

SPEAKER / PRESENTATION INFORMATION

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Biography	<p>Marissa G. Bailey is the Deputy Director for the Special Projects and Technical Support Directorate, Division of Fuel Cycle Safety and Safeguards, Office of Nuclear Material Safety and Safeguards (NMSS). Her responsibilities include safety and licensing reviews of major fuel cycle facilities, including the proposed mixed oxide fuel fabrication facility, and development of a regulatory framework for spent fuel reprocessing. She has been with the NRC since 1989 and has a B.S. in Nuclear Engineering from the University of Maryland.</p>		
Title	<i>Regulatory Perspective on the Nuclear Fuel Cycle and Needs for Criticality Safety Assessments</i>		
Abstract	<p>The U.S. Nuclear Regulatory Commission (NRC), Office of Nuclear Material Safety and Safeguards, is responsible for regulating various aspects of the civilian nuclear fuel cycle: fuel fabrication and development; transportation of nuclear materials, including fissile material; reactor spent fuel storage; and management and disposal of spent fuel and high-level radioactive waste. The Office is also responsible for regulation and licensing of recycling technologies intended to reduce the amount of waste to be disposed through geologic disposal and to reduce proliferation concerns. The NRC regulates these activities to ensure adequate protection of public health and safety and the environment, and one of its strategic outcomes is to prevent the occurrence of any inadvertent criticality events.</p> <p>To this end, the NRC staff conducts rigorous reviews of fuel cycle designs and operations proposed by licensees and applicants, including the methods for ensuring criticality safety. The NRC continually seeks to identify and resolve potential criticality safety issues, including those with generic implications and those arising from new technologies or methods. Additional research or data, as well as specific staff skills and training, may be needed to adequately address such issues.</p>		