

28 September 2007

Mr. Alexander Marion, Executive Director
Nuclear Operations & Engineering
Nuclear Energy Institute
1776 I Street, NW, Suite 400
Washington, DC 20006-3708

Dear Mr. Marion:

The purpose of this letter is to provide you with the U.S. Nuclear Regulatory Commission's (NRC's) Digital Instrumentation and Control (I&C) Interim Staff Guidance (ISG) addressing the application of digital technology to operating and new nuclear power reactors and fuel cycle facilities.

Consistent with the Project Plan dated July 12, 2007 (ML071900253), the digital I&C Task Working Groups (TWGs) have been continuously working with their industry counterparts to develop ISGs to refine, enhance, and clarify existing guidance. The approved ISGs will help guide NRC's reviewers in their reviews of digital I&C technology, and will be in effect until they are further refined and incorporated, as appropriate, into revisions of applicable regulatory documents.

Enclosed for your information are copies of the finalized digital I&C ISGs to date:

DI&C-ISG-02, *Diversity and Defense-in-Depth* (ML072540118)
DI&C-ISG-04, *Highly-Integrated Control Room - Digital Communication Systems*
(ML072540138)
DI&C-ISG-05, *Highly-Integrated Control Room - Human Factors* (ML072540140)

The above ISGs do not convey a change in the NRC's regulations or how they are to be interpreted. Since the ISGs provide documentation of the existing acceptance review criteria associated with existing regulations, the NRC staff did not perform a backfit evaluation as no backfits are imposed by the enclosed ISGs.

If you have any questions, please contact me at 301-415-1274.

Sincerely,

John A. Grobe, Associate Director
for Engineering and Safety Systems
Office of Nuclear Reactor Regulation

Enclosures: As stated
cc w/enclosures: See next page

cc:

Mr. Alexander Marion (NEI)
am@nei.org

Mr. James Riley, Director of Engineering
Nuclear Energy Institute
1776 I Street, NW, Suite 400
Washington, DC 20006-3708
jhr@nei.org

Mr. Tony Harris
Nuclear Energy Institute
1776 I Street, NW, Suite 400
Washington, DC 20006-3708
kah@nei.org

Ms. Kimberly Keithline
Nuclear Energy Institute
1776 I Street, NW, Suite 400
Washington, DC 20006-3708
kak@nei.org

Jack Roe (NEI)
jwr@nei.org

Jeff Stone (Constellation)
Jeffrey.L.Stone@constellation.com

Ken Canavan(EPRI)
kcanavan@epri.com

Matt Gibson (Progress)
Matt.gibson@pgnmail.com

Ken Scarola (MHI)
kenscarola@nuclearautomation.com

Ray Torok (EPRI)
rtorok@epri.com

Ron Jarrett (TVA)
rajarrett@tva.gov

Wes Bowers
wesley.bowers@exeloncorp.com

Joe Naser (EPRI)
jnaser@epri.com

Mr. Alexander Marion, Executive Director

Mike Schoppman (NEI)
mas@nei.org

Jim Fisicaro (NEI)
jif@nei.org

Mitch Lucas, TXU
mlucas3@txu.com

Rick Libra, DTE
librar@dteenergy.com

Chuck Welty, EPRI
cwelty@epri.com

Mike Miller, Duke
mhmiller@duke-energy.com

Scott Patterson, PG&E
SBP1@pge.com

Larry Erin, Westinghouse
erinle@westinghouse.com

Bob Gill, Duke
rlgill@duke-energy.com

Bob Enzinna, Areva
Bob.Enzinna@areva.com

Rick Wachowiak, GE
Richard.Wachowiak@gene.ge.com

Jay Amin, TXU
jamin1@txu.com

Frank Arcella, Constellation
Frank.D.Arcella@constellation.com

Manny Moe, GE
manolo.moe@ge.com

[illegible]