



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

February 13, 2019

Dear Colleagues:

**SUBJECT: 2019 COOPERATIVE SEVERE ACCIDENT RESEARCH PROGRAM (CSARP), MELCOR CODE ASSESSMENT PROGRAM TECHNICAL REVIEW MEETINGS (MCAP), MELCOR USER WORKSHOP, INTERNATIONAL MACCS USER GROUP (IMUG) MEETING, AND MACCS USER WORKSHOP**

The next Cooperative Severe Accident Research Program (CSARP) technical review meeting, MELCOR Code Assessment Program (MCAP) meeting, and MELCOR User Workshop will be held in June 2019 at the Albuquerque Marriott Uptown in Albuquerque, New Mexico. The International MACCS User Group (IMUG) meeting and MACCS User Workshop will be held in June 2019 at the US NRC Headquarters in Rockville, Maryland. Participants that wish to attend meetings in both localities should plan their travel accordingly. The dates for the five meetings are as follows:

- CSARP Technical Review Meeting: June 3-5, 2019
- MCAP Meeting: June 5-6, 2019
- MELCOR User Workshop: June 6, 2019 Afternoon
- IMUG Meeting: June 10-11, 2019
- MACCS User Workshop: June 12-14, 2019

A preliminary program plan for the CSARP and MCAP meetings is enclosed. We are sending this preliminary announcement and the program plan to you as the principal CSARP representative of your country, and ask you to send us titles and authorship information for technical presentations that your organization as well as other organizations in your country, plan to make at any of these meetings. A response from you on or before April 30, 2019, will be appreciated. This will help us develop a preliminary agenda for the meetings in a timely manner.

A preliminary program plan for the IMUG meeting and the MACCS User Workshop is also enclosed. IMUG is a forum for the exchange of information and research experience among users of the MACCS code. We are asking you to send us titles and authorship information for technical presentations that your organization as well as other organizations in your country, plan to make at the IMUG meeting. A response from you on or before April 30, 2019, will be appreciated. This will help us develop a preliminary agenda for the meetings in a timely manner. Topics for presentation are expected to cover the full spectrum of nuclear accident consequence analysis (atmospheric transport, protective actions, health effects, societal and economic consequences, etc.). Topics are not limited to just the MACCS code; presentations are welcome for work using other nuclear accident consequence codes and topics. A preliminary agenda for the MACCS User Workshop is also attached. All workshop attendees should bring their own laptop and have installed MACCS Version 3.11.2. If needed, request MACCS via email to [MACCScodes@nrc.gov](mailto:MACCScodes@nrc.gov) at least two months in advance.

For up-to-date information and **to register for the meetings**, please go to <https://energyworkshops.sandia.gov/nuclear/2019-melcor-csarp-mcap-imug-maccs-meetings/> More information on the IMUG meeting and MACCS User Workshop will also be available at <https://maccs.sandia.gov/events.aspx> as the meetings approach.

**NOTE:** You may need to use a different browser such as Firefox if you have trouble loading the page with your version of Internet Explorer. At the conferences, we will make the presentations available for download. In order for us to be able to do that, we ask that you send electronic copies of your presentation materials (viewgraphs) in portable document file (pdf) format to Sandia National Laboratories (attention: Ms. Vianeidy Hielo at [vyhielo@sandia.gov](mailto:vyhielo@sandia.gov), tel. 1-505-844-7998) by **no later than May 14, 2019**.

### **HOTEL RESERVATIONS FOR CSARP TECHNICAL REVIEW MEETING, MCAP, AND MELCOR USER WORKSHOP**

A block of rooms at a special conference and per diem rate (\$89/night plus applicable taxes) has been set aside at the Albuquerque Marriott Uptown, 2101 Louisiana Blvd. NE, Albuquerque, NM 87110. The cutoff date for room reservation at this cost is May 17, 2019. Reservations can be made directly with reservations at 1-505-881-6800 (hotel directly), 1-800-266-9432 (toll free) using a credit card. Guests should identify themselves as part of the CSARP Meeting 2019 Room Block. There is no cancellation penalty if the reservation is canceled before 6:00 p.m. on the first night of stay. Otherwise, there will be a penalty of one night's room rate plus applicable tax. The special room rate is valid from Saturday, June 1, 2019 through Saturday, June 8, 2019.

The website for the hotel is: <https://www.marriott.com/hotels/travel/abqnm-albuquerque-marriott>  
To make reservations online please go to [https://www.marriott.com/meeting-event-hotels/group-corporate-travel/groupCorp.mi?resLinkData=CSARP%20Conference%5Eabqnm%60csacsa%6094.00%60USD%60false%604%606/1/19%606/8/19%605/17/19&app=resvlink&stop\\_mobi=yes](https://www.marriott.com/meeting-event-hotels/group-corporate-travel/groupCorp.mi?resLinkData=CSARP%20Conference%5Eabqnm%60csacsa%6094.00%60USD%60false%604%606/1/19%606/8/19%605/17/19&app=resvlink&stop_mobi=yes)

Other area hotels where reservation can be made directly by the guests are listed below. These hotels offer U.S. government rates but not special conference rates.

- Sheraton Albuquerque Uptown – 505-881-0000
- Hilton Garden Inn Uptown – 505-944-0300

### **CONFERENCE LOCATION AND HOTEL RESERVATIONS FOR IMUG MEETING AND MACCS USER WORKSHOP**

The conference location for the IMUG Meeting and the MACCS User Workshop is the “Three White Flint North” building at the US NRC Headquarters. The address is 11601 Landsdown Street, North Bethesda, MD 20852. The following hotels are in the vicinity of NRC Headquarters and are either within walking distance or accessible via the Metro system:

- Bethesda North Marriott Hotel & Conference Center – 301-822-9200
- Canopy by Hilton Bethesda North – 888-673-2059
- EVEN Hotel Rockville – 888-724-6413
- Hilton Washington DC/Rockville Hotel – 301-468-1100

As in previous years, we plan to organize a group dinner one evening during the CSARP meeting and another group dinner during the IMUG meeting on Monday, June 10, 2019. Information about the group dinners and other social events in the area will be available at the registration desks. Also, note that Sandia will be providing administrative and coordination support for the CSARP, MCAP, and IMUG meetings, and the MELCOR, and MACCS workshops. Ms. Sonya Mahler has moved on to a new job role and will be assisting in a minimal role but the main contact for assistance in related matters is Ms. Vianeidy Hielo.

We look forward to seeing you at the meetings.

Sincerely,



Richard Lee, Chief  
Fuel & Source Term Code Development Branch  
Division of Systems Analysis  
Office of Nuclear Regulatory Research



Jonathan Barr, Acting Chief  
Accident Analysis Branch  
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cc w/enclosures:

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**Cooperative Severe Accident Research Program (CSARP)  
Technical Review Meeting  
MELCOR Code Assessment Program (MCAP) Meeting  
MELCOR Workshop Special Topics  
June 3-6, 2019  
Preliminary Program Plan**

Monday, June 3

CSARP Registration  
Introduction/Opening Remarks

Overview Session  
Technical Session 1 – Severe Accident Research Programs  
Technical Session 2 – Severe Accident Research Activities

Tuesday, June 4

Technical Session 3 – Severe Accident Research: Codes & Experiments  
Technical Session 4 – Reactor and Spent Fuel Pool Analysis

Wednesday, June 5 (AM)

Technical Session 5 – Special Topics (e.g., ATF & non-LWR Applications)  
Partners' Meeting  
CSARP Meeting Adjournment

Wednesday, June 5 (PM)

MCAP Registration  
Introduction/Opening Remarks  
Technical Session 1 – MELCOR Applications and Assessment I

Thursday, June 6 (AM)

Technical Session 2 – MELCOR Applications and Assessment II  
MCAP Meeting Adjournment

Thursday, June 6 (PM)

MELCOR Workshop Special Topics

**International MACCS User Group (IMUG) Meeting**  
**June 10-11, 2019**  
**Preliminary Program Plan**

The following technical sessions are proposed for the 2019 IMUG meeting. They will be finalized after we receive proposals from the participants and then we will issue an agenda with confirmed presentations and topics. Presentations are welcome and encouraged. The presentation topics can cover any technical element related to the modeling of nuclear offsite consequences and can include research efforts, benchmarking, modeling improvements, uncertainty evaluations, modeling applications, or other offsite consequence models and tools. This plan will be finalized after considering your submittals and presentation suggestions.

Monday, June 10, 2019

- IMUG Registration
- Introduction/Opening Remarks
- Technical Session 1 – MACCS Code Suite Development Status
- Technical Session 2 – Severe Accident Consequence Modeling Applications
- Technical Session 3 – Atmospheric Transport and Dispersion
- Technical Session 4 – Emergency Response Research and Modeling

Tuesday, June 11, 2019

- Technical Session 5 – Long-term Recovery and Cleanup Research and Modeling
- Technical Session 6 – Recent Benchmarking of Consequence Models
- Technical Session 7 – Societal and Economic Consequences
- Technical Session 8 – Severe Accident Consequence Modeling

**MACCS User Workshop**  
**June 12-14, 2019**  
**Preliminary Program Plan**

Wednesday, June 12

- MACCS Workshop Registration
- Introduction/Opening Remarks
- MACCS Model Overview
- Atmospheric Transport and Dispersion Modeling Including Gaussian Plume Segment Model, Wake Effects, Plume Rise, Plume Meander, Dry and Wet Deposition, and Treatment of Meteorology
- Exercises
- Emergency Phase Exposure Pathways and Modeling of Protective Actions Including Evacuation, Relocation, and Sheltering
- Exercises
- Adjourn

Thursday, June 13

- Intermediate Phase and Long-Term Phase Exposure Pathways and Modeling of Protective Actions Including Relocation, Decontamination, and Condemnation
- Exercises
- Modeling of Dose and Early and Latent Health Effects
- Exercises
- Modeling of Land Contamination and Economic Consequences
- Exercises
- Adjourn

Friday, June 14

- Site-Specific Population, Economic, and Land Use Modeling Using the SecPop Preprocessor Code
- Radionuclide Release Modeling of Source Terms in MACCS Using the MelMACCS Preprocessor Code
- Recent Updates and Planned Enhancements to MACCS
- Exercises
- Closing Remarks/Announcements
- Adjourn