

From: [Lawyer, Dennis](#)
To: [Ramsey, Amy J CIV USARMY RDECOM \(US\)](#)
Subject: Department of the Army, Request for Additional Information Concerning Application for a License Amendment, Control 609507, Docket 03004552, Lic. No. 19-10306-01
Date: Tuesday, August 14, 2018 11:57:00 AM

Dear Ms. Ramsey,

This is in reference to your letter dated July 27, 2018, requesting for amendment to Nuclear Regulatory Commission License No. 19-10306-01, Docket No. 03004552. In the cover letter that we had sent on July 11, 2018, it requested additional information which was not included in the June 20, 2018, letter. After reviewing the locations, it appears that enough information has been provided for all rooms except room 203 and 207. In order to continue our review, we need the following additional information:

1. For both rooms, it appears that only the floor was scanned in the resurvey and only static readings were taken on the floor. It does not appear that scans and static readings would be a part of the resurvey of these two rooms. Please confirm if walls were included or state why they were not included.
2. Please provide the minimum detectable activity for rooms 203 and 207 for beta-gamma scans and static survey for the isotopes involved in the rooms. As a part of this calculation, please present how you determined the efficiency of the detectors.
3. In the Alpha only section, you provided information about the alpha scans and static measurements. Please review the methodology in the Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM) method for alpha scans measurements in section 6.7.2.2. Please present scan data as shown in this section compared to the Derived Concentration Guideline Level (DCGLw). Please present the minimum detectable activity of the alpha static readings. It appears that the DCGLw that was determined for the activity of Th-232 along with all of its progeny. Since Th-232 and its progeny decay by different methods, surveying with an alpha meter would only measure the alpha form of the progeny. Thus the meter reading needs to account to how it compares to a portion of the DCGLw.
4. Please confirm that in the "Alpha Only" section, the Ludlum 44-90 was a typo and a 43-90 detector was used.

We will continue our review upon receipt of this information. Please reply to my attention at the Region 1 Office (Address below) and refer to Mail Control No. 609507. If you have technical questions regarding this letter, please call me at (610) 337-5366.

Your reply must be an originally signed and dated letter. The letter may be scanned and submitted as a pdf document attached to an email; or it may be transmitted by facsimile to (610) 337-5269; or it may be sent by regular mail. If we do not receive a reply from you within 30 calendar days from the date of this e-mail, we will assume that you do not wish to pursue your application OR amendment request.

Region 1 Office Mailing Address: Licensing Assistance Team, US Nuclear Regulatory Commission Region I, 2100 Renaissance Boulevard, Suite 100, King of Prussia, PA 19406-2713.

Dennis Lawyer
U.S. NRC Region 1
Health Physicist
610-337-5366