

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

December 21, 2018

Rodrigo V. Rimando, Jr. Director of Technology Development U.S. Department of Energy Office of Environmental Management 1000 Independence Ave, SW Washington, DC 20585

Dear Mr. Rimando:

It is my sincere pleasure to invite you to participate as a speaker at U.S. Nuclear Regulatory Commission's (NRC) 31<sup>st</sup> Annual Regulatory Information Conference (RIC). The RIC will be held on March 12-14, 2019, at the Bethesda North Marriott Hotel and Conference Center, 5701 Marinelli Road, North Bethesda, Maryland 20852.

Sponsored by the Office of Nuclear Reactor Regulation and the Office of Nuclear Regulatory Research, the RIC brings together nearly 3,000 participants from over 30 countries representing interested stakeholders from other government agencies, industry, international organizations, and the general public. The RIC offers participants a forum that promotes open dialogue to learn valuable information about NRC actions planned or in progress related to the regulation of nuclear power plants, other nuclear facilities, and nuclear safety research. In addition, the RIC continues to offer an environment to interact with nuclear industry leaders and share ideas, perspectives, and experiences on matters related to nuclear safety and regulation.

We request your participation as a speaker during our technical session TH37, entitled, **"New and Innovative Technologies for Decommissioning and Remediation of Nuclear Facilities**." This session is on Thursday, March 14, 2019, from 10:30 a.m. to Noon.

Decommissioning of nuclear facilities is an expanding activity particularly in Europe, North America, Republic of Korea, and Japan. Numerous facilities are being decommissioned using innovative technologies that provide safe, efficient and cost-effective methods. The investment in decommissioning of power reactors worldwide is estimated at \$150 billion. The purpose of this session is to focus on the new and innovative technologies being applied or developed for dismantling, decontaminating and defueling, as well as waste minimization and spent fuel storage. This session will contribute to NRC staff and stakeholders' forward knowledge and insights of efficient, innovative, and cost-efficient approaches to decommissioning, and to NRC staff reviews of decommissioning plans. We would like to welcome your perspective and believe your presentation will help stimulate healthy dialogue and in-depth discussion on the session topic.

This session TH37 will focus on national and international approaches for decommissioning of nuclear facilities, involving new and innovative technologies for dismantling, decontaminating and defueling, as well as remediation of sites/facilities, to meet release criteria. The session will include presenters from industry, government, and international organizations who are developing and already implementing these efficient, safe, and cost-effective approaches to

decommissioning. These new approaches use advanced technologies such as: innovative remote and robotic technologies for dismantling and radiation safety; remote mobile monitoring systems for radiological surveys; new remediation technologies and advanced modeling and engineering systems for characterization; and "End-State" risk analysis in support of site closure decisions. Other aspects deal with strategies for waste and environmental media characterization, as well as minimization of waste, and enhancing safety during decommissioning and spent fuel management. The presentations and panel discussions will inform NRC licensing staff, industry and stakeholders of these new and innovative technologies, and their applications, as well as potential regulatory implications.

We would encourage your presentation to focus on one or more of the following key areas:

- Robotic and remote technologies for dismantling and characterization of high exposure areas or nuclear components;
- 3-Dimensional dynamic modeling of nuclear installation components or radioactive releases/spills;
- Illustration of how new technologies are applied to enhance safety (e.g., reducing exposure) for the protection of workers and the public;
- Illustration of how new technologies reduced costs for spent fuel handling, dismantling and overall decommissioning costs; and
- Any other examples of using innovative technologies for the survey and remediation of contaminated environmental media.

We would also ask that your presentation generally avoid commercial promotion, as this forum is intended for knowledge transfer.

We hope that you confirm your availability and accept this invitation. To confirm your participation, we request that you complete and sign the enclosed NRC Forms 1105 and 1106, and return them electronically to the Session Coordinator, Priya Yadav, at your earliest convenience, preferably by January 3, 2019.

In the event that you are not able to participate, please notify Ms. Yadav at your earliest opportunity. She can be reached at 301-415-6667 or <u>Priya.Yadav@nrc.gov</u>. Lastly, you can find RIC-related news and up-to-date conference information by navigating from the NRC's official public WEB site at <u>http://www.nrc.gov/</u>.

We greatly appreciate your consideration of this request, and we look forward to hearing back from you at your earliest convenience.

Sincerely,

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Boby Abu-Eid Senior Technical Advisor, Division of Decommissioning, Uranium Recovery and Waste Programs Office of Nuclear Material Safety and Safeguards

## /**RA**/

Thomas Nicholson, Senior Technical Advisor Division of Risk Analysis Office of Nuclear Regulatory Research

Enclosures:

- 1. NRC 1105, "RIC Confirmation Form"
- 2. NRC 1106, "RIC External Speaker Agreement Form"

SUBJECT: NUCLEAR REGULATORY COMMISSION'S THIRTY FIRST ANNUAL REGULATORY INFORMATION CONFERENCE DATE December 21, 2018

## ADAMS Accession No.: ML18355A742 \* via email

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DATE	12/21/18	12/21/18	12/21/18	12/21/18