

October 19, 2017

MEMORANDUM TO: Victor Hall, Branch Chief
Construction Inspection Program Branch
Division of Construction Inspection
and Operational Programs
Office of New Reactors

FROM: Michael Webb, Senior Reactor Operations Engineer */RA/*
Construction Inspection Program Branch
Division of Construction Inspection
and Operational Programs
Office of New Reactors

SUBJECT: SUMMARY OF SEPTEMBER 21, 2017, PUBLIC MEETING TO
DISCUSS THE CONSTRUCTION INSPECTION PROGRAM

On September 21, 2017, the U.S. Nuclear Regulatory Commission (NRC) staff conducted a Category 3 public meeting at NRC headquarters with industry and members of the public to discuss the NRC Construction Inspection Program. The staff NRC provided an overview of Emergency Response Data System (ERDS) information needed to support its emergency preparedness programs, provided an update of the staff's readiness to transition AP1000 regulatory oversight from construction to operations, and led a discussion on digital instrumentation and controls (I&C) related to initial test programs. Southern Nuclear Operating Company (SNC) provided an update on the construction status of its Vogtle Units 3 and 4. During the meeting, the NRC also addressed questions from members of the public. The following summarizes each of the presentation topics:

- a. The meeting began with a presentation by NRC staff from the Office of Nuclear Security and Incidence Response (NSIR) regarding NRC emergency response readiness issues. Specifically, the NRC AP1000 Integrated Transition Working Group identified two readiness issues related to NRC's Emergency Response Program: (1) response-related training for NRC Operations Officers and emergency responders on the unique aspects of the AP1000 design and (2) design and site-specific information needed to support NRC incident response software. The staff is developing an AP1000 Emergency Response training course for NRC responders for which the staff needs for industry to identify the key parameters that will be transmitted to NRC during a response. This will allow the staff to train NRC responders regarding what parameters it can expect to receive via ERDS and what parameters the staff will need to request via telephone. The presentation also identified more specifically the information the staff requires for other incident response software. Details are available in the NRC staff presentation (Agencywide Documents Access and Management System) (ADAMS) Accession No. [ML17244A603](#).
- b. In the second presentation, NRC Office of New Reactors (NRO) staff gave an overview of the staff's efforts to plan the transition of regulatory oversight and licensing for AP1000 plants from construction to operations. The presentation noted that in September 2014,

the staff published a report that identifies 21 readiness issues and implementing recommendations, "Assessment of the Staff's Readiness to Transition Regulatory Oversight and Licensing as New Reactors Proceed from Construction to Operation," (ADAMS Accession No. ML14031A387). NRC published a public draft version of the "Implementation Plan" (ADAMS Accession No. ML16070A178) in January 2017. The Nuclear Energy Institute (NEI) provided comments in March 2017, which the staff addressed and discussed during a Reactor Oversight Process public meeting held in May 2017. The staff updated the plan and expects to issue the revised document later this month. The NRC staff presentation is available at ADAMS Accession No. [ML17256A163](#).

- c. The next portion of the meeting was an NRO staff discussion related to the AP1000 Initial Test Program, with an emphasis on digital I&C testing and related inspection activities. The presentation noted that the goal of the test strategy should be a rigorous, overlapping testing scheme to maintain integrity between the I&C system design to factory validation/testing and on-site (preoperational) testing. The Updated Final Safety Analysis Report Chapter 14 preoperational test commitments are satisfied by combination of factory testing, component testing and preoperational testing (with overlap between each). A key characteristic of this strategy is using factory testing to satisfy later preoperational testing requirements (e.g. prerequisites and acceptance criteria). Since 2014, the NRC staff held various public meetings, inspection planning meetings, and other interactions to discuss the test strategy (among NRC staff, licensees, and Westinghouse). The NRC staff recognized that enhanced inspection guidance was needed to address preoperational testing of systems controlled by digital platforms (testing that would implement elements of I&C test strategy) and developed this guidance as a new "Appendix A" to Inspection Procedure IP 70702 "Inspection of Preoperational Test Performance." Details are available in the NRC staff presentation (ADAMS Accession No. [ML17256A132](#)).
- d. A representative from SNC provided construction updates for Vogtle Units 3 and 4 (ADAMS Accession No. [ML17017A393](#)).

CONTACT: Michael Webb, NRO/DCIP/CIPB
301-415-1347

SUBJECT: SUMMARY OF SEPTEMBER 21, 2017, PUBLIC MEETING TO DISCUSS THE
CONSTRUCTION INSPECTION PROGRAM DATED OCTOBER 19, 2017

Enclosure:
List of Attendees

DISTRIBUTION:

CIPB R/F
WJones, RII
RidsRgn2MailCenter
MErnstes, RII
RidsNroDcip
JHeisserer, RII
RidsOpaMail
RMusser, RII
RidsOgcMailCenter
RNease, RII
RidsAcrcMailCenter
RidsNsirDprDdep
TMcGinty, NRO
PKrohn, NRO
RMathis, RII
LDudes, RII
VHall, NRO
MWebb, NRO
TFredette, NRO
KKavanagh, NRO
ARivera-Varona, NRO
JBurke, NRO
TJackson, NRO
JJimenez, NRO
AJohnson, NRO
RHasselberg, NSIR

ADAMS Accession No: ML17276B315 NRC-001

OFFICE	NRO/DCIP/CIPB	NRO/DCIP/CIPB
NAME	Michael Webb	Victor Hall
DATE	10/05/2017	10/19/2017

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**NRC Public Meeting to Discuss the Activities Related to the
Construction Inspection Program**

**Thursday, September 21, 2017 - 8:30 a.m. – 10:30 a.m.
Commission Hearing Room**

Name	Organization
Agee, Stephanie	SNC Regulatory Affairs
Arora, Surinder	NRC/NRO
Baptist, James	NRC/Region II
Barss, Dan	NRC/NSIR
Bell, Russ	NEI
Bergman, Jana	Curtiss Wright
Ferguson, Ashley	NRC/NRO
Fredette, Thomas	NRC/NRO
Frost, John	NRC/NSIR
Gwyn, Dealis	MOX Services
Hall, Victor	NRC/NRO
Hasselberg, Rick	NRC/NSIR
Hirmanpour, Bob	SNC
Jackson, Terry	NRC/NRO
Johnson, Andrea	NRC/NRO
Krohn, Paul	NRC/NRO
McGinty, Tim	NRC/NRO
Merzke, Dan	NRC/NRR
Olson, Josh	SNC ITAAC
Patel, Raju	NRC/NRO
Petrucci, Judy	NRC/NSIR
Prescott, Paul	NRC/NRO
Pugh, Amanda	SNC
Roberts, Kelli	SNC Licensing
Roggenbrodt, William	NRC/NRO
Simonian, Niry	NRC/NSIR
Spivack, Ian	NRC/NRO
Waldrup, Steve	SNC/ITP
Webb, Michael	NRC/NRO
Wilson, Josh	NRC/NRO
Wilson, Tim	NRC/OIG
* Castelli, Lisa	NRC/Region II
* Gibson, Ray	NRC/NSIR
* Heisserer, Jamie	NRC/NSIR
* Jaworsky, Mari	Duke
* Jones, William	NRC/Region II
* Mathis, Robert	NRC/Region II
* Musser, Randy	NRC/Region II
* Stacy, Kara	SNC

*Indicates remote participation via teleconference or webinar

Construction Inspection Program Mailing List

cc:

Mr. Edward L. Quinn
Longenecker and Associates
Utility Operations Division
23292 Pompeii Drive
Dana Point, CA 92629

Mr. Carl E. Parry, President
Utilities Service Alliance, Inc.
9200 Indian Creek Parkway
Suite 201
Overland Park, KS 66210

Mr. Lionel Batty
Nuclear Business Team
Graftech
12300 Snow Road
Parma, OH 44130

Mr. Robert E. Sweeney
IBEX ESI
4641 Montgomery Avenue
Suite 350
Bethesda, MD 20814

Ms. Michele Boyd
Legislative Director
Public Citizens Critical Mass Energy
and Environmental Program
215 Pennsylvania Avenue, SE
Washington, DC 20003

Mr. Gary Wright, Director
Division of Nuclear Facility Safety
Illinois Emergency Management Agency
1035 Outer Park Drive
Springfield, IL 62704

Mr. Ian M. Grant
Canadian Nuclear Safety Commission
280 Slater Street, Station B
P.O. Box 1046
Ottawa, Ontario
K1P 5S9

Ken Scarola
Nuclear Automation Engineering, LLC
3672 Pine Tree Ln.
Murrysville, PA 15668

Mr. Eugene S. Grecheck
Vice President
Nuclear Support Services
Dominion Energy, Inc.
5000 Dominion Blvd.
Glen Allen, VA 23060

Mr. Brendan Hoffman
Research Associate on Nuclear Energy
Public Citizens Critical Mass Energy and
Environmental Program
215 Pennsylvania Avenue, SE
Washington, DC 20003

Manager
GT-MHR Safety & Licensing
General Atomics Company
PO Box 85608
San Diego, CA 92186-5608

Mr. Ed Wallace, Project General Manager
PBMR Pty LTD
PO Box 9396
Centurion 0046
Republic of South Africa

Construction Inspection Programming Mailing List

(Revised 02/13/2017)

NAME	E-MAIL ADDRESS
Agarwal, Duli	duli.agarwal@hq.doe.gov
Ainger, Kenneth	kenneth.ainger@exeloncorp.com
Aitken, Steve	aitkensy@inpo.org
Ashkeboussi, Nima	nxa@nei.org
Austgen, Kati	kra@nei.org
Beard, James	james.beard@gene.ge.com
Barczak, Sara	sara@cleanenergy.org
Bedford, Brian	bedforbj@westinghouse.com
Bell, Russell	rjb@nei.org
Berger, J. Pierre	jean-pierre.berger@edf.com
Bergman, Jana	Jbergman@Curtisswright.com
Bessette, Paul	pbessette@morganlewis.com
Brooks, Marc	marc.brooks@dhs.gov
Bryant, Barry	barry.bryant@dom.com
Burdick, Stephen	sburdick@morganlewis.com
Butler, Skip	skip.butler@ge.com
Campbell, Patricia	patricial.campbell@ge.com
Carr, Jack	jack.carr@cbi.com
Carroll, Glenn	Atom.girl@nonukesyall.org
Clouser, Timothy	timothy.clouser@luminant.com
Cottingham, Ann	awc@nei.org
Cullington, E.	ecullington@earthlink.net
Cummins, Edward	cumminwe@westinghouse.com
Danielson, Gustave	bud.danielson@hq.doe.gov
Davis, Jim	jtdavis@southernco.com
DiTommaso, Sarah	ditomms@westinghouse.com
Dolley, Steven	steven_dolley@platts.com
Dohse, Andrew	dohseaf@westingtonhouse.com
Fay, Tom	tom.fay@fluor.com
Fertel, Marvin	msf@nei.org
Frantz, Stephen	sfrantz@morganlewis.com
Freebairn, William	William.freebairn@platts.com
Fuller, Justin	Justin.fuller@nrc.gov
Gaukler, Paul	paul.gaukler@pillsburylaw.com
Giles, M.	mjiles@entergy.com
Ginsberg, Ellen	ecg@nei.org
Gove, Patrick	govepa@bv.com
Gray, Susan	sgray@dnr.state.md.us
Gresham, James	greshaja@westinghouse.com
Gunter, Paul	paul@beyondnuclear.org
Gwyn, Dealis	dwgwyn@moxproject.com
Haines, Jay	jayhaines@tamu.edu
Halnon, Greg	ghalnon@firstenergycorp.com
Harrelson, Cade	jcharrel@southernco.com
Harvey, Mark	mwharvey1960@yahoo.com
Hastings, Peter	pshastings@duke-energy.com
Head, Jerald	jerald.head@ge.com

NAME	E-MAIL ADDRESS
Hegner, Joseph	joseph_hegner@dom.com
Heymer, Adrian	aph@nei.org
Hinds, David	david.hinds@ge.com
Horin, W.	whorin@winston.com
Howard, Danny	danny.r.howard@fluor.com
Huss, William	William.Huss@pillsburylaw.com
Jacobson, Shaun	shaun.jacobson@cbi.com
Jaworsky, Mari	mari.jaworsky@duke-energy.com
Jenkins, Susan	jenkinse@dhec.sc.gov
Kellenberger, Nick	Nicholas.kellenberger@scana.com
Kitchen, Robert	robert.kitchen@pgnmail.com
Kline, Steve	sulkline@bechtel.com
Klinvex, Michael	klinvem@westinghouse.com
Kray, Marilyn	marilyn.kray@exeloncorp.com
Landon, Christopher	landoncf@westinghouse.com
Laskowski, Lenny	leonard.laskowski@ge.com
Lejeune, Peter	plejeune@balch.com
Lewis, David	david.lewis@pillsburylaw.com
Lyman, Ed	elyman@ucsusa.org
Mahan, Howard	Chmahan@southernco.com
Maher, William	william.maher@fpl.com
Mariotte, Michael	nirsnet@nirs.org
Markert, John C.	cmarkert@nuscalepower.com
Marshall, Wanda	wanda.k.marshall@dom.com
McCabe, Brian	brian.mccabe@pgnmail.com
Medlock, Clint	mmedlock@southernco.com
Miller, Garry	garry.miller@pgnmail.com
Miller, Keith	Keith.j.miller@dom.com
Miras-Wilson, Rachel	rwilson@winston.com
Mitchell, Stanley	stanley.mitchell@exeloncorp.com
Moran, Mike	nucmike2002@yahoo.com
Morgan, Michael	Michael.Morgan5@ge.com
Morrow, Calvin	cemorrow@southernco.com
Murawski, John	murawski@newsobserver.com
Orthen, Richard	richard.orthen@nexteraenergy.com
Peterson, Scott	media@nei.org
Pitts, Al	al.pitts@unistarnuclear.com
Pleins, Ed	pleinsel@westinghouse.com
Popa, Markus	Markus.Popa@Hq.Doe.Gov
Quinn, Vanessa	vanessa.quinn@dhs.gov
Ray, Thom	raytj@westinghouse.com
Riccio, James	jim.riccio@wdc.greenpeace.org
Romashko, Darryl	dcromashko@tva.gov
Rubin, Michael	rubinmp@westinghouse.com
Saunders, Thomas	tsaunder@southernco.com
Schlaseman, Caroline	cschlaseman@mpr.com
Schumitsch, Walter	Walter.schumitsch@ge.com

NAME	E-MAIL ADDRESS
Smith, Tyson	trsmith@winston.com
Stan, Thomason,	stomasu@southernco.com
Sutton, Kathryn	ksutton@morganlewis.com
Tapia, Joseph	Joseph_tapia@mnes-us.com
Taylor, Larry	larry.taylor@pqnmail.com
Taylor, Marlene	marlene.taylor@exeloncorp.com
Temple, Robert	nuclaw@mindspring.com
Thomason, Stan	stomason@southernco.com
Thompson, Ryder	Ryder.Thompson@scana.com
Torres, Alan	atorres@scana.com
Travieso-Diaz, Matias	matias.travieso-diaz@pillsburylaw.com
Van Wyk, Jake	jacob.vanwyk@scana.com
Vaughn, Lisa	lfvaughn@duke-energy.com
Waites, Brandon	bwwaites@southernco.com
Waltman, C.	cwaltman@roe.com
Warren, Jim	jim@ncwarn.org
Wessel, Ronald	wesselrp@westinghouse.com
Woodlan, Donald	donald.woodlan@luminant.com
Yox, Michael	myox@southernco.com
Zinke, George	gzinke@entergy.com
	arp@nei.org
	bpgarde@aol.com
	dashurberg@hpacorp.com
	hundrupa@gao.gov
	jfulto1@entergy.com
	jrfergus@duke-energy.com
	llbauman@aol.com
	lynchje@inpo.org
	pdblanch@comcast.net
	sbhaber@hpacorp.com

NOTE: For all changes to the Construction Inspection Program Mailing or E-mail List, please contact Debbie McCain by calling 301-415-1219 or by e-mail, debra.mccain@nrc.gov.