May 12, 2017

Dear Colleagues:

SUBJECT: COOPERATIVE SEVERE ACCIDENT RESEARCH PROGRAM (CSARP), MELCOR CODE ASSESSMENT PROGRAM TECHNICAL REVIEW MEETINGS (MCAP), MELCOR USER WORKSHOP, INTERNATIONAL MELCOR ACCIDENT CONSEQUENCE CODE SYSTEM (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, MELCOR User Workshop, International MELCOR Accident Consequence Code System (MACCS) User Group (IMUG) meeting, and MACCS User Workshop will be held in September 2017 at the Residence Inn Bethesda in Bethesda, Maryland. The dates for the five meetings are as follows:

- MELCOR Special Topic Workshop: September 11, 2017
- CSARP Technical Review Meeting: September 12-14, 2017
- MCAP Meeting: September 14-15, 2017
- MACCS User Workshop: September 11-13, 2017
- IMUG Meeting: September 14-15, 2017

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 June 30, 2017, will be appreciated. This will help us develop a preliminary agenda for the meetings in a timely manner. A preliminary agenda for the MELCOR workshop is attached.

The IMUG program plan is enclosed. The meeting 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 meeting. A response from you on or before June 30, 2017, 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, economic consequences). Topics are not limited to just the MACCS code; presentations are welcome for work using other nuclear accident consequence codes. A preliminary agenda for the MACCS User Workshop is attached. All workshop attendees should bring their own laptop and have installed MACCS Version 3.10.1.2/WinMACCS Version 3.10.0. If needed, request MACCS via email to MACCScodes@nrc.gov at least two months in advance.

For up to date information and to register for the meetings, please go to http://energy.sandia.gov/energy/nuclear-energy/nuclear-energy-safety-technologies/melcor/melcor-user-workshop/
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 conference 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. Sonya Mahler at smahler@sandia.gov, tel. 1-505-844-8033 by no later than August 22, 2017.

A block of rooms at a special conference and per diem rate ($231/night plus applicable taxes) has been set aside at the Residence Inn Bethesda, 7335 Wisconsin Avenue, Bethesda, Maryland. The cutoff date for room reservation at this cost is August 10, 2017. Reservations can be made directly with reservations at 1-301-718-0200 (hotel directly), 1-800-331-3131 (toll free) using a credit card. Guests should identify themselves as part of the CSARP MCAP MELCOR IMUG Meeting 2017 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, September 9, 2017 through Sunday, September 17, 2017. The hotel parking rates are $20 overnight per day and $15 daily rate per day.

The web site for the hotel is: http://www.marriott.com/hotels/travel/wasbr-residence-inn-bethesda-downtown/ or on-line (arrival/departure dates may be changed) at http://www.marriott.com/meeting-event-hotels/group-corporate-travel/groupCorp.mi?resLinkData=MELCOR%20CSARP%20MCAP%20IMUG%20Meeting%20%5Ewasbr%60csacsaa%60231%60USD%60false%601%609/17%609/17/17%608/18/17&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.

- American Inn of Bethesda (1-301-656-9300/1-800-323-7081)
- Bethesda Court Hotel (1-301-656-2100/1-800-874-0050)
- Doubletree Bethesda Hotel (1-301-652-2000/1-800-222-8733)
- Hilton Garden Inn Bethesda (1-301-654-8111/1-877-702-9444)
- Hyatt Regency Bethesda (1-301-657-1234/1-800-233-1234)

As in previous years, we plan to organize a group dinner one evening during the CSARP meeting. Information about the group dinner and other social events in the area will be available at the registration desk. Also, note that Sandia will be providing administrative and coordination support for the CSARP, MCAP, and IMUG meetings, and the MELCOR, and MACCS workshops. For assistance in related matters, please contact Ms. Sonya Mahler.
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

Patricia Santiago, Chief
Accident Analysis Branch
Division of Systems Analysis
Office of Nuclear Regulatory Research
Cooperative Severe Accident Research Program (CSARP)
Technical Review Meeting
MELCOR Code Assessment Program (MCAP) Meeting
September 12-15, 2017
Preliminary Program Plan

Tuesday, September 12

CSARP Registration
Introduction/Opening Remarks

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

Wednesday, September 13

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

Thursday, September 14 (AM)

Technical Session 5 – Severe Accident Management & non-LWR Applications
Partners’ Meeting
CSARP Meeting Adjournment

Thursday, September 14 (PM)

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

Friday, September 15

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

Enclosure
MELCOR User’s Workshop  
September 11, 2017  
Preliminary Agenda

1. Workshop Introductions & Overview .................................................... (SNL)  
   Review of the MELCOR code development and introduction of workshop

2. MELCOR overview............................................................................ (SNL)  
   Very general overview of MELCOR

3. New MELCOR models -1 ................................................................. (SNL)  
   Use of the new homologous pump model and second lower head (core catcher) with working examples and exercises.

4. New MELCOR Models – 2 ................................................................. (SNL)  
   Working with the radiation enclosure model, Zukauskas HTC, multi-rod model with working examples and exercises

5. Workshop Wrap-up ................................................................. (SNL)  
   Workshop Q/A, presentation of certificates, workshop evaluations.
MACCS User Workshop  
September 11-13, 2017  
Preliminary Program Plan

Monday, September 11

- 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

Tuesday, September 12

- 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

Wednesday, September 13

- 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
- Adjourn

Enclosure
The following technical sessions are proposed for the 2017 IMUG meeting. They will be finalized after we receive proposals from the members and users groups and then we will issue an agenda with confirmed presentations and topics. The presentations can cover any technical element related to the modeling of nuclear offsite consequences and can include research efforts, benchmarking, modeling improvements, or modeling applications. Presentations are welcome that use MACCS as well as other offsite consequence models and tools.

Thursday, September 14
- 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 – Severe Accident Consequence Modeling – TBD

Friday, September 15
- Technical Session 5 – Emergency Response Research and Modeling
- Technical Session 6 – Recent Benchmarking of Consequence Models
- Technical Session 7 – Economic Consequences
- Technical Session 8 – Severe Accident Consequence Modeling – TBD