

15 December 2021

Juan Ayala
United States Nuclear Regulatory Commission
2100 Renaissance Boulevard
Suite 100
King of Prussia, PA 19406-2713

Mr. Ayala,

This letter is to address the deficiency found during your visit from 1 December – 2 December 2021. To summarize, there was a cabinet used to store materials for decay. There were a few instances where the exposure exceeded the regulatory rate for an unposted area. One tenth value layer of shielding is necessary to reduce the exposure from the highest rate recorded to the regulatory limit. Using conservative values, we calculated there would need to be 0.5" of lead to provide a tenth value layer of shielding. We are looking at two possible permanent solutions. They are:

1. There are commercially available cabinets lined with lead. Due to the width of the doorway leading to the decay area, the size of the cabinet will be limited. There is a six month lead time to obtain a commercial cabinet.
2. We are also exploring the possibility of having in-house projects build a cabinet lined with lead sheets. Care will be taken to ensure all corners are well overlapped. Care will also be taken to ensure there is not gap in the shielding at junction of the doors.

In the short term, if the exposure rate approaches the regulatory limit, some of the materials held for decay will be move to an available shielded container. If the amount of material cannot be mitigated, the area will be posted.

Please feel free to contact me at any time.

Regards,



Brian S. Kurko, MS, DABR, CMD
Radiation Safety Office
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