



Environmental  
Health & Safety

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December 9, 2015

Mr. Dennis Lawyer  
Licensing Assistance Team  
U.S. Nuclear Regulatory Commission, Region I  
2100 Renaissance Boulevard, Suite 100  
King of Prussia, PA 19406-2713

License Number 07-01579-19  
Docket No. 030-10925  
Mail Control No. 589256

Dear Mr. Lawyer

As a result of our phone discussion yesterday regarding sealed sources, Item 3, Item 5, and Item 6 of our license renewal request have been amended. They are enclosed with this letter.

Please contact me if you have questions regarding the requested changes.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'W. Fendt'.

William Fendt  
Radiation Safety Officer

Item 3: Addresses Where Licensed Material Will be Used or Possessed.

Licensed material may be used at the facilities of the University of Delaware located at its campuses in 1) Newark, 2) Lewes, and 3) Georgetown, DE. [Licensed material will NOT be used at the Wilmington campus; licensed radioactive materials have never been used at this location.]

Licensed material listed in Items 5.A through 5.D may also be used on-board ships at temporary job sites in U.S. coastal waters, at sea, in inland waters of the State of Delaware and other locations where the US Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.

Hydrogen-3, Carbon-14, and licensed material listed in Item 5.A and 5.D may also be used at temporary job sites in Delaware and other locations where the US Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material. (Hydrogen-3, Carbon-14, and licensed material listed in Item 5.A may not exceed 20 millicuries per radionuclide at any temporary job site.)

Radioactive waste will be managed at the Materials Management Facility at 407 Wyoming Road, Newark, DE 19716 (39.68, -75.74).

Item 5: Radioactive Material

Byproduct, source, and/or special nuclear material	Chemical and/or physical form	Maximum amount that licensee may possess at any one time under this license
A. Any byproduct material with atomic numbers 1 through 83 and half-life less than or equal to 120 days	Any	250 millicuries per radionuclide and 10 Curies total
B. Any byproduct material with atomic numbers 1 through 83 and half-life greater than 120 days	Any	10 Curies each for Carbon-14, Krypton-85, Iodine-129, and any other radionuclide not listed in 10CFR33.100, Schedule A. For all other radionuclides, the sum of the ratio of the quantity of each radionuclide possessed to the applicable quantity specified in 10CFR33.100, Schedule A, Column 1 for that radionuclide shall not exceed unity.
C. Any byproduct material with atomic numbers 84 through 98	Any	1 millicurie per radionuclide
D. Polonium-210	Static Eliminators NRD Models P-2021 and P-2042	10 millicuries per source and 50 millicuries total
E. Cesium-137	Sealed source (Amersham Model CDC.800, X.8 source capsule in Model 28- 5 JLS Instrument Calibrator, Sealed Source Registry No. CA0598D106S)	120 millicuries

Financial assurance documentation, in the form of a Trust Fund Agreement, is on-file with the Nuclear Regulatory Commission. A decommissioning funding plan is not required.

Pursuant to 10 CFR 30.51(f), prior to license termination, we shall forward the records required by 10 CFR 30.35(g) to the appropriate NRC regional office.

Item 6: Purpose(s) for which Licensed Material Will be Used.

Items	Authorized Use
5A through 5D	Research and development as defined in Section 30.4 of 10 CFR 30; teaching and training of students, instrument calibration
5A through 5B	Animal studies (small animals only, e.g. mice, rats, rabbits)
5E	Cesium 137 sealed source, 120 millicuries, Amersham Type X.8 capsule housed in a J.L. Shepherd Model 28-5 Calibrator; used for calibration of instruments