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U.S. NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT

Region V

Report No. 50-142/79-03 (IE-V-340)
Docket No. 50-142 License No. R-71 Safeguards Group _____
Licensee: University of California, Los Angeles
Los Angeles, California 90024

Facility Name: Nuclear Energy Laboratory

Inspection at: UCLA campus at Los Angeles, California

Inspection Conducted: September 24-25, 1979

Date of Last Physical Security Inspection Visit: October 30-31, 1978

Type of Inspection: Unannounced Physical Security

Inspectors: *E. J. Power* Oct 17, 1979
Date Signed

E. J. Power, Physical Security Inspector

L. W. Ivey Oct 17, 1979
Date Signed

L. W. Ivey, Physical Security Inspector

Date Signed

Approved by: *L. R. Norderhaug* Oct 18, 1979
Date Signed

L. R. Norderhaug, Chief, Safeguards Branch

Inspection Summary:

Areas Inspected: Security Plan; Protection of SNM; Security Organization; Access Control; Alarm Systems; Keys, Locks and Combinations; Communications; Surveillance; Procedures; Security Program Review; and Protection Against Radiological Sabotage.

The inspection involved 16 inspector hours onsite by two NRC Inspectors.

Results: No items of noncompliance were identified.

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DETAILS

1. Persons Contacted

*Dr. I. Catton, Director, Nuclear Energy Laboratory
*Mr. C. Ashbaugh, Security Officer, Nuclear Energy Laboratory
Lt. J. Ares, UCLA Police Department
Sgt. W. Hansen, UCLA Police Department
Mr. P. Arnold, Electrician, UCLA

*Denotes those attending exit interview.

2. Licensee Action on Previous Inspection Findings

(Closed) Noncompliance (50-142/77-02): inadequate. Several performance tests of the were conducted by the inspectors, and were found acceptable. in-

(Closed) Deviation (50-142/77-02): Vulnerability of locking mechanisms. The inspectors determined through observation that the Nuclear Energy Laboratory had installed on the laboratory doors to which they committed in a letter from Dr. Catton to Mr. Norderhaug, Region V, NRC, which was dated January 18, 1979.

3. Exit Interview

The inspectors met with licensee representatives (denoted in Paragraph 1) at the conclusion of the inspection on September 25, 1979. The inspectors summarized the scope and findings of the inspection.

4. MC 81405B - Security Plan

No items of noncompliance were noted. The inspection results were attained through:

- a. An onsite review of the physical security plan for the Nuclear Energy Laboratory at UCLA which was dated January 20, 1977 with four amendments.
- b. A walk-through tour observing the activities, operations and facilities of the laboratory which included which were designated as essential equipment.
- c. Observation and confirmation that the designated security areas within the laboratory as specified in their security plan were: the reactor room, also called the reactor high bay (Room 1000);

The inspectors did not identify any measures which were different from those specified in their plan; the measures to which the licensee was committed were found to be adequate; there was no decrease in the effectiveness of their plan; and there were no additional findings which were considered a weakness in their security systems.

5. MC 81410B - Protection of SNM

No items of noncompliance were noted. The NEL has in its possession approximately 8.3 kgs of SNM in the form of 93% enriched U-235. The SNM was secured in accordance with their physical security plan in the following locations:

- a. There were approximately 3.6 kgs of SNM in the
- b. There were 4.6 kgs of non-irradiated SNM
- c. There were 0.7 kgs of irradiated SNM

As indicated in the last security inspection report in 1978, the licensee has continued its coordination with the Department of Energy to effect the transfer of 0.7 kgs of irradiated fuel, and has kept NRR advised of these developments. Under the licensee's current plans, the irradiated fuel is scheduled to be transferred from the facility during December 1979.

6. MC 81415B - Security Organization

No items of noncompliance were noted. The inspectors determined that the licensee's security organization is as described in their physical security plan. Through interviews and review of procedures, it was determined that the Director of the laboratory was responsible for the implementation and enforcement of the security plan with the security functions performed by the appointed Security Officer.

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7. MC 81420B - Access Control

No items of noncompliance were noted. The results of the inspection were attained through:

- a. A review of the licensee's procedures used to control access to the Nuclear Energy Laboratory.
- b. Observation of the ingress and egress of the staff, employees, students, and visitors to the facility during the period of the inspection.
- c. Observation that access controls have been implemented as described in the security plan to control personnel and vehicle access to the essential equipment, security areas, and the facility, and these means are adequate.
- d. Interviews and review of procedures that visitors are identified, authorized for access, and escorted at the facility.
- e. A review of the visitor's register.
- f. Interviews of personnel and observation that individuals having access to the unirradiated SNM

8. MC 81425B - Alarm Systems

No items of noncompliance were noted. The inspectors determined through interviews and observation that intrusion alarm devices are installed, maintained, tested and operated in accordance with their physical security plan. The inspectors, in the company of the Security Officer and an alarm electrician, witnessed testing of several of these alarms.

9. MC 81430B - Keys, Locks and Combinations

No items of noncompliance were identified. The procedures for keys, locks and combinations were reviewed and are in conformance with the physical security plan.

A random check of the locking hardware on the doors was accomplished and found to be adequate.

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10. MC 81435B - Communications

No items of noncompliance were identified. The Nuclear Energy Laboratory utilizes

11. MC 81440B - Surveillance

No items of noncompliance were identified. The inspectors determined that the surveillance of SNM, essential equipment, security areas, physical barriers, and avenues of approach to security areas have been implemented as stated in their physical security plan.

12. MC 81445B - Procedures

No items of noncompliance were identified. Through interviews and review of records, it was determined that Nuclear Energy Laboratory had procedures regarding unauthorized intrusions, security violations, bomb threats, and acts of civil disorder.

13. MC 81450B - Security Program Review

No items of noncompliance were identified. The last change, Amendment No. 4 to the security plan was submitted to NRR by letter dated November 30, 1978; however, it was determined through interview with the Security Officer that review of the plan is a continual process.

The licensee was presently in the process of evaluating their plan in view of the upgrading of security requirements for non-power reactors per 10 CFR 73.47.

14. MC 81455 B - Protection Against Radiological Sabotage

No items of noncompliance were identified. Protection against sabotage is of concern to the licensee and is primarily effected by the security consciousness of the laboratory personnel and adherence to established procedures and policies.