



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
101 MARIETTA STREET, N.W.
ATLANTA, GEORGIA 30303

Report Nos.: 50-160/78-4, 50-276/78-2, 70-297/78-4 and 70-386/78-4

Docket Nos.: 50-160, 50-276, 70-297, 70-386

Licensee Nos.: R-97, R-111, SNM-274, SNM-609

Group: V

Licensee: Georgia Institute of Technology
225 North Avenue N. W.
Atlanta, Georgia

Inspection conducted: September 26-27, 1978

Inspector: G. A. Todd

Reviewed by:

G. H. Williams
G. H. Williams, Chief
Material Control and Accountability Section
Safeguards Branch

10/16/78
Date

Inspection Summary

Inspection on September 26-27, 1978 (Report Nos. 50-160/78-4, 50-276/78-2, 70-297/78-4, 70-386/78-4)

Areas Inspected: Nuclear material control and accounting procedures review; audit of records and reports; and SNM physical inventory. The inspection involved 14 inspector-hours on site by one NRC inspector.

Results: Of the three areas inspected, no apparent items of noncompliance or deviations were identified.

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DETAILS I

Prepared by:

G. A. Todd Date 10/1/78
G. A. Todd, Auditor
Material Control and Accountability Section
Safeguards Branch

Dates of Inspection: September 26-27, 1978

Reviewed by:

G. H. Williams Date 10/16/78
G. H. Williams, Chief
Material Control and Accountability Section
Safeguards Branch

1. Persons Contacted

*Mr. R. M. Boyd, Radiological Safety Officer
Mr. R. Kirkland, Reactor Supervisor

*Denotes those attending the exit interview.

2. Procedures

Written material control and accounting procedures as required by 10 CFR Part 70.51 (c) have been established and maintained by the licensee in the form of Auxiliary Systems Procedure 3600 and related forms and attachments. These procedures are currently being followed.

3. Records and Reports

Receipts and shipments of Special Nuclear Material (SNM) for period August 1, 1975 through August 31, 1978 were verified by examination of the NRC-741s, "Nuclear Material Transaction Report," on file. The transaction reports had been completed in accordance with printed instructions. Audit of the NRC-742s, "Material Status Report," issued during the period under review revealed one discrepancy. Receipts for reporting period September 30, 1976 were overstated by 1 gram total uranium and understated by 1 gram U-235, based on records maintained by the Nuclear Materials Management and Safeguards System (NMMSS), Oak Ridge, Tennessee. Responsible licensee personnel will input corrections to reporting period ending September 30, 1978.

4. Inventory

The SNM inventory at Georgia Institute of Technology (GT) consists primarily of a core loading and new fuel storage of enriched uranium for the GT Research Reactor (GTRR), the core loading of the AGN-201

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research reactor and a 5 curie plutonium - beryllium neutron source. The balance of the SNM inventory consisted of foils, fission chambers, medical research instruments and calibration standards. All material amenable to physical inventory was verified and traced to internal records.

No discrepancies were noted.

5. Exit Interview

The inspector met with licensee representatives (denoted in Paragraph 1) at the conclusion of the inspection on September 27, 1978. The inspector summarized the scope and findings of the inspection.