

November 9, 2007

Mr. Michael A. Balduzzi  
Sr. Vice President and COO  
Entergy Nuclear Operations, Inc.  
Regional Operations, NE  
440 Hamilton Avenue  
White Plains, NY 10601

SUBJECT: REQUESTS FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE  
INDIAN POINT NUCLEAR GENERATING UNIT NOS. 2 AND 3, LICENSE  
RENEWAL APPLICATION

Dear Mr. Balduzzi:

By letter dated April 23, 2007, as supplemented by letters dated May 3, 2007 and June 21, 2007, Entergy Nuclear Operations, Inc., submitted an application pursuant to Title 10 of the *Code of Federal Regulations* Part 54, to renew the operating licenses for Indian Point Nuclear Generating Unit Nos. 2 and 3, for review by the U.S. Nuclear Regulatory Commission (NRC or the staff). The staff is reviewing the information contained in the license renewal application and has identified, in the enclosure, areas where additional information is needed to complete the review. Further requests for additional information may be issued in the future.

These requests for additional information were discussed with Mr. Robert Walpole, and a mutually agreeable date for the response is within 30 days from the date of this letter. If you have any questions, please contact me at 301-415-1627 or via e-mail [KJG1@nrc.gov](mailto:KJG1@nrc.gov).

Sincerely,

**/RA/**

Kimberly Green, Safety Project Manager  
Projects Branch 2  
Division of License Renewal  
Office of Nuclear Reactor Regulation

Docket Nos. 50-247 and 50-286

Enclosure:  
Requests for Additional Information

cc w/encl: See next page

November 9, 2007

Mr. Michael A. Balduzzi  
Sr. Vice President and COO  
Entergy Nuclear Operations, Inc.  
Regional Operations, NE  
440 Hamilton Avenue  
White Plains, NY 10601

SUBJECT: REQUESTS FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE  
INDIAN POINT NUCLEAR GENERATING UNIT NOS. 2 AND 3, LICENSE  
RENEWAL APPLICATION

Dear Mr. Balduzzi:

By letter dated April 23, 2007, as supplemented by letters dated May 3, 2007 and June 21, 2007, Entergy Nuclear Operations, Inc., submitted an application pursuant to Title 10 of the *Code of Federal Regulations* Part 54, to renew the operating licenses for Indian Point Nuclear Generating Unit Nos. 2 and 3, for review by the U.S. Nuclear Regulatory Commission (NRC or the staff). The staff is reviewing the information contained in the license renewal application and has identified, in the enclosure, areas where additional information is needed to complete the review. Further requests for additional information may be issued in the future.

These requests for additional information were discussed with Mr. Robert Walpole, and a mutually agreeable date for the response is within 30 days from the date of this letter. If you have any questions, please contact me at 301-415-1627 or via e-mail [KJG1@nrc.gov](mailto:KJG1@nrc.gov).

Sincerely,

**/RA/**

Kimberly Green, Safety Project Manager  
Projects Branch 2  
Division of License Renewal  
Office of Nuclear Reactor Regulation

Docket Nos. 50-247 and 50-286

Enclosure:  
Requests for Additional Information

cc w/encl: See next page  
DISTRIBUTION: See following pages

**ADAMS Accession No.** ML073060401

|        |             |          |                      |             |
|--------|-------------|----------|----------------------|-------------|
| OFFICE | PM:RPB2:DLR | LA:DLR   | OGC (nlo as revised) | BC:RPB2:DLR |
| NAME   | KGreen      | YEdmonds | STurk                | RFranovich  |
| DATE   | 11/09/07    | 11/09/07 | 11/08/07             | 11/9/07     |

OFFICIAL RECORD COPY

**INDIAN POINT NUCLEAR GENERATING UNIT NOS. 2 AND 3  
LICENSE RENEWAL APPLICATION  
REQUESTS FOR ADDITIONAL INFORMATION (RAIs)**

**RAI 2.3A.1.3-1**

The reactor coolant pressure boundary for Unit 2 is depicted on license renewal drawing LRA-9321-2738, under systems "Pressurizer" and "Reactor Coolant, Sheet 1" as denoted in page 2.3-20. Please clarify if there are any additional sheets depicting the reactor coolant pressure boundary, and if so, where they can be found in the LRA submittal. If they have not already been provided, please provide the drawing(s) to the staff.

**RAI 2.3A.2.3-1**

License renewal drawing LRA-9321-2726 (LRA page 2.3-63) depicts the "Penetration and Liner Weld Joint Channel Pressurization System." The drawing contains several line mounted components denoted by component numbers PRV PCV 1193 through PRV PCV 1200. Though the subject components are located in lines with a pressure boundary function, the components themselves are not highlighted. Clarify whether these components are within the scope of license renewal in accordance with 10 CFR 54.4(a), and subject to aging management review (AMR) in accordance with 10 CFR 54.21(a)(1). If they are excluded from the scope of license renewal and not subject to AMR, provide justification for the exclusion.

**RAI 2.3B.2.3-1**

The containment isolation support systems are described in LRA Section 2.3.2.3 and depicted on several license renewal drawings listed in LRA Section 2.3.2.3. License renewal drawing LRA-9321-27463 displays "Isolation Valve Seal Water System." The drawing contains two components, PCV 1076 and PCV 1090, which are in the pressure boundary. The components are highlighted indicating that the components are subject to an AMR; however, the sensing lines connecting these components to the main line are not highlighted. Please provide additional information to describe what these components are, their intended function, and why the sensing lines are not subject to an AMR.

**RAI 2.3B.2.3-2**

License renewal drawing LRA-9321-27263 (LRA page 2.3-63) depicts the "Penetration and Liner Weld Joint Channel Pressurization System." The drawing contains several line mounted components in the 3/8" stainless steel tubing associated with component numbers PCV 1193 through PCV 1199. Though the subject components are located in lines with a pressure boundary function, the components themselves are not highlighted. Clarify whether these components are within the scope of license renewal in accordance with 10 CFR 54.4(a), and subject to AMR in accordance with 10 CFR 54.21(a)(1). If they are excluded from the scope of license renewal and not subject to AMR, provide justification for the exclusion.

Enclosure

**RAI 2.3A.2.5-1**

License renewal drawing LRA-9321-72043 depicts the “Reactor Vessel Instrumentation System.” This drawing was referenced for Unit 2. No similar system drawing was referenced for Unit 3. It appears that the referenced drawing under Unit 2 is actually applicable to Unit 3, and the correct drawing for Unit 2 should be LRA-208798. Please confirm the correctness of the referenced drawings, and if necessary, revise this section accordingly.

Letter to M. Balduzzi from Entergy Nuclear Operations, Inc. dated November 9, 2007

DISTRIBUTION:

SUBJECT: REQUESTS FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE  
INDIAN POINT NUCLEAR GENERATING UNIT NOS. 2 AND 3, LICENSE  
RENEWAL APPLICATION

HARD COPY:

DLR RF

E-MAIL:

PUBLIC

SSmith (srs3)

SDuraiswamy

RidsNrrDir

RidsNrrDirRIra

RidsNrrDirRIrb

RidsNrrDirRIrc

RidsNrrDirReba

RidsNrrDirRebb

RidsNrrDciCvib

RidsNrrDciCpnb

RidsNrrDraAfpb

RidsNrrDeEmcb

RidsNrrDeEeeb

RidsNrrDssSbwb

RidsNrrDssSbpb

RidsNrrDssScvb

RidsOgcMailCenter

-----

BPham            DScrenci, RI OPA

JLeous           DMcIntyre, OPA

KGreen           RShane, OCA

JAyala           UShoop, OEDO

RFranovich

RAuluck

MKowal

JBoska

ECobey, RI

RConte, RI

MCox, RI

DJackson, RI

BWittick, RI

NSheehan, RI OPA

SBurnell, OPA

Indian Point Nuclear Generating  
Units 2 and 3

cc:

Mr. Michael R. Kansler  
President & CEO / CNO  
Entergy Nuclear Operations, Inc.  
1340 Echelon Parkway  
Jackson, MS 39213

Mr. John T. Herron  
Senior Vice President  
Entergy Nuclear Operations, Inc.  
1340 Echelon Parkway  
Jackson, MS 39213

Sr. Vice President  
Engineering & Technical Services  
Entergy Nuclear Operations, Inc.  
1340 Echelon Parkway  
Jackson, MS 39213

Mr. Fred R. Dacimo  
Site Vice President  
Entergy Nuclear Operations, Inc.  
Indian Point Energy Center  
450 Broadway, GSB  
P.O. Box 249  
Buchanan, NY 10511-0249

Mr. Anthony Vitale - Acting  
General Manager, Plant Operations  
Entergy Nuclear Operations, Inc.  
Indian Point Energy Center  
450 Broadway  
P.O. Box 249  
Buchanan, NY 10511-0249

Mr. Oscar Limpias  
Vice President Engineering  
Entergy Nuclear Operations, Inc.  
1340 Echelon Parkway  
Jackson, MS 39213

Mr. Joseph P. DeRoy  
Vice President, Operations Support  
Entergy Nuclear Operations, Inc.  
1340 Echelon Parkway  
Jackson, MS 39213

Mr. John A. Ventosa  
GM, Engineering  
Entergy Nuclear Operations, Inc.  
440 Hamilton Avenue  
White Plains, NY 10601

Mr. John F. McCann  
Director, Nuclear Safety & Licensing  
Entergy Nuclear Operations, Inc.  
440 Hamilton Avenue  
White Plains, NY 10601

Ms. Charlene D. Faison  
Manager, Licensing  
Entergy Nuclear Operations, Inc.  
440 Hamilton Avenue  
White Plains, NY 10601

Mr. Ernest J. Harkness  
Director, Oversight  
Entergy Nuclear Operations, Inc.  
1340 Echelon Parkway  
Jackson, MS 39213

Mr. Patric W. Conroy  
Director, Nuclear Safety Assurance  
Entergy Nuclear Operations, Inc.  
Indian Point Energy Center  
450 Broadway, GSB  
P.O. Box 249  
Buchanan, NY 10511-0249

Mr. T.R. Jones - Acting  
Manager, Licensing  
Entergy Nuclear Operations, Inc.  
Indian Point Energy Center  
450 Broadway, GSB  
P.O. Box 249  
Buchanan, NY 10511-0249

Mr. William C. Dennis  
Assistant General Counsel  
Entergy Nuclear Operations, Inc.  
440 Hamilton Avenue  
White Plains, NY 10601

Indian Point Nuclear Generating  
Units 2 and 3

- 2 -

cc:

Mr. Paul D. Tonko  
President and CEO  
New York State Energy Research and  
Development Authority  
17 Columbia Circle  
Albany, NY 12203-6399

Mr. John P. Spath  
New York State Energy, Research and  
Development Authority  
17 Columbia Circle  
Albany, NY 12203-6399

Mr. Paul Eddy  
New York State Department  
of Public Service  
3 Empire State Plaza  
Albany, NY 12223-1350

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

Senior Resident Inspector's Office  
Indian Point 2  
U.S. Nuclear Regulatory Commission  
P.O. Box 59  
Buchanan, NY 10511

Senior Resident Inspector's Office  
Indian Point 3  
U.S. Nuclear Regulatory Commission  
P.O. Box 59  
Buchanan, NY 10511

Mr. Charles Donaldson, Esquire  
Assistant Attorney General  
New York Department of Law  
120 Broadway  
New York, NY 10271

Mayor, Village of Buchanan  
236 Tate Avenue  
Buchanan, NY 10511

Mr. Raymond L. Albanese  
Four County Coordinator  
200 Bradhurst Avenue  
Unit 4 Westchester County  
Hawthorne, NY 10532

Mr. William DiProfio  
PWR SRC Consultant  
48 Bear Hill Road  
Newton, NH 03858

Mr. Garry Randolph  
PWR SRC Consultant  
1750 Ben Franklin Drive, 7E  
Sarasota, FL 34236

Mr. William T. Russell  
PWR SRC Consultant  
400 Plantation Lane  
Stevensville, MD 21666-3232

Mr. Jim Riccio  
Greenpeace  
702 H Street, NW  
Suite 300  
Washington, DC 20001

Mr. Phillip Musegaas  
Riverkeeper, Inc.  
828 South Broadway  
Tarrytown, NY 10591

Mr. Mark Jacobs  
IPSEC  
46 Highland Drive  
Garrison, NY 10524

Indian Point Nuclear Generating  
Units 2 and 3

- 3 -

cc:

Mr. R. M. Waters  
Technical Specialist Licensing  
450 Broadway  
P.O. Box 0249  
Buchanan, NY 10511-0249

Mr. Sherwood Martinelli  
Vice President  
FUSE USA  
351 Dyckman  
Peekskill, NY 10566

Ms. Susan Shapiro, Esq.  
President  
FUSE USA  
21 Perlman Drive  
Spring Valley, NY 10977

John Sipos  
Assistant Attorney General  
New York State Department of Law  
Environmental Protection Bureau  
The Capitol  
Albany, NY 12224