

November 15, 2007

MEMORANDUM TO: Ian Jung, Chief  
Instrumentation, Controls & Elect. Eng. Branch 2  
Division of Engineering  
Office of New Reactors

FROM: Jay E. Robinson, Project Manager */RA/*  
Generic Communications and Power Uprate Branch (PGCB)  
Division of Policy & Rulemaking  
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF CATEGORY 2 PUBLIC MEETING WITH THE NUCLEAR  
ENERGY INSTITUTE (NEI) AND NUCLEAR POWER INDUSTRIES  
REGARDING DIVERSITY AND DEFENSE-IN-DEPTH DIGITAL  
INSTRUMENTATION AND CONTROL ISSUES (TASK WORKING  
GROUP MEETING)

On October 25, 2007, Nuclear Regulatory Commission (NRC) staff met with representatives of NEI, in a public meeting at NRC headquarters in Rockville, Maryland. Enclosure 1 provides a list of those in attendance and individuals who participated via teleconference. Enclosure 2 is the meeting agenda. Information presented by the NRC and NEI at the meeting is available in the NRC Agencywide Documents Access and Management System (ADAMS) under Accession Nos. ML073190128 and ML073190141.

The purpose of this meeting was to discuss current Digital Instrumentation and Control (DI&C) issues and work on problem resolution relevant to Diversity and Defense-in-Depth.

A public meeting notice was issued on October 9, 2007 and was posted on the NRC's external (public) web page (ADAMS Accession No. ML072820414). Agenda items for the meeting included: Status of White Papers/Comments on the Project Plan; Discussion of Interim Staff Guidance on Diversity and Defense-In-Depth Problem Statements; and, Discussion of Longer Term Issues.

A representative of the NRC opened the meeting which was followed by opening remarks from representatives of both the NRC and NEI.

The finality of the Interim Staff Guidance (ISG) and future potential license applications regarding DI&C were discussed. Methods for capturing lessons learned and providing feedback were also discussed.

The possibility of a joint meeting between TWG #3 Risk Informing DI&C and TWG #2 was discussed.

Representatives of the NEI indicated that they welcomed participating in this meeting of TWG #2 and discussed a possible target date to revise the ISG. Representatives of the NRC responded and indicated that there was no target date to issue revisions to the ISG. Additionally, representatives of NEI discussed when the Interim Staff Guidance might become final.

Representatives of the NRC indicated that there was no specific schedule for issuance of final guidance at this time but stated that the intention is to finalize the guidance in the form of the updated Standard Review Plan or Regulatory Guide in 2008 or 2009 time frame

Representatives of the NEI discussed that NRC should consider a rule change to 10 CFR 50.55a(h) to reference the current version of Institute of Electrical and Electronics Engineers, Inc. (IEEE) Std 603, "IEEE Standard Criteria for Safety Systems for Nuclear Power Generating Stations," which is an incorporated reference in 10 CFR 50.55a(h). The version referenced in 10 CFR 50.55a(h) is the 1991 version. The current version is the 1998 version.

Representatives of the NRC presented a progress report on TWG #2 (Presentation 1, ADAMS Accession No ML073190128). The presentation included discussions on comments on the common cause failure (CCF) white paper; diversity strategy development; and Advisory Committee on Reactor Safeguards (ACRS) recommendations.

Representatives of the NEI presented information on Defense-In-Depth and Diversity Issues (Presentation 2, ADAMS Accession No. ML073190141) including Adequate Diversity; Manual Operator Actions; Branch Technical Position (BTP) 19, Position 4; Effects of CCF; CCF Applicability; Echelons of Defense; and Single Failure.

The delivery date for the paper on Adequate Diversity was discussed which is estimated to be late November, 2007. Representatives of the NEI indicated that draft industry guidance on diversity/defensive measures approach would take approximately 3 months after they receive the Adequate Diversity paper.

The delivery date for the CCF white paper was discussed which is estimated to be mid to late 2008.

Representatives of the NEI indicated that they are still working on a Pilot Plant agreement with a NRC licensee.

Representatives of the NRC stated that if NEI has comments or feedback on any Defense-In-Depth and Diversity issues that they should be submitted through the NRC's DI&C public web site/e-mail address.

Future meetings of TWG #2 were discussed and representatives of the NRC indicated that future meetings would be held on a case by case basis such as after the submission of white paper. The next meeting will probably be in January and will most likely include a discussion of the results of the Operating Experience (OE) evaluation.

Enclosure 1: List of Attendees

Enclosure 2: Agenda

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Enclosure 1: List of Attendees  
Enclosure 2: Agenda

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**ADAMS ACCESSION NO. ML073190121**

**Package: ML073190115      Presentation 1: ML073190128**

**Presentation 2: ML073190141**

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DATE	11/15/2007	11/15/2007

**OFFICIAL RECORD COPY**

List of Attendees for October 25, 2007 Public Meeting  
of Digital Instrumentation and Control, Task Working Group 2, Diversity and Defense-in-Depth

NAME	ORGANIZATION
Gordon Cleffton	NEI
Masafumi Utsumi	MHI
Peter Lobner	DS&S
Tom Hayes	Westinghouse
Jim Riley	NEI
Jerry Marx *	STP
Ray Torok *	EPRI
Dave Blanchard *	AERI
Mike Heron	GE-H
Dave Hooten *	Progress Energy
Ron Jarett *	
Scott Patterson *	PG&E
Sean Smith	Lockheed Martin
Mike Waterman	NRC
Ian Jung	NRC
Eugene O. Eagle Jr.	NRC
Bill Roggenbrodt	NRC
Cliff Douth	NRC
Paul Loeser	NRC
Malcolm Patterson	NRC
Jay Robinson	NRC

\* Participated Via Teleconference

AGENDA FOR THE OCTOBER 25, 2007, PUBLIC MEETING BETWEEN NUCLEAR POWER  
INDUSTRIES AND THE NRC REGARDING DIVERSITY AND DEFENSE-IN-DEPTH

<u>Time</u>	<u>Topic</u>	<u>Lead</u>
0900	Introductory Remarks	NRC
0905	Review of Previous Action Items	NRC/NEI
0915	Status of White Papers/Comments on the Project Plan	NEI
0930	Discussion of Draft Interim Staff Guidance on Diversity and Defense-in-Depth Problem Statements	NRC/NEI
1145	Opportunity for Public Comment	NRC
1200	Adjourn	NRC