



UNITED STATES
NUCLEAR REGULATORY COMMISSION
ADVISORY COMMITTEE ON REACTOR SAFEGUARDS
WASHINGTON, D. C. 20555

December 9, 1991

MEMORANDUM FOR: ACRS Staff
ACNW Staff

FROM: *R. F. Fraley*
R. F. Fraley
Executive Director

SUBJECT: INTERACTION WITH THE NUCLEAR SAFETY RESEARCH
REVIEW COMMITTEE

Both the ACRS and the ACNW have agreed to an improved working relationship with the NRC Nuclear Safety Research Review Committee (NSRRC). Specifically, the NSRRC and the ACRS and ACNW have agreed that:

- 1) The Chairman of the NSRRC or his designee will be invited to meet with the ACRS and the ACNW at mutually agreed times.
- 2) NSRRC will be informed of ACRS and ACNW meetings, including Subcommittee and Working Group meetings, at which research program activities or results will be discussed, and will be welcome to attend, and participate as appropriate.
- 3) The ACRS and ACNW will be provided copies of all NSRRC reports.
- 4) The NSRRC will be provided copies of all reports issued by the ACRS and ACNW related to NRC research activities.
- 5) Inform ACRS and ACNW members of anticipated NSRRC meetings as far in advance as possible.
- 6) ACRS and ACNW members and/or cognizant staff members should attend NSRRC meetings as appropriate. Cognizant consultants should also be invited to attend as appropriate.

In order to help make sure that all of the above get implemented properly, a few specific assignments and bits of guidance are noted below. If you have any questions or problems, let's discuss them.

Item 1: NSRRC Representatives attend/participate in ACRS/ACNW meetings - Neither Committee has provided specific guidance regarding what "mutually agreed times" might be. The following are possibilities:

- After the NSRRC has issued a specific report on a topic the

ACRS or ACNW might be interested in hearing more about.

- When the Committee schedules a briefing or discussion on a specific part of the research program or an overview of the NRC research program, NSRRC input might be helpful.
- In connection with Chet Siess' recent suggestion (at the ACRS "retreat") that the ACRS review the purpose of/need for an NRC research program.
- Annually, just to keep in touch if there has been no other interaction.

Project engineers should remind cognizant Subcommittee Chairmen of this arrangement and the availability of Mr. Morrison or his designee whenever substantive discussion of a research topic is planned. This will provide an opportunity to determine on a case-by-case basis whether or not we should invite him. The degree of participation should be settled on a case-by-case basis.

Item 2: Inform NSRRC of ACRS/ACNW Meetings - Barbara Jo White will send the coordinated "monthly" Federal Register Notice of both ACRS and ACNW meetings to the NSRRC Designated Federal Employee (DFE) (Ralph Meyer, RES). Federal Register notices of individual meetings should be sent to Mr. Meyer by the cognizant project engineers.

Item 3: Send ACRS and ACNW reports to NSRRC - ACRS and ACNW reports that involve safety research issues will be sent by Carol Ann Rowe and Ruby Stapler, respectively, to the NSRRC DFE as part of the internal NRC distribution of these reports. Any questions about which particular reports are relevant should be discussed with me or Dick Savio.

Item 4: Forward NSRRC reports to ACRS and ACNW members - Members of the ACRS and ACNW have asked that they be provided copies of all NSRRC reports.

The NSRRC has agreed to provide this office copies of its reports and is already doing so. Copies of NSRRC reports received in this office should be forwarded to all ACRS and ACNW members routinely by Paul Boehnert (ACRS matters) and Rich Major (ACNW matters). (If specific members request that copies not be provided to them, adjustments can be made later.)

Item 5: Inform ACRS/ACNW members of NSRRC meetings - Copies of NSRRC meeting notices will be sent by the Mail Room to Paul Boehnert and Rich Major for distribution to Committee members, consultants, and staff engineers who may have an interest in attending, depending on the subject of meeting. Copies should be sent by the cognizant staff engineer to all Committee members as

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soon as possible so they can make appropriate plans to attend.

I have asked the NSRRC to provide any long-range list they may have of planned meetings to give the ACRS/ACNW members as much notice as possible to plan related activities.

CC:

D. W. Moeller, ACNW

D. A. Ward, ACRS

I. Catton, ACRS

From: Richard Savio
To: TWD2.TWP0.JXC5
Date: 7/11/96 1:27pm
Subject: res coordination -Forwarded

JOSE----Please take a look at this attachment to see if the referenced documents will give you the information you need to stay informed as to what the ACRS and ACNW are doing. There are other bulkier documents that we could send you, such as meeting minutes, transcripts, etc. I found a few old documents in my working files which describe what our Offices had agreed to in the past and asked that a further search be made of our old hard copy files to see if there is anything else that would be useful, as to not reinvent any wheels. I will stop by and leave copies of what I have with you today. On my end, my Office would need the following:

1) The announcements of and agenda for NSRRC meetings. E-mail would be helpful as my Office can then route the material around the Office and to the responsible members via the LAN rather than by copying and carrying. ACRS/ACNW staff would, as they have been, attend (as listeners) some of these meetings.

2) Any lists/ letters relating to planned NSRRC reviews would also help us in planning our own ACRS and ACNW reviews and staff attendance at NSRRC meetings.

3) Copies, for information, of NSRRC reports as they are issued.

4) While not related to NSRRC coordination, we used to get, on request, printouts of RES's FIN by FIN listing of ongoing RES contracts. I would like to have a current one sent to me sometime in the next month to support some discussions that John Larkins and I will have with Tom Kress.

I would be the addressee for all of this material and would be responsible for having appropriate actions taken on the ACRS/ACNW end. ---Lets discuss all this. Dick Savio

From: Jose Cortez
To: TWD1.TWP2(RPS1)
Date: 7/11/96 4:19pm
Subject: res coordination -Forwarded -Reply

I will send FINs via M. RIGG office, I am asking Sandy Young to go over the list of items on your E-mail to see what we already do and what else needs to be done. The NSRRC only meets two or three times a year and only do one report after each meeting. This report already goes to you. I do not know of any particular study or report they have produced since I took over from Sage. As I told you before, I do this job on a part time basis in addition to my coordination of international cooperative research projects of this office which currently number over 60 agreements with 24 countries and growing, that is already a job and half!!!, AND I CAN ONLY DO "IT" WITH SANDY YOUNG'S HELP!!!

The committee does not have a staff , and I only set up meetings and handle the administrative details of their visit, and appointments, etc. I do not do any staff work for the committee, as such and only answer their request for specific information on RES programs. If NSRRC committee wants to be kept informed on what your committees are doing, the only thing I can do is ask you fellows to put the NSRRC committee members on your distribution lists and maybe come to your meetings. Attending your meetings has not been a requirement , and we would have to consider this as an additional expense if we were to ask them to cover the ACRS of ACNW.... We talked about this with Morrison, but made no recommendations.

Lets keep on talking about this , because if you feel we need more ACRS/ACNW/NSRRC interaction we may have to get Morrison involved for him to consider the staffing question. To do a respectable job of maintaining the NSRRC committee wired into the rest of the NRC, we need some full time staff to do the job right, or at least better then we are doing it now.

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PROPOSED AGENDA FOR CENG-NRC MEETING ON THERMAL-HYDRAULICS RESEARCH

September 30, 1996

- 9:00 - 10:00 Introduction by CENG (Dr. Grand) & NRC (Dr. Eltawila)
- Objectives of Meeting
 - Overview of Research Program
 - Long Range Goals/Plans
- 10:00 - 11:00 CATHARE Development & Assessment (Dr. Brun/Bestion ?)
- 11:00 - 12:00 NRC Long Term Code Development Program (Mr. Kelly)
- 12:00 - 13:30 Lunch
- 13:30 - 14:30 CENG Separate Effects Test Program (?)
- 14:30 - 16:30 NRC Integral & Separate Effects Test Program (Dr. Eltawila & Prof. Ishii)
- OSU/APEX Facility
 - UMCP Facility
 - PUMA Facility
- 16:30 - 17:00 Discussion - Potential Cooperation on Code Development & Assessment, and Separate Effects Testing

October 1, 1996

- 9:00 - 10:30 BETHSY Integral Test Facility (Dr. Deruaz)
- Facility Description & Future Test Program
- 10:30 - 11:30 Tour of BETHSY Facility
- 11:30 - 13:00 Lunch
- 13:00 - 15:00 Two-Phase Flow: Fundamental Research
- CENG Program (Prof. Delhayé ?)
 - NRC Program (Prof. Ishii)
- 15:00 - 16:00 Tour of CENG Two-Phase Fundamentals Laboratory
- 16:00 - 17:00 Discussion & Summary - Areas for Potential Cooperation

ACRS SPECIAL TRAVEL ENDORSEMENT FORM

THIS FORM IS TO BE USED TO REQUEST ACRS ENDORSEMENT OF SPECIAL TRAVEL REQUESTS BY MEMBERS WHEN NRC SUPPORT FOR PARTIAL OR FULL REIMBURSEMENT OF EXPENSES AND/OR TIME IS DESIRED. THIS PROCEDURE IN NO WAY LIMITS THE FREEDOM OF A MEMBER TO PARTICIPATE IN A MEETING AS AN INDIVIDUAL AT PERSONAL EXPENSE. PLEASE SUBMIT THIS FORM TO THE PLANNING AND PROCEDURES SUBCOMMITTEE AT LEAST 60 DAYS PRIOR TO THE MEETING, IF POSSIBLE. SUPPLEMENTAL INFORMATION MAY BE ADDED AS DETAILS DEVELOP.

Member Name: IVAN CATTON Date Submitted: 18 July 1996

Dates of Planned Trip: 24 Sept '96 to 26 Sept 96

Destination: Ottawa

Meeting or Facility to be Visited: International Conference on Performance-Based Codes and Fire Safety Design

Purpose/Relevance to ACRS Business:

Performance based regulation is rapidly becoming a part of how NRC will conduct its business

Participation (Invited Speaker, paper presented, etc.):

Attend

Justification (Foreign Travel Only):

The meeting will bring together professionals from around the world to discuss state-of-the-art in the development of performance-based fire safety regulations. The process is important in general and to fire specifically

NRC SUPPORT REQUESTED

Air Fare: yes ☒ No ☐ Per Diem: yes ☒ No ☐ Days: 3
Registration: \$ 5 Compensation: yes ☒ No ☐ Days: 2

International Conference on Performance-Based Codes and Fire Safety Design Methods

24-26 September 1996

Sheraton Ottawa Hotel & Towers
Ottawa, Ontario, Canada

Organized by



International Council for Building Research
Studies and Documentation (CIB), The Netherlands



National Research Council, Canada



Society of Fire Protection Engineers
Boston, MA, USA

About the Conference

Performance-oriented regulations have existed in various countries around the world for more than ten years. To date, thirteen countries and two international organizations have been or are actively involved in the development of performance-based fire safety regulations and design approaches.

This three-day conference will bring together professionals from around the world to discuss the state-of-the-art in these important areas. Featured will be invited papers that discuss various performance-based codes and design methods under development or in use and a workshop in which representatives from various countries and organizations will illustrate the application of their fire safety design approaches to a common test building, complemented by selected papers based upon the response to the call for papers.

An innovation for this conference will be special receptions and discussion sessions on Tuesday and Thursday evenings at 1900 hours where delegates may gather to discuss the events of the day or make plans for the evening. Refreshments will be available.

Due to the burgeoning interest in performance-based codes and fire safety design methods and the limited available meeting space, attendance may have to be limited to the first 175 registrants. Those planning to attend are urged to make their plans early.

Location, Travel and Accommodation

The Sheraton Ottawa Hotel and Towers is conveniently located at 150 Albert Street in the very heart of Canada's capital city. Ottawa is a city of world-class museums and internationally-known festivals, the centre of the nation's business and a booming hub of high technology. The Sheraton Ottawa is only two blocks from historic landmarks such as Parliament Hill and the Rideau Canal (the longest ice skating rink in the world) and close to excellent shopping and major attractions such as the lively Byward Market.

Ottawa International Airport is situated about 26 kilometres (16 miles) from the city centre. It is mainly served by connecting flights from Vancouver, Montreal and Toronto. However, there are direct flights from Boston, Massachusetts, Pittsburgh, Pennsylvania, Baltimore, Maryland and New York City, U.S.A. As well, there is direct service from London, UK and Amsterdam, the Netherlands.

Hotel Accommodations

The standard rate is \$125.00 (Canadian) per night. Tower rooms are: single \$169.00 (Canadian); double/twin \$189.00 (Canadian). Rates do not include 5% PST; 7% GST. To reserve accommodations, complete the form on page 5. Enclose a check or money order (Canadian funds) for the first night's deposit payable to the Sheraton Ottawa Hotel and Towers or guarantee on a major credit card (American Express, Diners Club, MasterCard, VISA).

Mail or FAX directly to the hotel. The toll-free number for North America: 1-800-489-8333; outside North America: 613-238-1500. Identify yourself as being part of the room block held for the Society of Fire Protection Engineers. The CUT-OFF DATE for reservations is 23 AUGUST 1996. Reservations received after the contracted block of rooms is full or after the cut-off date are subject to space and rate availability. Check-in time is 1500 hours. Check out time is 1200 hours.

Registration

Monday, 23 September, at the Sheraton Ottawa from 1500 hours until 1800 hours and Tuesday 24 September to Thursday, 26 September, from 0730 hours until 1630 hours.

Social Program

Unless otherwise stated the full delegate registration fee includes the two social events.

Monday, 23 September-1800 hours - 1930 hours. Welcome to Ottawa Reception in the Sheraton Ottawa Hotel. All delegates and accompanying persons are invited.

Wednesday, 25 September-1900 hours. Gala Conference Reception and Dinner. Tickets for accompanying persons and daily fee registrants are available at US \$45.00 each.

Special Requirements

If you have special requirements due to disability or special dietary needs, please contact SFPE Headquarters by 23 August.

Conference Committees

ORGANIZING COMMITTEE

D. Peter Lund, Chair	SFPE
Brian Meacham	SFPE
Robert Bowen	CIB TG11
Matti Kokkala	CIB W14
J. Kenneth Richardson	NRCC

PROGRAM COMMITTEES

Performance-Based Codes Session

Robert Bowen, Chair	NRC, Canada
Jane Blackmore	CSIRO, Australia
Russell Thomas	NRC, Canada
John Hunt	BIA, New Zealand
Yoshinobo Hirano	BRI, Japan
David Stone	Scottish Office, UK
Jon Traw	ICBO, USA
David Lucht	WPI, USA

Performance-Based Firesafety Design Methods Session

Matti Kokkala, Chair	VTT, Finland
Peter Johnson	Arup Fire, UK
J. Kenneth Richardson	NRC Canada
Yuji Hasemi	BRI, Japan
Sven-Erik Magnusson	Lund University, Sweden
Brian Meacham	SFPE, USA
Marc Janssens	AFPA, USA

CIB AND ISO MEETINGS

Concurrent with and immediately after the International Conference on Performance-Based Codes and Fire Safety Design Methods, there will be meetings of CIB TG11, CIB W14 and ISO TC92 SC4. The CIB TG11 meeting will be held Wednesday, 25 September, the CIB W14 meeting will be held Friday, 27 September, and the ISO TC92 SC4 meeting will begin 28 September and continue through the following week. Members of the CIB and ISO groups are eligible for the conference room rates at the Sheraton Hotel Ottawa when reserved by 23 August 1996. Look for meeting details from CIB TG11, CIB W14 and ISO TC92 SC4. Please note that participation in the CIB and ISO meetings may be limited to members of those organizations. Any non-members who are interested in attending these meetings are urged to contact the respective organizations well in advance of the meetings to avoid difficulties.

T u e s d a y , 2 4 S e p t e m b e r 1 9 9 6

- 07:30 Registration
- 08:15 Welcome (SFPE, NRCC, CIB TG11)
- 08:45 Invited Paper: *Objective-Based Codes: The Canadian Direction*, R. Thomas, Canada
- 09:15 Invited Paper: *Performance-Based Codes: The United Kingdom Experience*, T. Rackliffe, UK
- 09:45 Invited Paper: *Performance-Based Codes: The New Zealand Experience*, J. Hunt, New Zealand
- 10:15 Break
- 10:35 Invited Paper: *Performance-Based Codes: The Swedish Experience*, R. Jonsson and T. Rantatalo, Sweden
- 11:05 Invited Paper: *The Performance Building Code Australia*, Lyall Dix, Australia
- 11:35 Invited Paper: *Future Perspective of the U.S. Model Building Codes*, Jon Traw, USA
- 12:05 Lunch
- 13:00 Invited Paper: *Public Policy and Performance-Based Engineering*, D. Lucht, USA
- 13:30 Invited Paper: *Legal Concerns Related to Performance-Based Codes*, K. Lovegrove, Australia
- 14:00 *Education for Performance-Based Codes*, C. Fleischmann, New Zealand
- 14:20 *Ten Years Experience as an Architect and Fire Engineer on the Development and Application of Performance-Based Codes*, A. Parnell, UK
- 14:40 Break
- 15:00 *Performance-Based Fire Safety*, H. Nelson, USA
- 15:20 *The "Culture" of Performance-Based Fire Codes*, A. Buchanan, New Zealand

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Tuesday, 24 September 1996

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- 15:40 *Thoughts on Building Codes, Design Standards, and Performance Evaluations for Firesafety*, R.W. Fitzgerald, USA
- 16:00 *Performance-Based Codes: Reengineering the Regulatory System*, V.M. Brannigan, USA
- 16:20 Break
- 16:40 *Our Approach Toward the Building Codes and Standards of a New Generation*, I. Nakaya and Y. Hirano, Japan
- 17:00 *Performance-Based Life Safety Code*, J.M. Watts, USA
- 17:20 *A Hypothetical Model for a Performance-Based Codes System for the United States*, R. Bukowski, USA
- 17:40 *NFPA's Objectives in Pursuing Performance-Based Codes and Standards*, M. Puchovsky, USA
- 18:00 End
- 19:00 Informal Reception and Discussion Session

Wednesday, 25 September 1996

- 07:30 Registration
- 08:15 Welcome (SFPE, NRCC, CIB W14)
- 08:45 Invited Paper: *Technology Requirements for Performance-Based Fire Safety Design*, J.K. Richardson, Canada
- 09:15 Invited Paper: *CIB W14 Activities to Promote Performance-Based Fire Safety Design*, M. Kakkala, Finland
- 09:45 Invited Paper: *ISO/TC92/SC4 Fire Safety Engineering—Present Activities and Future Strategy*, W. Becker, Germany
- 10:15 Break
- 10:35 Invited Paper: *Performance-Based Code in Fire Resistance: A First Attempt by Eurocodes*, J. Kruppa, France
- 11:05 Invited Paper: *Integrated Analysis of Fire Exposed Structures*, H. Landro, Norway
- 11:35 Invited Paper: *How to Derive Safety Factors*, S.E. Magnusson, Sweden
- 12:05 Invited Paper: *The Use of Computer Models to Support Performance-Based Fire Safety Designs: A Code Official's Perspective*, J. Fleming, USA
- 12:35 Lunch
- 13:35 *Cost-Effective Fire Safety Upgrade Options for a Canadian Office Building*, D. Yung, G. Hadjisophocleus and G. Proulx, Canada
- 13:55 *A Case Study: A Performance-Based Method for Fire Safety Analysis of Existing Hotels*, R.L.P. Custer, USA
- 14:15 *Smoke Distribution and Egress at Vancouver's New International Terminal Building: A Value Engineering Study Using CFD*, N. Rhodes, R.D. Lamb and H. Locke, Canada
- 14:35 *The Use of a Risk-Based Engineering Method in the Analysis of Alternative Levels of Building Firesafety*, J. LaSalle, USA
- 14:55 Break
- 15:15 *Development of a Waiver/Deviation Process for Determining Equivalent Fire Protection at United States Research Stations in Antarctica*, D. Carpenter, USA

Wednesday, 25 September 1996

continued

- 15:35 *Necessity and Invention in Fire Engineering Design: A New Zealand View*, D. Gillespie, New Zealand
- 15:55 *Performance-Based Approach to Protecting Our Heritage*, J.M. Watts and M.E. Kapan, USA
- 16:15 Break
- 16:35 *Reflections on Ten Years of Fire Safety Engineering in Australia*, H. Allan, S. Grubits and C. Quaglia, Australia
- 16:55 *Performance-Based Design Information Resource Needs and Proposed Generalized Data Formats*, C. Wood, USA
- 17:15 *Coupling the Fire Behavior of Contents and Interior Finishes for Performance-Based Codes and Fire Safety Design Methods*, R.B. Williamson, USA
- 17:35 *Some Issues in the Computational Domain Models for Fire Risk Analysis*, P.E. Lehner and V.M. Brannigan, USA
- 17:55 End
- 19:00 Reception
- 19:45 Conference Dinner

Thursday, 26 September 1996

PERFORMANCE-BASED FIRESAFETY DESIGN METHODS

The organizations listed below have been invited to perform a case study. They have been given a "performance specification" for a multi-purpose commercial office building (e.g., general offices, insurance offices, law offices, storage spaces, assembly spaces and mechanical spaces) that is to be 4 levels above ground and 1 level below with an area of approximately 3000 m² per floor. The floor plan is to be determined by the invitees. The invitees have been asked to design the building to meet prescriptive requirements (or deemed-to-satisfy alternatives) that are being used in their country and provide two performance-based designs for an "acceptably" safe building: one having automatic sprinklers and one without. The invitees have been asked to provide a relative comparison of fire safety performance and costs for the three designs.

The primary fire safety goal for the building is to safeguard occupants from the unwanted effects of fire in the building until they can safely escape or be safely evacuated. Additional fire safety goals and objectives can be applied at the discretion of the invitee. All assumptions are to be provided. The minimum performance criteria is to be determined as that which meets the minimum (performance) requirements of the current prescriptive code or prescriptive deemed-to-satisfy solutions for their country. (For example, in the USA, the BOCA National Building Code may be used to define the minimum levels of "performance" whereas participants from UK or New Zealand may use the approved documents allowable in their countries as their bases.) All information used as part of the analyses and designs must be provided (assumptions, methods, models, statistics, probabilities, etc.).

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| 07:30 Registration | 13:25 Case Study 6: Caldwell Consulting, New Zealand |
| 08:15 Welcome | 14:10 Case Study 7: Worcester Polytechnic Institute, USA |
| 08:20 Case Study 1: Arup Fire, UK | 14:35 Case Study 8: National Research Council, National Fire Laboratory, Canada |
| 09:05 Case Study 2: Building Research Institute, Japan | 15:40 Break |
| 09:50 Break | 16:00 Case Study 9: Custer Powell Inc., USA |
| 10:10 Case Study 3: Fire Code Reform Centre Ltd., Australia | 16:45 Case Study Panel and Open Discussion |
| 10:55 Case Study 4: Bengt Dahlgren AB, Sweden | 17:45 Conference Summary |
| 11:40 Case Study 5: National Institute of Standards and Technology and the General Services Adm., USA | 18:15 End |
| 12:25 Lunch | 19:00 Informal Reception and Discussion Session |

ACRS SPECIAL TRAVEL ENDORSEMENT FORM

Put in P. Subento
File for Aug 96 Mtg.
JK

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Member Name: G. APOSTOLAKIS Date Submitted: July 7, 1996

Dates of Planned Trip: Sept. 29, '96 to Oct. 3, '96

Destination: Park City, Utah

Meeting or Facility to be Visited: PSA '96

Purpose/Relevance to ACRS Business: The theme of PSA '96
is "Moving toward Risk-Based Regulation."

Participation (Invited Speaker, paper presented, etc.): To chair
a panel on "Performance-Based Regulation:
Issues and Obstacles"

Justification (Foreign Travel Only):

NRC SUPPORT REQUESTED

Air Fare: Yes ☐ No ☒

Per Diem: Yes ☐ No ☒ Days

Registration: \$

Compensation: Yes ☐ No ☒ Days

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Member Name: M. FONTANA Date Submitted: 7/18/96

Dates of Planned Trip: 9/29/96 to 10/3/96

Destination: PARK CITY, UTAH

Meeting or Facility to be Visited: PSA 94

Purpose Relevance to ACRS Business: PROBABILISTIC SAFETY ANALYSIS
IS CENTRAL TO EVOLVING ISSUE OF RISK INCREASED,
PERFORMANCE-BASED REGULATION

Participation (Invited Speaker, paper presented, etc.): ATTEND

Justification (Foreign Travel Only):

NRC SUPPORT REQUESTED

Airfare: Yes ☒ No ☐ Per Diem: Yes ☒ No ☐ Car: ☒

Registration: \$ TBD Compensation: Yes ☒ No ☐ Days: 3

FD