



UNITED STATES  
**NUCLEAR REGULATORY COMMISSION**  
REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

June 29, 2011

Docket No. 03035668  
Control No. 574678

License No. 45-25551-01

Sherry J. Davis  
Chief, Environment, Safety, and Occ. Health Division  
Department of Defense  
Defense Threat Reduction Agency/BE-BP/ESOH  
8725 John J. Kingman Road MSC 6201  
Fort Belvoir, VA 22060-6201

SUBJECT: DEPARTMENT OF DEFENSE, REQUEST FOR ADDITIONAL INFORMATION  
CONCERNING APPLICATION FOR RENEWAL OF LICENSE, CONTROL NO.  
574678

Dear Ms. Davis:

This is in reference to your application dated June 10, 2011 requesting to renew Nuclear Regulatory Commission License No. 45-25551-01. In order to continue our review, we need the following additional information:

1. In item 5 of your application, you requested certain radioactive isotopes. Item AL was requested to not exceed 60 millicuries per source. Currently your license maximum is 44 millicuries per source and the maximum activity in the sealed source and device registry is 44 millicuries per source for that model number. Please change the request to 44 millicuries per source or provide additional information that would allow the higher activity for the source.
2. In item 5 of your application, you requested for authorization of unsealed materials. However the rest of your application did not support the use of unsealed materials. Specifically, authorized users must be named and supported by the qualifications of those authorized users. Please see section 8.7.2 of NUREG 1556, Volume 7, "Consolidated Guidance About Materials Licenses, Program-Specific Guidance About Academic Research and Development, and Other Licenses of Limited Scope." Please submit name of proposed authorized users along with their education and experience using unsealed materials. In item 8 you did not submit a training program for users that contained the additional elements that would be expected in a program using unsealed materials. If the use of unsealed materials is isolated to a particular location, please designate that location so that training could still be used to authorize users for sealed materials. Please submit additional attributes of training for users of unsealed materials. You may wish to review the items in Appendix J of NUREG-1556, Volume 7.

3. In item 10.3.1 of your application, you specified the frequency of an inventory of at least annually. The guidance in NUREG-1556, Volume 7 section 8.10.3 is that inventories are performed at intervals not to exceed 6 months. Please commit to performing inventories at least every 6 months or submit additional justification why a less frequent inventory maintains the same level of material accountability.
4. In item 10.4 of your application, you specified that you will monitor individual in accordance with "Radiation Safety Program-Occupational Dose" in Appendix O of NUREG-1556, Volume 7. There is no Radiation Safety Program-Occupational Dose in Appendix O, which discusses public doses. Please submit the following statement, "We have done a prospective evaluation and determined that unmonitored individuals are not likely to receive, in one year, a radiation dose in excess of 10% of the allowable limits in 10 CFR Part 20 or we will monitor individuals in accordance with the criteria in the section entitled 'Radiation Safety Program - Occupational Dose' in NUREG - 1556, Vol. 7, 'Consolidated Guidance about Materials Licenses: Program-Specific Guidance about Academic, Research and Development and Other Licenses of Limited Scope,'" dated December 1999." OR A description of an alternate method for demonstrating compliance with the referenced regulations. This is based on the guidance given in NUREG-1556, Volume 7 in section 8.10.4.

Current NRC regulations and guidance are included on the NRC's website at [www.nrc.gov](http://www.nrc.gov); select **Nuclear Materials; Medical, Academic, and Industrial Uses of Nuclear Material**; then **Regulations, Guidance, and Communications**. You may also obtain these documents by contacting the Government Printing Office (GPO) toll-free at 1-866-512-1800. The GPO is open from 7:00 a.m. to 6:30 p.m. EST, Monday through Friday (except Federal holidays).

We will continue our review upon receipt of this information. Please reply to my attention at the Region I Office and refer to Mail Control No. 574678. If you have any technical questions regarding this deficiency letter, please call me at (610) 337-5366.

In order to continue prompt review of your application, we request that you submit your response to this letter within 30 calendar days from the date of this letter.

Sincerely,

***Original signed by Dennis R. Lawyer***

Dennis R. Lawyer  
Health Physicist  
Commercial and R&D Branch  
Division of Nuclear Materials Safety

cc:  
Michael W. Hinton, Radiation Safety Officer

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**SUNSI Review Complete: DLawyer**

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