October 19, 2009

Ms. Sandra M. Sloan
Manager of Regulatory Affairs
New Plants Deployment
AREVA NP Inc.
3315 Old Forest Road
Lynchburg, VA 24506-0935

SUBJECT: EPR DESIGN CERTIFICATION APPLICATION - SAFETY EVALUATION REPORT WITH OPEN ITEMS FOR CHAPTER 10, "STEAM AND POWER CONVERSION SYSTEM"

Dear Ms. Sloan:

By letter dated December 11, 2007, as supplemented by letters dated February 7, 2008, and February 20, 2008, AREVA NP Inc. (AREVA) submitted an application to the U.S. Nuclear Regulatory Commission (NRC) for a standard design certification (DC) of the U.S. EPR, pursuant to Title 10 of the Code of Federal Regulations (10 CFR) Part 52, "Licenses, Certifications, and Approvals for Nuclear Power Plants." Subsequent to the original application, AREVA has submitted Revision 1 of the U.S. EPR Final Safety Analysis Report (FSAR) by letter dated May 29, 2009 (Agencywide Documents Access and Management System [ADAMS] ML091670376). Revision 1 of the FSAR includes changes associated with responses to NRC Requests for Additional Information (RAIs) submitted through April 2009.

Based on our review of the application, the staff prepared the enclosed Safety Evaluation Report (SER), ADAMS ML090780725, with Open Items for Chapter 10, "Steam and Power Conversion System." Unless otherwise stated in the SER with Open Items, the staff's review was based on Revision 0 of the application and AREVA's responses to RAIs. The SER with Open Items is being provided to support the upcoming meeting of the subcommittee of the Advisory Committee on Reactor Safeguards (ACRS) scheduled to be held in November 2009. The ACRS Full Committee meeting will be held at a later date. Issuance of this SER is an important milestone in the staff's review to determine whether AREVA's application meets the Commission's regulations.

The open items identified in the SER have been previously provided to you as RAIs with the same identifying number. These open items are expected to be resolved during the Phase 4 review of your application. As such, the schedule we have established for your application assumes technically correct and complete response to the RAIs prior to the start of Phase 4 review of Chapter 10 of the FSAR. If you are unable to provide an answer prior to the start of Phase 4 review, it is expected that a date for receipt of this information will be provided so that the staff can assess how this information will impact the overall review schedule.

The staff concludes that the enclosed SER with Open Items does not contain any information for which exemption from public disclosure has been sought or approved. However, the NRC will withhold the enclosed SER from public disclosure for ten calendar days from the date of this letter to allow the opportunity to verify the staff's conclusion that the SER contains no such exempt information. If within that time, you do not request that all or portions of the SER be withheld from public disclosure in accordance with 10 CFR 2.390, "Public Inspections, Exemptions, Requests for Withholding," the enclosure will be made available for public inspection through the NRC's Public Document Room and the Publicly Available Records component of the NRC's ADAMS. ADAMS is accessible from the Public Electronic Reading Room section of the NRC Web site at http://www.nrc.gov/reading-rm/adams.html.

If you have any questions or comments concerning this matter, I can be reached at 301-415-3361 or via e-mail address at getachew.tesfaye@nrc.gov.

Sincerely,

/RA/

Getachew Tesfaye, Sr. Project Manager
EPR Projects Branch
Division of New Reactor Licensing
Office of New Reactors

Docket No. 52-020

Enclosure:
As stated

cc: See next page

The staff concludes that the enclosed SER with Open Items does not contain any information for which exemption from public disclosure has been sought or approved. However, the NRC will withhold the enclosed SER from public disclosure for ten calendar days from the date of this letter to allow the opportunity to verify the staff's conclusion that the SER contains no such exempt information. If within that time, you do not request that all or portions of the SER be withheld from public disclosure in accordance with 10 CFR 2.390, "Public Inspections, Exemptions, Requests for Withholding," the enclosure will be made available for public inspection through the NRC's Public Document Room and the Publicly Available Records component of the NRC's ADAMS. ADAMS is accessible from the Public Electronic Reading Room section of the NRC Web site at http://www.nrc.gov/reading-rm/adams.html.

If you have any questions or comments concerning this matter, I can be reached at 301-415-3361 or via e-mail address at getachew.tesfaye@nrc.gov.

Sincerely,

/RA/

Getachew Tesfaye, Sr. Project Manager
EPR Projects Branch
Division of New Reactor Licensing
Office of New Reactors

Docket No. 52-020

Enclosure:
As stated

cc: See next page

DISTRIBUTION:
PUBLIC
NARP R/F
GTesfaye, NRO
PHearn, NRO
JMcLellan, NRO
DWidmayer, ACRS
J.Colaccino, NRO
NRO RidNroDnrlResource
RidsNroDnrlNarpResource
RidsOgcMailCenterResource
RidsAcrsAcnwMailCenterResource
RidsRgn2MailCenterResource

ADAMS Accession Numbers:
PKG: ML092510161
LETTER: ML092510177
SER: ML090780725

NRO-002

OFFICE	DNRL/NARP:PM	DNRL/NARP:LA	DNRL/NARP:PM	DSRA/SBPA:BC
NAME	PHearn	JMcLellan	GTesfaye	JSegala
DATE	09/08/09	09/08/09	10/15/09	10/15/09
OFFICE	DE/CIB1:BC	DSRA/SRSB:BC	DNRL/NARP:BC	
NAME	DTerao	JDonoghue	JColaccino	
DATE	10/15/09	09/11/09	10/19/09	

OFFICIAL RECORD COPY

DC AREVA - EPR Mailing List (Revised 03/16/2009)

cc:

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

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

Dr. Charles L. King
Licensing Manager, IRIS Project
Westinghouse Electric Company
Science and Technology Department
20 International Drive
Windsor, CT 06095

Ms. Sherry McFaden
Framatome NP, Inc.
3315 Old Forest Road, OF-16
Lynchburg, VA 24501

Mr. Steve Seitz
AREVA
100 Dean Road
East Lyme, CT 06333

Mr. Tom Sliva
7207 IBM Drive
Charlotte, NC 28262

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

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

DC AREVA - EPR Mailing List

Email

alex.miller@hse.gsi.gov.uk (Alex Miller)
APH@NEI.org (Adrian Heymer)
awc@nei.org (Anne W. Cottingham)
bob.brown@ge.com (Robert E. Brown)
BrinkmCB@westinghouse.com (Charles Brinkman)
carey.fleming@constellation.com (Carey Fleming)
chris.maslak@ge.com (Chris Maslak)
cwaltman@roe.com (C. Waltman)
david.hinds@ge.com (David Hinds)
david.lewis@pillsburylaw.com (David Lewis)
erg-xl@cox.net (Eddie R. Grant)
gcesare@enercon.com (Guy Cesare)
greshaja@westinghouse.com (James Gresham)
james.beard@gene.ge.com (James Beard)
james.p.mcquighan@constellation.com (Jim McQuighan)
jason.parker@pillsburylaw.com (Jason Parker)
jgutierrez@morganlewis.com (Jay M. Gutierrez)
jim.riccio@wdc.greenpeace.org (James Riccio)
JJNesrsta@cpsenergy.com (James J. Nesrsta)
John.O'Neill@pillsburylaw.com (John O'Neill)
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)
Marc.Brooks@dhs.gov (Marc Brooks)
maria.webb@pillsburylaw.com (Maria Webb)
mark.beaumont@wsms.com (Mark Beaumont)
matias.travieso-diaz@pillsburylaw.com (Matias Travieso-Diaz)
mbowling@numarkassoc.com (Marty Bowling)
media@nei.org (Scott Peterson)
mike_moran@fpl.com (Mike Moran)
MSF@nei.org (Marvin Fertel)
mwetterhahn@winston.com (M. Wetterhahn)
nirsnet@nirs.org (Michael Mariotte)
patriciaL.campbell@ge.com (Patricia L. Campbell)
paul.gaukler@pillsburylaw.com (Paul Gaukler)
Paul@beyondnuclear.org (Paul Gunter)
pshastings@duke-energy.com (Peter Hastings)
RJB@NEI.org (Russell Bell)
RKTemple@cpsenergy.com (R.K. Temple)
Ronda.pederson@areva.com (Ronda Pederson)
rrsgarro@pplweb.com (Rocco Sgarro)

DC AREVA - EPR Mailing List

russell.wells@areva.com (Russell Wells)
sabinski@suddenlink.net (Steve A. Bennett)
sandra.sloan@areva.com (Sandra Sloan)
sfrantz@morganlewis.com (Stephen P. Frantz)
stephan.moen@ge.com (Stephan Moen)
steven.hucik@ge.com (Steven Hucik)
tkkibler@scana.com (Tria Kibler)
tlharpster@pplweb.com (Terry Harpster)
tom.miller@hq.doe.gov (Tom Miller)
trsmith@winston.com (Tyson Smith)
Vanessa.quinn@dhs.gov (Vanessa Quinn)
VictorB@bv.com (Bill Victor)
vijukrp@westinghouse.com (Ronald P. Vijuk)
Wanda.K.Marshall@dom.com (Wanda K. Marshall)
wayne.marquino@ge.com (Wayne Marquino)
whorin@winston.com (W. Horin)