

May 25, 2007

MEMORANDUM TO: Allen G. Howe, Chief
Electronic Instrumentation and Control Branch
Division of Engineering
Office of Nuclear Reactor Regulation

FROM: Girija S. Shukla, Project Manager **/RA/**
Special Projects Branch
Division of Policy and Rulemaking
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF THE APRIL 11-12, 2007, MEETING WITH INDUSTRY REPRESENTATIVES AND THE RISK-INFORMING DIGITAL INSTRUMENTATION AND CONTROL (I&C) TASK WORKING GROUP (TWG) TO DISCUSS ISSUES RELATED WITH RISK-INFORMING DIGITAL I&C REVIEWS AND THE ASSOCIATED PROJECT

On April 11-12, 2007, the U.S. Nuclear Regulatory Commission (NRC) Digital Instrumentation and Controls (Digital I&C) Risk Issues Task Working Group (TWG) and industry representatives of the Digital I&C Project held a Category 2 public meeting at the NEI Offices in Washington, DC. The purpose of the meeting was to discuss issues related with risk-informing digital I&C reviews and the associated project. A summary of the meeting discussion is provided below.

During the one and half day meeting, the TWG had discussions with the industry on the updated project plan and problem statements. Several presentations were also made by the NRC staff and the industry representatives on the following topics.

- Review of Traditional Methods for Modeling Digital Systems (NRC) (ML071380105)
- General Issues and Questions on DC and COL Modeling Issues (NRC) (ML071380100)
- Risk Informing Digital I&C TWG Project Plan (NRC) (ML071380107)
- Digital I&C Task Working Group Assessing Digital System Risk Short Term Task (NRC) (ML071380096)
- Dynamic Reliability Modeling of Digital Instrumentation and Control Systems for Nuclear Reactor Probabilistic Risk Assessments (NRC) (ML071380091)
- DC and COL Modeling Issues (Areva) (ML071380109)
- Sensitivity of PRA Results to Modeling/Quantification of Digital I&C (EPRI) (ML071380056)
- Defensive Measures in Digital Systems (EPRI) (ML071380059)
- D3 in Nuclear Plant Context Realistic Plant Behavior and "Echelons of Defense" (EPRI) (ML071380073)
- Simplified Screening Method for Generating Digital I&C Risk Insights (EPRI) (ML071380081)
- Estimating Digital System Reliability for PRA (EPRI) (ML071380089)

Meeting Conclusion

At the conclusion of the meeting, the NRC staff emphasized that the NRC staff and industry representatives should work together to achieve timely resolution of digital I&C issues to support the overall project plan.

- Complete the development of the project plan and to ensure that the problem statement and goals are clearly-defined.
- That the problem statement, goals and schedules will support task working group (TWG) deliverables.

The NRC staff and industry representatives agreed on the importance of interacting at each step to ensure that NRC and industry needs are understood.

Summary Of Action Items Assigned

The following key action items were assigned during the meeting:

- Industry:
 - Industry will provide the NRC a white paper on problem statement No. 1. Industry expects to have a draft available for the next meeting on May 30.
 - Industry will provide the NRC a white paper on recommendations how the simplified approach would fit within the context of the overall regulatory framework (including BTP-19, SECY 93-087, the associated SRM, and current policy and guidance on use of risk insight).
 - Industry will provide input on specific applications in order to help define priorities and focus the guidelines/criteria.
 - Industry will provide comments on the information about how traditional approaches could be applied.
- NRC:
 - NRC is planning to have an expert panel review the work on using traditional methods. Ken Canavan (EPRI) will be the industry representative on the panel.
 - May 30, 2007, will be the next meeting date. Problem statements 1 and 2 are to be the main focus with problem statement No.1 as the primary target for the meeting.

The meeting notice with the agenda can be found via the Agencywide Documents Access and Management System (ADAMS) Accession Number ML070860190. Accession Numbers for the NRC staff and industry presentations are provided with their titles in this summary. Please direct any inquiries to Girija Shukla at 301-415-8439, or gss@nrc.gov.

Enclosure: List of Attendees

cc w/encl: See next page

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ATTENDEES

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INSTRUMENTATION AND CONTROL TWG TO DISCUSS ISSUES RELATED WITH RISK-
INFORMING DIGITAL I&C REVIEWS AND THE ASSOCIATED PROJECT

APRIL 11-12, 2007

INDUSTRY:

Tony Harris	- NEI
Ray Torok	- EPRI
Nguyen Thuy	- EPRI/EDF
Scott Patterson	- PG&E
Patric Troy	- Lockheed Martin
Dave Blanchard	- AREI
Yumi Kawanago	- Mistubishi
Ken Canavan	- EPRI
Kimberly Keithline	- NEI
Jim Riley	- NEI
David Herrell	- MPR

NRC

Girja Shukla	
Steven Arndt	
Alan Kuritzky	
Ronaldo Jenkins	
Todd Hilsmeier	
Allen Howe	
Cliff Douth	
Geraldo Martinez	(BNL)
Tsong Chu	(BNL)
John Lehner	(BNL)
Tunc Aldemir	(OSU)