

March 10, 2006

C. N. Swenson
Site Vice President
AmerGen Energy Company, LLC
P.O. Box 388
Forked River, NJ 08731-0388

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE
OYSTER CREEK NUCLEAR GENERATING STATION, LICENSE RENEWAL
APPLICATION (TAC NO. MC7624)

Dear Mr. Swenson:

By letter dated July 22, 2005, AmerGen Energy Company, LLC (AmerGen or the applicant) submitted to the U.S. Nuclear Regulatory Commission (NRC or the staff) an application pursuant to Title 10 of the *Code of Federal Regulations* Part 54 (10 CFR Part 54), to renew the operating license for Oyster Creek Nuclear Generating Station. The NRC staff is reviewing the information contained in the license renewal application and has identified, in the enclosure, an area where additional information is needed to complete the review.

These questions were discussed with a member of your staff, Mr. John Huffnagel, and a mutually agreeable date for this response is within 30 days from the date of this letter. If you have any questions, please contact me at 301-415-3191 or via e-mail at DJA1@nrc.gov.

Sincerely,

/RA/

Donnie J. Ashley, Project Manager
License Renewal Branch A
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket No. 50-219

Enclosure:
As stated

cc w/encl: See next page

March 10, 2006

C. N. Swenson
Site Vice President
AmerGen Energy Company, LLC
P.O. Box 388
Forked River, NJ 08731-0388

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE
OYSTER CREEK NUCLEAR GENERATING STATION, LICENSE RENEWAL
APPLICATION (TAC NO. MC7624)

Dear Mr. Swenson:

By letter dated July 22, 2005, AmerGen Energy Company, LLC (AmerGen or the applicant) submitted to the U.S. Nuclear Regulatory Commission (NRC or the staff) an application pursuant to Title 10 of the *Code of Federal Regulations* Part 54 (10 CFR Part 54), to renew the operating license for Oyster Creek Nuclear Generating Station. The NRC staff is reviewing the information contained in the license renewal application and has identified, in the enclosure, an area where additional information is needed to complete the review.

These questions were discussed with a member of your staff, Mr. John Huffnagel, and a mutually agreeable date for this response is within 30 days from the date of this letter. If you have any questions, please contact me at 301-415-3191 or via e-mail at DJA1@nrc.gov.

Sincerely,

/RA/

Donnie J. Ashley, Project Manager
License Renewal Branch A
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket No. 50-219

Enclosure:
As stated

cc w/encl: See next page

DISTRIBUTION: See next page

Adams accession no.: ML060550317

Document Name: C:\MyFiles\Copies\Oyster Creek RAI - Hans_Ashar_drywell-.wpd

OFFICE	PM:RLRA:DLR	LA:RLRA:DLR	BC:RLRA:DLR
NAME	DJAshley	YEdmonds	LLund
DATE	03/ 09 /06	03/ 10 /06	03/ 10 /06

OFFICIAL RECORD COPY

Oyster Creek Nuclear Generating Station

cc:

Site Vice President - Oyster Creek
Nuclear Generating Station
AmerGen Energy Company, LLC
P.O. Box 388
Forked River, NJ 08731

Senior Vice President of
Operations
AmerGen Energy Company, LLC
200 Exelon Way, KSA 3-N
Kennett Square, PA 19348

Kathryn M. Sutton, Esquire
Morgan, Lewis, & Bockius LLP
1111 Pennsylvania Avenue, NW
Washington, DC 20004

Kent Tosch, Chief
New Jersey Department of
Environmental Protection
Bureau of Nuclear Engineering
CN 415
Trenton, NJ 08625

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

Regional Administrator, Region I
U.S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406-1415

Mayor of Lacey Township
818 West Lacey Road
Forked River, NJ 08731

Senior Resident Inspector
U.S. Nuclear Regulatory Commission
P.O. Box 445
Forked River, NJ 08731

AmerGen Energy Company, LLC
Correspondence Control
P.O. Box 160
Kennett Square, PA 19348

Manager Licensing - Oyster Creek
Exelon Generation Company, LLC
Correspondence Control
P.O. Box 160
Kennett Square, PA 19348

Regulatory Assurance Manager
Oyster Creek
AmerGen Energy Company, LLC
P.O. Box 388
Forked River, NJ 08731

Assistant General Counsel
AmerGen Energy Company, LLC
200 Exelon Way
Kennett Square, PA 19348

Ron Bellamy, Region I
U.S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406-1415

Correspondence Control Desk
AmerGen Energy Company, LLC
200 Exelon Way, KSA 1—1
Kennett Square, PA 19348

Oyster Creek Nuclear Generating Station
Plant Manager
AmerGen Energy Company, LLC
P.O. Box 388
Forked River, NJ 08731

License Renewal Manager
Exelon Generation Company, LLC
200 Exelon Way, Suite 230
Kennett Square, PA 19348

Director - Licensing and Regulatory Affairs

Oyster Creek Nuclear Generating Station

cc:

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

Mr. Michael P. Gallagher
Vice President License Renewal
Exelon Generation Company, LLC
200 Exelon Way, Suite 230
Kennett Square, PA 19348

Mr. Christopher M. Crane
President and Chief Nuclear Officer
AmerGen Energy Company, LLC
4300 Winifield Road
Warrenville, IL 60555

Ltr. to C.N. Swenson from Donnie Ashley dated: March 10, 2006

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE
OYSTER CREEK NUCLEAR GENERATING STATION, LICENSE RENEWAL
APPLICATION (TAC NO. MC7624)

Adams accession no.: **ML060550317**

DISTRIBUTION:

JFair
RWeisman
AMurphy
RPettis
GGalletti
CLi
GBagchi
SSmith (srs3)
SDuraiswamy
YL (Renee) Li
RidsNrrDlr
RidsNrrDlrRIra
RidsNrrDlrRIrb
RidsNrrDe
RidsNrrDci
RidsNrrEemb
RidsNrrDeEeeb
RidsNrrDeEqva
RidsNrrDss
RidsNrrDnrl
RidsOgcMailCenter
RidsNrrAdes
DLR Staff

VRodriguez
DAshley
RLaufer
GMiller
RBellamy, RI
RCureton, RI
JLilliendahl, RI
MModes, RI
MSykes, RI
AHodgdon
DShum
RidsOpaMail
RidsNrrDorl

**OYSTER CREEK NUCLEAR GENERATING STATION
LICENSE RENEWAL APPLICATION (LRA)
REQUEST FOR ADDITIONAL INFORMATION (RAI)**

RAI 4.7.2-1

Based on the monitoring of the drywell thickness to date, the staff requests the applicant to provide the following information:

- (a) For the drywell corrosion existing during the late 1980s, and the new corrosion found during the subsequent inspections, provide the process used to establish confidence that the sampling done and the areas considered for identifying the areas of corrosion has been adequate.
- (b) Provide a summary of the factors considered in establishing the minimum required drywell thickness at various elevations of the drywell.
- (c) LRA Reference 4.8-21 discusses pros and cons of various methods of mitigating the drywell shell corrosion. Provide a summary of the actual mitigating actions taken and their effectiveness.
- (d) Provide a comparative graph (or chart) showing the drywell thickness based on the assumed corrosion rate and the actual corrosion rate found after the mitigating actions were implemented.

RAI 4.7.2-2

A number of Mark I containments have experienced corrosion inside their drywells at the junction of the bottom concrete floor and the steel shell. The staff requests the applicant to provide information regarding corrosion of the drywell shell at this location or any other location of the drywell inside surfaces.

RAI 4.7.2-3

Leakage from the refueling seal has been identified as one of the reasons for accumulation of water and contamination of the sand-pocket area. The refueling water passes through the gap between the shield concrete and the drywell shell throughout the length of this inaccessible area. As there is a potential for corrosion in this area, Subsection IWE of the ASME Code would require augmented inspection of this area. The staff requests the applicant to provide a summary of inspections performed (visual and NDE) and mitigating actions taken to prevent water leaks from the refueling seal components.

Enclosure

RAI 4.7.2-4

Industry wide operating experience indicates a number of incidences of torus corrosion in Mark I containments. Neither LRA Table 3.5.2.1.1, nor AMP B.1.27 describes operating experience related to corrosion of the torus. The staff request the applicant to provide a summary of the results of IWE inspections performed on the torus, and a description of torus condition.

RAI 4.7.2-5

Drywell corrosion is a safety concern; therefore, the staff believes that the updated final safety analysis report (UFSAR) supplement, should, as a minimum, briefly describe the quantitative aspect of the drywell corrosion, and the applicant's assertions to maintain it above certain thickness to ensure that the containment could perform its intended function during the period of extended operation. The time-limited aging analysis (TLAA) and Subsection IWE of the ASME Code are the procedures by which it will maintain the containment functionality. The staff requests the applicant to address this matter.