



Recent Research and Application of Severe Accident Offsite Consequence Analysis

Session Chair: Patricia A. Santiago, Chief
RES/DSA/AAB

Session Coordinator: Sergio Gonzalez and Amy Sharp
RES/DSA/AAB

Rockville, MD
March 14, 2018



Overview

- The MELCOR Accident Consequence Code System (MACCS) is used to model the offsite consequences from hypothetical severe accidents at nuclear power plants.
- The NRC leverages the research of international organizations and other Federal agencies to continually improve the MACCS code and advance the state-of-the-art in severe accident consequence modeling.
- This session will provide an overview of selected recent applications of offsite consequence analyses and modeling and describe how insights from these applications are being used within the NRC's regulatory framework.



Presentations/Speakers

- Development Strategy and Status of KHNP SOARCA (State-of-the-Art Reactor Consequence Analysis) Project
 - Dr. Jang-Hwan Na, Director General, Central Research Institute, KHNP
- State-of-the-Art Reactor Consequence Analyses (SOARCA) Project: Results of Sequoyah Analyses
 - Dr. Tina Ghosh, Senior Reactor Systems Engineer, U.S. NRC
- The Next Twenty-Five: Insights from and Opportunities for Applications of MACCS2 in DOE Nuclear Safety Analysis
 - Dr. Kevin R. O'Kula, Consulting Engineer IV, AECOM N&E Technical Services, LLC
- There will be a 20 minute Question and Answer session following the final presentation



Welcome to the RIC

- For safety and security reasons, personal belongings such as tote bags, backpacks, etc. are not permitted to be placed around the perimeter of the session room.
- Be mindful of your exits. In the event of a hotel emergency (such as fire, evacuation, etc.), the hotel staff will advise how to proceed. In the event of a safety/security emergency, NRC Security or Montgomery County Police will advise how to proceed. In the event of a medical health emergency, call 911 or contact an NRC or hotel staff member to contact emergency services for you.
- Kindly silence your electronic devices while the session is in progress.
- If you need to leave the room during the session, please leave quietly. At the end of the session, please exit the session room promptly so that the room can be prepared for the next session.
- All sessions are being recorded. Recordings will be available on the RIC website after the conference.
