From: Jack Guttmann
To: Bajwa, Christopher; Dey, Monideep; Solis, Jorge
Date: Thu, Feb 7, 2002 7:43 AM
Subject: Re: Fire Modeling Workshop

Moni,

SFPO would like to participate or attend. Chris Bajwa and NIST may have something to contribute, if you like.

Chris is working with NIST to simulate the Baltimore Tunnel Fire event. I am not sure if we will be ready to show the results, but it will be close.

You may want to talk to Chris about it.

Jorge Solis and I will also attend.

Thanks,

Jack.

>>> Monideep Dey 02/06/2002 1:57:48 PM >>>
RES is sponsoring a fire modeling workshop on May 2-3, 2002 at the NIST facilities in Gaithersburg. You are invited to attend this workshop. A preliminary list of topics to be discussed is presented below. This workshop is being conducted in conjunction with the semi-annual meeting of the International Collaborative Fire Model Project that RES sponsors. International experts in fire modeling and computer simulation participate in this project and plan to attend the workshop. Participants from the nuclear industry and EPRI have also been invited to attend. We plan to hold meetings with you to discuss and formulate RES research plans in this area, including fire tests, that we would like to propose as collaborative research at the workshop. Your participantion in those meetings and the workshop will be helpful for us to identify your needs in this area

Preliminary List of Topics for Workshop

I. Opening Remarks

II. Preliminary results for Benchmark Exercise # 2, "Evaluation of Fire Models for Nuclear Facility Applications: Pool Fires in Large Halls,": Participants in the benchmark exercise will present preliminary numerical predictions and analysis of these fire scenarios. [The results of the 1st international fire model benchmarking exercise for cable tray fire scenarios will be presented and discussed at the internal NRC staff meetings mentioned above].

III. Proposals for fire tests and international fire model validation exercises: Proposals are solicited from workshop participants for ideas on fire tests for international fire model validation exercises. RES intends to propose, after consultations with NRR and NMSS, the 1st fire test and international fire model validation exercise it is planning to sponsor for the project.

IV. Proposals for fire tests for developing fire source heat release rates and equipment dysfunction criteria: The development of fire source heat release rates and equipment

dysfunction criteria has been identified as needed information for the successful adoption of fire models in the regulatory process. Presentations are solicited for approaches to the development of this data, including the conduct of new tests.

V. Regulatory applications of fire models: Presentations on the application of fire models (empirical, zone and CFD) in the regulatory process are solicited to identify successes and further needs for research.

VI. Fire model validation database for nuclear applications: The need for developing a fire model validation database for nuclear applications has been identified. Participants are solicited to present the results of any reviews of existing validation studies, including their applicability for nuclear applications.

VII. Detector response modeling: Fire detector response modeling in nuclear installations poses several challenges. The effort by the SFPE Task Group to review detector response modeling in the built environment will be presented, including identification of potential challenges for nuclear installations. Participants are solicited to present material regarding this topic to promote discussion of the issues for fire detector response models in nuclear installations.

VIII. Tours

Large Fire Test Facility
Fire Detector Laboratory
Neutron Research Facility

I hope you are able to make time to attend the workshop. Please let me know by March 29 by return e-mail if you plan to attend. If you have any questions, please feel free to call me.

Thanks,

Moni Dey
PRAB/DRAA/RES

x 6443