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# Calibration of Electret-Based Integral Radon Monitors Using NIST Polyethylene-Encapsulated <sup>226</sup>Ra/<sup>222</sup>Rn Emanation (PERE) Standards

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The recently developed "Rn emanation standards that are based on polyethyleneencapsulated 228 Ra solutions were employed for a first field-measurement application test to demonstrate their efficacy in calibeating passive integral radon monitors. The performance of the capsules was evaluated with respect to the calibration needs of electret ionization chambers (E-PERM\*. Rad Elec Inc.). The encapsulated standands eminute well-characterized and known quantities of 221Rn, and were used in two different-sized, relatively-small, accumulation vessels (about 3.6 L and 10 L) which also contained the deployed electret monitors under test. Calculated integral "Rn activities from the capsules over various accumulation times were compared to the averaged electret responses. Evaluations were made with four encapsulated standards ranging in 128Ra activity from approximately 15 Bq to 540 Bq (with 10 Rn emanation fractions of 0.888); over accumulation times from 1 d to 33 d; and with four different types of E-PERM detection that were independently calibrated. The ratio of the electret chamber response Em to the integral 100Rn activity In, was constant (within statistical variations) over the variables of the specific capsule used, the accumulation volume, accumulation time, and detector type. The results clearly demonstrated the practicality and suitability of the encapsulated standards for providing a simple and readilyavailable calibration for those measurement applications. However, the mean ratio  $E_{to}/I_{to}$  was approximately 0.91, suggesting a possible systematic bias in the extant E-PERM cultibrations. This 9 % systematic difference was verified by an independent test of the E-PERM calibration. based on measurements with the NIST radon-in-water standard generator.

Key words: calibration; electres; emanation; environment; E-PERM\*; ionization chamber; measurement; radium-226; radon-222; standards.

Accepted: September 6, 1995

#### 1. Introduction

The National Institute of Standards and Technology (NIST) has over the past 3 to 4 years worked on the development of a new emanation standard for <sup>225</sup>Rn measurement calibrations as described by Collé et al. [1]. This new standard is based on a polyethylene-encapsulated <sup>256</sup>Ra solution that has been demonstrated to emanate a well-characterized and known quantity of <sup>215</sup>Rn when employed in an "accumulation mode." The encapsulated standard was intended to serve as a more

convenient, easier-to-use, alternative to the conventionally employed <sup>238</sup>Ra solution standards that have been disseminated by NIST for <sup>232</sup>Rn emanation measurements for the past 40 or more years [2-4]. The latter standards were, of course, only certified for the <sup>236</sup>Ra mass content or at later times (circa mid-1980s) the <sup>236</sup>Ra radioactivity content. The new encapsulated standards that are certified in terms of two parameters, both the <sup>236</sup>Ra activity and the <sup>233</sup>Rn emanation fraction, have.

# **Radon Integral In Tuitionism**

Zhe Xu

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