

February 7, 2008

Mr. Charles G. Pardee
Chief Nuclear Officer and Senior Vice President
Exelon Generation Company, LLC
200 Exelon Way
Kennett Square, PA 19348

SUBJECT: PEACH BOTTOM ATOMIC POWER STATION, UNITS 2 AND 3 LICENSE
AMENDMENT REQUEST FOR APPLICATION OF ALTERNATIVE SOURCE
TERM

Dear Mr. Pardee:

By letter to the Nuclear Regulatory Commission (NRC) dated July 13, 2007 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML072570151), Exelon Generation Company, LLC (the licensee), submitted a License Amendment Request (LAR) for application of Alternative Source Term at Peach Bottom Atomic Power Station, Units 2 and 3. The NRC staff has reviewed the request submitted by the licensee and has identified a need for additional information as set forth in the Enclosure.

The draft questions were sent to David Helker, from your staff, to ensure that the questions were understandable, the regulatory basis for the questions was clear, and to determine if the information was previously docketed. On February 6, 2008, Mr. Helker indicated that the licensee will submit a response by February 29, 2008. Please note that if you do not respond to this letter by this date or provide an acceptable alternate date in writing, we may reject your application for amendment under the provisions of Title 10 of the *Code of Federal Regulations*, Section 2.108. If you have any questions, please contact John Hughey at (301) 415-3204.

Sincerely,

/ra/

John D. Hughey, Project Manager
Plant Licensing Branch I-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-277 and 50-278

cc: See next page

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ADAMS Accession Number: ML080380090 *by memo dated

OFFICE	LPL1-2/PM	LPL1-2/LA	EMCB/BC	LPL1-2/BC
NAME	JHughey	ABaxter	KManloy*	HChernoff (w/ comment)
DATE	02/07/2008	02/07/2008	01/30/2008	02/07/2008

OFFICIAL RECORD COPY

Peach Bottom Atomic Power Station, Unit Nos. 2 and 3
cc:

Site Vice President
Peach Bottom Atomic Power Station
Exelon Generation Company, LLC
1848 Lay Road
Delta, PA 17314

Plant Manager
Peach Bottom Atomic Power Station
Exelon Generation Company, LLC
1848 Lay Road
Delta, PA 17314

Regulatory Assurance Manager
Peach Bottom Atomic Power Station
Exelon Generation Company, LLC
1848 Lay Road
Delta, PA 17314

Chief Operating Officer (COO)
Exelon Nuclear
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville, IL 60555

Resident Inspector
U.S. Nuclear Regulatory Commission
Peach Bottom Atomic Power Station
P.O. Box 399
Delta, PA 17314

Regional Administrator, Region I
U.S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406

Mr. Roland Fletcher
Department of Environment
Radiological Health Program
2400 Broening Highway
Baltimore, MD 21224

Correspondence Control Desk
Exelon Generation Company, LLC
200 Exelon Way, KSA 1N1
Kennett Square, PA 19348

Director, Bureau of Radiation Protection
Pennsylvania Department of
Environmental Protection
Rachel Carson State Office Building
P.O. Box 8469
Harrisburg, PA 17105-8469

Board of Supervisors
Peach Bottom Township
545 Broad Street Ext.
Delta, PA 17314-9203

Mr. Richard McLean
Power Plant and Environmental
Review Division
Department of Natural Resources
B-3, Tawes State Office Building
Annapolis, MD 21401

Dr. Judith Johnsrud
National Energy Committee
Sierra Club
433 Orlando Avenue
State College, PA 16803

Manager-Financial Control & Co-Owner
Affairs
Public Service Electric and Gas Company
P.O. Box 236
Hancocks Bridge, NJ 08038-0236

Manager Licensing-Peach Bottom
Atomic Power Station
Exelon Generation Company, LLC
P.O. Box 160
Kennett Square, PA 19348

Vice President - Licensing and Regulatory
Affairs
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville, IL 60555

Peach Bottom Atomic Power Station, Unit Nos. 2 and 3
cc:

Senior Vice President-Mid-Atlantic
Operations
Exelon Generation Company, LLC
200 Exelon Way, KSA 3-N
Kennett Square, PA 19348

Senior Vice President – Operations Support
Exelon Generation Company, LLC
200 Exelon Way, KSA 3-N
Kennett Square, PA 19348

Director – Licensing and Regulatory Affairs
Exelon Generation Company LLC
Correspondence Control
P.O. Box 160
Kennett Square, PA 19348

Associate General Counsel
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville, IL 60555

REQUEST FOR ADDITIONAL INFORMATION
REGARDING LICENSE AMENDMENT REQUEST
FOR THE APPLICATION OF ALTERNATIVE SOURCE TERM AT
PEACH BOTTOM ATOMIC POWER STATION, UNITS NO. 2 AND 3
DOCKET NOS. 50-277 AND 50-278

By letter dated July 13, 2007 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML072570151), Exelon Generation Company, LLC (the licensee), submitted a License Amendment Request (LAR) for application of Alternative Source Term at Peach Bottom Atomic Power Station, Units 2 and 3. The Nuclear Regulatory Commission (NRC) staff has reviewed the LAR provided in the July 13, 2007, submittal. In order for the NRC staff to complete its evaluation, response to the following requests for additional information (RAI) questions is requested.

EMCB RAI 1

In reference to the main steam isolation valve (MSIV) leakage path, Table B, item 6.5, in Attachment 7 of the LAR states that "All piping credited is seismically analyzed to assure the piping wall integrity during and after a seismic (safe shutdown earthquake [SSE]) event." Provide a description of piping systems that are credited in the proposed alternative source term (AST). For each effected piping system discuss the method for seismic qualification. Also clarify whether the Boiling Water Reactor Owners Group (BWROG) approach described in the GE topical report NEDC-31858P, "BWROG Report for Increasing MSIV Leakage Limits and Elimination of Leakage Control Systems," has been utilized in the proposed AST. If report NEDC-31858P has been utilized in the proposed AST, show how the nine limitations listed in the NRC staff's Safety Evaluation (ADAMS Accession No. ML010640286) of the topical report have been addressed.

EMCB RAI 2

On page 22 of Attachment 1 of the AST application, six items are listed as necessary for justifying the lack of redundancy of active components in the Standby Liquid Control (SLC) system. Item two (2) indicates the need for providing the design-basis conditions for each active component and the environmental and seismic conditions under which the component may be required to operate during a design-basis accident. Please provide the seismic conditions under which active component III-Remote switch RMS-2(3)-11A-S001 (page 27 of Attachment 1 of the AST application) may be required to operate during a design-basis accident and describe how its seismic adequacy has been evaluated.

EMCB RAI 3

Verify whether there are any HVAC ducts, air handling units and/or other HVAC components that are credited in the proposed AST. If affirmative, discuss the methodology used for the HVAC seismic qualification.

Enclosure