UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

June 5, 2017

MEMORANDUM TO: James M. Trapp, Director
Division of Nuclear Materials Safety
Region I

John B. Giessner, Director
Division of Nuclear Materials Safety
Region III

Mark R. Shaffer, Director
Division of Nuclear Materials Safety
Region IV

FROM: John R. Tappert, Director
Division of Decommissioning, Uranium Recovery,
and Waste Programs ***/RA/***
Office of Nuclear Material Safety
and Safeguards

SUBJECT: DOSE ASSESSMENT TECHNICAL BASIS DOCUMENT FOR NRC INSPECTORS TO ASSIST NON-MILITARY RADIUM SITE VISIT AND SCOPING SURVEYS

I am enclosing for your information and use, a copy of the "Dose Assessment Technical Basis Document for Potential Exposures to Discrete Sources of Radium-226 and Associated Contamination," dated May 30, 2017. The enclosed document was developed in collaboration with U.S. Nuclear Regulatory Commission (NRC) Headquarters and Regional staff. The document describes the development of screening values to support the dose assessment that is described in Technical Instruction 2800/043, "Inspection of Facilities Potentially Contaminated with Discrete Radium-226 Sources."

The screening values described in the enclosed document provide confidence that exposures to discrete sources of radium [11e.(3) byproduct material] and associated contamination will not result in an annual dose that exceeds NRC's unrestricted release dose criterion, 25 mrem, specified in Title 10 of the *Code of Federal Regulations* Part 20, Standards for Protection Against Radiation, Section 20.1402. The screening values have been derived using generic conceptual models and parameter values that are consistent with the screening approach identified in NUREG-1757, Volume 1, NRC's "Consolidated Decommissioning Guidance," and

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other associated guidance. The enclosed document also describes conditions that NRC inspectors should verify during either initial site visits or follow-on scoping surveys to confirm that the generic conceptual models and parameter values are appropriate at a specific site.

If you have any questions regarding the enclosed document, please call me at (301) 415-7319.

Enclosure:
Dose Assessment Technical Basis Document

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