

January 30, 2014

Dr. Michael R. Gottfredson
Executive Vice Chancellor and Provost
University of California, Irvine
Irvine, CA 92697-1000

SUBJECT: UNIVERSITY OF CALIFORNIA, IRVINE – REQUEST FOR ADDITIONAL
INFORMATION RE: REVIEW OF THE EMERGENCY PLAN FOR LICENSE
RENEWAL FOR THE UNIVERSITY OF CALIFORNIA, IRVINE NUCLEAR
REACTOR FACILITY (TAC NO. ME1579)

Dear Dr. Gottfredson:

The U.S. Nuclear Regulatory Commission (NRC) is continuing its review of the University of California, Irvine (UCI, the licensee) application for the renewal of Facility Operating License No. R-116 for the UCI Nuclear Reactor Facility dated October 18, 1999 (a redacted version of the application is available on the NRC's public Web site at www.nrc.gov under Agencywide Documents Access and Management System Accession No. ML083110112), as supplemented.

The NRC staff review of your license renewal application includes a review of your current emergency plan, titled "Emergency Plan for the University of California, Irvine Nuclear Reactor Facility," Revision 4.1, dated February-May 2013, submitted to the NRC via letter dated May 23, 2013. Our review identified five questions, which are provided in the enclosed request for additional information (RAI). Please provide your response to the enclosed RAI within 30 days from the date of this letter.

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) Section 50.30(b), you must execute your response in a signed original document under oath or affirmation. Your response must be submitted in accordance with 10 CFR 50.4, "Written communications." Information included in your response that is considered sensitive, or proprietary, that you seek to have withheld from the public, must be marked in accordance with 10 CFR 2.390, "Public inspections, exemptions, requests for withholding." Any information related to security should be submitted in accordance with 10 CFR 73.21, "Protection of Safeguards Information: Performance requirements." Following receipt of the additional information, we will continue our evaluation of your license renewal request.

M. Gottfredson

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If you have any questions about this review, or if you need additional time to respond to this request; please contact me by telephone at 301-415-3841 or by electronic mail at

Jason.Lising@nrc.gov

Sincerely,

/RA/

A. Jason Lising, Project Manager
Research and Test Reactors Licensing Branch
Division of Policy and Rulemaking
Office of Nuclear Reactor Regulation

Docket No. 50-326
License No. R-116

Enclosure:
RAI

cc: See next page

University of California at Irvine
cc:

Docket No. 50-326

Dr. Scott Rychnovsky, Chair
Department of Chemistry
University of California, Irvine
Irvine, CA 92697-2025

Radiological Health Branch
State Department of Health Services
P.O. Box 9442732
Sacramento, CA 94234-7320

Dr. George E. Miller
Department of Chemistry
University of California, Irvine
516 Physical Sciences 1
Irvine, CA 92697-2025

Test, Research, and Training
Reactor Newsletter
University of Florida
202 Nuclear Sciences Center
Gainesville, FL 32611

M. Gottfredson

- 2 -

If you have any questions about this review, or if you need additional time to respond to this request; please contact me by telephone at 301-415-3841 or by electronic mail at

Jason.Lising@nrc.gov

Sincerely,

/RA/

A. Jason Lising, Project Manager
Research and Test Reactors Licensing Branch
Division of Policy and Rulemaking
Office of Nuclear Reactor Regulation

Docket No. 50-326

License No. R-116

Enclosure:

RAI

cc: See next page

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DATE	01/27/2014	01/27/2014	01/28/2014	01/28/2014	01/30/2014

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OFFICE OF NUCLEAR REACTOR REGULATION
REQUEST FOR ADDITIONAL INFORMATION
REGARDING THE REVIEW OF THE EMERGENCY PLAN
FOR THE RENEWAL OF THE FACILITY OPERATING LICENSE
FOR THE UNIVERSITY OF CALIFORNIA, IRVINE NUCLEAR REACTOR FACILITY
LICENSE NO. R-116; DOCKET NO. 50-326

The U.S. Nuclear Regulatory Commission (NRC) is continuing its review of the University of California, Irvine (UCI, the licensee) application for the renewal of Facility Operating License No. R-116 for the UCI Nuclear Reactor Facility dated October 18, 1999 (a redacted version of the application is available on the NRC's public Web site at www.nrc.gov under Agencywide Documents Access and Management System Accession No. ML083110112), as supplemented.

The NRC staff review of your current emergency plan, "Emergency Plan for the University of California, Irvine Nuclear Reactor Facility," Revision 4.1, dated February-May 2013, submitted to the NRC via letter dated May 23, 2013, identified five questions. Please provide responses to the following requests for additional information (RAIs) within 30 days from the date of this letter.

RAI 1:

The summary of the changes provides the following in reference to the elimination of Environmental Health and Safety's (EH&S's) dedicated fully equipped vehicle:

Conclusion: EH&S radiological staff continue to maintain equipment in a full state of readiness in their permanent facilities at a location apart from but less than 0.5 miles from the reactor facility. Vans are available for transport of the equipment to the facility.

What ensures the availability of these vans to respond to an event at the reactor site?

RAI 2:

The summary of the changes provides the following in reference to the elimination of the EH&S Emergency Response Team:

Conclusion: There are still sufficient trained personnel to respond to any conceivable emergency at the facility. A large back-up formal team was never seen as essential.

Describe the organization(s) that supply the personnel who replace the EH&S Emergency Response Team and what training they receive. Provide a description what training was previously given to personnel assigned to the EH&S Emergency Response Team.

Enclosure

RAI 3:

In the Emergency Plan, Revision 4.0, Section 3.1, it states that “UCI Student Health personnel...received training in handling minor radioactive contamination.” This statement was not included in Revision 4.1 or identified as a change to Revision 4.1. Please provide the following:

- a. When was this change made?
- b. What was the basis for this change?
- c. Provide what training responders have for the handling of contaminated injured personnel.

RAI 4:

In the Emergency Plan, Revision 3, Section 8.4, it states that “Each EH&S staff member carries a portable radio.” In Revisions 4.0 and 4.1, it states that “During periods of extreme alert or pre-judged increased likelihood of an incident, radio communication equipment will be kept at the facility.” Please provide the following:

- a. When was this change made?
- b. What was the basis for this change?
- c. Describe, by position, who would determine that “periods of extreme alert or pre-judged increased likelihood of an incident” exists and at what facility the radio communication equipment will be kept.

RAI 5:

“Content” page does not correctly reflect page locations for some sections of the plan. For example, “Content” page lists Section 3.0 on page 9. Section 3.0 actually appears on page 10. Please confirm accuracy of the “Content” page.