

June 18, 2008

MEMORANDUM TO: Deborah A. Jackson, Chief  
Technical Support Branch  
Special Projects and Technical  
Support Directorate  
Division of Fuel Cycle Safety  
and Safeguards  
Office of Nuclear Material Safety  
and Safeguards

FROM: David L. Rahn, Sr. I&C Engineer  
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Special Projects and Technical     /RA/  
Support Directorate  
Division of Fuel Cycle Safety  
and Safeguards  
Office of Nuclear Material Safety  
and Safeguards

SUBJECT: SUMMARY OF THE MAY 29, 2008: CATEGORY 2, PUBLIC  
MEETING AND TELECONFERENCE WITH THE NUCLEAR  
ENERGY INSTITUTE AND INDUSTRY TO DISCUSS TASK  
WORKING GROUP #7, DIGITAL INSTRUMENTATION AND  
CONTROL FOR FUEL CYCLE FACILITIES

On May 29, 2008, Task Working Group (TWG) #7, held a Category 2, public meeting and teleconference to discuss various issues related to fuel cycle facility digital instrumentation and control problem statements and proposed licensing methodology.

A discussion was held regarding comments received on the first draft of the proposed Interim Staff Guidance (ISG) that addresses Problem Statement 3, pertaining to the staff's position on the independence of control measures used for items relied on for safety (IROFS) in criticality prevention applications. Nine sets of comments were received on the first draft, which are now being incorporated into the ISG. Two NRC staff members made comments that the introduction and background section of the ISG contained unnecessary information defining much of the terminology used in the draft guidance. The members of the TWG disagreed with this comment and remarked that the level of detail within the introductory material seemed to be appropriate.

Mr. Clifford Doult of the Office of Nuclear Reactor Regulation, Division of Risk Assessment, who provided one of the nine sets of comments on Problem Statement 3, was in attendance at the

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meeting. The Division of Risk Assessment has an interest in assuring that terminology used to specify event likelihoods and risk reduction capabilities are used in a consistent manner throughout agency publications. Mr. Doult provided a number of helpful suggestions for clarifying the guidance in this draft, and was interested in any guidance that was being proposed regarding digital systems applications used in conjunction with the performance of a Layer of Protection Analyses and/or determining required safety integrity level for a facility's control system.

A discussion was held regarding the development of ISG addressing Problem Statement 5, "Review Guidance for Software Quality," which provides staff guidance regarding acceptable means of addressing software quality for control measures used as IROFS. Industry participants provided background on which standards were used in the development of each facilities software review procedures. A first-draft version of this document has been distributed at the previous TWG#7, meeting held in April. D. Rahn requested TWG members and industry participants to provide formal comments on this draft. In addition, Mr. Rahn requested TWG members and industry participants to provide comments on the first draft of the ISG for Problem Statement 1, on Cyber Security, that had been transmitted to the members on May 28, 2008.

Finally, Mr. Rahn requested Nuclear Energy Institute (NEI) to re-review their original White Paper (entitled "Digital Control Systems") prepared in July, 2007, regarding their specific assessment of needs for ISG, to ascertain whether the guidance being planned within TWG #7, is still on track, or whether there are any other items that should be included in the plans for TWG activities that have not yet been planned.

The next public meeting will be a teleconference to be held Wednesday, June 25, 2008.

#### ACTION ITEMS

Item	Description	Responsibility
1.	Continue to review the draft ISG and provide further comments to Nuclear Regulatory Commission (NRC) staff regarding proposed criteria. Ascertain whether it is reasonable to use this type of criteria for developing estimates of overall control system reliability for criticality prevention applications	Industry Participants NEI
2.	Incorporate NEI/Industry comments as appropriate into the draft ISG for Problem Statement 3	NRC Staff
3.	Provide comments on Problem Statement 5 -- software quality guidelines for fuel facilities	All
4.	Schedule visits with fuel facilities	David Rahn
5.	Provide Comments on Problem Statement 1 regarding cyber security aspects of fuel cycle facilities for presentation at next meeting	All

PARTICIPANTS

NRC and external stakeholders, including members of NEI, industry representatives, consultants to the nuclear industry, and interested members of the Public:

NRC

David Rahn  
Clifford Douth

Industry

Ed Prytherch, Westinghouse\*  
Steve Powers, AREVA\*  
Janet Schlueter, NEI  
Felix Killar, NEI  
Charlie Vaughan, GNF\*

\* Attended via teleconference

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NRC and external stakeholders, including members of NEI, industry representatives, consultants to the nuclear industry, and interested members of the Public:

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Felix Killar, NEI  
Charlie Vaughan, GNF\*

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