

August 21, 2007

MEMORANDUM TO: Michael L. Marshall, Jr., Chief
Technical Specifications Branch
Division of Construction Inspection and Operational Programs
Office of New Reactors

FROM: Diana Diaz Toro, Project Manager **/RA/**
Electrical Instrumentation and Controls Branch
Division of Engineering
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF AUGUST 8, 2007, MEETING WITH INDUSTRY
REPRESENTATIVES AND THE DIGITAL INSTRUMENTATION AND
CONTROLS HIGHLY INTEGRATED CONTROL ROOM - HUMAN
FACTORS TASK WORKING GROUP TO DISCUSS PROBLEM
STATEMENTS AND PROJECT PLAN

On August, 8, 2007, the U.S. Nuclear Regulatory Commission (NRC) Digital Instrumentation and Controls (I&C) Highly Integrated Control Room (HICR) – Human Factors Task Working Group (TWG) and industry representatives held a Category 2 public meeting. The purpose of the meeting was to discuss HICR – Human Factors problem statements and plan related to the Digital I&C project.

During the meeting, the NRC staff discussed the purpose and technical content of the draft Interim Staff Guidance (ISG) on Minimum Inventory of Human System Interfaces (ML072320259) as well as the Computer-Based Procedures and Soft Controls draft ISG (ML072320254). NEI transmitted industry comments on both draft ISGs (ML072320267 and ML072320262, respectively), which were also discussed in open dialogue with NRC staff.

The Minimum Inventory of Human System Interfaces draft ISG discussions with were focused on: (i) the minimum inventory definition, (ii) the development of Tier 2* level information, and (iii) the acceptance criteria including the scope of the Generic Technical Guidelines, the analysis of operators actions, the design of I&C architecture, and the concepts of operations.

Discussions regarding the Computer-Based Procedures draft ISG were focused on the definition of pre-defined hold points, the level of automation, situation awareness, backup procedures, and soft control behavior.

Several topics in the agenda were not discussed during the meeting. The topics included: (i) Industry Minimum Inventory Draft Report, (ii) Industry Computerized Procedures Draft Report, and (iii) Industry Graded Approach Draft Report. The NRC staff and industry representatives agreed that discussions about these topics would be postponed to a later time, potentially after the issuance of the final ISGs.

Summary of Action Items

The following key action items were assigned during the meeting:

- Industry:
 - The industry agreed to provide additional information about the following topics: (i) Tier 2* level information, (ii) Analysis of operator actions, and (iii) Design of I&C architecture. The written input is expected by Friday, August 10, 2007.
- NRC:
 - The NRC staff will organize the next HICR – Human Factors meeting, to be conducted via teleconference, for August 16, 2007.
 - The NRC staff will consider industry's comments on the draft ISGs and incorporate where appropriate. A revised version of the Minimum Inventory of Human System Interfaces Draft ISG as well as the Computer-Based Procedures and Soft Controls draft ISG will be publicly available on the Digital I&C website for stakeholder's review and comments before the next public meeting on August 16, 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 notice and agenda can be found via the Agencywide Documents Access and Management System (ADAMS), Accession Number ML071980431. Please direct any inquiries to Diana Diaz Toro at 301-415-3135, or ddt1@nrc.gov.

Enclosure: List of Attendees

cc w/encl: See next page

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ATTENDEES

MEETING WITH INDUSTRY REPRESENTATIVES AND THE DIGITAL INSTRUMENTATION
AND CONTROLS HIGHLY INTEGRATED CONTROL ROOM - HUMAN FACTORS
TASK WORKING GROUP

AUGUST 8, 2007

INDUSTRY:

Msafumi Utsumi	MHI
Gil Remley	MHI
Satoshi Hanada	MNES
Christopher Kerr	Exelon
R. Alvarado	MPR Associates
Kimberly Keithline	NEI
Beth Vail	WGI
Ken Scarola	MHI-NAE
Bob Fuld	Westinghouse
Bob Fink	CDF Services, Inc.
Joseph Naser	EPRI
Tony Harris	STARS
C. David Ford	Washington Group
Frank Quinn	STP 3/4

NRC:

Michael Marshall	NRO
Norbert Carte	NRO
Cindy Montgomery	NRR
Gene Imbro	NRO
Belkys Sosa	OEDO
Debbie Chan	NRO
George Lapinsky	NRR
Michael Junge	NRO
Stephen Pierre	NRR
Ian Jung	NRO
J. Persensky	RES
Marta Barrientos	RES
Michael Boggi	RES
James Smith	NMSS
James Bongarra	NRO
Jose Ibarra	RES
Diana Diaz Toro	NRR

ENCLOSURE