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UNITED STATES NUCLEAR REGULATORY COMMISSION REGION II 101 MARIETTA STREET, N.W. ATLANTA, GEORGIA 30323

Report No.: 50-160/92-02

Licensee: Georgia Institute of Technology 225 North Avenue Atlanta, GA 30332

Docket No.: 50-160

License No.: R-97

Facility Name: Georgia Institute of Technology

Inspection Conducted: May 12, 1992 Inspector: 0. Safeguards Μ. MasnA Specialist Dat Approved by:/ R. McGuire, Chief D. Safegaurds Section Nuclear Materials Safety and Safeguards Branch Division of Radiation Safety and Safeguards

SUMMARY

Scope:

This routine, unannounced inspection was conducted in the areas of material control and accountability.

Results:

In the areas inspected, violations were not identified.

REPORT DETAILS

1. Persons Contacted

*R. A. Karam, Neely Nuclear Research Center

*Attended exit interview

2. Material Control and Accountability (85102)

The inspector reviewed the licensee's procedure for the control and accountability of special nuclear material, Procedure 3600, Revision 01, approved December 8, 1989, minor change dated April 16, 1991, and found that the licensee was in compliance with this procedure.

The licensee's Form 742, dated April 14, 1992, for the period October 1, 1991 through March 31, 1992, was reviewed and found to be accurate and complete with the following inventory (in grams) indicated for license R-97.

Element Weight Isotope Weight

Beginning	Inventory	Doc owned	5034	4565
		Non Doc owned Total	3 5037	<u>3</u> 4568

Fission and Instrumentation

Ending	Inventory	Doc owned	5024	4554
		Non Doc owned	3	3
		Total	5027	4557

An inventory was completed March 31, 1992, and showed the following special nuclear material in the following locations.

SNM in vault

Fuel Element Serial No.	Total Grams U	Total Grams U-235
B-024	201.41	187.57
R=1 (10 plates) R=2 (10 plates)	152.69	142.3
Fission Chamber	1.5	142.3
U-235 Samples	21.02	19.59
Total	529	493

Non Fuel SNM - Pu BE Source

Irradiated Fuel in Reactor

Element Serial No.	Location
B035	Vl
B018	V2
B001	V3
B017	V4
B014	V5
B049	V6
B005	V7
B010	VS
Flow Dummy	V9
B002	V10
B045	V11
B013	V12
B004	V13
B011	V14
B008	V15
B046	116
Flow Dummy	V17
In Storage	
B015	V47
B906	V48

8006	V48
B037	V49
B035	V50
B016	Floor
B007	Floor
B012	Floor
B009	Floor

Fission Chamber H-224

Personnel responsible for the control and accountability of SNM were knowledgeable of the site procedures and SNM location. Several of the above locations were checked and found to contain the appropriate SNM.

3. Exit Interview

The inspection scope and results were summarized on May 12, 1992, with the person indicated in Paragraph 1. The inspector described the areas inspected and discussed in detail the inspection results. Dissenting comments were not received from the licensee.