



Smithsonian Institution

Office of Safety, Health and Environmental Management
Environmental Management Division

June 13, 2022

Nuclear Materials Safety
U.S. Nuclear Regulatory Commission, Region 1
2100 Renaissance Blvd., Suite 100
King of Prussia, PA 19406-2713

Attn: Licensing Assistance

Re: License Number: 08-05938-13
Expiration Date: June 30, 2025

Dear Sir/Madam:

The Smithsonian Institution (SI) wishes to amend its current Nuclear Regulatory Commission (NRC) Byproduct Materials License to reflect changing trends in research and museum collection activities. The use of byproduct material possession limits for research formerly served the primary need for authorized licensed activities. However, research projects utilizing licensed material have been trending lower for years in most of our areas of research. In some areas the direction of research has changed, or the use of older research techniques and protocols have been replaced by new methods that do not use byproduct material. This trend has extended to sealed sources used in test and analysis instrumentation and as such, our inventory of sealed sources has also been reduced in recent years. At this time, we do not anticipate that the previous license limits for research will be needed in the foreseeable future.

Meanwhile museum collections, which are primarily held in storage, are somewhat static and at times may incrementally fluctuate over time depending on acquisitions and disposal. To better reflect the needs of the Institution moving forward, we request the following changes, in byproduct material quantities. The changes reflected in this amendment are not expected to affect our current financial assurance statement of intent.

Modifications to the license limits include the following Items:

1. Reduce 6.A. Hydrogen 3 from 90 millicuries to 20 millicuries.
2. Reduce 6.B. Carbon 14 from 85 millicuries to 20 millicuries.
3. Reduce 6.C. Phosphorus 32 from 120 millicuries to 10 millicuries.

Capital Gallery, Suite 7106, MRC-514
Washington DC 20013-7012
202.633-2530 Telephone
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REC RG 1 06 29 22 PM 02 21

4. Reduce 6.D. Phosphorus 33 from 120 millicuries to 10 millicuries.
5. Reduce 6.E. Sulphur 35 from 120 millicuries to 20 millicuries.
6. Reduce 6.F. Iodine 125 from 125 millicuries to 60 millicuries.
7. Increase 6.J. Radium sealed sources from 3.8 millicuries to 50 millicuries
8. Increase 6.M Radium any form from 50 microcuries to 70 microcuries.

In addition, we request the following modifications to the license:

9. Change 12.B to delete authorized user, Liza Hamill.
10. Change 12.D. to include material listed in 6.M.

Please contact Mr. David Peters at (202) 438-6715, or by email at petersd@si.edu, should you have any questions regarding this amendment request.

Sincerely,



Hayes C. Robinson, III, M. S.
Associate Director for Environmental Management