



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

August 16, 2018

MEMORANDUM TO: Raymond Powell, Chief  
Decommissioning, ISFSI and Reactor HP Branch  
Division of Nuclear Materials Safety, Region I

Michael Kunowski, Chief  
Materials Control, ISFSI, and Decommissioning Branch  
Division of Nuclear Materials Safety, Region III

Janine Katanic, Chief  
Fuel Cycle and Decommissioning Branch  
Division of Nuclear Materials Safety, Region IV

Doug Eskins, Chief  
Specialized Technical Training and Support Branch  
Division of Human Resources Training and Development  
Technical Training Center

FROM: Bruce Watson, Chief        */RA/*  
Reactor Decommissioning Branch  
Division of Decommissioning, Uranium Recovery,  
and Waste Programs  
Office Nuclear Material Safety and Safeguards

SUBJECT: REQUEST FOR REVIEW OF REVISIONS TO NUREG-1507,  
"MINIMUM DETECTABLE CONCENTRATIONS WITH TYPICAL  
RADIATION SURVEY INSTRUMENTS FOR VARIOUS  
CONTAMINANTS AND FIELD CONDITIONS DURING  
DECOMMISSIONING"

**Discussion**

The Office of Nuclear Material Safety and Safeguards (NMSS) requests review and comments on the enclosed revision to NUREG-1507, "Minimum Detectable Concentrations with Typical Radiation Survey Instruments for Various Contaminants and Field Conditions during Decommissioning." Upon resolution of any comments, the Nuclear Regulatory Commission (NRC) will publish NUREG-1507, Revision 1.

This revision seeks to address the usage of radiological survey technologies and methodologies that have come into practice since the original document was published in 1998. For example,

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additional survey instrumentation and data capture tools have become more commonly used by licensees, including global positioning system (GPS) and geographic information system (GIS) technologies. The NRC has also recognized lessons learned opportunities related to detection efficiency calculations, background interferences, signal degradation, and other topics associated with radiation survey instrumentation.

Please provide your comments by October 17, 2018, to John Clements at 301-415-5878 or via email to [john.clements@nrc.gov](mailto:john.clements@nrc.gov).

Enclosure: Draft NUREG-1507

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