

September 26, 2012

COMPANY: BABCOCK & WILCOX NUCLEAR ENERGY

DESIGN: mPower™

SUBJECT: SUMMARY OF MAY 17, 2012, CLOSED MEETING WITH BABCOCK & WILCOX NUCLEAR ENERGY TO DISCUSS THE mPower™ REACTOR SEISMIC UPDATE AND HYDROLOGY

On May 17, 2012, a closed meeting was held between the U.S. Nuclear Regulatory Commission (NRC), and representatives of Babcock & Wilcox Nuclear Energy (B&W NE), at NRC Headquarters, 11545 Rockville Pike, Rockville, MD. The purpose of the meeting was to discuss an update of the seismic design and hydrology for the B&W mPower™ Reactor. B&W NE presented information on the mPower™ plant layout, seismic update, Electric Power Research Institute seismic source report, soil-structure interaction (SSI) analysis for Generation mPower, SSI modeling overview, structural analysis plan, and considerations for groundwater and maximum flood.

The staff queried B&W NE about several issues. The staff wanted additional information on the ultimate heat sink, whether the frequency of distribution should be presented for design profiles, information on the staff's concern about one structure at two levels, whether the Design Specific Review Standard should include guidance or random vibration theory applied to soil/structure interactions, information on Poisson's ratios, modeling of backfill soils, and an inconsistency in modeling. B&W NE agreed no further interactions to discuss applicable documents and to respond to NRC issues.

The meeting agenda and meeting attendees are included in Enclosures 1 and 2. B&W NE's slide presentation is available through the Agencywide Documents Access and Management System (ADAMS). The ADAMS accession number for the non-proprietary, redacted version of the slide presentation is ML12128A223. ADAMS is the system that provides text and image files of NRC's public documents. Documents are available electronically at the NRC's Electronic Reading Room at <http://www.nrc.gov/reading-rm/adams.html>. Documents are available electronically at the NRC's Electronic Reading Room at <http://www.nrc.gov/readingrm/adams.html>. If you do not have access to ADAMS or have problems accessing the documents located in ADAMS, contact the NRC Public Document Room (PDR) staff at 1-800-397-4209, fax 301-415-3548, TDD 1-800-635-4512, or <http://www.nrc.gov/reading-rm/contactpdr.html>.

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Please direct any inquiries to Joelle Starefos at 301-415-6091, or Joelle.starefos@nrc.gov.

Sincerely,

/RA/

Joelle Starefos, Sr. Project Manager
Projects Branch
Division of Advanced Reactors and Rulemaking
Office of New Reactors

Project No.: 0776

Enclosure

1. Agenda
2. List of attendees

cc: DC B&W mPower Mailing List

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Sincerely,

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Enclosure

- 1. Agenda
- 2. List of attendees

cc: DC B&W mPower Mailing List

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NRC-001

OFFICE	PM:NRO/DARR/APRB	PM:NRO/DARR/APRB
NAME	MNotich	JStarefos
DATE	09/7/2012	09/26/2012

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AGENDA

BABCOCK & WILCOX (B&W) MEETING WITH THE U.S. NUCLEAR REGULATORY COMMISSION (NRC)

May 17, 2012
8:30 AM – 3:00 PM

TIME	TOPIC	LEAD
8:30 am – 9:00 am	Introduction/Update on the Generation mPower Plant Layout	B&W
9:00 am – 9:45 am	Seismic Analysis Update	B&W
9:45 am – 10:00 pm	BREAK	ALL
10:00 am – 10:30 am	Summary of EPRI CEUS Report	B&W
10:30 am – 11:30 am	Soil-Structure Interaction Analysis Using SASSI	B&W
11:30 am – 1:00 pm	LUNCH BREAK	ALL
1:00 pm – 1:45 pm	2D & 3D Soil-Structure Interaction Studies	B&W
1:45 pm – 2:10 pm	Description of Nuclear Island SSI Model	B&W
2:10 pm – 2:40 pm	Structural analysis Plan and Considerations for Groundwater and Probable Maximum Flood	B&W
2:40 pm – 3:00 pm	Summary/Questions	NRC
3:00 pm	Adjourn	NRC

ATTENDANCE LIST

CLOSED MEETING BETWEEN BABCOCK & WILCOX AND THE U.S. NUCLEAR REGULATORY COMMISSION (NRC) REGARDING SEISMIC AND SOIL INTERACTION ANALYSIS

May 17, 2012

8:30 pm – 3:00 pm; Room T-10A1

NAME	ORGANIZATION
Brad Harvey	NRC/NRO/DSEA
Brian Thomas	NRC/NRO/DE
Carl Weber	NRC/NRO/DCIP
Chester Poslusny	B&W mPower Inc
David Jeng	NRC/NRO/DE
Farhang Ostadan	Bechtel Power
Jack Demitz	Bechtel Power
Jerry Chuang	NRC/NRO/DE
Jim Saldanini	Bechtel Power
Jim Xu	NRC/NRO/DE
Joe Litehiser	Bechtel Power
Joe Williams	NRC/NRO/DARR
Joelle Starefos	NRC/NRO/DARR
Kirk P. Volovar	Bechtel
Lisa Anderson	Bechtel Power
Manas Chekravorty	NRC/NRO/DE
Mark McBride	NRC/NRO/DSEA
Martin Reifscaneder	Bechtel Power
Michael D. McHood	Bechtel Power
Mike Childerson	B&W mPower Inc
Nebiyu Tiruneh	NRC/NRO/DSEA
Pei-Ying Chen	NRC/NRO/DE
Pete Lee	NRC/NSIR
Peter Carrato	Bechtel Power
Peter Hastings	Generation mPower
Ron Beck	Bechtel
Stephanie Devlin	NRC/NRO/DSEA
Steve Berthaupt	PNNL
Steve Klein	Bechtel
Sunpoo Park	NRC/NRO/DE
Vladimir Graizer	NRC/NRO/DSEA
Weijun Wang	NRC/NRO/DSEA
Yanely Malave	NRC/NRO/DARR
Zuhan Xi	NRC/NRO/DSEA

DC B&W mPower Mailing List

(Revised 06/26/2012)

cc:

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

Russell Bell
Nuclear Energy Institute
1776 I Street, NW
Suite 400
Washington, DC 20006-3708

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

Mr. Dobie McArthur
Director, Washington Operations
General Atomics
1899 Pennsylvania Avenue, NW
Suite 300
Washington, DC 20006

Mr. David Repka
Winston & Strawn LLP
1700 K. Street, NW
Washington, DC 20006-3817

Carlos Sisco
Senior Paralegal
Winston & Strawn LLP
1700 K Street NW
Washington, DC 20006

DC B&W mPower Mailing List

Email

Alan.Levin@areva.com (Alan Levin)
APH@NEI.org (Adrian Heymer)
asi@ornl.gov (Anita Benn)
awc@nei.org (Anne Cottingham)
badwan@lanl.gov (Faris Badwan)
bevans@enercon.com (Bob Evans)
BrinkmCB@westinghouse.com (Charles Brinkman)
cee@nei.org
charles.bagnal@ge.com (Charles Bagnal)
collinlj@westinghouse.com (Leslie Collins)
curtisslaw@gmail.com (Jim Curtiss)
david.hinds@ge.com (David Hinds)
david.lewis@pillsburylaw.com (David Lewis)
deborah@hyperionpowergeneration.com (Deborah Ann Blackwell)
dlfulton@southernco.com (Dale Fulton)
don.tormey@iub.iowa.gov
dsafer@comcast.net (Don Safer)
duane.fournier@iub.iowa.gov
ed.burns@earthlink.net (Ed Burns)
elyman@ucsusa.org (Ed Lyman)
erg-xl@cox.net (Eddie R. Grant)
ewallace@nuscalepower.com (Ed Wallace)
exa@nei.org (Ellen Anderson)
F.Shahrokhi@AREVA.Com (Farshid Shahrokhi)
flowerspa@ornl.gov (Paula Flowers)
frank.bodine@oca.iowa.gov (Frank Bodine)
gcesare@enercon.com (Guy Cesare)
gmokulczyk@energysolutions.com (Gair Okulczyk)
gmorg50@hotmail.com (Garry Morgan)
jahalfinger@babcock.com (Jeff Halfinger)
james1.beard@ge.com (James Beard)
jason.parker@pillsburylaw.com (Jason Parker)
jason.tokey@nuclear.energy.gov (Jason Tokey)
jcsaldar@bechtel.com (James Saldarini)
jerald.head@ge.com (Jerald G. Head)
Jim.Kinsey@inl.gov (James Kinsey)
jim.sundermeyer@iub.iowa.gov
JNR@NuScalePower.com (Jose N. Reyes)
kerri.johannsen@iub.iowa.gov
klingscl@westinghouse.com (Charles King)
kouhestani@msn.com (Amir Kouhestani)
krrowe@tva.gov (Kevin R. Rowe)
KSutton@morganlewis.com (Kathryn M. Sutton)
Kwelter@NuScalePower.com (Kent Welter)

DC B&W mPower Mailing List

larry.shi@oca.iowa.gov (Larry Shi)
larry.stevens@iub.iowa.gov
laura.andrews@CNSC-CCSN.GC.CA (Laura Andrews)
lchandler@morganlewis.com (Lawrence J. Chandler)
lgorenflo@gmail.com (L. Gorenflo)
libby.jacobs@iub.iowa.gov
luther.jones@dzatlantic.com (Luther B. Jones)
mack.thompson@iub.iowa.gov
maria.webb@pillsburylaw.com (Maria Webb)
mark.a.giles@dom.com (Mark Giles)
mark.beaumont@wsms.com (Mark Beaumont)
mark.holbrook@inl.gov (Mark Holbrook)
mark@npva.net
matias.travieso-diaz@pillsburylaw.com (Matias Travieso-Diaz)
murawski@newsobserver.com (John Murawski)
parveen.baig@iub.iowa.gov
patriciaL.campbell@ge.com (Patricia L. Campbell)
Paul@beyondnuclear.org (Paul Gunter)
PLorenzini@NuScalePower.com (Paul Lorenzini)
poorewpiil@ornl.gov (Willis P. Poore III)
rbarrett@astminc.com (Richard Barrett)
rereimels@babcock.com (R.E. Reimels)
rnicholas@ge.com (Robert Nicholas)
ronald.polle@oca.iowa.gov
RSnuggerud@NuScalePower.com (Ross Snuggerud)
sfrantz@morganlewis.com (Stephen P. Frantz)
shobbs@enercon.com (Sam Hobbs)
spellmandj@ornl.gov (Donald J. Spellman)
stan.wolf@iub.iowa.gov
stephan.moen@ge.com (Stephan Moen)
steven.m.mirsky@saic.com (Steve Mirsky)
Tansel.Selekler@nuclear.energy.gov (Tansel Selekler)
tfeigenb@bechtel.com (Ted Feigenbaum)
tgado@roe.com (Burns & Roe)
timothy.beville@nuclear.energy.gov (Timothy Beville)
TJKim@babcock.com (T.J. Kim)
tom.miller@hq.doe.gov (Tom Miller)
tom.miller@nuclear.energy.gov (Thomas P. Miller)
TomClements329@cs.com (Tom Clements)
tommy_pe2001@yahoo.com (Tommy Le)
trsmith@winston.com (Tyson Smith)
Vanessa.quinn@dhs.gov (Vanessa Quinn)
W.E.SMIT@southernco.com (William Smith)
whorin@winston.com (W. Horin)