

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

REGION V

Report No. 50-433/79- 02  
Docket No. 50-433 License No. R-124 Safeguards Group \_\_\_\_\_  
Licensee: University of California, Santa Barbara  
Santa Barbara, California  
  
Facility Name: UCSB L-77 Reactor  
Inspection at: Santa Barbara Campus  
Inspection conducted: November 27-28, 1979  
Inspectors: A. J. Horn 12/7/79  
A. J. Horn, Reactor Inspector Date Signed  
  
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Approved By: D. M. Sternberg 12/10/79  
D. M. Sternberg, Chief, Reactor Projects Section 1 Date Signed  
Reactor Operations and Nuclear Support Branch

Summary:

Inspection on November 27-28, 1979 (Report No. 50-433/79-02)  
Areas Inspected: Routine inspection of organization, logs and records, review and audits, procedures, surveillance and experiments. This inspection involved seven hours by one NRC inspector.

Results: No items of noncompliance, unresolved items or deviations were identified during the inspection.

1727 137

RV Form 219(?)

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## DETAILS

### 1. Persons Contacted

A. Profio, Reactor Director  
(Present at exit interview)

### 2. Organization

The organizational structure remains essentially unchanged since the last inspection. Dr. A. Profio is the only licensed operator presently at UCSB. Another licensed operator (licensed in May 1979), G. Shani, returned to his country (Israel) for an indefinite stay. Mr. D. Ringwald is presently receiving training as a reactor operator.

### 3. Logs and Records

The inspector reviewed the Operations Log for the period January 10, through November 27, 1979; the Maintenance Log for the period June 9, 1978 through November 27, 1979; and the Central Log for the period from the last inspection to the present. The inspector observed that entries are made as required by the Technical Specifications or Operations Manual and are consistent with the 1977 and 1978 annual reports where applicable.

No items of noncompliance or deviations were identified.

### 4. Review and Audit

Reactor Operations Committee (ROC) meeting minutes and audit reports since the last inspection were reviewed. No significant deficiency or safety problems were noted in the minutes or reports. The Technical Specifications require at least semiannual ROC meetings and at least quarterly audits of reactor operations by the ROC or a subcommittee thereof. In the last two years there have been problems having audits and meetings scheduled that meet the requirements, but the licensee has identified the problem and is taking appropriate action. It should be noted, though, that all reactor operations have been audited.

No items of noncompliance or deviations were identified.

### 5. Procedures

The inspector reviewed the operating procedures and noted that there have not been any significant changes. During review of the Operating Logs, it was found that all necessary entries were made and actions required had been performed in accordance with the operating procedures.

No items of noncompliance or deviations were identified.

6. Surveillance

The surveillance requirements of the Technical Specifications were observed to be accomplished by review of the surveillance procedures and records. Items specifically checked against Technical Specifications were:

- a. Reactor thermal power calibration
- b. Seismic scram calibration
- c. Control rod reactivity worth and rate of insertion
- d. Rod drop time
- e. Core-recombiner pressure scram test
- d. Shield water level scram test

No items of noncompliance or deviations were identified.

7. Experiments

The inspector reviewed the two most recent new experiments. The requirements for completion of the experiment request form had been met including the ROC review and approval.

No items of noncompliance or deviations were identified.

8. Exit Interview

The inspector met with Dr. Profio at the conclusion of the inspection on November 28, 1979 to discuss the scope and findings of the inspection. The problem of the timeliness of meetings and audits by the ROC, or a subcommittee thereof (Paragraph 4), was discussed, and Dr. Profio indicated that they will work on improving the scheduling to meet the requirements. The fact that there is only one licensed operator for the UCSB L-77 was discussed, considering the commitment in 1976 (IE Inspection Report No. 76-01) to initiate a reactor operator training program to enable University personnel to obtain NRC reactor operator licenses. Dr. Profio commented that he was working on training for non-nuclear background personnel, but because of the non-urgency of the need for more operators, UCSB has not actively pursued the matter.

1727 139