



DEPARTMENT OF ENERGY
 CHICAGO OPERATIONS OFFICE
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OFFICE OF SECRETARY
 DOCKETING & SERVICE
 BRANCH *emp*

Secretary of the Commission
 U. S. Nuclear Regulatory Commission
 Washington, D. C. 20555

DOCKET NUMBER
 PROPOSED RULE **PR** - Misc. Notice
 (Req Guide)

Attention: Docketing and Service Branch

Dear Sir/Madam:

The following comments are submitted related to the proposed revision to Regulatory Guide 5.34.

1. p. 2, last paragraph - Suggest changes to read "NDA % scrap consisting of dense materials using gamma-ray spectrometry can be unreliable". It is not gamma-ray spectrometry which is unreliable, but rather its application for assay purposes to scrap containing dense materials.
2. Footnote, p. 4 - It should not be necessary, nor is it felt to be appropriate, to provide two sets of coefficients for the equation used to compute "effective 240". It is stated that an uncertainty of approximately $\pm 5\%$ exists. As an alternative, use the equation in the footnote on page 10.
3. p. 9, next-to-last paragraph - First sentence should read: "Calibration standards with standard reference material of the National". Nuclear SRMs are no longer stored at NBS but at NBL.
4. p. 10, Table 2 - To be complete, the approximate abundance of Pu-238 should be included on Table 2. The indicated values for Pu-240eff are not obtained using Table 2 abundances and the foot-noted equation.
5. Appendix, p. 15 - The variance is defined as σ^2 . Equation (5) should be rewritten as:

$$\sigma_{Pu}^2 = \left[[\dots] \dots [\dots] \dots [\dots] \right] \times M (\text{total Pu})^2$$

The next equation should read: $\sigma_{Pu}^2 = M (\text{total Pu})^2 [\dots]$.

Thank you for the opportunity to comment.

Sincerely,

Carleton D. Bingham
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 Director

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Acknowledged by card. 8/31/82 *emp*