



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION III
2443 WARRENVILLE ROAD
LISLE, ILLINOIS 60532-4352

JUN 03 2005

John E. Rebers, Ph.D.
Radiation Safety Officer
Northern Michigan University
Department of Biology
1401 Presque Isle Avenue
Marquette, MI 49855-5341

Dear Dr. Rebers:

Enclosed is Amendment No. 17 to your NRC Material License No. 21-09119-02 in accordance with your request. Please note that some of the changes made to your license are printed in **bold** font. Please be sure that you understand all conditions. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region III office at (630) 829-9887 so that we can provide appropriate corrections and answers.

At this time I updated Condition No. 15 to permit the decay-in-storage of materials with a half-life less than or equal to 120 days, instead of 90 days. This reflects a new NRC policy change resulting from Regulatory Issue Summary 2004-17, which is available on our website at <http://www.nrc.gov>.

This amendment deletes Frank Verley, Ph.D. as an authorized user.

Your letter dated March 14, 2005, mentioned that on February 10, 2005, you wrote to request amendments to this license, repeated in the March 14, 2005, letter. Please note that it does not appear that we ever received your letter dated February 10, 2005. In the future, you may find it best to contact us a few weeks after mailing in your licensing correspondence to ensure that we received it unless you receive our "acknowledgment of correspondence" postcard first.

I was unable to approve your requests to add Eugene B. Wickenheiser, Ph.D. and Osvaldo Lopez, Ph.D. as authorized users at this time because the information in your letter dated March 14, 2005, was insufficient to complete my review.

If you wish to pursue these authorizations please submit the information requested below, state that the resubmission is "additional information to Control Number 314306," and reference it to my attention at the above address.

Please also advise us of the facsimile telephone number for a contact person for your licensed program, such as the RSO.

We will require additional detailed information about each of your proposed authorized users (AU), Eugene B. Wickenheiser, Ph.D. and Osvaldo Lopez, Ph.D. To assist you in preparing your response, I am offering the following guidance and suggestions and I recommend you refer to NUREG 1556, Vol. 7, Final. You should already have a hard copy of this guidance document and it is available on our website also.

Generally, the training and experience supporting an authorized user applicant should be commensurate with the types, quantities and proposed uses of radionuclides and the associated degree of hazard.

For example, a minimal level of training and experience would be necessary for an authorized user working with microcurie amounts of pre-labelled soft beta emitting radionuclides "in vitro."

Additional training and experience in the safe handling of radioactive materials, appropriate to the type of use, would be necessary for an authorized user working with millicurie amounts of gamma-emitting materials "in vivo" or for an authorized user working with millicurie or curie amounts of tritium, iodine-125, carbon-14 or phosphorus-32 in labelling procedures.

Please refer to section 8.7 in NUREG 1556, Vol. 7, for guidance in preparing your response.

Also, the criteria in 10 CFR 33.15(b), available on our website, may also assist you.

Please do not include extraneous, personal, proprietary information such as resumes, curricula vitae, college transcripts, dates of birth, social security numbers, etc. as our review will focus on the radiation safety training, education and work experience only. If appropriate, you may include a brief narrative statement of explanation.

Specifically, each authorized user applicant should submit information that clearly demonstrates his/her radiation safety education, training and work experience is commensurate with the proposed possession and use and associated hazard potential.

It may be useful to describe in greater detail, but concisely what major field of study each applicant obtained his/her degree in, particularly if the degree does not readily appear to be associated with the use of radioactive materials. If the applicant received radiation safety training or supervised radioactive materials work experience as an undergraduate and/or graduate student, please provide details describing "on-the-job" and/or formal coursework training, including the location and duration (hours, days or months) of the training.

Training should consist of at least forty hours and cover:

1. principles and practices of radiation protection,
2. radioactivity measurements, standardization, and monitoring techniques,
3. mathematics and calculations basic to the use and measurement of radioactivity,
4. *biological hazards of exposure to radiation appropriate to the type and form of byproduct material to be used, and*
5. radiation detection instrumentation.

Please describe the typical and maximum activities each applicant used for each isotope listed on your current license and the types of experiments each applicant engaged in (bound or unbound, "in vitro" or "in vivo.")

Please provide appropriately detailed information for Eugene B. Wickenheiser, Ph.D. and Osvaldo Lopez, Ph.D.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). The NRC's document system is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>

J. Rebers

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Please direct any questions you may have to me at (630) 829-9841 or (800) 522-3025. My fax numbers are (630) 829-9782 or (630) 515-1259.

Sincerely,


Colleen Carol Casey
Materials Licensing Branch

License No. 21-09119-02
Docket No. 030-08204

Enclosure:

Amendment No. 17