

**From:** Stephen Cohen  
**To:** Oscar Paulson  
**Date:** 07/10/2006 10:26:41 AM  
**Subject:** Radium Standard for Deep Excavation

Oscar:

Here's the answer to your radium standard question. First, Appendix A, Criterion 6, states that the 15 pCi/g standard applies to each 15-cm LAYER below 15 cm from the surface. Therefore, this radium standard would apply to a depth of 40 feet. Second, NUREG-1620, Rev. 1, specifies that if *in-situ* ore is in the cleanup area, it should be characterized by Ra-226/U-238 ratios, visual criteria, and/or other means. Therefore, if you truly believe that an elevated radium concentration is related to ore instead of 11e.(2) byproduct material, you should use the aforementioned methods to document it, as such.

Please let me know if you have any questions.

**CC:** Betty Garrett; Bill VonTill; Robert Lukes

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**From:** Stephen Cohen

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