

UNIVERSITY OF CALIFORNIA, IRVINE

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SANTA BARBARA • SANTA CRUZ

Dr. George E. Miller
Senior Lecturer Emeritus
*Department of Chemistry and
Supervisor, Nuclear Reactor Facility
Director Science Education Programs, School of Physical Sciences*

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Enclosed is a formal application for renewal of:
Reactor Operating License R-116 (Docket 50-326)

Please direct all technical questions to myself:

Dr George E. Miller
Dept of Chemistry, UC Irvine, Irvine CA 92697-2025

Telephone numbers, FAX numbers, and e-mail; address at which I may be reached are given above.

Respectfully,

A handwritten signature in cursive script that reads "George E. Miller".

George E. Miller

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Office of the Executive Vice Chancellor

October 18, 1999

Director of Nuclear Reactor Regulation
US Nuclear Regulatory Commission
Document Control Desk
Washington DC 20555

509 Administration
Irvine, CA 92697-1000
(949) 824-6296
FAX (949) 824-2438

RE: License: R-116, Docket 50-326
Application for Renewal of Class 104 License for the UCI Nuclear Reactor Facility
(UCINRF)

Gentlemen:

The Regents of the University of California hereby apply for a renewal of the license to operate the nuclear research reactor at the University of California Irvine campus for a further period of twenty (20) years. The reactor has been successfully operated since November 25th 1969, and the present license expires in November 1999.

We wish to affirm that the administrative and financial structure supporting the reactor operation (and eventual decommissioning) is unchanged from the previous thirty year period.

A revised Safety Analysis Report is being submitted to accompany this application (under separate cover) showing that the facility is very little changed since first constructed. We note that a revised local seismic analysis based on new information regarding the UCI campus and the surrounding area is currently being prepared, but is not yet fully available. We anticipate revising that section of the SAR within the next few months, as well as updating several instrumentation pages, since new instrumentation is being made available, but is not yet installed.

In accordance with Federal Regulations Title 10 Part 50.33, the following information is provided and conforms with information on the present license:

- (a) **NAME OF APPLICANT:** The Regents of the University of California
- (b) **ADDRESS OF APPLICANT:** University of California Irvine, Irvine CA 92697
- (c) **DESCRIPTION OF BUSINESS OR OCCUPATION OF APPLICANT:** Public Research University.
- (d)(3) (i) **THE STATE WHERE APPLICANT IS ORGANIZED AND DOING BUSINESS:**
California.
- (ii) **NAMES OF PRINCIPAL OFFICERS:**
Board of Regents, all US citizens:
Address: Office of the Secretary, Regents of The University of California, 1111 Franklin Street, 12th Floor, Oakland, CA 94607-5200

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State Capitol
Sacramento, CA 95814

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Lieutenant Governor
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San Diego, CA 92101

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California Alumni Association
Alumni House
Berkeley, CA 94720

Dr. Markell W. Kohn
Alumni Regent-designate
(Treasurer AAUC)
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FACULTY

Lawrence Coleman
University of California
1111 Franklin Street, 12th Floor
Oakland, CA 94607-5200

Michael Cowan
1111 Franklin Street, 12th Floor
Oakland, CA 94607-5200

(iii) WHETHER IT IS OWNED, CONTROLLED, OR DOMINATED BY AN ALIEN, A FOREIGN CORPORATION, OR FOREIGN GOVERNMENT:

The University of California is not owned, controlled or dominated by any foreign entity.

(e) THE CLASS OF LICENSE APPLIED FOR, THE USE TO WHICH THE FACILITY WILL BE PUT, THE PERIOD OF TIME FOR WHICH THE LICENSE IS SOUGHT, AND A LIST OF OTHER LICENSES ISSUED OR APPLIED FOR IN CONNECTION WITH THE FACILITY:

A Class 104 license is requested for a twenty (20) year period. The facility will continue to be used as a source of neutrons and gamma radiation for basic and applied research and educational uses. Access to use of the facility is provided both to qualified users from the Irvine campus, and from outside entities.

(f) FINANCIAL QUALIFICATION TO SUPPORT OPERATION:

The University of California, Irvine will maintain the existing insurance policy (NELIA) and continue general support from its operating budget. Separate health physics/safety oversight is maintained from the UCI Office of Environmental Health and Safety, which is funded completely independently of the reactor.

As a primary state agency for higher education in the State of California, the University of California is a large organization. The state budget proposed for UC for 1999-2000 is \$2.7 billion, while the Regents also maintain an endowment investment, exclusive of retirement funds, of over \$13 billion. Thus financial continuity for the next twenty year period is assured.

The operating budget for the facility is estimated at less than \$30,000 per year, with little change over the 5 year period, a sum readily met from operating funds within the School of Physical Sciences.

Copies of fiscal reports for UC and/or UCI in prior years can be provided if necessary.

(g) Applicable to Power Reactors only.

(h) No reconstruction or alteration is proposed.

(i) Not applicable to Class 104 applications.

(j) No Restricted Data or Defense Information is included.

(k) **FINANCIAL ASSURANCE FOR DECOMMISSIONING:** In accordance with 10CFR 50.75(e) (2) (iv), the University submitted a letter of agreement dated July 19th, 1990. A copy is attached for information. A revised estimate of costs, adjusted for inflation, is \$1.0 M anticipated, based on estimates of increased waste disposal prices. However, there is currently large variability in dry low level waste disposal costs, so that the original estimate may still be sufficient. The University, as permitted, still plans to request funds at the time decommissioning is planned. As indicated in part (f) above, the University fully expects to be able to meet such an obligation.

SIGNED UNDER OATH OR AFFIRMATION

In accordance with 10CFR 50.4, The University of California certifies that information submitted herein and in supplements to this application is true and correct to the best of our knowledge and belief.

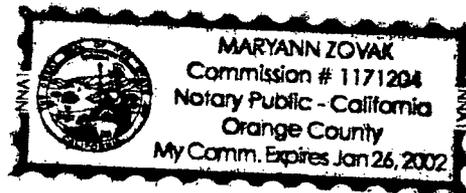
Very truly yours,

The Regents of the University of California


by William J. Lillyman
Executive Vice Chancellor, UC Irvine.

Notarization:

SUBSCRIBED AND SWORN TO BEFORE ME
THIS 20 DAY OF October 1999
Maryann Zovak
NOTARY PUBLIC





EXECUTIVE VICE CHANCELLOR
IRVINE, CALIFORNIA 92717

July 19, 1990

Director, Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
1 White Flint North
11555 Rockeville Pike
Rockeville, MD 20852
Attention: Document Control Desk

Re: Docket 50-326
License R-116
University of California, Irvine, Nuclear Reactor Facility

Gentlemen:

In accordance with the requirements of 10 CFR 50.33, and 50.75, the following decommissioning statement is submitted for the University of California, Irvine TRIGA Nuclear Reactor Facility:

- 1) The estimated cost of decommissioning the U. C. Irvine Reactor Facility is \$600,000. The decommissioning method will involve removal of all radioactive and contaminated material down to levels acceptable for unrestricted use. The cost estimate is based on the recent, actual decommissioning cost of the Michigan State University reactor which was also a Mark I TRIGA facility.
- 2) The University of California is a state government institution and therefore, in accordance with the provisions of 10 CFR 50.75 (e) (2) (iv), the funds needed for decommissioning will be requested at the time that a decision to decommission the facility is made.
- 3) The cost estimate for decommissioning the facility will be periodically adjusted for inflation, taking into account any new data that becomes available. Revised estimates will be reported to the Commission at intervals not to exceed five years.

Sincerely,

A handwritten signature in cursive script that reads "William Parker".

William H. Parker
Acting Executive Vice Chancellor

cc: Dean Harold Moore, Physical Sciences
Reactor Administrator F. S. Rowland, Chemistry Department

bcc: VC Schwartz
R. Dormaier
W. Smirl-EH&S
C. Hansen-C&G
✓G. Miller-Chemistry
N. Price
H. Gammonley

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