



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

APR 11 1979

Report No. 50-160/79-02

Licensee: Georgia Institute of Technology
Nuclear and Biological Services Division
Atlanta, Georgia 30332

Facility Name: Georgia Tech Research Reactor (GTRR)

Docket No. 50-160

License No. R-97

Safeguards Group No. V

Inspection at Atlanta, Georgia

Inspector: J. M. Fuchko for

4/11/79
Date Signed

Approved by: William J. Tobin
W. J. Tobin, Acting Section Chief, SFGS Branch

4/11/79
Date Signed

SUMMARY

Inspection on March 28-29, 1979

Areas Inspected

This routine, unannounced inspection involved 4.5 inspector-hours onsite in the areas of physical security plan, essential equipment, security areas, security systems, security organization, access control and security program review.

Results

Of the seven areas inspected, no apparent items of noncompliance or deviations were identified.

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DETAILS

1. Persons Contacted

Licensee Employees

*R. S. Kirkland, Reactor Supervisor

Other licensee employees contacted included operators, security force members and office personnel.

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on March 29, 1979, with the person indicated in Paragraph 1 above.

3. Licensee Action on Previous Inspection Findings

(Closed) Infraction (160/77-05-01): [REDACTED]

(Closed) Infraction (160/77-05-02): [REDACTED]

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Physical Security Plan

The Georgia Tech Research Reactor (GTRR) Physical Security Plan (PSP) was approved by the Office of Nuclear Reactor Regulation (NRR) on March 18, 1975. The inspection covered implementation of the approved PSP. Since the last inspection, the licensee has been granted an exemption from the additional security procedures of 10 CFR 73.50 and 73.60 for a period of one year. This exemption was granted in a letter dated November 30, 1978 from the Division of Operating Reactors, Office of Nuclear Reactor Regulation.

6. Essential Equipment

The licensee's PSP identified the

[REDACTED]

7. Security Areas

The Nuclear Research Center is comprised of classrooms and research facilities. A portion of the center has been designated as a Security Area. The licensee's PSP described the Security Area to include descriptive drawings of the area which show normal access points and other points which could be utilized for ingress or egress. Access to the Security Area is through

[REDACTED]

All other access doors to the Security Area are secured and not utilized for normal ingress or egress.

[REDACTED]

8. Security Systems

The licensee has established an intrusion alarm system as specified in the PSP. The inspector tested the operation of the alarm system. The

[REDACTED]

properly annunciated when tested. However, the

[REDACTED]

when tested by the inspector at 0930 hours on March 28, 1979. The licensee's Security Plan states that testing will be

[REDACTED] The inspector reviewed the

dated May 8, 1975, and discovered that security system testing had been conducted on the following dates

- (1)
 - (2)
 - (3)
 - (4)
 - (5)
 - (6)
 - (7)
 - (8)
 - (9)
 - (10)
 - (11)
 - (12)
- [REDACTED]

In four cases above, there was ten days between the tests. Further questioning revealed [REDACTED]

In practice, [REDACTED]
The test conducted on March 23, 1979, was that of the [REDACTED]

The alarm system terminates at the [REDACTED] which provides 24-hour surveillance of the central campus alarm system. The Georgia Tech Police respond to alarms at the Nuclear Research Center. In addition, during non-working hours, the Georgia Tech Police provide on-site surveillance of the center at [REDACTED]. The police patrols were confirmed by the inspector by examination of the [REDACTED]

The inspector then observed that the [REDACTED] which was [REDACTED] As compensatory measures [REDACTED] for lack of [REDACTED] This was done at [REDACTED] any time an [REDACTED]

All exterior access points to the Center, in addition to the Security Area identified in paragraph 7, are via doors equipped with [REDACTED]. The main front doors and Door 144 have, in addition to the [REDACTED]

Communications between the Nuclear Research Center and the Georgia Tech Police is [REDACTED]. The campus police have [REDACTED]

9. Security Organization

The Director of the Nuclear Research Center is responsible for the security program at GTRR. This responsibility encompasses access controls, key control, emergency procedures, surveillance of essential equipment and review of the security program. Actual day-to-day responsibility for physical security of the Center is vested with the Georgia Tech Police, who provide surveillance of the Center during non-working hours, and respond to all alarms at the Center.

[REDACTED]

10. Access Control

During working hours, access to the Nuclear Research Center is via a [redacted] which is utilized by the employees who are [redacted]

[redacted] Visitors are required to register with the receptionist prior to access to the complex.

During non-working hours the exterior doors to the Center are locked. The main doors are equipped with a [redacted]

[redacted] control over the [redacted] changed February 13, 1979). [redacted]

The licensee maintains [redacted] on a periodic basis (last [redacted])

11. Security Program Review

The licensee is required to conduct a review of the security program every two years. The last review was conducted in January 1978. The licensee did not have a record of any other formal reviews being conducted.



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REGION II

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ATLANTA, GEORGIA 30303

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Georgia Institute of Technology
ATTN: Dr. L. E. Weaver, Director
School of Nuclear Engineering
225 North Avenue
Atlanta, GA 30332

Gentlemen:

Subject: Report No. 50-160/81-02 and 50-276/81-02

This refers to the routine safeguards inspections conducted by Ms. C. D. Perny of this office on October 8, and October 15, 1981, of activities authorized by NRC License Nos. R-97 and R-111 for the Georgia Tech Research Reactor (GTRR) and AGN-201 facilities. Our preliminary findings were discussed with Mr. R. S. Kirkland, Associate Director and Dr. J. N. Davidson, Reactor Supervisor, at the conclusion of the inspections.

Areas examined during this inspection included your physical security program as implemented under the provisions of Title 10, Code of Federal Regulations, Part 73, "Physical Protection of Plants and Materials", and the specific requirements of your approved Security Plans. Within these areas, the inspection consisted of selective examinations of procedures and representative records, interviews with personnel, performance tests, and observations by the inspectors.

During the inspection, it was found that certain activities under your license appear to violate NRC requirements. These items and references to pertinent requirements are listed in the Notice of Violation enclosed herewith as Appendix A. Elements to be included in your response are delineated in Appendix A. Details of activities involving safeguards and security measures are exempt from disclosure in accordance with 10 CFR 2.790(c). Therefore, your response should be incorporated in a separate paper and referenced in your reply.

Two new unresolved items resulted from this inspection and are discussed in the enclosed report. These items will be examined during subsequent inspections.

In accordance with Section 2.790(d) of the NRC's "Rules of Practice", Part 2, Title 10, Code of Federal Regulations, activities involving safeguards and security measures are exempt from public disclosure; therefore, the enclosures to this letter with the exception of the report cover page, which is an inspection summary, will not be placed in the Public Document Room.

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[REDACTED]

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Should you have any questions concerning this letter, we will be glad to discuss them with you.

Sincerely,

R. C. Lewis
R. C. Lewis, Director
Division of Resident and
Reactor Project Inspection

Enclosures:

1. Appendix A, Notice of Violation
(Exempt from Disclosure)
2. Inspection Report Nos. 50-160/81-02
and 50-276/81-02
(Exempt from Disclosure)
3. Inspection Summary
(Not Exempt)

cc w/encl:

Dr. A. P. Sheppard, Acting Vice
President for Research
Dr. J. L. Russell, Jr., Director
Nuclear Research Center
Mr. R. S. Kirkland, Associate Director
Nuclear Research Center