

October 25, 2011

MEMORANDUM TO: Joseph Colaccino, Chief
EPR Projects Branch
Division of New Reactor Licensing
Office of New Reactors

FROM: David H. Jaffe, Senior Project Manager */RA/*
EPR Projects Branch
Division of New Reactor Licensing
Office of New Reactors

SUBJECT: REGULATORY AUDIT: SEISMIC MARGINS ANALYSIS CHAPTER 19,
SECTION 19.1.5.1 OF THE AREVA NP, INC., U.S. EPR FINAL SAFETY
ANALYSIS REPORT

By letter dated December 11, 2007, AREVA NP Inc., submitted its application for design certification of its single unit U.S. EPR design, to the U.S. Nuclear Regulatory Commission (NRC), in accordance with the requirements contained in Title 10 of the *Code of Federal Regulations* (10 CFR) Part 52, "Licenses, Certifications, and Approvals for Nuclear Power Plants."

On September 25 and 26, 2011, staff from NRC's Office of New Reactors (NRO) Structural Engineering Branch (SEB2), Probabilistic Risk Assessment and Severe Accident Branch (SPRA) and EPR Projects Branch (NARP), conducted an audit of the U.S. EPR Seismic Margins Analysis (SMA) at the AREVA offices in Marlborough, Massachusetts. The SMA provides risk insights associated with beyond the design-basis earthquakes for the design. The Audit did not identify any technical issues but did result in recommendations on improvement in the area of documentation. An audit plan was developed and submitted to AREVA in advance of the audit. The Audit Report is enclosed.

CONTACT: David H. Jaffe, NRO/DNRL/NARP
301-415-1439

Docket No.: 52-020

Enclosure:
The Audit Report

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GTesfaye DJaffe
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HPhan
JColaccino

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OFFICE	DNRL/NARP: PM	DNRL/NARP: LA	DE/SEB2: LPM	DNRL/NARP: PM
NAME	DJaffe	JMcLellan (kay Goldstein for)	JXu	DJaffe
DATE	10/14/11	10/18/11	10/18/11	10/25/11

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DC AREVA - EPR Mailing List
cc:

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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
AREVA NP Inc.
3315 Old Forest Road, OF-16
Lynchburg, VA 24501

Mr. Tony Robinson
AREVA NP, Inc.
3315 Old Forest Road
Lynchburg, VA 24501

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

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

alau@washdc.whitecase.com (Albie Lau)
APH@NEI.org (Adrian Heymer)
awc@nei.org (Anne W. Cottingham)
bgattoni@roe.com (William (Bill) Gattoni)
BrinkmCB@westinghouse.com (Charles Brinkman)
cwaltman@roe.com (C. Waltman)
darrell.gardner@areva.com (Darrell Gardner)
david.hinds@ge.com (David Hinds)
david.lewis@pillsburylaw.com (David Lewis)
dennis.williford@areva.com (Dennis Williford)
erg-xl@cox.net (Eddie R. Grant)
gcesare@enercon.com (Guy Cesare)
greg.gibson@unistarnuclear.com (Greg Gibson)
james.beard@gene.ge.com (James Beard)
james.p.mcquighan@constellation.com (Jim McQuighan)
jason.parker@pillsburylaw.com (Jason Parker)
jerald.head@ge.com (Jerald G. Head)
jim.riccio@wdc.greenpeace.org (James Riccio)
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)
Len.Gucwa.ext@areva.com (Len Gucwa)
Marc.Brooks@dhs.gov (Marc Brooks)
maria.webb@pillsburylaw.com (Maria Webb)
mark.beaumont@wsms.com (Mark Beaumont)
Martin.Bryan.ext@AREVA.com (Martin Bryan)
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)
Nuclaw@mindspring.com (Robert Temple)
patriciaL.campbell@ge.com (Patricia L. Campbell)
paul.gaukler@pillsburylaw.com (Paul Gaukler)
Paul@beyondnuclear.org (Paul Gunter)
pbessette@morganlewis.com (Paul Bessette)
pshastings@duke-energy.com (Peter Hastings)
RJB@NEI.org (Russell Bell)
rrsgarro@pplweb.com (Rocco Sgarro)
sabinski@suddenlink.net (Steve A. Bennett)

DC AREVA - EPR Mailing List

sandra.sloan@areva.com (Sandra Sloan)
sfrantz@morganlewis.com (Stephen P. Frantz)
stephan.moen@ge.com (Stephan Moen)
Steve.Graham@hse.gsi.gov.uk (Steve Graham)
steven.hucik@ge.com (Steven Hucik)
strambgb@westinghouse.com (George Stramback)
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)
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)