

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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SUBJECT: SUMMARY OF THE APRIL 30, 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 April 30, 2008, Task Working Group (TWG) #7, held a Public Meeting and teleconference to discuss various issues related to fuel cycle facility digital instrumentation and control problem statements and proposed licensing methodology.

U.S. Nuclear Regulatory Commission (NRC) staff personnel briefed industry participants on the status of activities NRC is undertaking with regard to the identification of requirements for licensees when addressing cyber security for their facilities.

A discussion was held regarding the first draft of the proposed Interim Staff Guidance (ISG) that addresses Problem Statement 3 pertaining to the staff position on the independence of control measures used for items relied on for safety (IROFS) in criticality prevention applications. This draft guidance provides definitions NRC staff use when evaluating licensee evaluations of the likelihood of events and definitions used for evaluating system reliability. It also provides a preliminary discussion of the basis for evaluating, in both qualitative and quantitative terms,

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the overall reliability of proposed control systems used as control measures for meeting the double contingency criteria needed for criticality prevention. Nuclear Energy Institute (NEI) and industry generally agreed with the approach described in the ISG, and will further review and provide additional comments before the next public meeting.

Finally, NRC staff discussed the development of 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 information on standards that are used in the development of their own facility software review procedures. A first-draft version of this document was distributed to those present. Mr. Wilkins Smith informed the group that the Subcommittee on Engineering and Procurement Processes from the ASME Committee on Nuclear Quality Assurance has prepared revisions to applicable software quality sections of NQA-1, "Quality Assurance Requirements for Nuclear Facility Applications," which have now been issued for comments as part of NQA-1-2008. Aspects of this revision may be pertinent to fuel cycle facility control system software development processes, and should be reviewed for potential incorporation into the interim staff guidance.

The next public meeting will be held Thursday, May 29, 2008.

ACTION ITEMS

Item	Description	Responsibility
1.	Continue to review the draft ISG and provide further comments to 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/suggestions on software quality guidelines for fuel facilities	All
4.	Schedule visits with fuel facilities	NRC Staff
5.	Begin draft ISG regarding cyber security aspects of fuel cycle facilities for presentation at next meeting	David Rahn

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
Denise Edwards
Wilkins Smith

Industry

Ed Prytherch, Westinghouse
Steve Powers, AREVA*
Gordon Clepton, NEI*
Charlie Vaughan, GNF*

* Attended via teleconference

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