

THE CITY OF SANTA CLARA CALIFORNIA

OFFICE OF THE
MAYOR

CITY HALL
1500 WARBURTON AVE.
SANTA CLARA, CA. 95050
(408) 984-3250

November 26, 1985

United States Nuclear Regulatory
Commission
Washington, D.C. 20555

Attn: Cecil O. Thomas, Chief
Standardization and Special
Projects Branch
Division of Licensing

Gentlemen:

Enclosed you will find a copy of your letter to Dr. A. E. Profio at the University of California, Santa Barbara sent, we believe, in error to the City of Santa Clara rather than the City of Santa Barbara.

Would you please check your records to verify this information?

Thank you.

Sincerely,



Nancy R. Abeels
Administrative Secretary

/nra
Encl.

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

November 15, 1985

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: REQUEST FOR ADDITIONAL INFORMATION, U.C.S.B. 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. Since our first request for additional information, the Region V Office has submitted several questions for which we require answers. You are requested to provide written responses to the enclosed questions no later than December 9, 1985. Following receipt of this information, we will continue our evaluation of your plans for decommissioning. If you have any questions, please contact Harold Bernard, our Project Manager for your facility, at (301) 492-9799.

Sincerely,

Cecil O. Thomas

Cecil O. Thomas, Chief
Standardization and Special
Projects Branch
Division of Licensing

cc: See next page

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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 Freemont 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~~ *wrong address!*
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

Additional Questions to U. C. Santa Barbara
Regarding The Decommissioning Plan of the
L-77 Research Reactor

1. Who will conduct the analysis of the shielding water and what analytical method will be used? Will analysis for H^3 be included?
2. Throughout the plan statements are made that certain records (e.g., calibration records, training records) will be kept by the contractor. UCSB management has the responsibility for compliance with all requirements and commitments. Will copies of all records necessary to demonstrate compliance with regulatory requirements and commitments made in the Decommissioning Plan be available at the UCSB facility?
3. Section 2.1, Radiation Protection Program, states that the radiation protection program to be used for this decommissioning project is an extension of the program used by the contractor. Will the UCSB management review this program to assure compliance and consistency with UCSB's license? Will the extent and conclusions of this review be documented? Will the records documenting the implementation of the radiation protection program be maintained at the UCSB facility?
4. The residual surface contamination criteria presented in Section 7.0, Technical and Environmental Specifications, is not fully consistent with the guidance provided in Regulatory Guide 1.86. Provide the basis for this proposed deviation, or include Table I of Regulatory Guide 1.86 in Section 7 of the Decommissioning Plan. The reference to the residual ambient radiation does not specify a distance. This should read 5 μ r/hr above background at one meter from any surface.
5. The sodium iodide scintillator's response is very dependent on the energy of the incoming radiation. It is therefore not possible to determine the ambient radiation exposure rate using this instrument. Specify the instrument(s) and methodology that will be used when determining compliance with the 5 μ r/hr residual gamma exposure rate at one meter.

The NRC staff will use Reuter-Stokes PIC's to verify the residual gamma exposure rates at one meter during our Termination Radiation Survey. These detectors will be used to determine compliance with your Decommissioning Plan.

6. Your method of surveying $1m^2$ from every $9m^2$ in your proposed Termination Radiation Survey Plan may not be adequate. During the NRC's Termination Radiation Survey, different areas than those you analyzed might be surveyed. Also, more than one area within any $9m^2$ area might be surveyed. Please revise your Termination Radiation Survey Plan to accommodate these considerations.