

Risk Informed Standards Committee (RISC) Teleconference Minutes **April 24, 2009 • 9:00 a.m. – 11:00 a.m. (MDT)**

Participating Members: Allen Camp (RISC Chair), *Sandia National Lab*; Robert Budnitz (RISC Vice Chair), *Lawrence Berkeley National Lab*; Paul Amico, *SAIC*; Robert Bari, *Brookhaven National Laboratory*; Richard Black, *DOE*; Biff Bradley, *NEI*; John Gaertner, *EPRI*; Stanley Levinson, *AREVA NP*; Andrea Maioli (Alt. for David Finnicum), *Westinghouse*; Jeff Mitman, *NRC*; Ravi Ravindra, *Individual*; Jean Savy, *Risk Management Solutions*; Patricia Schroeder, *ANS*; Bill Stillwell, *STNOP*; Doug True (Alt. for Rick Hill), *ERIN*

1. Roll Call

Roll call was taken and the teleconference was begun at 9:07 a.m. MDT.

2. Review of Agenda

The agenda was approved as presented.

3. Grant Approval

Allen Camp explained that he had heard unofficially that the NRC grant for Probabilistic Risk Assessment (PRA) standards had been approved. A formal response from the U.S. Nuclear Regulatory Commission (NRC) was anticipated shortly. Camp believed that the grant would provide funds for two years and would be available in time to support travel for the June 2009 ANS meeting.

4. Reports from Writing Groups: LPSD, Level 2, Level 3

A. LPSD/ANS-58.22

As a working group member of ANS-58.22, Bob Budnitz provided an update on progress of the low power shutdown (LPSD) standard. He reported that the ANS-58.22 Working Group held a two-day meeting in San Diego in February 2009. This was the first physical meeting in three years. The working group covered a tremendous number of outstanding issues and were on track with assignments. Budnitz stated that the working group anticipated having a revised draft for a third ballot by November 2009.

Budnitz explained that the group debated how the qualitative sections interfaced with other sections. They struggled with three categories for qualitative risk assessment (QLRA) requirements but concluded that they would have to use different definitions to achieve three QLRA categories. The working group was in the process of reviewing the quantitative sections to be consistent with Addendum A of the combined standard as directed by RISC. While the group found this activity straight forward, they had concerns with potential differences in a future Addendum B. Budnitz reminded members that RISC directed the working group to write a stand-alone standard that could be dropped into the combined standard with the exception of renumbering. He clarified that, as RISC had agreed previously, the LPSD standard would not include PRA for accidents during shutdown initiated by fires. The working group will prepare a brief summary on decisions made on certain potential controversial issues to clarify the working group's position for RISC.

Allen Camp said that he felt the LPSD issues were well discussed at the Nov 2008 RISC meeting and questioned how much time was needed on the agenda for the upcoming June meeting for LPSD.

Action Item 04/09-01: Pat Schroeder to check with ANS-58.22 Working Group Chair Don Wakefield to see how much time he felt was needed on the June 2009 RISC agenda to discuss the LPSD standard.

B. Level 2/ANS-58.24

Camp explained that progress on the Level 2 standards project had been slowed due to funding issues. Prior to the conference call, ANS-58.24 Working Group Chair Mark Leonard told Camp that he anticipated a first draft could be completed within a year, perhaps less, once funds were available.

Action Item 04/09-02: Pat Schroeder to check with ANS-58.24 Working Group Chair Mark Leonard to see how much time he felt was needed on the June 2009 RISC agenda to discuss the Level 2 standard.

C. Level 3/ANS-58.25

Camp reported that progress had also been slow on the Level 3 standards project. Previously, ANS-58.25 Working Group Chair Keith Woodard reported to Camp that the working group accepted Carl Mazzola as a new member and that Mazzola had provided additional input. Stanley Levinson noted that the group would meet in Atlanta during the June 2009 ANS meeting and that they anticipated a couple-day meeting in Chicago between June 2009 and November 2009.

Action Item 04/09-03: Pat Schroeder to check with ANS-58.25 Working Group Chair Keith Woodard to see how much time he felt was needed on the June 2009 RISC agenda to discuss the Level 3 standard.

Action Item 4/09-04: Pat Schroeder to send Keith Woodard the comments that were submitted by ANS RISC on ASME's non LWR draft standard along with the draft as some comments were related to the Level 3 standard.

Doug True explained that there may be a need for a standard on large release frequency for advanced light water reactors which could affect the Level 2 & 3 standards. Additionally, True reported that the 2009 NRC Regulatory Information Conference (RIC) held in March provided surprising results from an NRC PRA project called "SOARCA" ("State-of-the-Art Reactor Consequences Analyses") that may impact the Level 2 & 3 projects. The RISC should be kept apprised of both issues.

5. Reports from CNRM liaisons (Budnitz, Levinson)

Bob Budnitz reported that ASME Committee on Nuclear Risk Management (CNRM) had a week-long meeting in San Diego in February 2009. Budnitz stated that he was satisfied with the way CNRM members were responding to RISC input. In every case, all comments were considered thoughtfully. Stanley Levinson agreed with Budnitz. Levinson stated that they did not discuss the joint committee except that the CNRM were informed options were still being

considered. Levinson stated that CNRM suggested having more joint meetings regardless of the formal organization. Camp agreed to work on coordinating joint RISC/CNRM meetings.

Budnitz reported that a few much needed new members were added to the ASME external events working group. CNRM formally voted to appoint this group, and Ravi Ravindra was appointed as chair under ASME. It was confirmed that ANS work under RISC on the individual standards for external events PRA, fire PRA, and LPSD PRA would cease after inclusion in the combined standard and that the respective working groups would be absorbed by ASME.

6. Feedback from NRMCC meeting

Allen Camp reported that the last Nuclear Risk Management Coordinating Committee (NRMCC) meeting was held on March 12, 2009. Camp felt that the NRMCC meeting was fairly uneventful. They discussed their strategic plan and priority of standards needed by the industry. A table was started with standards that could be pursued. Stanley Levinson reported that he reviewed the draft strategic plan and had comments which were provided to the NRMCC. Camp stated that he felt the strategic plan was incomplete.

7. Status of Joint Committee

Allen Camp reported that work was still on-going to develop options for merging the ANS RISC and the ASME CNRM committees. Camp felt that it would be beneficial to form an ad hoc committee to consider options for joint meetings, meeting schedules, priority standards, etc. He planned to discuss this possibility with CNRM Chair Rick Grantom.

8. Risk Informing Standards outside RISC (Budnitz)

Allen Camp reported that there were a lot of standards being developed that were attempting to use risk-informed insights. Bob Budnitz explained that at the November 2008 ANS Standards Board meeting he became aware of other ANS consensus committees developing standards that incorporated risk-informed concepts. In particular, the Nuclear Facilities Standards Committee (NFSC) was involved in developing a risk-informed general safety standard for gas-cooled reactors (ANS-53.1) and possibly other risk-informed projects as well. Budnitz stated that the NFSC would be asked to provide a list of all such projects so that a member of RISC could be suggested for possible assignment to provide guidance. Budnitz plans to attend the June 2009 ANS Standards Board meeting to discuss. He explained that a similar situation was occurring within ASME to enhance existing standards with risk-informed insights. Stanley Levinson injected that the issue went beyond ANS and ASME.

Allen Camp thought that NRMCC may be the place to discuss this issue. Dick Black confirmed that he was working on establishing a new standards developing organization coordinating group among the relevant government agencies and SDOs, which may be able to address some of these issues.

Paul Amico suggested that a subcommittee be formed to review current ANS standards that would benefit from risk-informed insights.

John Gaertner reminded members that they were provided the draft of ANS-53.1, "Nuclear Safety Criteria and Safety Design Process for Modular Helium-Cooled Reactor Plants," for

review and comment. Gaertner explained that he was welcomed to the working group a few years back and provided much support to the group on PRA.

Budnitz reported that DOE's Advanced Fuel Cycle Initiative (AFCI) project (with himself as the responsible person for DOE) was urging the ANS to start planning on initiating a parallel standard to ANS-53.1 on liquid metal reactors. The project would be a revision of historical ANSI/ANS-54.1-1989, "General Safety Design Criteria for a Liquid Metal Reactor Nuclear Power Plant." Budnitz anticipated that the project would be initiated in about six months. RISC members would be solicited to participate.

9. Plans for June Meeting

Camp asked for items to be put on the agenda for the next meeting. He anticipated the agenda to include working group updates, Standards Board information, and possibly the NRMCC strategic plan.

Action Item 4/09-05: RISC members to notify Allen Camp of items that need to be put on the June 2009 RISC meeting agenda.

Action Item 4/09-06: Pat Schroeder to request that working group chairs provide advanced notice of items that need action/decisions by RISC at the June 2009 meeting.

10. Adjourn

The conference call was adjourned at 10: 21 a.m. MDT.