

July 31, 2006

MEMORANDUM TO: Joseph Colaccino, Acting Branch Chief  
ESBWR/ABWR Projects Branch  
Division of New Reactor Licensing  
Office of Nuclear Reactor Regulation

FROM: Martha C. Barillas, Project Manager */RA/*  
ESBWR/ABWR Projects Branch  
Division of New Reactor Licensing  
Office of Nuclear Reactor Regulation

SUBJECT: FORTHCOMING CLOSED MEETING WITH GENERAL ELECTRIC  
COMPANY REGARDING THE ESBWR ANTICIPATED TRANSIENT  
WITHOUT SCRAM (ATWS) EVENT AND CFD MODELING OF THE  
ESBWR CORE BYPASS

DATE & TIME: August 10, 2006  
8:00 a.m. - 4:00 p.m.

LOCATION: General Electric Company  
San Jose, California

PURPOSE: To discuss proprietary material related to the ESBWR ATWS event, CFD  
modeling of the ESBWR core bypass, related proprietary reports and  
draft NRC requests for additional information (RAIs) containing  
proprietary information related to the ESBWR DCD Tier 2, Revision 1.

In a letter dated July 31, 2006, General Electric requested this meeting  
be closed to public attendance because the topics of discussion are  
proprietary. The NRC staff reviewed the meeting topics and concluded  
that the information to be discussed is proprietary. The entire meeting  
will be closed to the public. The NRC plans to issue a meeting summary.

PARTICIPANTS: Participants from the NRC include members from the Office of  
Nuclear Reactor Regulation (NRR) and the Office of Nuclear Regulatory  
Research (RES).

J. Colaccino

-2-

NRC

V. Klein, NRR  
P. Yarsky, NRR  
B. Parks, NRR  
C. Thrall, NRR  
C. Boyd, RES  
H. Greenberg, RES

GENERAL ELECTRIC

D. Hinds  
W. Marquino  
et. al

Docket No.: 52-0010

Attachment: List of Discussion Topics

cc: See next page

CONTACT: Martha C. Barillas, NRR  
301-415-4115, mcb@nrc.gov

J. Colaccino

-2-

NRC

V. Klein, NRR  
P. Yarsky, NRR  
B. Parks, NRR  
C. Thrall, NRR  
C. Boyd, RES  
H. Greenberg, RES

GENERAL ELECTRIC

D. Hinds  
W. Marquino  
et. al

Docket No.: 52-0010

Attachment: List of Discussion Topics

cc: See next page

CONTACT: Martha C. Barillas, NRR  
301-415-4115, mcb@nrc.gov

Hard Copy

PUBLIC  
NESB R/F  
JColaccino  
MBarillas

E-Mail

JDanna  
MGavrilas  
ACRS  
KWinsberg  
OGC  
ACubbage  
LRossbach  
LQuinones  
MBarillas  
PYarsky  
JGaslevic  
DHickman  
VKlein  
BParks  
CBoyd  
CThrall  
HGreenberg  
GThomas  
RLandry  
GCranston

ADAMS ACCESSION NO. ML062120449

OFFICE	PM:NESB	(A)BC:NESB
NAME	MBarillas	JColaccino
DATE	07/31/2006	07/31/2006

OFFICIAL RECORD COPY

**ESBWR ATWS AND CFD MODELING MEETING**  
**August 10, 2006**

**The following topics related to ESBWR ATWS will be discussed:**

- MSIV Closure ATWS
- Non-Isolation ATWS
- ATWS Stability
- EPGs and EOPs
- Bounding Analysis
- TRACG Nodalization of the Core Bypass
- RAIs Related to ATWS (21.6-4, 21.6-8, 21.6-29, 21.6-33 through 21.6-46, 21.6-51)
- Geometry of the bypass region, special emphasis on core plate
- Boron mixing models and correlations

**Documents Needed for ESBWR ATWS Discussions:**

- NEDE-33083P Supplement 1 "TRACG Application for ESBWR Stability Analysis"
- NEDE-33083P Supplement 2 "TRACG Application for ESBWR Anticipated Transient Without Scram Analyses"
- ESBWR Design Control Document, Rev. 1 Tier 2 (PDF Format)
- ESBWR Emergency Procedure Guidelines

**The Following Topics Related to CFD Modeling of of the ESBWR Core Bypass will be discussed:**

- MFN 06-213, GE Response to Staff RAI 21-6.53b

ESBWR

cc:

Mr. David H. Hinds, Manager  
ESBWR  
P.O. Box 780, M/C L60  
Wilmington, NC 28402-0780

Mr. George B. Stramback  
Manager, Regulatory Services  
GE Nuclear Energy  
1989 Little Orchard Street, M/C 747  
San Jose, CA 95125

Mr. David Lochbaum, Nuclear Safety  
Engineer  
Union of Concerned Scientists  
1707 H Street, NW., Suite 600  
Washington, DC 20006-3919

Mr. Paul Gunter  
Nuclear Information & Resource Service  
1424 16th Street, NW, Suite 404  
Washington, DC 20036

Mr. James Riccio  
Greenpeace  
702 H Street, Suite 300  
Washington, DC 20001

Mr. Adrian Heymer  
Nuclear Energy Institute  
Suite 400  
1776 I Street, NW  
Washington, DC 20006-3708

Mr. Paul Leventhal  
Nuclear Control Institute  
1000 Connecticut Avenue, NW  
Suite 410  
Washington, DC 20036

Mr. Ron Simard  
6170 Masters Club Drive  
Suwanne, GA 30024

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

Mr, Jay M. Gutierrez  
Morgan, Lewis & Bockius, LLP  
1111 Pennsylvania Avenue, NW  
Washington, DC 20004

Mr. Glenn H. Archinoff  
AECL Technologies  
481 North Frederick Avenue  
Suite 405  
Gaithersburg, MD. 20877

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

Mr. Charles Brinkman  
Westinghouse Electric Co.  
Washington Operations  
12300 Twinbrook Pkwy., Suite 330  
Rockville, MD 20852

Mr. Ronald P. Vijuk  
Manager of Passive Plant Engineering  
AP1000 Project  
Westinghouse Electric Company  
P. O. Box 355  
Pittsburgh, PA 15230-0355

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

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

Ms. Sandra Sloan  
Areva NP, Inc.  
3315 Old Forest Road  
P.O. Box 10935  
Lynchburg, VA 24506-0935

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

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

Mr. George A. Zinke  
Manager, Project Management  
Nuclear Business Development  
Entergy Nuclear, M-ECH-683  
1340 Echelon Parkway  
Jackson, MS 39213

E-Mail:

tom.miller@hq.doe.gov or  
tom.miller@nuclear.energy.gov  
sfrantz@morganlewis.com  
ksutton@morganlewis.com  
jgutierrez@morganlewis.com  
mwetterhahn@winston.com  
whorin@winston.com  
gcesare@enercon.com  
gerald.holm@framatome-anp.com  
erg-xl@cox.net  
joseph\_hegner@dom.com  
mark.beaumont@wsms.com  
steven.hucik@ge.com  
patriciaL.campbell@ge.com  
bob.brown@ge.com  
david.hinds@ge.com  
chris.maslak@ge.com  
james1beard@ge.com  
louis.quintana@gene.ge.com  
wayne.massie@ge.com  
kathy.sedney@ge.com  
mgiles@entergy.com  
tansel.selekler@nuclear.energy.gov or  
tansel.selekler@hq.doe.gov  
george.stramback@gene.ge.com