

July 8, 2005

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*United States Nuclear Regulatory Commission*  
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**Subject: Response to June 13, 2005— Letter for Mail Control No. 137144**

Dear Ms. Ullrich,

This is in reference to your letter dated June 13, 2005 requesting additional information concerning additional information for the request for Ms. Essala Lowe as the interim Radiation Safety Officer at ATCC. The responses to your questions are listed below:

1. I have received formal training in the principles and practices of radiation protection at the Rockefeller University (New York, NY) in 2000. This training included the biological effects of radiation (which was essential to her position as Biological Safety Officer and cross training and secondary coverage for the radiation safety program), radioactivity measurements standardization and monitoring techniques and instruments (essential to proper receiving of isotope packages for use and contamination testing of work areas using radio isotopes—wipe testing and survey monitoring). I am proficient in the use of survey meters (Ludlum, Eberline) for monitoring of isotopes and radioactive waste. I have also taken coursework in Principles of Industrial Hygiene and Environmental Health and Safety at University of Maryland University College (Aldephi, MD), which included principles of radiation safety (non-ionizing/ionizing), dosimetry, and the mathematical calculations of radioactivity.
2. I have worked with the following isotopes and waste products (both liquid/solid wastes associated with their use):

$^{33}\text{P}$                        $^{32}\text{P}$                        $^{35}\text{S}$   
 $^{137}\text{Cs}$  (sealed source for irradiation of cells)  
 $^{51}\text{Cr}$                        $^{125}\text{I}$                        $^3\text{H}$                        $^{14}\text{C}$

Quantities vary from 250 micro curies to 1-3 milli curies (radiolabeling other than  $^{137}\text{Cs}$ )

My experience comes not only from safety management of biological safety programs and assistance in the radiation safety program for researchers, but

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also in reviewing and approving protocols (both in vitro and in vivo) that involved radioactive materials has been over the past 5 years. During that time, I have also assisted in waste management of mixed waste (biological and radioactive) for the program as well as being designated as backup support to the radiation safety staff for emergency response and waste processing.

If you have any further questions concerning my background and training with radioisotopes and/or its waste products or user safety. Please feel free to contact me as soon as possible.

Sincerely,



Essala D. Lowe

American Type Culture Collection (ATCC)  
Corporate & Biological Safety Officer