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NMSBZ

April 8, 2008

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License No. 07-01579-19
Docket No. 030-10925

United States Nuclear Regulatory Commission, Region I
Nuclear Material Section
475 Allendale Road
King of Prussia, PA 19406-1415

The University of Delaware requests the amendment of its Materials License to possess and use the radionuclides listed in the table below. Existing control measures are adequate to ensure the safe and compliant use of these radionuclides. Inclusion of these radionuclides into the license will not require an alteration to the decommissioning financial assurance arrangements.

Radionuclide	Chemical/Physical Form	Maximum Possession Limit	Proposed Use
U-238 U-234 Pu-239 Am-241	Plated Source ⁽¹⁾	100 DPM each	Calibration and reference source
Po-208	Any	0.0002 mCi	Research and development as defined in Section 30.4 of 10 CFR 30
Po-209	Any	0.0002 mCi	
Po-210	Any	0.2 mCi	
Ac-227	Any	0.002mCi	
Am-241	Any	0.01 mCi	
Pu-238	Any	0.01 mCi	
Pu-239	Any	0.01 mCi	
Pu-242	Any	0.01 mCi	
Ra-226	Any	0.01 mCi	

(1) This is a Canberra Model 7400-SRC Mixed Alpha Standard Source, stainless steel disk 24.1mm diameter x 0.65mm thick electrodeposited with approximately 100DPM each of U-238, U-234, Pu-239, Am-241. It is custom made for Canberra Industries, Inc. by Eckert & Ziegler Analytics and is not a registered sealed source. There is no SSDR Certificate. Canberra states that the University must provided a copy of its specific license with the four radionuclides listed before it will transfer the source to the University.

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NMSS/RGN1 MATERIALS-002

The University requests an expedited review of this amendment request to allow the ordering and use of radioactive materials needed to continue ongoing experiments.

Should you have questions regarding this amendment request, please contact the University Radiation Safety Officer, William Fendt, at (302) 831-8475.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Daniel Rich". The signature is fluid and cursive, with a large initial "D" and "R".

Dr. Daniel Rich
Provost

cc: William Fendt, Radiation Safety Officer