



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

January 9, 2019

Gerard Bruno  
Head, Radioactive Waste and  
Spent Fuel Management Unit  
IAEA  
Vienna International Centre  
PO Box 100  
1400 Vienna, Austria

Dear Mr. Bruno:

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.

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. The session will also address national and international approaches and related issues using such technologies, particularly for the remediation of sites and facilities to meet release criteria. The new and innovative technologies may include: 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. The session will also address other aspects dealing 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 envision this session to contribute to NRC staff and stakeholders' knowledge and insights into efficient, innovative, and cost-efficient approaches to decommissioning, and to NRC staff reviews of decommissioning

plans. We welcome your perspective as we believe your presentation will help stimulate a healthy dialogue and in-depth discussion of the session topics.

Please incorporate the discussion of new and innovative technologies being developed and implemented by IAEA countries in your presentation. In particular, 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 14, 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 [Priya.Yadav@nrc.gov](mailto:Priya.Yadav@nrc.gov). Lastly, you can find RIC-related news and up-to-date conference information by navigating from the NRC's official public website at <http://www.nrc.gov/>.

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

cc: Maureen Conley/OIP  
Eric Freeman/OIP  
Brian Anderson/UNVIE

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 **January 9, 2019**

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**\* via email**

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DATE	1/9/19	1/9/19	1/9/19	1/9/19