

ASME RESEARCH COMMITTEE ON RISK TECHNOLOGY

MEETING MINUTES (DRAFT)

**Opryland Hotel
Nashville, TN
Tuesday, May 11, 2004**

A. Welcome and Introductions

Mr. Michael Schmidt, Chair, called the meeting to order at 8:35 AM. Following participant introductions, Mr. Schmidt welcomed all participants.

Attendees: In addition to Mr. Schmidt, the following RCRT members attended: Lee Abramson, Ken Balkey, Alan Chockie, David Mauney and Fred Simenon. Also in attendance were Tai Asayama, Japan Nuclear Cycle Development Institute; Masahisa Higuchi, JEARL; Dave Oulton, Nova Chemicals.

B. Review of Agenda/Approval of Minutes

Agenda: Attachment 1 provides the meeting agenda.

Minutes: Dr. Abramson reported that the minutes of the meeting held on May 20, 2003, in Washington, DC, were approved by email vote. The minutes of the previous meeting held on December 9, 2003 in Lake Buena Vista, FL, were reviewed. Because a quorum was not present, the minutes could not be approved. The Chair directed that an email vote be taken.

C. Membership Issues

Dr. Abramson announced that he will be retiring from the NRC on October 1. His term on the RCRT expires on June 30, 2004, and he will not be seeking re-appointment. He suggested that Mr. Arthur Salomon, a statistician at the NRC, should be considered for membership on the RCRT.

Mr. Schmidt directed Dr. Abramson to ask Dr. Perdue, chair of the Nominating Committee, to recommend a candidate for Secretary to replace Dr. Abramson.

Dr. Abramson announced that Dr. Koichi Kashima does not wish to renew his membership on the RCRT when it expires on June 30, 2004.

Mr. Schmidt announced that he intends to write two letters: (1) To active members of the RCRT whose terms expire on June 30, 2004, and inquire whether they would like to continue on the Committee; (2) To inactive members and inquire whether they would like to become Associate Members. (The terms of all but three members expire on 06/30/2004.) He noted that The Board meets in June and needs a list of nominees for approval.

D. CRTD Update

Dr. Michael Tinkleman, Director of ASME Research, joined the meeting at 9:00 AM by speaker phone. He reported that the ASME Continuity & Change Initiative was approved by the Board and that a new organization chart will be implemented by July 1, 2005. The details are still being worked out.

E. Response to CRTD Update

Strategic Plan for RCRT: Dr. Tinkleman suggested that the RCRT needs to add areas of interest and identify champions for them. This could involve members who might not necessarily be able to attend meetings of the RCRT. Possible areas are a hydrogen economy, gas turbines and risk-based maintenance. Mr. Mauney suggested that we look outside the RCRT, e.g., at industry groups such as the American Petroleum Institute.

Risk-Informed Regulation: Mr. Balkey noted that the NRC, as part of its effort to risk inform its regulations, is planning to use probabilistic risk assessment (PRA) to re-classify components as high or low safety significant. He suggested that the RCRT could develop a position paper on the importance of risk-informed inspection and maintenance to identify safety-significant systems, structures and components (SSCs). He will develop an outline of a position paper and circulate it to the RCRT.

F. Committee/Liaison Reports

Post Construction: Mr. Mauney announced he has resigned as liaison. Mr. Schmidt will take over as liaison. Mr. Mauney reported that the risk-based portion of the inspection planning standard survived the first subcommittee ballot.

G. CAPI Update

Homeland Security: Mr. Balkey reported that the data base has about 250 people. There is no common terminology on reporting. The ASME framework involves evaluating risk models and rolling up the numbers across industries at the sector level. Several

national laboratories (Argonne, Sandia, Livermore) are investigating risk metrics. These include (1)injuries and fatalities, (2)economic, (3)environmental, (4)loss of production, (5)loss of public confidence and (6) threats to military operations.

Vulnerability Standard: ASME is developing a vulnerability standard with assistance from its partners. Partners in this effort are API, ANS, ANSI, ASTM, AICHE. The oil and chemical industries have approaches but they must be translated into the six metrics. The nuclear industry uses the first three metrics. Transportation is much harder, because it is decentralized and there is no overarching professional organization. A specific standard is needed for each industry.

Emergency Response: DHS is interested in emergency response to a regional as opposed to a national attack. Westinghouse will be coordinating emergency response for the Pittsburgh area. Mr. Oulton noted that the chemical industry has been coordinating emergency response to chemical accidents in small geographic areas for many years.

H. NRC Developments

Dr. Abramson reported on the following NRC activities:

LOCA Re-evaluation: To support a possible risk-informed alternative to 10CFR 50.46, “Acceptance criteria for ECCS for reactors”, the NRC is developing realistically conservative estimates of the frequencies of medium and large -break loss-of-coolant accidents. The results, based on an expert elicitation, will help form the basis for possible rule-making. A draft rule is due by December 2004.

Spent fuel storage: The third draft of a pilot PRA of a dry cask storage system at a BWR is expected to be completed by Summer 2004. Following a presentation of the results to the Advisory Committee on Nuclear Waste (ACNW) in the fall, the report will be issued for public comment early in 2005.

Regulatory Guide 1.200: The NRC issued “An Approach for Determining the Adequacy of PRA in Risk Informed Activities” for trial use.

I. Next Meeting

The next meeting of the RCRT is scheduled for Tuesday, December 14, 2004, at the San Francisco Hilton. Mr. Schmidt proposed that the RCRT not meet in San Francisco unless a quorum is assured. He will contact the membership in early September to try and get commitments to attend. If no quorum is assured, Mr. Schmidt will look into the possibility of meeting by conference call.

J. Adjournment

The meeting was adjourned by Mr. Schmidt at 12:20 PM.

Prepared by: *Lee Abramson*

Dr. Lee Abramson, Secretary
ASME Research Committee on Risk Technology

Approved by: *Michael Schmidt*

Mr. Michael Schmidt, Chair
ASME Research Committee on Risk
Technology

**ASME RESEARCH COMMITTEE ON RISK TECHNOLOGY
DRAFT AGENDA**

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Opryland Hotel
Nashville, TN, USA
Tuesday, May 11, 2004

<u>TOPICS</u>	<u>TIME</u>	<u>DISCUSSION LEADER</u>
Continental Breakfast	0800	All
Welcome and Introductions	0820	Mr. Michael Schmidt
Review of Agenda/Approval of Minutes	0830	Mr. Schmidt / Dr. Lee Abramson
Membership Issues Secretary Nominations Other Membership Issues	0840	Mr. Schmidt / Dr. Abramson Dr. Abramson Dr. Abramson
CRTD Update ASME Continuity & Change Initiative Assorted other topics (TBA)	0900	Dr. Tinkleman (via technology)
Response to CRTD Update Procedural Issues Strategic Plan	0930	All
Break	1000	All
Committee / liaison reports	1020	TBA
NRC Developments	1100	Dr. Lee Abramson
Other Developments	1130	All/TBA
Lunch/Adjourn	1230	All
New Business (as required)	1315	All
Adjourn	1400	All

Risk Technology

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ASME/CRTD COMMITTEE APPOINTMENT FORM

Please complete items 1-9 of this form. ASME staff will supply information for items 10-15. Instructions and a return address are provided on page two of this form. Please print your responses.

1.	Appointment to: <u>(Committee)</u>
2.	Nominee: _____ (Title) _____ (Company) _____ (Address) _____ (City, State & Zip) _____ (Ph.) _____ (Fax) _____ (E-mail) _____
3.	Degrees: <u>(With Disciplines)</u>
4.	P.E. Certification: <input type="checkbox"/> Yes <input type="checkbox"/> No? If YES , States: _____
5.	ASME Membership: <input type="checkbox"/> Yes <input type="checkbox"/> No? If YES , Grade: _____
6.	Other Memberships: _____
7.	Relevant experience: _____ _____
8.	Other ASME Activities: _____ _____
9.	Signature: _____ Date: _____

10.	<input type="checkbox"/> New <input type="checkbox"/> Reappointment <input type="checkbox"/> Replacement for: _____
11.	Appointment Dates From: _____ To: _____
12.	Nominee's Previous Appointments To This Committee: From: _____ To: _____ From: _____ To: _____ From: _____ To: _____
13.	Present Committee Tenure: 0 to 2 years _____% 8 to 12 years _____% 3 to 7 years _____% Over 12 years _____% (Justification Required)
14.	Present Committee Balance: Industrial _____% Academic _____% Gov't. _____% Consultant _____%
15.	Justification Attached? <input type="checkbox"/> Yes <input type="checkbox"/> N.A.

Proposed By: <u>(Chair, Research Committee)</u>
Staff Attest: <u>(Director, Research)</u>

ASME/CRTD COMMITTEE APPOINTMENT REVIEW FORM

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Nominee Instructions

Please complete items 1-9 on the reverse side. ASME staff will supply information for items 10-15. Please print your responses.

1. Example: "Member, Research Committee on Risk Technology."
6. Please list other engineering societies in which you are a member.
7. Please list other relevant professional or background information and experience.
8. Please indicate other current or previous ASME activities.
9. Please sign and date this section of the form.

Please Return Form To:

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