

Addendum to Mail Control No. 136335
Application for license renewal at Rider University
29-23401-01/03021026

MS-16
p-7

Please see below for responses to the following questions sent via email dated Feb 1, 2005:

1. Please provide records which indicate the disposition of all Ni-63 sealed sources. We will need these records before removing this item from the license.

Response: This piece of equipment (a scintillation counter) was given to a Rider Professor, Dr. Richard Beech in the Department of Chemistry many years ago. Dr. Beech is now retired. I have recently confirmed that the scintillation counter was received by Dr. Beech WITHOUT having the Ni-63 detector cell in it. This item had been removed by the prior owner of the machine before it was given to Dr. Beech. This fact was confirmed in 8/2001 when the equipment was properly disposed of by a waste management company who found no evidence for the presence of the detector cell. I have only been RSO at Rider University for the last two years and neither of my direct predecessors, Dr. Julie Drawbridge nor Dr. Jonathan Karp, can recall why we ever were in possession of a license for Ni-63. Please see the additional attachment containing a memo related to this item dated 8/01. Since we do not, nor have we ever had, a piece of equipment containing a Ni-63 source, please remove the Ni-63 item from our license.

2. Under Item 10 of your application you have indicated you will do monthly wipe tests and keep the records for 2 years. 10 CFR 20.2103 indicates survey records must be kept for 3 years. Additionally you have not either described your method of calibration of your scintillation counter or confirmed that you will implement the model calibration program published in Appendix M to NUREG-1556, Vol. 7. Please confirm that you will maintain survey records for 3 years and provide the additional information on calibrations.

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Response: We will maintain wipe tests records for a period of THREE years as described in 10 CFR 20.2103. In addition, we already implement the model calibration program published in Appendix M to NUREG- 1556, Vol. 7.

3. You have also indicated you will perform monthly surveys as established by the NRC. Please confirm that you are referring to NRC's NUREG-1556, Vol. 7 , Appendix Q.

Response: We perform monthly surveys as established by the NRC in NUREG-1556, Vol. 7, Appendix Q.

3. You have included an attachment to your application titled "Yearly training in Radioisotopic use at Rider University". Please clarify if these are the procedures you are committing to NRC that you will follow.

Response: The attachment to the application entitled "Yearly training in Radioisotopic use at Rider University" is a detailed listing of the procedures that all authorized laboratory personnel follow when using radioactivity.

Please feel free to contact me via phone or email with any additional information you may require as part of our renewal application.

Regards,
Kelly Bidle, Ph.D.



Phone: 609-895-5418
Email: kbidle@rider.edu

Scintillation Counter Disposal 8/14/01

Note to File

Art Green of Radiac Research Corporation arrived on site with an associate to remove the radioactive source from our scintillation counter located in the Loft of the Science building. When they opened the equipment, the tubes that should have held the radioactive source had been disturbed, and they were unable to find the source inside the equipment. (The source is normally the size of a BB.) They checked the entire area with a Geiger counter, but were unable to locate the source.

I asked Dean Alexander where the machine had been stored prior to the Loft area. He said he didn't know. Frank Mackiewicz (on vacation this week) and Dr. Sheats would be the only people he could think of that may be able to answer this. Dean Alexander had seen Dr. Sheats earlier, so he knew he was in to work today.

Dr. Sheats was located, and he said that the equipment had been in Dr. Bruce Burnham's lab (also on the third floor of the Science Building) prior to being in the Loft. The equipment had been moved into the Loft approximately 3 years ago. Art Green used a Geiger counter in the lab, and the radioactive source was not located there either.

Dr. Sheats said that Dr. Beech might know what happened to the radioactive source. Dr. Beech was teaching a class on the first floor. Dr. Sheats spoke with him there, and returned to the third floor. Dr. Beech told Dr. Sheats that our radioactive waste disposal vendor removed the source approximately 4 years ago. Therefore, the source had already been removed.

Someone should have taken a marker and written on the outside of the equipment (and the date) that the radioactive source was removed! This would have saved us a great deal of effort and expense.

Art Green took the lead that had been used as shielding to be recycled. I signed a shipping order, a copy of which is included in this file.

After they left, I called Diane in Facilities, and told her that the equipment could now be discarded, because its presence interfered with the current Loft renovation project.

I left a voicemail message for Frank Mackiewicz, advising him of the above, and asking him to look through his records to see if he has a 'manifest' for the radioactive source disposal.

Darryl D. Blusnavage, Manager of
Environmental Health and Safety

Att.

c: J. Castagnera, w/att.
J. Drawbridge, RSO, w/att.
F. Mackiewicz, w/att.