



Smithsonian Institution

Office of Safety, Health and Environmental Management

April 3, 2015

Ms. Betsy Ullrich, Senior Health Physicist
Commercial, Industrial, R&D and Academic Branch
Division of Nuclear Materials Safety
U.S. Nuclear Regulatory Commission, Region 1
2100 Renaissance Boulevard, Suite 100
King of Prussia, PA 19406-2713

REC'D 1040715 AM 020

License Number 08-05938-13

Expiration Date: January 31, 2015

Docket Number 030-30945

Control Number 585699

Subject: NRC Letter of March 11, 2015, Request for Additional Information

Dear Ms. Ullrich,

As per your letter dated March 11, 2015, I am providing the following information in corresponding order to your request for additional information.

1. Item No. 3, of NRC Form 313, of our application for renewal of the materials license includes all current locations intended to be identified on the license as authorized locations.

The following locations, previously listed as authorized temporary use locations should be removed from the license: Hughes Danbury Optical System/Lexington, 10 Maguire Road, Lexington, Massachusetts; National Technical Systems/Boxborough, 1146 Massachusetts Avenue, Boxborough, Massachusetts; Parker Chomerics, 77A Dragon Court, Woburn, Massachusetts; Hughes Danbury Optical Systems/Danbury, 100 Wooster Heights Road, Danbury, Connecticut.

Only sealed sources were used at these locations. The sealed sources were leak tested and all leak test results were negative. None of the sealed sources were found to be leaking.

2. Item No. 3 of our application lists the Smithsonian Conservation Biology Institute located at Route 522, Front Royal, Virginia. The center was renamed and is the same facility and

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address that is listed on our current license, formerly the Conservation and Research Center.

3. The documentation for older legacy sources no longer exists, however these sources have been leak tested since the last license renewal and all leak test results have been negative. None of the sealed sources have been found to be leaking.
4. In Item 5 of the renewal application, the possession limits for M and N should be listed in units of millicuries. The possession limits for P and V, should be listed in units of microcuries.
5. Please remove Dave Wildt and Steve Monfort as authorized users.
6. Radiation safety training for laboratory workers and museum collections staff is provided by David Peters, Radiation Safety Officer, or a designated staff member. Initial training is provided prior to work with radioactive materials. Refresher training will generally be provided to those that are actively working in or frequenting radioactive use areas on an annual basis. Exceptions will allow flexibility for the travel schedule of workers or temporary duty assignments that make classroom instruction by assigned deadlines impractical.
7. The portable fume hood in Bldg. 24 is not used for disassembly of luminous gauges and instruments. The portable fume hood is only used for storage or temporary placement of objects containing radium-226.
8. Radioisotopes will not be used in animals.
9. As per your letter of March, 11, 2015, no response to this item is necessary at this time.
10. Item 5 of our license renewal application requests the authorization for possession and use of a portable moisture-density gauge containing sealed sources. This Item is to be amended with the following additional information:
 - a. Before using licensed materials, authorized users will have successfully completed one of the training courses described in Criteria in the section entitled "Training for individuals Working in or Frequenting Restricted Areas" in NUREG 1556, Vol. 1, Rev. 1, dated November 2001.
 - b. We will implement and maintain the operating, emergency, and security procedures in the NUREG-1556, Volume 1, Errata, Appendix H, "Operating Emergency and Security Procedures", dated July 5, 2005, and provide copies of the procedures to all gauge users and at each job site.
 - c. We will implement and maintain procedures for routine maintenance of our gauges according to each manufacturer's recommendations and instructions.

- d. We will send the gauge to the manufacturer or other person authorized by NRC or an Agreement State to perform non-routine maintenance or repair operations that require the removal of the source or source rod from the gauge.

Please contact me or David Peters, at (202) 633-2672, should you have any questions regarding this reply.

Sincerely,

A handwritten signature in black ink that reads "Hayes C. Robinson, III". The signature is written in a cursive style with a large, stylized "H" and "R".

Hayes C. Robinson, III, M.S.

Associate Director for the Environmental Management Division