

October 2, 2014

MEMORANDUM TO: Anthony J. Mendiola, Chief  
Licensing Processes Branch  
Division of Policy and Rulemaking  
Office of Nuclear Reactor Regulation

FROM: Jonathan G. Rowley, Project Manager /RA/  
Licensing Processes Branch  
Division of Policy and Rulemaking  
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF JUNE 4, 2014, PUBLIC MEETING TO DISCUSS  
THE STATUS OF INDUSTRY RESOLUTION OF OPEN-PHASE  
CONDITION DESIGN VULNERABILITY

On June 4, 2014, a public meeting was held between the U.S. Nuclear Regulatory Commission (NRC) staff, representatives from the Nuclear Energy Institute (NEI), and other nuclear power industry stakeholders. The purpose of this meeting was to discuss the status and path forward to resolve the open-phase condition design vulnerability. During the public meeting, the NRC staff discussed the regulatory requirements concerning the resolution of open-phase design vulnerability in the electric power system that could disable both the onsite and offsite power systems. The NRC staff also discussed the proposed draft Branch Technical Position (BTP 8-9) which was published in the *Federal Register* on June 5, 2014, for public comment and the proposed draft Interim Enforcement Policy which provides enforcement discretion from applicable regulations if permanent corrective actions are completed by December 31, 2017. The NRC staff requested that any comments to these documents be provided by July 21, 2014. The NRC staff also acknowledged that the NRC has received the NEI white paper related to the subject dated March 21, 2014. The NRC staff is currently reviewing it and will issue its response. The industry representatives provided the status and progress of the proposed resolution to the open-phase conditions. In addition, representatives from the Tennessee Valley Authority (TVA) and the Electric Power Research Institute (EPRI) discussed an open-phase detection field validation test. During this meeting the NRC staff addressed the comments and questions from the industry.

A list of attendees is enclosed. The slide presentation presented by the NRC staff can be found in the Agencywide Documents Access and Management System (ADAMS) at Accession Number ML14248A276. The TVA presentation can be found in ADAMS at Accession Number ML14248A273. The NEI presentation can be found in ADAMS at Accession Number ML14248A274. The EPRI presentation can be found in ADAMS at Accession Number ML14248A275.

Project No. 669

Enclosure:  
List of Attendees

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DATE	9 / 19 /14	9/23/14	9/26/14	10/2/14	10/2/14

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STATUS OF INDUSTRY RESOLUTION OF OPEN-PHASE CONDITION DESIGN  
VULNERABILITY:

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List of Attendees

**Meeting to Discuss the Resolution of the Open-Phase Condition Design Vulnerability**

June 4, 2014

<b>Name</b>	<b>Organization</b>
Madan Goel	American Electric Power
David White*	AREVA Inc.
Bakri Abdelaziz*	AREVA Inc.
Robert Doyle*	Arizona Public Service
Nancy Chapman*	Bechtel
David Swanson*	Black & Veatch
Loren Canady*	Black and Veatch
Leon Rafner*	Certrec Corporation
John Carter	Dominion Power
Kevin Fields	Dominion Power
Brian Morrison	Dominion Power
Raj Patel*	Dominion Power
Tom Shaub*	Dominion Power
Francisco Velez*	Dominion Power
Jordan Vaughan	Duke Energy
Paul Colaianni	Duke Energy
James Stoner*	Duke Energy
Mari Jaworsky*	Duke Energy
Wesley Kijowski*	Duke Energy
James Thornton*	Duke Energy
Neal Simmons*	Duke Energy
Bob Kitchen*	Duke Energy
Jon Thorpe*	Duke Energy
Ken Pigg*	Duke Energy
Steven Fox*	Duke Energy
Wayne Johnson	Electric Power Research Institute
Robert Arritt	Electric Power Research Institute
Greg Franklin	Electric Power Research Institute
Richard Garcia*	Energy Northwest
David Kennedy*	Entergy
Swapn Das*	Entergy
Ricky Tran*	Entergy
David Rieger*	Entergy
Gregory Norris*	Entergy
Hector Quinonez*	Entergy
Monte Morris*	Entergy
Mohamed Mustafa*	Entergy
Scot Greenlee	Exelon Nuclear
Kirk Robbins	Exelon Nuclear

\* Participated via audio conferencing or webinar

ENCLOSURE

<b>Name</b>	<b>Organization</b>
Mitch Mathews	Exelon Nuclear
Bob Stark*	Exelon Nuclear
Frank Mascitelli*	Exelon Nuclear
M. San*	Exelon Nuclear
Cory Johnson*	Exelon Nuclear
Michael Chan*	Fermi
Michael Berg*	First Energy Corporation
Bob Corbett*	First Energy Corporation
Raymond Burski*	Florida Power and Light
Vasant Patel*	Florida Power and Light
Terry McCool*	Florida Power and Light
Alain Deleon*	Florida Power and Light
Ayodele Ishola-Salawu*	Florida Power and Light
Mike Dixon*	Florida Power and Light
Bill Maher*	Florida Power and Light
Shawn Simon	Institute of Nuclear Power Operations
Stephen Copeland*	Luminant Power
Ryan Sprengel*	Mitsubishi
Robert Carritte	MPR Associates
Mohit Malik	MPR Associates
Sadhya Madan	MPR Associates
Howard Onorato*	NextEra Energy
Fred Domke*	NextEra Energy
Timothy Lensmire*	NextEra Energy
Michael Rosseau*	NextEra Energy
Scott Head	NINA
Evans Heacock	NINA
Sheila Ray	U.S. Nuclear Regulatory Commission (NRC)
Jonathan Rowley	NRC
Robert Daley	NRC
Jacob Zimmerman	NRC
Roy Mathew	NRC
Patrick Hiland	NRC
John Wray	NRC
Jonathan DeGange	NRC
Michael Miernicki	NRC
Tania Martinez Navedo	NRC
Vijay Goel	NRC
Nadim Khan	NRC
Leelavathi Sreenivas	NRC
Lauren Casey	NRC
Carolyn Faria	NRC

\* Participated via audio conferencing or webinar

<b>Name</b>	<b>Organization</b>
John Dixon*	NRC
John Rogge*	NRC
Steven Alferink*	NRC
Gordon Cleifton	Nuclear Energy Institute
Steven Hutchins	Nuclear Energy Institute
Dan Dahlgren*	Omaha Public Power District
Ariel Montoya*	Pacific Gas and Electric
Jeffrey Liu	Public
Bill Russell	Public
Teh Su*	Public
Eric Nelson*	Public
Raheel Naqvi*	Public
Jeff Oswald*	Public
Lawrence Easter*	Public
Thomas Barnett*	Public
Michael McAnelly*	Public
Justin Lane*	Public Service Electric and Gas
Jonathan Cairns*	Sargent & Lundy
Michael Urbina*	Sargent & Lundy
Jusuf Krvavac*	Sargent & Lundy
Tim Fanguy*	SCANA
Andy Underwood*	SCANA
Joey Jeffcoat*	SCANA
Jana Bergman*	Sciencetech
Hung Le*	South Texas Project
Roy Lyon*	Southern Nuclear
Terry Sides*	Southern Nuclear
Russell Stroud	Tennessee Valley Authority
Mark Bowman	Tennessee Valley Authority
Joe Williams	Tennessee Valley Authority
Tamatha Womack	Tennessee Valley Authority
Russell Thompson*	Tennessee Valley Authority
Dale Wuokko	Toshiba America
Yuga Aoyagi*	Toshiba America
John Rucki*	Unistar Nuclear Energy
Brian Williams*	Wolf Creek Nuclear Operating Company
Paul Manhardt	Xcel Energy
Jake Strasser*	Xcel Energy
Jeff Dasch*	Xcel Energy
Erik Hanson*	Xcel Energy
Gregory Standinger	Zachry Nuclear Engineering
Paul Gaffney	Zachry Nuclear Engineering

\* Participated via audio conferencing or webinar