

**From:** Lawyer, Dennis  
**Sent:** Tuesday, June 15, 2010 11:57 AM  
**To:** 'markland@arl.army.mil'  
**Subject:** The Department of the Army, Request for Additional Information Concerning Application for a License Amendment, Control 144649

Dear Richard A. Markland,

This is in reference to your letter dated March 31, 2010 requesting for amendment to Nuclear Regulatory Commission License No. SMB-141. In order to continue our review, we need the following additional information:

1. Survey Unit 25 does not appear to meet the criteria based on the information submitted. Please refer to Appendix B2 Static Results page 21 of 26. In the Tech initial is the measured portion for each spot above the criteria and the average. When added together it is 1.06 which is greater than the 1.0 criteria. Please explain in detail why this area is releasable or perform more decontamination and perform a follow up survey.
2. Not enough detailed information is provided to determine the methodology of determining how instrument alpha efficiency was determined for the instrumentation used in the field. Please provide the size of alpha source used, the NIST certified value for the source, and the calculation to determine alpha efficiency.
3. It appears from your alpha surveys that you are using a surface efficiency of 0.5 for alpha contamination. Per ISO-7503 recommendations, the alpha surface efficiency should be 0.25. The 0.25 surface efficiency for alpha is in agreement with NUREG01507, Minimum Detectable Concentrations with typical Radiation Survey Instruments for Various Contaminants and Field Conditions. Please specify the surface efficiency value used and its basis or adjust all of your alpha measurements and reevaluate the survey units.
4. The removable surface activity survey did not appear to account for a alpha self-absorption factor for counting the wipes. Please justify the self-absorption factor of 1.0 or adjust the results of the wipe tests and evaluate.
5. Appendix E does not appear to have the certificates of calibration for the instruments used in Appendix B. Please provide these certificates.

We will continue our review upon receipt of this information. Please reply to my attention at the Region 1 Office and refer to Mail Control No. 144649. If you have technical questions regarding this letter, please call me at (610) 337-5366.

*Please note that you may not reply to this letter by return e-mail. Your reply must be in writing by letter or facsimile (610-337-5269). 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.*

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Subject: The Department of the Army, Request for Additional Information Concerning  
Application for a License Amendment, Control 144649

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From: Lawyer, Dennis

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Recipients:

markland@arl.army.mil ('markland@arl.army.mil')

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