

U.S. NUCLEAR REGULATORY COMMISSION  
REGION I

Report No. 030-03800/87-001

Docket No. 030-03800

License No. 06-07984-01

Priority 3

Category E1A

Licensee: Picker International, Inc.

Nuclear Ultra Sound and Clinical

Laboratory Systems

595 Miner Road

Highland Heights, Ohio 44143

Facility Name: Picker International

Inspection At: 12 Clintonville Road, Northford, Connecticut

Inspection Conducted: March 17, 1987

Inspectors: *J.D. Kinneman*  
*for* Teresa Hall Darden, Health Physicist

8/3/87  
date

Approved by: *J.D. Kinneman*  
John D. Kinneman, Chief, Nuclear Materials  
Safety, Section A

8/3/87  
date

Inspection Summary: Announced Closeout Inspection on March 17, 1987  
(Report No. 030-03800/87-001).

Areas Inspected: Announced closeout survey at Picker International, Inc., Northford, Connecticut prior to release of facility for unrestricted use. The inspection consisted of measurements of radiation and contamination levels and visual verification that all radioactive material had been removed.

Results: Radiation level surveys and evaluation of the thirteen wipes indicate that the licensee's letter dated November 13, 1986, with attachments, accurately describes the condition of the facility.

## DETAILS

### 1. Persons Contacted

Mr. Chris Pyne, Ultrasound Engineer  
Mr. Skip Giddings, Facilities Manager  
Mr. William Krieger, Realtor

### 2. Background

This broadscope licensee was authorized to possess americium-241, technetium-99m, molybdenum-99, tin-113, iridium-113m, xenon-133 and up to 15 millicuries of any byproduct material with atomic numbers 1 through 83 for research and development.

### 3. Surveys

A Ludlum Model 14C Geiger Mueller Survey Meter calibrated January 12, 1987 was used to measure radiation levels in the room that formerly housed the licensee's radioisotope laboratory and storage area. In addition, thirteen wipe samples were taken in areas where contamination was likely to accumulate. The wipe samples were analyzed in the Regional Office Laboratory for gross beta and gamma radiation. Removable contamination of  $402 \pm 16$  disintegrations per minute (dpm) and  $42 \pm 10$  dpm, respectively, was found on two wipes taken in the sink. The contamination was identified as cobalt-57 and/or hydrogen-3. Cobalt-57 was possessed under a state authorization. Analysis of all other wipes indicated less than minimal detectable activities.

### 4. Transfer of Licensed Material

A Certificate of Disposition of Materials (Form NRC 314) was submitted to Region I by the licensee and was received by the NRC on November 24, 1986.

The Certificate of Disposition indicated that byproduct material was disposed of in the following manner:

1. Spent Mo 99/Tc 99m generators were returned to New England Nuclear.
2. Solid waste was shipped to the Richland, Washington burial site (permit #5628) by U.S. Ecology Inc. (Teledyne).
3. The following sources were shipped to Picker International, Charlotte, NC (State License #060-783-1):
  - Co-60 sealed source - 185 microcuries
  - Cs-137 sealed source - 300 microcuries

4. The following sources were shipped to Picker International, Highland Heights, OH. (NRC License #34-07225-04).

- Ba-133 sealed source - 350 microcuries
- Cs-137 sealed source - 105 microcuries
- Cs-137 sealed check sources - 17 at less than 10 microcuries each.

These transfers of byproduct material to the described authorized licensees were confirmed by telephone with licensees' representatives.

5. Conclusion

The results of the survey indicate that the licensee's letter dated November 13, 1986, with attachments, accurately describes the condition of the facility.