

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

REGION V

Report No. 50-142/78-03 (IE-V-264)

Docket No. 50-142 License No. R-71 Safeguards Group 2

Licensee: University of California at Los Angeles
Los Angeles, California

Facility Name: UCLA Research Reactor

Inspection at: UCLA Campus (Argonaut - 100KW)

Inspection Conducted: October 30-31, 1978

Inspectors: Wayne P. Mortensen 12/18/78
W. P. Mortensen, Physical Protection Inspector Date Signed

Approved By: L. R. Norderhaug 12/18/78
L. R. Norderhaug, Chief, Safeguards Branch Date Signed

Summary:

Inspection on October 30-31, 1978 (Report No. 50-142/78-03)

Areas Inspected: Routine, unannounced inspection of licensee action on previous inspection findings; licensee's approved security plan; protection of SNM; security organization; access control; alarm systems; keys, locks and combinations; communications system; surveillance; procedures; security program review; and protection against radiological sabotage. The inspection involved 12 inspector-hours onsite by one inspector.

Results: Of the 11 areas inspected, no items of noncompliance or deviations were identified in 9 areas; two deviations were identified in two areas (Paragraphs 6 and 7).

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DETAILS

1. Persons Contacted

Dr. Ivan Catton, Director, Nuclear Energy Laboratory
*Dr. Neil C. Ostrander, Manager, Nuclear Energy Laboratory
*Mr. "Chuck" Ashbaugh, Security Officer, Nuclear Energy Laboratory
Dr. Harold V. Brown, Environmental Health and Safety Officer
Dr. John Everetts, Radiological Safety Officer
Lt. G. J. Ares, UCLA Police Department
Mr. Phil Arnold, Electrician, UCLA

*Denotes those attending exit interview.

2. Licensee Action on Previous Inspection Findings

3. Security Plan

The Security Plan for the UCLA Training Reactor Facility now consists of documents submitted by UCLA letters dated June 20, 1975, July 15, 1975, October 21, 1975, and April 1, 1976, excluding Appendix B to the letter dated April 1, 1976 (Appendix B

contains background information which is not part of the security plan), May 26, 1976, June 9, 1976, and August 3, 1975. The foregoing documents are identified and approved as the licensee's security plan in a letter from NRR dated September 13, 1976.

The licensee has submitted to licensing, a new security plan dated January 20, 1977, and three amendments to the January 1977 security plan have also been submitted. The inspector determined that NRR has not yet approved in writing the new security plan or amendments.

The inspector found the following conditions during a visual inspection of the _____ on October 31, 1978.

The interior walls are to be redescribed in Amendment No. 4 to the licensee's security plan to be submitted to NRC November 30, 1978.

4. Protection of SNM

The inspector determined through interview of licensee employees that the licensee presently has in its possession 9.0 kg of Special Nuclear Material in the form of 93% enriched uranium (fuel plates, fuel scraps and uranyl nitrate) and two 32 gm Pu - Be neutron sources. The U-235 is located as follows: 3.6 kgs U-235 is in _____ and 0.7 kg is in the radioactive storage pits, and 4.7 kgs is nonirradiated fuel stored in _____. The .7 kg of irradiated fuel in _____ as defined by 10 CFR 73.6(b). The total non-exempt SNM presently located at _____ is 5.4 kg.

On September 6, 1978, the licensee requested by letter to the Department of Energy (DOE), Washington, D.C., permission to ship the irradiated fuel plates (.7 kg) to the DOE reprocessing plant in Idaho. DOE is presently reviewing their request.

The licensee has not been asked by NRR (licensing) to provide the security stipulated in 10 CFR 73.50 or 10 CFR 73.60,

No items of noncompliance or deviations were identified.

5. Access Control

The inspector examined the licensee's procedures and hardware used to control access to the Nuclear Energy Laboratory. The licensee is controlling access as indicated by the approved security plan except that the licensee has _____ instead of _____ as indicated in the approved security plan. NRR was notified by licensee letter dated March 10, 1978, that the number of _____ had been increased to _____.

The licensee's new security plan, amendment three, submitted to NRR on March 10, 1978, Paragraph I.A. states that the reactor control room _____

The inspector determined this has not _____

yet been implemented. The reactor control room is currently

The new security plan has not been approved in writing by NRR.

6. Alarm Systems

procedure is currently being formulated and will go into effect prior to January 20, 1978."

The inspector also determined through interview of licensee employees on October 31, 1978, that the licensee has not yet prepared or implemented an _____ as committed to in their letter to Region V, dated December 21, 1977.

7. Keys, Locks and Combinations

The inspector examined keys, locks and combinations and related equipment used to control access to security areas. The licensee is using _____

The licensee is controlling the issue of keys to the _____ and maintains _____

_____ is conducted by the NEL Security Officer. During the last _____ the Security Officer determined that a University employee had misplaced his _____ access key on March 15, 1978. On October 5, 1978, the licensee's security committee reviewed the question of the misplaced _____

and determined that _____ was not necessary. This action is consistent with the licensee's procedure "NEL Lock and Key System Guidelines," dated December 10, 1978.

The licensee in response to the previous inspection (50-142/77-02) by letter to Region V, dated December 21, 1977, stated, in part, in Paragraph B,1:

The inspector determined by testing on October 31, 1978, that

The licensee (NEL) provided documentation that they had discovered _____

The finding by the inspector that the licensee has not ensured that all doors/latching mechanisms are in proper working order, represents a deviation from the licensee's commitment to Region V.

8. Communications

The inspector examined the licensee's facilities for internal communication and communication with the cognizant local law enforcement agency.

No items of noncompliance or deviations were identified.

9. Surveillance

The inspector examined the licensee's practices and procedures

No items of noncompliance or deviations were identified.

10. Procedures

The inspector determined the licensee has procedures for reacting to unauthorized intrusions into security areas, bomb threats and acts of civil disorder.

No items of noncompliance or deviations were identified.

11. Security Program Review

The inspector examined the licensee's program for review of the NEL security activities and procedures.

No items of noncompliance or deviations were identified.

12. Protection Against Radiological Sabotage

The licensee's approved security plan describes controls on access to _____ and except as noted elsewhere in this report the licensee has provided the controls committed to in the approved security plan.

No items of noncompliance or deviations were identified.

13. Exit Interview

The inspector met with licensee representatives (denoted in Paragraph 1) at the conclusion of the inspection on October 31, 1978. The inspector summarized the scope and findings of the inspection. The licensee made no commitments as to corrective action proposed or planned for the deviations identified by the inspector.