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**ENVIRONMENTAL HEALTH
AND SAFETY**
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Moscow ID 83844-2030

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November 8, 2021

Lizette Roldan-Otero, Ph.D.
Health Physicist
U.S. Nuclear Regulatory Commission, Region IV
1600 East Lamar Boulevard
Arlington, Texas 76011-4511

RE: Request to Amend License 11-27382-01, Docket 030-32323

Dear Dr. Roldan-Otero,

The University of Idaho would like to amend its radioactive materials license to include 2 sealed cobalt -57 gamma radiation sources for use in nuclear gamma resonance (NGR, or Mossbauer) spectroscopy.

Mossbauer spectroscopy is widely used in research applications to investigate the chemical environments of target nuclei in solid samples. Please notice that currently we are authorized to have cobalt-57 activity of 100 millicuries as one sealed source. We request to change the number of sources to two sealed sources with no change to the activity limit of 100 millicuries. The requested change is to accommodate the short half-life of Cobalt-57, 271.8 days.

This change would require the following change to the existing license:

- 1- NRC Materials License Amendment 20, page 3 of 9, item # V, section 6, 7, 8 and 9: Material, Form, Amount, and Authorized Use (Also, September 16, 2011 Application page 3 of 38, items 5.1.a-c)
 - Please change to "Cobalt-57, sealed sources, 2 sources with 100 millicuries total, For research and development as defined in 10 CFR 30.4, for use in nuclear gamma resonance spectroscopy."

If you have any questions, please do not hesitate to contact me at samir@uidaho.edu or 208-885-6524

Sincerely,

A handwritten signature in blue ink, appearing to read 'Samir Shahat'.

Samir Shahat, Ph.D.
Director and RSO

University of Idaho

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