

December 5, 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: REQUEST FOR ADDITIONAL INFORMATION REGARDING ENVIRONMENTAL
REVIEW FOR INDIAN POINT NUCLEAR GENERATING UNIT NOS. 2 AND 3
LICENSE RENEWAL (TAC NOS. MD5411 AND MD5412)

Dear Mr. Balduzzi:

The U.S. Nuclear Regulatory Commission (NRC) staff has reviewed the application submitted by Entergy Nuclear Operations, Inc. for the license renewal of Indian Point Nuclear Generating Unit Nos. 2 and 3, and has identified areas where additional information is needed to complete its review. Enclosed is the staff's request for additional information.

We request that you provide your responses to these questions within 30 days of the date of this letter in order to maintain the environmental review schedule. If you have any questions, please contact me at 301-415-6699 or at jsc1@nrc.gov.

Sincerely,

/RA/

Jill Caverly, Environmental Project Manager
Projects Branch 2
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket Nos. 50-247 and 50-286

Enclosure:
As stated

cc w/encl: See next page

December 5, 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: REQUEST FOR ADDITIONAL INFORMATION REGARDING ENVIRONMENTAL
REVIEW FOR INDIAN POINT NUCLEAR GENERATING UNIT NOS. 2 AND 3
LICENSE RENEWAL (TAC NOS. MD5411 AND MD5412)

Dear Mr. Balduzzi:

The U.S. Nuclear Regulatory Commission (NRC) staff has reviewed the application submitted by Entergy Nuclear Operations, Inc. for the license renewal of Indian Point Nuclear Generating Unit Nos. 2 and 3, and has identified areas where additional information is needed to complete its review. Enclosed is the staff's request for additional information.

We request that you provide your responses to these questions within 30 days of the date of this letter in order to maintain the environmental review schedule. If you have any questions, please contact me at 301-415-6699 or at jsc1@nrc.gov.

Sincerely,

/RA/

Jill Caverly, Environmental Project Manager
Projects Branch 2
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket Nos. 50-247 and 50-286

Enclosure:
As stated

cc w/encl: See next page

DISTRIBUTION: See next page

ADAMS Accession Nos. **ML073330931**

OFFICE	LA:DLR	PM:DLR:RPB2	OGC	BC:DLR:RPB2
NAME	SFiguroa	JCaverly	STurk	RFranovich
DATE	11/30/07	11/30/07	12/05/07	11/30/07

OFFICIAL RECORD COPY

Letter to M. Balduzzi From J. Caverly Dated December xx, 2007

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION REGARDING ENVIRONMENTAL
REVIEW FOR INDIAN POINT NUCLEAR GENERATING UNIT NOS. 2 AND 3
LICENSE RENEWAL (TAC NOS. MD5411 AND MD5412)

DISTRIBUTION:

HARD COPY:

DLR RF

JCaverly

E-MAIL:

PUBLIC

RidsNrrDir

RidsNrrDirRpb1

RidsNrrDirRpb2

RidsNrrDirRer1

RidsNrrDirRer2

RidsNrrDirRerb

RidsNrrDirRpob

RidsOgcMailCenter

RFranovich

BPham

KGreen

JCaverly

RAuluck

KChang

MKowal

JBoska

STurk, OGC

LSubin, OGC

BMizuno, OGC

SBurnell, OPA

DMcIntyre, OPA

EDacus, OCA

TMensah, OEDO

RConte, RI

ECobey, RI

MCox, RI

PCataldo, RI

CHott, RI

DJackson, RI

BWelling, RI

GMeyer, RI

RBarkley, RI

MMcLaughlin, RI

NMcNamara, RI

NSheehan, RI OPA

DScrenci, RI OPA

**Request for Additional Information (RAI)
Regarding the Environmental Review
For the Indian Point Nuclear Generating Unit Nos. 2 And 3
License Renewal Application**

Environmental RAI 1

Provide a copy of the final report, a preliminary version of which was briefly described in a presentation at the site audit, that discusses the development of a conceptual groundwater flow model for the Indian Point Nuclear Generating Unit Nos. 2 and 3 including monitoring well locations, sampling data, and site geology. Further, discuss the pertinence of the report to license renewal, this information is necessary to complete the review of the environmental impacts of the proposed project for groundwater and surface water resources, insofar as it may affect license renewal.

Environmental RAI 2

Provide the following information as it is necessary to complete the review of the environmental impacts for aquatic resources.

Provide a copy of Year Class Report Table E Series Density Data for Hudson River Long River Studies:

- Ichthyoplankton Survey (1974-2005 density data)
- Long River Fall Shoals (juvenile fish) Survey (1985-2005 density data)
1985-2005 employed the same gear
- Long River Beach Seine Survey (1974-2005 density data)
- Striped Bass Winter Population Survey (marked recapture)
- In-river mark recapture estimator (series of annual reports)
table with mark and recapture data
- Atlantic Tomcod Spawning Stock Survey - table with mark and recapture data

Also, provide water quality data for each study and year for Ichthyoplankton and Fall survey (March-October)

Provide the following data regarding impingement:

- Continuous sampling Unit 2 and 3 operation through 1980 (4-5 years)
1981-1990: Stratified random program 110 samples per year
Supplemental Ristroph studies 1 screen in 1985, special studies to 1990-99
- Impingement abundance to include Indian Point Monitoring Reports (1975-1990)

Provide the following data regarding entrainment:

- Abundance (# per unit volume 2 per week in April-October)
- Years of study 1981, 1983, 1985-87 (abundance)

Enclosure

Provide the following regarding data types:

- Abundance indices
- Weekly densities
- Weekly standing crops from the Barnthouse et al. report on Hudson River Fish Trends

Provide the Barnthouse et al compilation of fish trends in the Hudson River.

Environmental RAI 3

During the environmental scoping process, the NRC staff received comments (ADAMS accession nos. ML071990093 and ML073100985) which indicate that the reactor vessel heads of both Indian Point Nuclear Generating Unit Nos. 2 and 3 may be replaced in anticipation of license renewal. Please discuss whether vessel head replacements are being planned at Indian Point and if so, the relation of these plans to license renewal; and please discuss the associated impacts of such refurbishment activities on each of the pertinent environmental issues listed under Table B-1 of Appendix B to Subpart A of Part 51 of Title 10 of the *Code of Federal Regulations*.

Indian Point Generating
Unit Nos. 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 Limpas
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 Generating
Unit Nos. 2 and 3

- 2 -

cc:

Mr. Michael Balboni
Deputy Secretary for Public Safety
State Capitol, Room 229
Albany, NY 12224

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Ms. Julie Keys
Nuclear Energy Institute
1776 I Street, NW, Suite 400
Washington, DC 20006-3708

The Honorable Nita Lowey
222 Mamaroneck Avenue, Suite 310
White Plains, NY 10605

Indian Point Generating
Unit Nos. 2 and 3

- 3 -

cc:

Mr. John Sipos, Assistant Attorney General
Office of the Attorney General
The Capitol
State Street
Albany, NY 12224

Mr. Jerry Nappi
New York Affordable Reliable Electricity
Alliance
707 Westchester Avenue, Suite 302
White Plains, NY 10604

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

Ms. Susan Thaler
The Field Library
4 Nelson Avenue
Peekskill, NY 10566

Mr. Paul M. Bessette, Esq.
Morgan, Lewis & Bockius, LLP
1111 Pennsylvania Avenue, NW
Washington, DC 20004

Ms. Patricia Thorsen
White Plains Public Library
100 Martine Avenue
White Plains, NY 10601

Mr. Martin J. O'Neill, Esq.
Morgan, Lewis & Bockius, LLP
1111 Pennsylvania Avenue, NW
Washington, DC 20004

Ms. Risa Getman
Hendrick Hudson Free Library
185 Kings Ferry Road
Montrose, NY 10548

Mr. William J. Ryan, Chairman
Westchester County Board of Legislators
800 Michaelian Office Building
148 Martine Avenue
White Plains, NY 10601

Mr. Thomas J. Abinanti, Chair
Committee on Environment & Energy
Westchester County Board of Legislators
800 Michaelian Office Building
148 Martine Avenue
White Plains, NY 10601

Mr. Michael B. Kaplowitz, 4th District
Legislator
Westchester County Board of Legislators
800 Michaelian Office Building
148 Martine Avenue
White Plains, NY 10601