

January 14, 2011

MEMORANDUM TO: Stewart L. Magruder, Branch Chief
Advanced Reactors Branch 2
Advanced Reactor Program
Office of New Reactors

FROM: Yanely Malave-Velez, Project Manager */RA Joelle Starefos for/*
Advanced Reactors Branch 2
Advanced Reactor Program
Office of New Reactors

SUBJECT: SUMMARY OF DECEMBER 14, 2010, PUBLIC MEETING WITH
TENNESSEE VALLEY AUTHORITY REGARDING KEY
ASSUMPTIONS LETTER FOR THE POSSIBLE LICENSING AND
CONSTRUCTION OF A SMALL MODULAR REACTOR AT THE
CLINCH RIVER SITE

On December 14, 2010, staff from the U.S. Nuclear Regulatory Commission (NRC) met with representatives from the Tennessee Valley Authority (TVA), Babcock & Wilcox (B&W) Company, and Bechtel at The Legacy Hotel in Rockville, Maryland. The purpose of the meeting was to discuss the key assumptions, benefits and challenges associated with TVA's proposal for possible licensing and construction of mPower modules at the Clinch River site. This discussion helped clarify TVA's assumptions associated with the Title 10 of the *Code of Federal Regulations* (CFR) Part 50 and Part 52 licensing components of this effort. The meeting agenda and meeting attendees are included in Enclosures 1 and 2. A summary of the meeting is included below.

TVA began the meeting by stating that the Clinch River small modular reactor project is part of TVA's program for reducing greenhouse gases as directed by the Executive Order 13514. TVA discussed the advantages of the small modular reactor, project evaluation elements, and licensing steps to support the 10 CFR Part 50 application. TVA is considering an application for a construction permit for up to six mPower modules at the site. In addition, TVA is proposing interactions with the NRC staff to discuss a regulatory framework structure to include standard review plan non-conformances, exemptions, policy issues, and the current regulatory requirements. TVA stated that the Clinch River final safety analysis report will remain technically consistent with the mPower design control document throughout the licensing process, and the site characteristics will be bounded by the design certification application. TVA provided a project status and the plans for pre-application process development which includes an addendum to the key assumption letter and interactions supporting development of the regulatory framework.

CONTACT: Yanely Malave-Velez, NRO/ARP/ARB2
(301) 415-1519

After the business part of the meeting was completed a member of the public questioned whether rate payers would be impacted by TVA's plan to construct under 10 CFR Part 50 with no guarantee of an Operating License. TVA responded that based upon their funding strategy for this project, rate payers should not be impacted.

TVA's slide presentations are available through the Agencywide Documents Access and Management System (ADAMS). The ADAMS accession number for the slide presentation is ML103480878. 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>. If you do not have access to ADAMS or have problems accessing the documents located in ADAMS, contact the NRC Public Document Room staff at 1-800-397-4209, 301-415-4737, or pdr@nrc.gov.

Project Nos.: PROJ0776, PROJ0785

Attachments:

1. Agenda
2. Attendance List

cc w/encl: DC B&W mPower Mailing List

After the business part of the meeting was completed a member of the public questioned whether rate payers would be impacted by TVA's plan to construct under 10 CFR Part 50 with no guarantee of an Operating License. TVA responded that based upon their funding strategy for this project, rate payers should not be impacted.

TVA's slide presentations are available through the Agencywide Documents Access and Management System (ADAMS). The ADAMS accession number for the slide presentation is ML103480878. 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>. If you do not have access to ADAMS or have problems accessing the documents located in ADAMS, contact the NRC Public Document Room staff at 1-800-397-4209, 301-415-4737, or pdr@nrc.gov.

Project Nos.: PROJ0776, PROJ0785

Attachments:

1. Agenda
2. Attendance List

cc w/encl: DC B&W mPower Mailing List

DISTRIBUTION

PUBLIC

RidsNroArp Resource
 RidsNroArpArb1_2 Resource
 RidsAcrsAcnw_MailCTR Resource
 RidsOgcMailCenter Resource
 RidsOpaMail Resource
 SMagruder
 YMalave
 MMayfield
 WReckley
 JStarefos

ADAMS Accession No.: ML110140436

NRO-002

OFFICE	PM:ARP:ARB2	LPM:ARP:ARB2
NAME	YMalave (JStarefos for)	JStarefos
DATE	1/14/2011	1/14/2011

OFFICIAL RECORD COPY

TENTATIVE AGENDA

TENNESSEE VALLEY AUTHORITY (TVA) MEETING WITH NRC DECEMBER 14, 2010

Time	Topic	Lead
1:00 pm – 1:10 pm	Opening Remarks & Introductions	NRC
1:10 pm – 1:30 pm	<u>Discuss Assumption 1</u> : <i>Use of the 10 CFR Part 50 licensing process</i>	NRC/TVA
1:30 pm – 2:00 pm	<u>Discuss Assumption 2</u> : <i>States that TVA would develop a preliminary safety analysis report (PSAR) using Regulatory Guide 1.70, Revision 3, issued November 1978, and would include an evaluation of the facility against the SRP revision in effect six months prior to making application for the Construction Permits. The application would include an environmental report addressing the Environmental Standard Review Plan guidance in NUREG 1555.</i>	NRC/TVA
2:00 pm – 2:30 pm	<u>Discuss Assumption 3</u> : <i>The utilization of a “One Design – One Review” NRC license review process.</i>	NRC/TVA
2:30pm- 2:45pm	Break	
2:45 pm – 3:10 pm	<u>Discuss Assumption 4</u> : <i>10 CFR Part 30, 40, 50, and 70 license applications would be combined.</i>	NRC/TVA
3:10 pm – 3:30 pm	<u>Discuss Assumption 5</u> : <i>The NRC would inspect Generation mPower as a vendor (major portions of the plant to be fabricated in controlled manufacturing environments).</i>	NRC/TVA
3:30 pm – 3:50 pm	<u>Discuss Assumption 6</u> : <i>The scope of the inspection and enforcement program along with the initial test program will inform and demonstrate successful execution of future ITAAC that may be specified in the DC or COL applications</i>	NRC/TVA
3:50 pm – 4:00 pm	NRC feedback & next steps	NRC
4:00 pm	Adjourn	All

ATTENDANCE LIST

TENNESSEE VALLEY AUTHORITY (TVA) MEETING WITH NRC DECEMBER 14, 2010

Name	Affiliation
Richard Barrett	ADSTM
Alan Levin	Areva
Chet Poslusny	B&W
Steve Pope	B&W
TJ Kim	B&W
Jeff Halfinger	B&W
Steve Routh	Bechtel
Jim Saldarini	Bechtel
Ted Feigenbaum	Bechtel
Jason Tokey	DOE
Ivy Cesare	Enercon Services
Sam Hobbs	Enercon Services
Ray Schiele	Excel Services
Ken Fletcher	Exchange Monitor
James Ross	GE-Hitachi
Mike Callahan	GSI
Lawrence Chandler	Morgan, Lewis
Jeannie Rinckel	NEI
Joelle Starefos	NRC
Thomas Boyle	NRC
Cameron Goodwin	NRC
Matt Humberstone	NRC
Thomas Kenyon	NRC
Carl Weber	NRC
Jerry Chuang	NRC
Joel Jenkins	NRC
Susan Vrahoretis	NRC
Susan Uttal	NRC
Jack Cushing	NRC
Syed I. Haider	NRC
Theresa Clark	NRC

ATTENDANCE LIST

TENNESSEE VALLEY AUTHORITY (TVA) MEETING WITH NRC DECEMBER 14, 2010

Name	Affiliation
Greg Cranston	NRC
Erick Martinez	NRC
Hien Le	NRC
Ryan Wagner	NRC
Steven Downey	NRC
Mike Norato	NRC
Allen Howe	NRC
Neil Ray	NRC
Audrey Klett	NRC
Samina Shaikh	NRC
Ross Moore	NRC
Glenn Tracy	NRC
Yanely Malave	NRC
Michael Mayfield	NRC
Stewart Magruder	NRC
Michelle Hart	NRC
Bob Fitzpatrick	NRC
Jay Lee	NRC
Tamara Powell	NRC
Nebiyu Tiruneh	NRC
David Diec	NRC
Steven Mirsky	NuScale Power Inc.
Paula Flowers	Oak Ridge National Lab
Thomas Spink	TVA
Andrea Sterdis	TVA
Gordon P. Arent	TVA
Jack Bailey	TVA
Christopher Chandler	TVA
Edwin Lyman	UCS
Edward Burns	WEC
David Repka	Winston & Strawn
William Meek	Worley Parsons

DC B&W mPower Mailing List

cc:

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

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

Anne W. Cottingham
Assistant General Counsel
Nuclear Energy Institute
1776 I Street, NW
Suite 400
Washington, DC 20006

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

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

Michael L. Hammond
Technological Hazards Program Office
Radiological Emergency Preparedness
Program, Region X
U.S. Department of Homeland Security
130 228th Street, SW
Bothell, WA 98021

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

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

Faris M. Badwan
Los Alamos National Laboratory
P.O. Box 1663, MS K557
Los Alamos, NM 87545

DC B&W mPower Mailing List

Email

Alan.Levin@areva.com (Alan Levin)
APH@NEI.org (Adrian Heymer)
Badwan@lanl.gov (Faris Badwan)
bevans@enercon.com (Bob Evans)
BrinkmCB@westinghouse.com (Charles Brinkman)
cee@nei.org
charles.bagnal@ge.com
chris.maslak@ge.com (Chris Maslak)
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)
elyman@ucsusa.org
erg-xl@cox.net (Eddie R. Grant)
ewallace@nuscalepower.com (Ed Wallace)
F.Shahrokhi@AREVA.Com (Farshid Shahrokhi)
gcesare@enercon.com (Guy Cesare)
jahalfinger@babcock.com (Jeff Halfinger)
james.beard@gene.ge.com (James Beard)
jerald.head@ge.com (Jerald G. Head)
jgutierrez@morganlewis.com (Jay M. Gutierrez)
Jim.Kinsey@inl.gov (James Kinsey)
jim.riccio@wdc.greenpeace.org (James Riccio)
JNR@NuScalePower.com (Jose N. Reyes)
klingscl@westinghouse.com (Charles King)
kouhestani@msn.com (Amir Kouhestani)
KSutton@morganlewis.com (Kathryn M. Sutton)
Kwelter@NuScalePower.com (Kent Welter)
lchandler@morganlewis.com (Lawrence J. Chandler)
maria.webb@pillsburylaw.com (Maria Webb)
mark.beaumont@wsms.com (Mark Beaumont)
mark.holbrook@inl.gov (Mark Holbrook)
matias.travieso-diaz@pillsburylaw.com (Matias Travieso-Diaz)
meross@babcock.com (Megan Rossi)
mgiles@entergy.com (M. Giles)
murawski@newsobserver.com (John Murawski)
mwetterhahn@winston.com (M. Wetterhahn)
patriciaL.campbell@ge.com (Patricia L. Campbell)
Paul@beyondnuclear.org (Paul Gunter)
PLorenzini@NuScalePower.com (Paul Lorenzini)
pshastings@duke-energy.com (Peter Hastings)
rbarrett@astminc.com (Richard Barrett)
rereimels@babcock.com (R.E. Reimels)

DC B&W mPower Mailing List

RSnuggerud@NuScalePower.com (Ross Snuggerud)
sandra.sloan@areva.com (Sandra Sloan)
sfrantz@morganlewis.com (Stephen P. Frantz)
shobbs@enercon.com (Sam Hobbs)
spellmandj@ornl.gov (Donald J. Spellman)
stephan.moen@ge.com (Stephan Moen)
steven.hucik@ge.com (Steven Hucik)
steven.m.mirsky@saic.com (Steve Mirsky)
Tansel.Selekler@nuclear.energy.gov (Tansel Selekler)
tgado@roe.com (Burns & Roe)
TJKim@babcock.com (T.J. Kim)
tom.miller@hq.doe.gov (Tom Miller)
tom.miller@nuclear.energy.gov (Thomas P. Miller)
trsmith@winston.com (Tyson Smith)
Vanessa.quinn@dhs.gov (Vanessa Quinn)
whorin@winston.com (W. Horin)