

July 26, 2007

MEMORANDUM TO: W. E. Kemper, Chief  
Electrical Instrumentation and Controls 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 JULY 5, 2007, MEETING WITH INDUSTRY  
REPRESENTATIVES AND THE DIGITAL INSTRUMENTATION AND  
CONTROLS (DIGITAL I&C) HIGHLY INTEGRATED CONTROL ROOM  
– COMMUNICATIONS ISSUES TASK WORKING GROUP (TWG) TO  
DISCUSS ISSUES RELATED WITH THE DIGITAL I&C PROJECT

On July 5, 2007, the U.S. Nuclear Regulatory Commission (NRC) Digital I&C Highly Integrated Control Room – Communications (HICR – Communications ) Issues Task Working Group (TWG) and industry representatives of the Digital I&C Project held a Category 2 public meeting at NEI headquarters in Washington, D.C. The purpose of the meeting was to discuss HICR – Communications issues related to the Digital I&C project. A summary of the meeting discussion is provided below.

During the meeting, the TWG had discussions with the industry on the revised Project Plan, interim staff guidance, and the updated schedule. Also, discussions and presentations were made by the NRC staff and the industry representatives on the following topics:

- NRC Staff Requirements Memorandum (SRM) No. M070607, dated June 22, 2007 (ML071730241)
- NRC Revised HICR– Communications TWG Project Plan (ML072060341)
- NRC Draft Interim Staff Guidance (ML072060346)
- Industry Paper on Real-Time Electronic Control Systems (ML072060349)  
(Please note that industry did not provide a white paper on “Communication protocols.” This paper was more of a tutorial on networks and additional information is needed to establish design guidance for this technical area.)
- Industry Comments on NRC draft guidance documents (ML072060352)

#### Summary of Action Items Assigned

The following key action items were assigned during the meeting:

- Industry:
  - Industry will provide white paper on design aspects of communication protocol.

- Industry will provide input on Prioritization Module (Safe State Vs. Safety-Related Priority)
- Industry will provide input on Multidivisional Control and Display Workstation Failure Modes and Affects on the Plant during a Seismic and EMI Event.
- Industry will provide comments on the NRC draft Interim Staff Guidance.
- NRC:
  - The NRC staff will provide the industry with the NRC draft Interim Staff Guidance.
  - The NRC staff will set up the next HICR – Communications meeting for July 27, 2007.

Following the meeting, the NRC staff expressed its appreciation to the industry for their participation and comments. An attendance list is provided in the enclosure. The meeting agenda can be found via the Agencywide Documents Access and Management System (ADAMS), Accession Number ML071520507. 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](mailto:gss@nrc.gov).

Enclosure: List of Attendees

DISTRIBUTION:

PUBLIC	RidsNrrAdro	RidsNrrDpr	RidsNrrDprPspb	
RidsNrrDe	RidsNrrDeDpr	P. Hiland	K. Corp	B. Sosa
R. Beacom	P. Rebstock	W. Kemper	M. Waterman	W. Smith
G. Shukla	S. Rosenberg			

External E-mail

[KAK@NEI.ORG](mailto:KAK@NEI.ORG)

[JR@NEI.ORG](mailto:JR@NEI.ORG)

[WESLEY.BOWERS@EXELONCORP.COM](mailto:WESLEY.BOWERS@EXELONCORP.COM)

[RJARRETT@TVA.GOV](mailto:RJARRETT@TVA.GOV)

- Industry will provide input on Prioritization Module (Safe State Vs. Safety-Related Priority)
- Industry will provide input on Multidivisional Control and Display Workstation Failure Modes and Affects on the Plant during a Seismic and EMI Event.
- Industry will provide comments on the NRC draft Interim Staff Guidance.
- NRC:
  - The NRC staff will provide the industry with the NRC draft Interim Staff Guidance.
  - The NRC staff will set up the next HICR – Communications meeting for July 27, 2007.

Following the meeting, the NRC staff expressed its appreciation to the industry for their participation and comments. An attendance list is provided in the enclosure. The meeting agenda can be found via the Agencywide Documents Access and Management System (ADAMS), Accession Number ML071520507. 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](mailto:gss@nrc.gov).

Enclosure: List of Attendees

**DISTRIBUTION:**

PUBLIC	RidsNrrAdro	RidsNrrDpr	RidsNrrDprPspb	
RidsNrrDe	RidsNrrDeDpr	P. Hiland	K. Corp	B. Sosa
R. Beacom	P. Rebstock	W. Kemper	M. Waterman	W. Smith
G. Shukla	S. Rosenberg			

External E-mail

[KAK@NEI.ORG](mailto:KAK@NEI.ORG)

[JR@NEI.ORG](mailto:JR@NEI.ORG)

[WESLEY.BOWERS@EXELONCORP.COM](mailto:WESLEY.BOWERS@EXELONCORP.COM)

[RAJARRETT@TVA.GOV](mailto:RAJARRETT@TVA.GOV)

ADAMS ACCESSION NO. **ML072060361**

OFFICE	NRR/DPR/PSPB/PM	NRR/DE/EICA/BC
NAME	GShukla	WKemper
DATE	7/ 26 / 2007	7 / 26 / 2007

**OFFICIAL RECORD COPY**

ATTENDEES

MEETING WITH INDUSTRY REPRESENTATIVES AND THE DIGITAL I&C  
HIGHLY INTEGRATED CONTROL ROOM – COMMUNICATIONS ISSUES  
TASK WORKING GROUP

JULY 5, 2007

INDUSTRY:

Jim Riley	NEI	
James Ross	NEI	
Kimberly Keithline	NEI	
Jennifer Thurkins	Westinghouse	
Ken Scarola	MNES-NAE	
Ron Jarrett	TVA	
Tom Hayes	Westinghouse	
David Herrell	MPR	
Jerry Mack	STP	(On Phone)
Dan Chase	Sciencetech	(On Phone)
Shelby Small	AREVA	(On Phone)

NRC:

William Kemper	
Michael Marshall	
Girja Shukla	
Royce Beacom	
Paul Rebstock	
Gus Singh	
David Rahn	
Richard Wood	ORNL

ENCLOSURE