

February 20, 1986

Docket No. 50-433

Dr. A. E. Profio
Nuclear Reactor Director
Department of Chemical and
Nuclear Engineering
University of California, Santa Barbara
Santa Barbara, California 93106

Dear Dr. Profio:

SUBJECT: NRC REVIEW OF UNIVERSITY OF CALIFORNIA, SANTA BARBARA, L-77
RESEARCH REACTOR DECOMMISSIONING PLAN

We are continuing our review of the Decommissioning Plan that has been submitted in support of your application for authorization to decommission your L-77 research reactor. During our review of the additional information you had submitted in support of your Decommissioning Plan, several questions have arisen for which we require additional information and clarification. These questions were discussed with you and your contractor, Rocketdyne, during a teleconference on January 13, 1986. You are requested to document responses to the enclosed questions within 30 days of the date of this letter. Following receipt of the information we will complete our evaluation of your plans for decommissioning. If you have questions regarding this review, contact Harold Bernard, Project Manager, at (301) 492-8529.

Sincerely,

Original signed by
Herbert N. Berkow, Director
Standardization and Special
Projects Directorate
Division of PWR Licensing-B

Enclosure:
As stated

cc: See next page

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

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Sincerely,

A handwritten signature in cursive script that reads "Herbert N. Berkow".

Herbert N. Berkow, Director
Standardization and Special
Projects Directorate
Division of PWR Licensing-B

Enclosure:
As stated

cc: See next page

University of California at
Santa Barbara

Docket No. 50-433

cc: California Department of Health
ATTN: Chief, Environmental
Radiation Control Unit
Radiologic Health Section
714 P Street, Room 498
Sacramento, California 95814

U. S. Environmental Protection Agency
Region IX Office
ATTN: EIS COORDINATOR
215 Fremont Street
San Francisco, California 94111

Chief, Energy Systems
Analyses Branch (AW-459)
Office of Radiation Programs
U. S. Environmental Protection Agency
Room 645, East Tower
401 M Street, S.W.
Washington, D. C. 20460

Mayor
City of Santa Barbara
1500 Warburton Avenue
Santa Barbara, California 95050

Director
Energy Facilities Siting Division
Energy Resources Conservation
and Development Commission
1516 - 9th Street
Sacramento, California 95814

Attorney General
555 Capitol Mall
Sacramento, California 95814

Follow Up Questions
To UCSB

Licensee's Response
to Original Question #

- 3 In your response to our question you state in part that "... the carbon steel outer shield tank is not appreciably activated", and you imply that this tank will be disposed of as nonradioactive material. The regulations do not identify levels of licensed material that are below regulatory concern. All licensed material must be disposed in accordance with the regulations in 10 CFR 20. In your response indicate your commitment to dispose of any radioactive licensed material by means provided in 10 CFR 20.
- 9 In your response to this question it is implied that you may have to store licensed material, intended for disposal, after you have requested that your license be terminated. The regulations do not permit the possession of licensable material without a license, even if packaged for disposal and only stored prior to being shipped for disposal. Describe your provisions for disposition of all licensed material prior to requesting license termination. You will not be permitted to store radioactive reactor components under the General License for UCSB from the State of California.
- 10 Your response to this question does not include locations for the surveys on the walls, ceiling, drains, trenches or other locations. Describe more fully the locations of your sampling survey.
- 12 and Region V #5 As part of your final report to the NRC you will be required to certify that the release criteria of 5 microrem per hour above background at one meter from any surface has been met. The indicated Micro-R-Meter is not a true dose equivalent ratemeter and does not provide a direct measurement. Describe the means (e.g. calculations, etc.) that will be used to conclude that the above criterion has been met.
- Region V #1 Describe your method for analyzing the shielding water in more detail. Your response does not sufficiently describe your analytical procedure to determine its acceptability.
- Region V #3 It is not clear from your response that UCSB management has reviewed and identified the applicable portions of the Rocketdyne radiation protection program to assure that the Rocketdyne program complies with the conditions and commitments of the UCSB license. Please clarify your response.