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**Gunter H.R.Kegel, Ph.D.**  
*Director, Radiation Laboratory*

## RADIATION LABORATORY

May 14, 2010

ATTN: Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

Re: UNIVERSITY OF MASSACHUSETTS AT LOWELL REQUEST FOR ADDITIONAL  
INFORMATION REGARDING THE APPLICATION FOR SPECIAL NUCLEAR  
MATERIAL POSSESSION LIMIT INCREASE (TAC NO. MD8109)

FACILITY OPERATING LICENSE R-125, DOCKET NO. 50-223

In response to a telephone conversation with Mr. Al Adams of NRC on May 13, 2010, the University of Massachusetts Lowell hereby submits the following additional information.

Item 1:

For license condition 2.B.(2), we propose the following which includes some additional wording to that proposed in Item 1 in the letter from the University of Massachusetts Lowell dated May 7, 2010.

Pursuant to the Act and 10 CFR Part 70, "Domestic Licensing of Special Nuclear Material," to receive, possess, and use at any one time up to 6.0 kilograms of contained uranium-235 at enrichment less than 20 percent in the form of material test reactor (MTR) type reactor fuel for use in connection with operation of the reactor.

Item 2:

For license condition 2.B.(3), we propose the following which removes an extra word from that proposed in Item 3 in the letter from the University of Massachusetts Lowell dated May 7, 2010.

Pursuant to the Act and 10 CFR 30 and 70, to possess, but not separate, such byproduct and special nuclear materials as may be produced by the operations of the reactor, and to receive, possess, and use up to 5 Ci Am-Be and 10 Ci Sb-Be neutron sources in connection with operation of the reactor, and to receive, possess, use and transfer byproduct materials activated in reactors other than the University of Massachusetts Lowell reactor, in the form of Cobalt-60, in quantities not to exceed 1,500,000 curies at any time.

In addition, it has been noted that the proposed wording for license condition 2.B.(3) as presented here and in the letter from the University of Massachusetts Lowell dated May 7, 2010

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includes a change in the name of the university. This change is consistent with Amendment 11 to license R-125 provided by NRC in a letter dated February 20, 1992.

Please feel free to direct questions or concerns regarding this additional information to:

Mr. Leo Bobek, Reactor Supervisor  
Radiation Laboratory  
University of Massachusetts Lowell  
One University Avenue  
Lowell, MA 01854

I declare under penalty of perjury that the foregoing is true and correct.

Sincerely,

A handwritten signature in dark ink, appearing to read "Gunter H. R. Kegel". The signature is fluid and cursive, with the first name "Gunter" being more prominent.

Gunter H. R. Kegel  
Director, Radiation Laboratory

Cc: Mr. Al Adams  
NRR/ADRO  
USNRC