



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION III  
2443 WARRENVILLE RD. SUITE 210  
LISLE, IL 60532-4352

January 28, 2016

Alan Schaffer  
Radiation Safety Officer  
Missouri Public Health Laboratory  
101 N. Chestnut Street  
P.O. Box 570  
Jefferson City, MO 65102-0570

Dear Mr. Schaffer:

We have reviewed your amendment request to add additional sealed and unsealed radioactive materials and to add six proposed authorized users to your license. Based on our review, your provided information was insufficient. Please provide the following information.

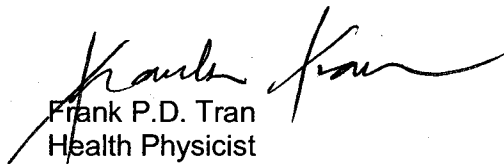
- 1) You request the use of unsealed radioactive materials which were determined to meet the decommissioning financial assurance requirements in 10 CFR 30.35. Based on 10 CFR 30.35, you may have to establish a decommissioning financial assurance instrument in amount of \$225,000.00 or provide a detailed decommissioning funding plan. Please review the requested licensed material, the regulation in 10 CFR 30.35, and NUREG-1757, "Consolidated Decommissioning Guidance", Volume 3, Revision 1 and provide the needed information.
- 2) You request the use of unsealed radioactive materials. Please describe in details the scope of use of those radionuclides.
- 3) You request the authorization for the use of all licensed materials (sealed and unsealed radionuclides with half-life more than 120 days) for six individuals. However, the training and experiences provided in the letters dated November 24, 2015 and April 21, 2015 were insufficient. Specifically, the proposed authorized users had only worked with radioactive sealed sources in the quantity less than one micro-curie. Please provide additional information related to the training and experiences for the proposed authorized users, including the name, the maximum amount, the physical form, and the scope of use (hands-on use) of isotopes, and names of the training's provider and instructor for each proposed authorized user.
- 4) In "Section 9", you request the use of materials listed from M. through O. for calibration of analytical equipment and spiking analytical samples. What are the scope of use for materials listed in P. (hydrogen-3) and Q. (radium-226). In addition, could you please describe the process of "spiking analytical samples".

To continue review of your amendment request, we request that you submit your written response to this letter by February 19, 2016. Your response must be dated and signed by authorized personnel and please refer Mail Control Number 589465 in your response to facilitate proper mail handling in our office. To expedite the licensing process, you could scan and email your response with a cover letter as a pdf file to [frank.tran@nrc.gov](mailto:frank.tran@nrc.gov). If we do not receive a reply from you by the date above, we shall assume that you do not wish to pursue

your amendment request. If you have any questions or require clarification on any of the information stated above, please do not hesitate to contact me at 630-829-9887 or [frank.tran@nrc.gov](mailto:frank.tran@nrc.gov).

In accordance with Title 10 Code of Federal Regulations 2.390 of the U.S. Nuclear Regulatory Commission's (NRC) "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the NRC's Agencywide Documents Access and Management System (ADAMS), accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>.

Sincerely,



Frank P.D. Tran  
Health Physicist  
Materials Licensing Branch

License No. 24-35208-01  
Docket No. 030-38804

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