

NSF International

NSF International
License No. 21-15209-02
Control Number 576124

To: Robert C. Robke, Radiation Safety Officer, NSF International
From: Toye L. Simmons, License Reviewer, NRC, Region III

I have reviewed your request dated September 26, 2011 to add 10 CFR 30.71 and Hydrogen-3 (tritium) material and I have several questions that need a response before I can complete my review. Please respond to the following in writing on company letterhead with your signature:

1. Please provide the training and experience for the individuals who plan to use tritium.
2. Your license only authorizes microcurie quantities of radioactive material. You have requested 100 millicuries of tritium for research purposes. Use of this material in such quantities will require more frequent area surveys and wipe tests. Please confirm that you will conduct area surveys and wipe tests at the frequencies specified in Appendix Q of NUREG-1556, Volume 7 dated December 1999. Further, please clarify why your operation requires 100 millicuries.
3. It is not clear why you wish to add exempt quantities to your license when you already have the freedom to use these materials as necessary. Please clarify your use of these materials.
4. Please confirm that the added radioactive material will be used and stored in the same locations as provided with your original application dated August 20, 2010 or provide updated diagrams showing where the tritium will be used and stored.
5. Since you are requesting millicurie quantities of tritium, please confirm that personnel monitoring will be reevaluated for those individuals who will be authorized to use tritium and that you will maintain a record of this reevaluation for review by NRC inspection staff.

Submit a **signed** written response addressing the items described above within **10 days of the date of this record**. You may **FAX your response to me at 630-515-1078**. Please **reference the control # 575068 in your response**. Or you may email your response to me at toye.simmons@nrc.gov. If you have any questions regarding the above, please contact me at 630-829-9842.

NAME OF PERSON DOCUMENTING CONVERSATION
Toye L. Simmons

SIGNATURE

Toye L. Simmons

DATE

December 14, 2011

*Mr Robke was called
12/14/11 and deficiency
items were discussed.
This information was
forwarded to Mr. Robke on
12/14/11. H*