

August 25, 2010

Mr. Robert Sisk, Manager
Licensing and Customer Interface
Regulatory Affairs and Standardization
Westinghouse Electric Company
P.O. Box 355
Pittsburgh, PA 15230-0355

SUBJECT: PROPRIETARY INFORMATION REVIEW - ADVANCED FINAL SAFETY
EVALUATION FOR CHAPTER 5 TITLED "REACTOR COOLANT SYSTEM
AND CONNECTED SYSTEMS," OF NUREG-1793, SUPPLEMENT 2 -
AP1000 DESIGN CERTIFICATION AMENDMENT

Dear Mr. Sisk:

This letter transmits the Advanced Final Safety Evaluation (AFSE) for Chapter 5 titled, "Reactor Coolant System and Connected Systems," of the U.S. Nuclear Regulatory Commission (NRC) staff's NUREG-1793, "Final Safety Evaluation Related to Certification of the AP1000 Standard Design," Supplement 2.

By letter dated June 17, 2009, the NRC transmitted to Westinghouse the Safety Evaluation with Open Items (SE/OIs) for Chapter 5 which reflected the proposed changes in the AP1000 Design Control Document (DCD), through Revision 16. At that time, Chapter 5 of the SE/OIs did not address the previously un-reviewed changes that were incorporated into Revision 17 to the DCD. Since the June 17, 2009, transmittal of Chapter 5, communications with Westinghouse and subsequent NRC staff evaluation have resulted in the issuance of the Chapter 5 AFSE, which reflects all proposed changes through Revision 17 of the DCD and addresses the resolution of the OIs. This chapter will be supplemented prior to finalization due to the need to resolve confirmatory items and to address any additional proposed changes to the DCD.

Pursuant to 10 CFR 2.390, the NRC staff determined that the enclosed safety evaluation (SE) may contain proprietary information or other categories of information that should be withheld from public disclosure. We will delay placing this document in the public document room for a period of 30 days from the date of this letter to provide you with the opportunity to comment on information in the enclosed SE that should be withheld from public disclosure. If you believe that any information in the enclosure should be withheld from public disclosure, please identify such information line by line and define the basis

NOTICE: Document transmitted herewith contains sensitive unclassified information. When separated from the enclosure this cover letter is "DECONTROLLED."

R. Sisk

-2-

pursuant to the criteria of 10 CFR 2.390. Based on your response, both a publicly available, non-sensitive and non-publicly available, sensitive version will be created.

Please note that the letter and the attached enclosure taken-together are proprietary. When the letter is detached from the enclosure, the letter becomes non-proprietary.

Please feel free to contact Perry Buckberg, the Project Manager for Chapter 5, at (301) 415-1383 or perry.buckberg@nrc.gov, with any comments, concerns or questions.

Sincerely,

/RA/

Eileen M. McKenna, Chief
AP1000 Projects Branch 2
Division of New Reactor Licensing
Office of New Reactors

Docket No. 52-006

Enclosure:
Safety Evaluation, Chapter 5, NUREG-1793, Supplement 2

cc: See next page (w/o enclosure)

NOTICE: Document transmitted herewith contains sensitive unclassified information. When separated from the enclosure this cover letter is "DECONTROLLED."

R. Sisk

-2-

pursuant to the criteria of 10 CFR 2.390. Based on your response, both a publicly available, non-sensitive and non-publicly available, sensitive version will be created.

Please note that the letter and the attached enclosure taken-together are proprietary. When the letter is detached from the enclosure, the letter becomes non-proprietary.

Please feel free to contact Perry Buckberg, the Project Manager for Chapter 5, at (301) 415-1383 or perry.buckberg@nrc.gov, with any comments, concerns or questions.

Sincerely,

/RA/

Eileen M. McKenna, Chief
AP1000 Projects Branch 2
Division of New Reactor Licensing
Office of New Reactors

Docket No. 52-006

Enclosure:
Safety Evaluation, Chapter 5, NUREG-1793, Supplement 2

cc: See next page (w/o enclosure)

NOTICE: Document transmitted herewith contains sensitive unclassified information. When separated from the enclosure this cover letter is "DECONTROLLED."

DISTRIBUTION:

PUBLIC

NWE2 r/f

RidsNroDsra

EMcKenna

JDixonHerrity

RidsNroDnrl

DTerao

DJaffe

PBuckberg

RidsNroDnrlNwe2

RidsNroDE

AHodgdon

TFrye

JDonoghue

ADAMS Accession No: **ML102250118 (Letter) ML102250126 (Package)**
ML102250159 (SER)

NRO-002

OFFICE	NWE2/DNRL:LA	NWE2/DNRL:PM	NWE2/DNRL:BC	OGC	CIB1/DE:BC	EMB1/DE:BC
NAME	RButler	DJaffe for PBuckberg	EMcKenna	AHodgdon	DTerao	AHsia for JDixonHerrity
DATE	8/23/10	8/18/10	8/25/10	8/20/10	8/18/10	8/12/10
OFFICE	SRSB/DSRA:BC					
NAME	JDonoghue					
DATE	8/12/10					

OFFICIAL RECORD COPY

DC Westinghouse - AP1000 Mailing List

(Revised 06/29/2010)

cc:

Ms. Sara Barczak
Southern Alliance for Clean Energy
P.O. Box 8282
Savannah, GA 31401

Mr. Tom Sliva
7207 IBM Drive
Charlotte, NC 28262

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

Mr. Ed Wallace
General Manager - Projects
PBMR Pty LTD
P. O. Box 9396
Centurion 0046
Republic of South Africa

Mr. Barton Z. Cowan, Esquire
Agency
Eckert Seamans Cherin & Mellott, LLC
600 Grant Street, 44th Floor
Pittsburgh, PA 15219

Mr. Gary Wright, Director
Division of Nuclear Facility Safety
Illinois Emergency Management

1035 Outer Park Drive
Springfield, IL 62704

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

Ms. Sophie Gutner
P.O. Box 4646
Glen Allen, VA 23058

Ms. Sharon Bowyer Hudson
Office of Regulatory Staff
State of South Carolina
1401 Main Street
Suite 900
Columbia, SC 29201

Rita Kilpatrick
250 Arizona Ave.
Atlanta, GA 30307

Mr. Ronald Kinney
South Carolina DHEC
2600 Bull Street
Columbia, SC 29201

DC Westinghouse - AP1000 Mailing List

Email

agaughtm@southernco.com (Amy Aughtman)
alsterdis@tva.gov (Andrea Sterdis)
amonroe@scana.com (Amy Monroe)
Antonio.Fernandez@FPL.com (Antonio Fernandez)
APAGLIA@Scana.com (Al Paglia)
APH@NEI.org (Adrian Heymer)
awc@nei.org (Anne W. Cottingham)
bgattoni@roe.com (William (Bill) Gattoni)
Bill.Jacobs@gdsassociates.com (Bill Jacobs)
BrinkmCB@westinghouse.com (Charles Brinkman)
Carellmd@westinghouse.com (Mario D. Carelli)
cberger@energetics.com (Carl Berger)
chris.maslak@ge.com (Chris Maslak)
crpierce@southernco.com (C.R. Pierce)
CumminWE@Westinghouse.com (Edward W. Cummins)
cwaltman@roe.com (C. Waltman)
david.hinds@ge.com (David Hinds)
david.lewis@pillsburylaw.com (David Lewis)
Derinda.Bailey@chguernsey.com (Derinda Bailey)
doug.ellis@shawgrp.com (Doug Ellis)
eddie.grant@excelservices.com (Eddie Grant)
erg-xl@cox.net (Eddie R. Grant)
fbelser@regstaff.sc.gov
gcesare@enercon.com (Guy Cesare)
George.Madden@fpl.com (George Madden)
gwcurtis2@tva.gov (G. W. Curtis)
gzinke@entergy.com (George Alan Zinke)
ian.c.rickard@us.westinghouse.com (Ian C. Richard)
james.beard@gene.ge.com (James Beard)
jerald.head@ge.com (Jerald G. Head)
jflitter@regstaff.sc.gov
jgutierrez@morganlewis.com (Jay M. Gutierrez)
jim.riccio@wdc.greenpeace.org (James Riccio)
john.elnitsky@pgnmail.com (John Elnitsky)
Joseph_Hegner@dom.com (Joseph Hegner)
junichi_uchiyama@mnes-us.com (Junichi Uchiyama)
KSutton@morganlewis.com (Kathryn M. Sutton)
kwaugh@impact-net.org (Kenneth O. Waugh)
lchandler@morganlewis.com (Lawrence J. Chandler)
lindg1da@westinghouse.com (Don Lindgren)
Marc.Brooks@dhs.gov (Marc Brooks)
maria.webb@pillsburylaw.com (Maria Webb)
marilyn.kray@exeloncorp.com
mark.beaumont@wsms.com (Mark Beaumont)

DC Westinghouse - AP1000 Mailing List

Mark.Crisp@chguernsey.com (Mark Crisp)
matias.travieso-diaz@pillsburylaw.com (Matias Travieso-Diaz)
maurerbf@westinghouse.com (Brad Maurer)
media@nei.org (Scott Peterson)
Mitch.Ross@fpl.com (Mitch Ross)
MSF@nei.org (Marvin Fertel)
mwetterhahn@winston.com (M. Wetterhahn)
nirsnet@nirs.org (Michael Mariotte)
nscjiangguang@sina.com (Jiang Guang)
Nuclaw@mindspring.com (Robert Temple)
patriciaL.campbell@ge.com (Patricia L. Campbell)
Paul.Jacobs@fpl.com (Paul Jacobs)
Paul@beyondnuclear.org (Paul Gunter)
pshastings@duke-energy.com (Peter Hastings)
Raymond.Burski@fpl.com (Raymond Burski)
rclary@scana.com (Ronald Clary)
rgrumbir@gmail.com (Richard Grumbir)
Richard.Orthen@fpl.com (Richard Orthen)
RJB@NEI.org (Russell Bell)
robert.kitchen@pgnmail.com (Robert H. Kitchen)
rong-pan@263.net (Pan Rong)
Russell.Wells@Areva.com (Russell Wells)
sabinski@suddenlink.net (Steve A. Bennett)
sandra.sloan@areva.com (Sandra Sloan)
saporito3@gmail.com (Thomas Saporito)
sara@cleanenergy.org
sfrantz@morganlewis.com (Stephen P. Frantz)
shudson@regstaff.sc.gov (Shannon Hudson)
sisk1rb@westinghouse.com (Rob Sisk)
sroetger@psc.state.ga.us (Steve Roetger)
stephan.moen@ge.com (Stephan Moen)
Steve.Franzone@fpl.com (Steve Franzzone)
steven.hucik@ge.com (Steven Hucik)
strambgb@westinghouse.com (George Stramback)
Tansel.Selekler@nuclear.energy.gov (Tansel Selekler)
tdurkin@energetics.com (Tim Durkin)
Timothy.Beville@nuclear.energy.gov (Tim Beville)
tom.miller@hq.doe.gov (Tom Miller)
tomccall@southernco.com (Tom McCallum)
TomClements329@cs.com (Tom Clements)
trsmith@winston.com (Tyson Smith)
Vanessa.quinn@dhs.gov (Vanessa Quinn)
vijukrp@westinghouse.com (Ronald P. Vijuk)
Wanda.K.Marshall@dom.com (Wanda K. Marshall)
wayne.marquino@ge.com (Wayne Marquino)

DC Westinghouse - AP1000 Mailing List

whorin@winston.com (W. Horin)

william.maher@fpl.com (William Maher)