

UNIVERSITY OF CALIFORNIA, IRVINE

BERKELEY • DAVIS • IRVINE • LOS ANGELES • RIVERSIDE • SAN DIEGO • SAN FRANCISCO



SANTA BARBARA • SANTA CRUZ

George E. Miller  
Senior Lecturer Emeritus  
*Department of Chemistry and  
Supervisor, Nuclear Reactor Facility*

IRVINE, CA 92697-2025  
(949) 824-6649 or 824-6082  
FAX: (949) 824-8571  
email: gemiller@uci.edu  
April 29<sup>th</sup> 2016

US Nuclear Regulatory Commission  
Document Control Desk  
Washington DC 20555-0001  
Attention: Michael Balazik, Senior Project Manager

**Re: Docket 50-326 R-116 License**

Dear Mr. Balazik:

The University of California Irvine hereby requests that license limits for our TRIGA Mark I nuclear reactor facility be established as follows:

Up to 5.0 kilograms U-235 contained in the form of standard TRIGA fuel elements enriched to less than 20%  
Up to 25 grams of U-235 in the form of fission detectors, fission plates, foils, chemical compounds, or solutions enriched to any enrichment.

In addition we request that the license specify authorization for the following:

Special nuclear material as may be produced by the operation of the facility, and

Special nuclear material as may be received in TRIGA fuel elements that are transferred to our license following utilization in other reactor facilities, provided that the total amount not exceed that authorized as requested above.

The basis for these requests, that represent a modest increase from our current license, is to stay well within sensible safety and security limits, but to allow for very modest expansion of our programs in fissionable materials research, especially related to nuclear security, and other reactor utilization over the next several years. The request also clarifies (relative to our current license) the various forms that the special nuclear material may take at this facility.

**I declare under penalty of perjury that the foregoing and the attached are true and correct to my knowledge.**

Executed on April 29<sup>th</sup> 2016

A handwritten signature in black ink, appearing to read "George E. Miller", is written over the printed name.

Dr. George E. Miller

A020  
NRB