the findings described in the accompanying report, the facilities at 110 South Newman Street, Hackensack, New Jersey are suitable for unrestricted use. Therefore, we plan no further actions on your property.

A-94

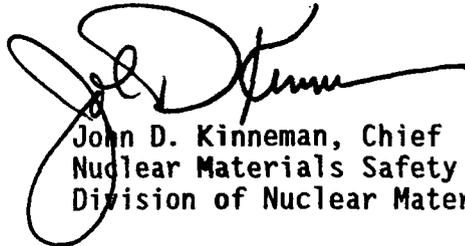
S. Cellary
Ford Fasteners

2

In accordance with Section 2.790 of the NRC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, a copy of this letter and the enclosed report will be placed in the Public Document Room. We will also provide copies to representatives of the State of New Jersey.

No reply to this letter is required. Your cooperation with us is appreciated. If you have any questions, please contact Andrew Schwartz at (610) 337-5237.

Sincerely,



John D. Kinneman, Chief
Nuclear Materials Safety Branch 2
Division of Nuclear Materials Safety

License Nos. D-170; STB-258 (Retired)
Docket No. 040-00215

Enclosure: NRC Region I Inspection Report No. 040-00215/95-001

cc w/encl:
State of New Jersey

U.S. NUCLEAR REGULATORY COMMISSION
REGION I

INSPECTION REPORT

Report No. 040-00215/95-001

Docket No. 040-00215

License No. D-170; STB-258 (Retired)

Licensee: Sun Flame Appliances, Limited
110 S. Newman Street
Hackensack, New Jersey 07601

Facility Name: Sun Flame Appliances, Limited

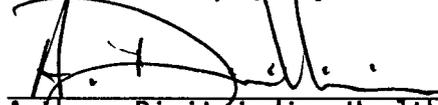
Inspection At: 110 S. Newman Street
Hackensack, New Jersey 07601

Inspection Conducted: August 8, 1995

Inspectors:

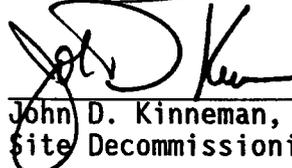

Andrew Schwarz, Physical Science Aide

8/8/95
date


Anthony Dimitriadis, Health Physicist

8/8/95
date

Approved By:


John D. Kinneman, Chief
Site Decommissioning Section

8/16/95
date

Inspection Summary: Special, announced, scoping survey on August 8, 1995

Areas Inspected: The Hackensack, New Jersey facility was surveyed to identify any remaining fixed or removable residual thorium contamination. A walk-over of the grounds was conducted to identify possible soil contamination.

Results: No residual radioactive contamination was identified in any of the areas surveyed. The facility is suitable for unrestricted use.

DETAILS

1. Persons Contacted

- * Steve Cellary, Manager, Ford Fasteners
- * present at exit interview

2. Background

License No. D-170 authorized production and storage of thorium lantern mantles by Sun Flame Appliances, Limited, at a facility located at 110 S. Newman Street, Hackensack, New Jersey from March 1957 to December 1957. It is unclear whether the activities conducted at the Hackensack site included production of mantles or if they were limited to storage of the finished product. License No. STB-258 superseded License No. D-170 on June 1, 1961. Sun Flame's production facilities were located at 613 W. Washington Avenue, Morris, Illinois; another facility used for storage of the finished material was located at 105 State Street, Paterson, New Jersey. The facility located in Paterson, New Jersey was not surveyed because the inspectors concluded that the probability of contamination resulting from storage of the material was very low. License No. STB-258 was an active NRC license until 1992 when Illinois became the regulatory agency for the Morris, Illinois site. The Illinois site was fully decommissioned under the authorization of the State of Illinois in 1993. There are no records of a final survey of the Hackensack facility by the licensee or the AEC. On August 8, 1995, the NRC conducted a scoping survey at the Hackensack, New Jersey facility.

3. Observations

The facilities at 110 S. Newman Street consist of a one-story building with 2,323 square meters (25,000 square feet) of floor space situated on about 2 acres of land. The east side of the facility is bounded by railroad tracks and has heavy vegetation. The north and south sides of the building are bounded by a chain linked fence, and the west side is a parking area.

The facility is currently owned by Ford Fasteners and is used as a warehouse. Ford Fasteners purchased the facility from a wood shutter manufacturer in the mid-1970's and manufactured screws there until 1989. They are currently conducting distribution operations only. Ford Fasteners leases warehouse space to Fidelity Business Equipment, Incorporated (FBE), and Spano Fasteners as shown in Figure 1. These companies each employ about 3 people. Ford Fasteners has 2 people on site. Remediation of soil contaminated with cleaning solvents and oils on the south side of the facility was initiated in 1989 by Ford Fasteners in conjunction with the State of New Jersey's Department of Environmental Protection, and is continuing. All of the floors remain in the original cement and tiled condition.

4. Instruments Used in Survey

Surface contamination was measured with Ludlum Model 19 portable micro-R meters (NRC Serial Nos. 019634 and No. 033512). The instruments were calibrated with National Institute of Science and Technology (NIST) traceable standards to read in microroentgens per hour ($\mu\text{R/hr}$) for gamma radiation on February 16, 1995. Background and efficiency were confirmed on the day of use.

5. Survey Design

Prior to the survey, in an effort to identify the specific areas within the facility to be surveyed, the inspectors reviewed the documentation submitted during the licensing period and interviewed several employees at the facility. The inspectors were unable to determine the specific areas where radioactive material may have been used or stored. Therefore, the entire facility was considered affected.

6. Survey

The inspectors surveyed all of the accessible areas where licensed material may have been used. These areas are outlined on Figure 2. Approximately 60 percent of the floor area was inaccessible due to storage shelves and fenced storage areas. A small portion of the area currently occupied by Spano Fasteners was also inaccessible because the tenant was not present at the facility on the day of the inspection.

The inspectors entered and surveyed all of the accessible areas shown in Figure 2. The inspectors scanned about 85 percent of the accessible areas with the micro-R meters. The areas selected for scans were those which appeared most probable for work with thorium or where contamination would likely collect.

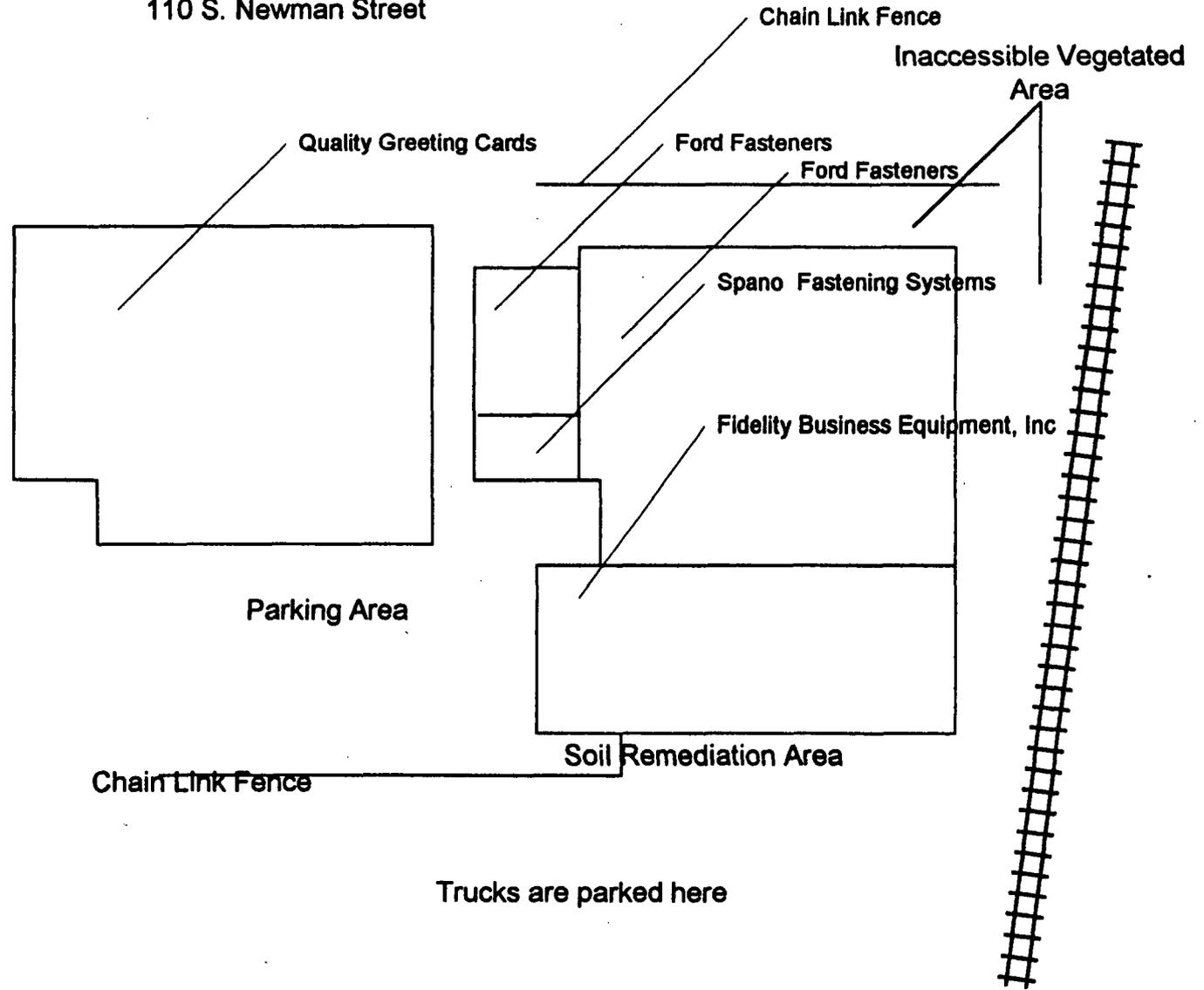
Exposure rate measurements were conducted at systematic and random locations inside and outside the building. All radiation levels were indistinguishable from background with the exception of approximately a 1 ft² area of the parking lot outside the building, as shown in Figure 2, which measured approximately 30 $\mu\text{R/hr}$. This elevated reading was probably due to the presence of natural radioactive material in the cement. Exposure rate measurements were also taken on the north and northeast outside areas on the perimeter of the building which is covered with heavy brush and soil. All of these levels were indistinguishable from background.

7. Exit Interview

The results of the survey were discussed with the individual indicated in Section 1 of this report on August 8, 1995.

S. Newman Street

Figure 1
110 S. Newman Street



Parking Area

Chain Link Fence

Soil Remediation Area

Trucks are parked here



Inspection Report No.
040-00215/95-001

Figure 2
110 S. Newman Street

