

Lawyer, Dennis

From: Lawyer, Dennis
Sent: Tuesday, April 12, 2016 6:28 AM
To: 'Nstinson@cdc.gov'
Subject: U.S. Department of Health & Human Services, Request for Additional Information Concerning Application for a License Amendment, Control 588982

Mr. Stinson,

This is in reference to your letter dated September 24, 2015, requesting for amendment to Nuclear Regulatory Commission License No. 10-06772-01, Docket No. 03004001. We also have reviewed your response dated April 8, 2016. In order to continue our review, we need the following additional information:

1. Item 2 in your April 8, 2016 letter, in response to item 2 of my electronic mail dated January 13, 2016, discussed the calculation for alpha scans. The question stated to confirm that you will only do alpha scans with the 821cm² probe. Please confirm that you will only do alpha scans with the 821 cm² probe or present the calculation and parameters for using a smaller probe.
2. In your response to item 2, you gave the parameters of the alpha scan. The 4 pi detector efficiency given in the response is 20%. However, this does not appear to have taken into account the 0.25 surface efficiency for alpha recommended by MARRSIM. Total efficiency of the 821 cm² detector was expressed in your table 8-1 as typical total efficiency of 10% which took into account the 0.25 surface efficiency. Please review this information and determine the scan rates that will be used to obtain the 95% probability for $P(n \geq 2)$. Please present the calculation.
3. In your response to item 3, please provide an updated Table 8-2.
4. In the response to item 4, it appears the surface efficiency should be 50%. With the correction of my error in instrument efficiency and using surface efficiency of 50%, I confirm the MDC rate is correct as published in Table 8-2. No response is needed for this item.

Please reply to my attention at the Region 1 Office (Address below) and refer to Mail Control No. 588982. 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, facsimile (610-337-5269), or signed letter attached to an email. 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.

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.

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