



Region I Office  
 Division of Nuclear Materials Safety  
 2100 Renaissance Boulevard, Suite 100  
 King of Prussia, PA 19406-2713  
 (610)337-5000

**Telephone Conversation Record**

Date: 4/16/2019  
 License No. 19-10306-01  
 Docket No.(no hyphens): 03004552  
 Mail Control/Report No. 611433  
 Licensee Name: Dept. of the Army  
 Participant(s) Name/Title: Paul Madairy, Consultant  
 Work Telephone No. 410-456-2666  
 Business Cellphone No. Unkown  
 NRC Representative Name/Title: Dennis Lawyer, Health Physicist

**Subject:** RAI, April 12, 2019 response letter

**Discussion:** I discussed with Mr. Madairy about the response as Ms. Ramsey, the RSO had asked me to give him a call. First, the alpha efficiency needed to be determined by a NIST traceable source. Mr. Madairy said he could use an Am-241 source to determine efficiency. I stated in Table 1 and 2 would need to be redone as the 2 pi efficiency shouldn't take into account the decay daughters of Thorium as the limit was based on the number of alphas. He would then use this efficiency and change the scan speed to meet the 0.9 probability of detection.

On the Class 2 rooms with walls, he would set up a specific survey unit for the 4 rooms with walls and survey them by systematic direct measurements and have 20% scans. They would use Co-60 as the most restrictive isotope.

**Action Required:** Perform remaining surveys, resubmit Table 1 and 2.

<b>SUNSI REVIEW</b>													
<b>Document Availability:</b>	<input checked="" type="checkbox"/> Public or <input type="checkbox"/> Non-Public												
<b>Document Sensitivity:</b> (select "1" value to the right)	<table border="0"> <tr> <td><input checked="" type="checkbox"/> Non-Sensitive</td> <td><input type="checkbox"/> MD 3.4 Non-Public B.1 (Non-Sensitive)</td> </tr> <tr> <td><input type="checkbox"/> Non-Sensitive Copyright</td> <td><input type="checkbox"/> MD 3.4 Non-Public A.3 (Sensitive Security Related)</td> </tr> <tr> <td><input type="checkbox"/> Sensitive – Proprietary</td> <td><input type="checkbox"/> MD 3.4 Non-Public A.4 (Sensitive Proprietary)</td> </tr> <tr> <td><input type="checkbox"/> Sensitive – Privacy Act (includes Personally Identifiable Information (PII))</td> <td><input type="checkbox"/> MD 3.4 Non-Public A.5 (Sensitive-Privacy Act)</td> </tr> <tr> <td><input type="checkbox"/> Sensitive – Internal, Periodic Review required (All Other Sensitive Internal Info.)</td> <td><input type="checkbox"/> MD 3.4 Non-Public A.6 (Sensitive-Federal, State, etc)</td> </tr> <tr> <td><input type="checkbox"/> Sensitive – Security-Related-Periodic Review Required</td> <td><input type="checkbox"/> MD 3.4 Non-Public A.7 ( Internal)</td> </tr> </table>	<input checked="" type="checkbox"/> Non-Sensitive	<input type="checkbox"/> MD 3.4 Non-Public B.1 (Non-Sensitive)	<input type="checkbox"/> Non-Sensitive Copyright	<input type="checkbox"/> MD 3.4 Non-Public A.3 (Sensitive Security Related)	<input type="checkbox"/> Sensitive – Proprietary	<input type="checkbox"/> MD 3.4 Non-Public A.4 (Sensitive Proprietary)	<input type="checkbox"/> Sensitive – Privacy Act (includes Personally Identifiable Information (PII))	<input type="checkbox"/> MD 3.4 Non-Public A.5 (Sensitive-Privacy Act)	<input type="checkbox"/> Sensitive – Internal, Periodic Review required (All Other Sensitive Internal Info.)	<input type="checkbox"/> MD 3.4 Non-Public A.6 (Sensitive-Federal, State, etc)	<input type="checkbox"/> Sensitive – Security-Related-Periodic Review Required	<input type="checkbox"/> MD 3.4 Non-Public A.7 ( Internal)
<input checked="" type="checkbox"/> Non-Sensitive	<input type="checkbox"/> MD 3.4 Non-Public B.1 (Non-Sensitive)												
<input type="checkbox"/> Non-Sensitive Copyright	<input type="checkbox"/> MD 3.4 Non-Public A.3 (Sensitive Security Related)												
<input type="checkbox"/> Sensitive – Proprietary	<input type="checkbox"/> MD 3.4 Non-Public A.4 (Sensitive Proprietary)												
<input type="checkbox"/> Sensitive – Privacy Act (includes Personally Identifiable Information (PII))	<input type="checkbox"/> MD 3.4 Non-Public A.5 (Sensitive-Privacy Act)												
<input type="checkbox"/> Sensitive – Internal, Periodic Review required (All Other Sensitive Internal Info.)	<input type="checkbox"/> MD 3.4 Non-Public A.6 (Sensitive-Federal, State, etc)												
<input type="checkbox"/> Sensitive – Security-Related-Periodic Review Required	<input type="checkbox"/> MD 3.4 Non-Public A.7 ( Internal)												
SUNSI Review Completed by: Dennis Lawyer													

*Rec'd. in WAT-04/16/2019*

**NMSS/RGNI MATERIALS-001**