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Office of Laboratory Safety  
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P-3

February 23, 2009

**Licensing Assistance Team**

U.S. Nuclear Regulatory Commission, Region I  
Division of Nuclear Materials Safety  
475 Allendale Road  
King of Prussia, PA 19406-1415

Docket No. 030-09049

License No. 08-00216-22

**SUBJECT:** The George Washington University, License Amendment Request

To: Licensing Assistance Team

Please **amend** our license to change the authorized locations of use, add possession of Ra-226 sealed sources, and correct an item on our current license,

1. Please remove 20101 Academic **Way, Ashburn**, Virginia as **stated** in Condition 10, of our license as an authorized place of use.

We have not used licensed material at our **Ashburn** facilities and with the pending change of Virginia to an Agreement State, we request that this location be removed from our NRC license.

2. Please add the following **sealed** sources to our license:

**RADIOACTIVE MATERIAL**

|     | a. Byproduct material<br>Element and mass<br>number. | b. Chemical and/or Physical Form  | c. Maximum Amount<br>which will be possessed<br>at any one time.      |
|-----|--|---|---|
| 2.1 | Radium 226   | Sealed source <b>manufactured</b> by <b>Monsanto</b> Research Corporation with further encapsulation in stainless steel and identified as <b>Type 274</b> by <b>LKB Wallac Oy</b> for use in a <b>Wallac RackBeta 12171121</b> liquid scintillation counter | No source to exceed<br>0.01 millicuries<br><br>0.02 millicuries total |
| 2.2 | Radium 226   | Sealed source consisting of a cylindrical steel rod 23 cm (L) x 1 cm (D)  | No source to exceed<br>0.01 millicuries<br><br>0.02 millicuries total |

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February 2009GWU Broad Scope AmendmentLicense No. 08-00216-22

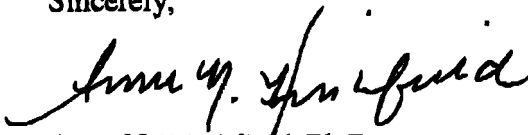
The sources in item 2.2 above are in good condition and are **strong** welded construction (double stainless steel encapsulation) and able to sustain use as an **instrument check** source. The sources are gamma sources with most beta emissions and all alpha **emissions** stopped in the steel encapsulation. **Leak** tests of these sources have been performed using both a standard leak test method **and** a 24-h radon emanation test **with** less than **0.001 uCi (alpha)** detected.

The above listed sources (Items **2.1** and **2.2**) **are** to be used as **instrument** check sources.

3. Please change the Maximum Amount stated in 8.D of our current license for **Item 6** D, Barium-133 from **0.99 millicuries** to **0.099** millicuries to **match** the activity of the source we have in our possession.

If you need any additional information or clarification please **contact** Daniel **Hibbing**, Sr. Radiation Safety Technician or **Gregory** D. Smith GWU Radiation Safety Officer, CHP at **202-994-2630**.

Sincerely,



Anne N. Hirshfield, Ph.D

Associate Vice President for Health Research,  
Compliance & Technology **Transfer**  
University Management Representative

Enclosure(s)