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U.S. NUCLEAR REGULATORY COMMISSION

Region V

Report No. 70-1359/82-03 (IE-V-528)  
Docket No. 70-1359 License No. SNM-1405 Safeguards Group 5

Licensee: IRT Corporation  
P. O. Box 80817  
San Diego, CA 92138

Facility Name: IRT Corporation

Inspection at: 7650 Convoy Court and Linea Facility

Inspection Conducted: October 21 and 22, 1982

Date of Last Material Control and Accounting Inspection Visit: September 12-15, 1977

Type of Inspection: Unannounced, Material Control and Accounting

Inspectors: *A. V. Wieder* 12/6/82  
A. V. Wieder, Safeguards Auditor Date Signed

*L. R. Worderhaug for* 12/6/82  
G. B. Nelson, Safeguards Chemist Date Signed

\_\_\_\_\_  
Date Signed

Approved by: *L. R. Worderhaug* 12/6/82  
L. R. Worderhaug, Chief, Safeguards Branch Date Signed

Inspection Summary:

Areas Inspected: Routine safeguards inspection of the licensee's implementation of Nuclear Material Control and Accounting procedures outlined in formal SNM license applications for such areas as; facility organization, facility operation, shipping and receiving, storage and internal controls physical inventory, and records and reports. The inspection involved 33 inspector hours on site by two NRC inspectors.

Results: No items of noncompliance or deviations were identified in any of the areas inspected.

## REPORT DETAILS

### 1. Persons Contacted

\*Dr. R. L. Mertz, President, IRT Corporation  
\*K. L. Crosbie, Principal Engineer, Nuclear Systems Division  
Dr. K. R. Alvar, Manager, Program Development, Nuclear Systems Division

\*Denotes those attending the exit interview.

### 2. Licensee Actions on Previous Inspection Findings

IRT Corporation received a Notice of Violation on October 4, 1977 for failing to obtain the appropriate written certification required by 10 CFR 70.42(d)(3), "Transfer of Special Nuclear Material" (Inspection Report 70-1359/7/-01 (IE-V-191)). IRT answered the Notice of Violation by letter dated October 21, 1977. In that letter, IRT outlined a procedure which was intended to remedy the deficiency they were cited for. (Refer to paragraph 7 on Shipping and Receiving for further discussions).

### 3. Exit Interview

Both inspectors presented their findings to Dr. Mertz and Mr. Crosbie at the conclusion of this inspection, and both Dr. Mertz and Mr. Crosbie acknowledged the clear inspection.

### 4. MC 92713B Independent Safeguards Inspection

No items of noncompliance were noted.

Time was spent touring and inspecting both locations of IRT Corporation's present operations at Convoy Court in Kearny Mesa and John Jay Hopkins Drive in La Jolla.

A familiarization tour was also taken of a new IRT building located at 7695 Formula Place in the Mira Mesa area of San Diego. This location is some several miles east of the La Jolla operations. IRT Corporation also has plans of relocating its Convoy Court operations to a new building just north of its John Jay Hopkins Drive location in La Jolla. The John Jay Hopkins Drive Operation would then relocate to 7695 Formula Place in Mira Mesa. Preparations have been underway installing one of two Low Energy Electron Linear Accelerators (LINAC's) that will operate there. IRT intends to store all its special nuclear material inventory in a vault area of the New Torrey Pines, La Jolla location.

5. MC 85202B Facility Organization

No items of noncompliance were noted.

Examined IRT's organizational structure and found it to be in accordance with approved formal license application statements.

6. MC 85204B Facility Operations

No items of noncompliance were noted.

Inspected the licensee's operations with respect to the control of SNM for conformance to applicable NRC regulations and license application statements.

7. MC 85208B Shipping and Receiving

No items of noncompliance were noted.

IRT Corporation committed to a procedure where, "In the case of verbal approval for emergency shipments, the shipping department will contact the IRT Radiation Safety Officer or Health Physicist for confirmation. The RSO or HP will then request written confirmation from the receiver and notify his secretary to follow up request if confirmation is not received within ten days."

Over the five years since the last Material Control and Accounting Safeguards inspection, IRT made seven shipments of special nuclear material to five recipients. IRT Corporation has copies of these receivers certifications on file demonstrating its compliance with 10 CFR 70.42. However, there were no circumstances in any of these shipments that could be used to evaluate the effectiveness of this procedure.

8. MC 85210B Storage and Internal Controls

No items of noncompliance were noted.

IRT Corporation maintains its nuclear material inventory in locked areas of its Convoy Court and John Jay Hopkins Drive locations. Keys and access is controlled by the Radiation Safety Officer. Also transfers between these separate locations are documented on NRC-741 forms. The system in use allows IRT to maintain current knowledge of identities, quantities, and locations of its special nuclear material.

9. MC 85213B Inventory Verification

No items of noncompliance were noted.

IRT practices an annual frequency of Special Nuclear Material physical inventories and its last physical inventory was conducted in April of this year.

A separate inventory verification was conducted at the Convoy Court and John Jay Hopkins Drive locations. The verification came within one gram of the IRT enriched uranium books inventory.

10. MC 85216B Records and Reports

No items of noncompliance were noted.

An audit was performed on IRT Corporation's nuclear material accounting data pertaining to the period April 1, 1977 through October 22, 1982.

This data was used to make independent comparisons of similar data shown in eleven semi-annual Material Status Reports IRT Corporation had filed with the NRC for reporting identification symbols; LBV, LBU, XBC and XBX, and the data was used to evaluate the results of the physical inventory verification (paragraph 9).