

HOWARD UNIVERSITY

RADIATION SAFETY OFFICE

February 13, 2018

U.S. Nuclear Regulatory Commission – Region I
2100 Renaissance Blvd, Suite 100
King of Prussia, PA 19406 – 2713
Attn: Betsy Ullrich, Senior Health Physicist

Q5

03011063

Through: Anthony K. Wutoh, Ph.D., R.Ph.
Provost and Chief Academic Officer
Howard University

Subject: Amend license # 08-00386-19 to add Actinium Series Isotopes

The Howard University Radiation Safety Committee is requesting an amendment to License No. 08-00386-19 to add Actinium series isotope. Our current research license does not cover this material, which was recently found in one of the labs in the Department of Physics, Howard University. Per the label affixed on the container, the material is recognized as Actinium series. This information was promptly communicated to NRC on February 12, 2018 (memo attached). Currently, the amount of activity of this Actinide series radionuclide is unknown. This office has already contacted local RSO Inc., for further analysis on this source to determine the radionuclides and the activity level. Therefore, an amendment to our license is needed for compliance.

Thank you for your time and consideration in this matter. Please do not hesitate to contact me at my email (satya.bose@howard.edu) or phone (202-806-7216) should you require any additional information.

Sincerely,



Satya Bose, Ph. D., DABR
Director of Radiation Safety, Radiation Safety Officer &
Chief Medical Physicist

cc: Alice A. Mahan
Management Representative to RSC

Sergei A. Nekhai, Ph.D., Professor
Chair, RSC

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NMSS/RGN1 MATERIALS-002



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REC'D IN LAT 2-13-18

HOWARD UNIVERSITY

RADIATION SAFETY OFFICE

February 12, 2018

TO: Reference Librarian
NRC Public Document Room
Attn: Sardar

FROM: Satya R. Bose, Ph. D., DABR
Director of Radiation Safety &
Radiation Safety Officer
Chief Medical Physicist

Subject: **Discovery of an old Radioactive Material**

On February 09, 2018, the Radiation Safety Office performed a radiation survey in the Physics building, room # 209. This survey was done due to an email request from the Howard University Safety Officer. At the time of this inspection, one of the faculty members handed over to me a radioactive source containing Actinium series (per label). This material is in a powder form. According to the label, this material was received by someone in this Institution back in 1942.

The radiation exposure was measured using a radiation survey meter, model 2, serial number 72726 with a probe model 44-9-18, serial number PR 196048. The radiation exposure rate measured on the surface of container was about 10 mR/hour (without shield). This material is currently secured with the Radiation Safety Office. Please advise this office for taking necessary next steps to be in compliance.

If you require any additional information please do not hesitate to contact me by email (satya.bose@howard.edu) or phone at 202-806-7216 (office).

Thank you so much for your time and consideration.

Sincerely,



Satya R. Bose, Ph.D., DABR
Director of Radiation Safety
Radiation Safety Officer &
Chief Medical Physicist, Radiation Oncology

Cc: Alice A. Mahan
Management Representative to RSC
Administrative Director, College of Medicine

Cc: Sergei Nekhai, Ph. D., Professor
RSC Chair



Actinium Source (9)
d - 75.5
July, 1940
Recd from Poisson
31, 1942