October 27, 2004

LICENSEE: Entergy Nuclear Operations, Inc.

FACILITY: Indian Point Nuclear Generating Unit No. 3 (IP3)

SUBJECT: SUMMARY OF SEPTEMBER 14, 2004, MEETING WITH ENTERGY NUCLEAR OPERATIONS, INC., ON APPLICATION FOR LICENSE AMENDMENT REGARDING STRETCH POWER UPRATE AT IP3 (TAC NO. MC3552)

On September 14, 2004, a Category 1 public meeting was held between the Nuclear Regulatory Commission (NRC) and representatives of Entergy Nuclear Operations, Inc. (the licensee), at NRC Headquarters, One White Flint North, 11555 Rockville Pike, Rockville, Maryland. The purpose of the meeting was to discuss the licensee's application dated June 3, 2004 (Agencywide Documents Access and Management System (ADAMS) Accession Nos. ML041620508, ML041620616, and ML041630103), for an amendment to increase licensed power by 4.85% at IP3. A list of attendees is provided as Enclosure 1.

The licensee presented information on its June 3 application and the supporting analyses described in its licensing report. The presentation closely followed the information presented in its handout slides (see Enclosure 2). The information covered the basic content of the application and specific differences between the power uprate applications for IP2 and 3. The licensee discussed the systems, components, and analyses that would be affected or modified because of the uprate such as the modifications to the high-head safety injection flow control valves, high and low pressure turbines, and main transformer monitoring system. Those systems, components, or analyses that are unaffected remain within the current design and licensing bases for the facility. As was done for the IP2 application, the licensee indicated that, in certain cases, an engineering evaluation was conducted to ensure that the analysis of record did not require a revision. The licensee also described the large-break loss-of-coolant accident analyses that were performed, including the methodologies used, to support the uprated conditions. Further, the licensee detailed the proposed changes in key analyses assumptions, analytical methods, and Technical Specifications requirements.

The NRC staff queried the licensee in several areas. The staff asked questions about: (1) the inclusion in the application of any requested approvals from the NRC to accomplish the power uprate, (2) the methodology used to determine instrument setpoints, (3) the core design at the time of implementation, and (4) the staff questions identified during the review of the IP2 power uprate application that are applicable to IP3, in particular, issues associated with the analysis of a malfunction of the charging and volume control system (CVCS) and pressurizer fracture integrity evaluation.

CONTACT: Patrick D. Milano
301-415-1457
NRR/DLPM

In response to the questions from the NRC staff, the licensee provided the following information. First, the licensee discussed the approvals that were being requested in the power uprate application and the use of assumptions described in its separate alternate source term application. Second, the licensee stated that no new instrumentation was being added to accomplish the uprate. The instrument setpoints were evaluated using Method 3 of Instrument Society of America Standard 67.01, with additional conservatism added, and this method would bound the Method 2 approach for those values being changed by the uprate. In response, the NRC staff stated that it would need more data to support the licensee's use of Method 3 versus Method 2 for determination of allowable values. Third, the licensee stated that because of the mixing grids used in the new fuel design, a mixed core penalty was taken in the analyses. Fourth, in response to the staff's questions, the licensee stated that it would add some additional clarifications about the design basis for the CVCS analysis, conformance with 10 CFR 50.68, and the calculation of stress intensities in the pressurizer fracture integrity evaluation. Lastly, the licensee stated that it would review the applicability of the staff's questions raised during the review of the IP2 application to IP3. These questions would be addressed by the licensee separately from any staff questions specific to IP3.

Members of the public were not in attendance. Public Meeting Feedback forms were not received.

Please direct any inquiries to Patrick D. Milano at 301-415-1457, or pdm@nrc.gov.

/RA/

Patrick D. Milano, Sr. Project Manager, Section 1
Project Directorate I
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket No. 50-286

Enclosures: As stated

cc w/encls: See next page

In response to the questions from the NRC staff, the licensee provided the following information. First, the licensee discussed the approvals that were being requested in the power uprate application and the use of assumptions described in its separate alternate source term application. Second, the licensee stated that no new instrumentation was being added to accomplish the uprate. The instrument setpoints were evaluated using Method 3 of Instrument Society of America Standard 67.01, with additional conservatism added, and this method would bound the Method 2 approach for those values being changed by the uprate. In response, the NRC staff stated that it would need more data to support the licensee's use of Method 3 versus Method 2 for determination of allowable values. Third, the licensee stated that because of the mixing grids used in the new fuel design, a mixed core penalty was taken in the analyses. Fourth, in response to the staff's questions, the licensee stated that it would add some additional clarifications about the design basis for the CVCS analysis, conformance with 10 CFR 50.68, and the calculation of stress intensities in the pressurizer fracture integrity evaluation. Lastly, the licensee stated that it would review the applicability of the staff's questions raised during the review of the IP2 application to IP3. These questions would be addressed by the licensee separately from any staff questions specific to IP3.

Members of the public were not in attendance. Public Meeting Feedback forms were not received.

Please direct any inquiries to Patrick D. Milano at 301-415-1457, or pdm@nrc.gov.

/RA/

Patrick D. Milano, Sr. Project Manager, Section 1
Project Directorate I
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket No. 50-286
Attachments: As stated
cc w/encls: See next page
DISTRIBUTION:

PUBLIC	M. Tshiltz	P. Milano	J. Collins	W. Lyon
PDI-1 Reading	R. Laufer	S. Little	J. Cushing	T. Mensah
C. Holden	J. Uhle	M. Barillas	B. Elliott	J. Jolicoeur, OEDO
J. Wermeil	R. Dennig	L. Lois	J. Terrell	B. McDermott, R-I
J. Hannon	J. Dixon-Herrity	Y. G. Hsii	J. Hayes	G. Matakas, R-I
J. Calvo	L. Raghavan	F. Orr	N. Trehan	OGC
E. Imbro	R. Jenkins	M. Shuaibi	P. Qualls	ACRS
W. Bateman	E. Marinos	D. Reddy	R. Lobel	
W. Ruland	S. Coffin	H. Li	C-I Wu	

ACCESSION NO.: ML042960081

OFFICE	PDI-1:PM:	PDI-1:LA	SRXB:SC	SPLB:SC	EMCB:SC	EEIB:SC	PDI-1:SC
NAME	PMilano	SLittle	JUhle	JHerrity	SCoffin	EMarinos	RLaufer
DATE	10/ 20/04	10/20/04	10/05/04	10/14/04	10/19/04	10/15/04	10/25/04

Official Record Copy

Indian Point Nuclear Generating Unit No. 3

cc:

Mr. Gary J. Taylor
Chief Executive Officer
Entergy Operations, Inc.
1340 Echelon Parkway
Jackson, MS 39213

Mr. Michael R. Kansler, President
Entergy Nuclear Operations, Inc.
440 Hamilton Avenue
White Plains, NY 10601

Mr. John T. Herron
Senior Vice President and
Chief Operating Officer
Entergy Nuclear Operations, Inc.
440 Hamilton Avenue
White Plains, NY 10601

Mr. Fred Dacimo
Site Vice President
Entergy Nuclear Operations, Inc.
Indian Point Energy Center
295 Broadway, Suite 2
P.O. Box 249
Buchanan, NY 10511-0249

Mr. Christopher Schwarz
General Manager, Plant Operations
Entergy Nuclear Operations, Inc.
Indian Point Energy Center
295 Broadway, Suite 2
P.O. Box 249
Buchanan, NY 10511-0249

Mr. Danny L. Pace
Vice President Engineering
Entergy Nuclear Operations, Inc.
440 Hamilton Avenue
White Plains, NY 10601

Mr. Brian O'Grady
Vice President Operations Support
Entergy Nuclear Operations, Inc.
440 Hamilton Avenue
White Plains, NY 10601

Mr. John McCann
Director, Nuclear Safety Assurance
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. Michael J. Colomb
Director of Oversight
Entergy Nuclear Operations, Inc.
440 Hamilton Avenue
White Plains, NY 10601

Mr. James Comiotes
Director, Nuclear Safety Assurance
Entergy Nuclear Operations, Inc.
Indian Point Energy Center
295 Broadway, Suite 1
P.O. Box 249
Buchanan, NY 10511-0249

Mr. Patric Conroy
Manager, Licensing
Entergy Nuclear Operations, Inc.
Indian Point Energy Center
295 Broadway, Suite 1
P.O. Box 249
Buchanan, NY 10511-0249

Mr. John M. Fulton
Assistant General Counsel
Entergy Nuclear Operations, Inc.
440 Hamilton Avenue
White Plains, NY 10601

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

Indian Point Nuclear Generating Unit No. 3

cc:

Senior Resident Inspector's Office
Indian Point 3
U. S. Nuclear Regulatory Commission
P.O. Box 337
Buchanan, NY 10511-0337

Mr. Peter R. Smith, President
New York State Energy, Research, and
Development Authority
17 Columbia Circle
Albany, NY 12203-6399

Mr. Paul Eddy
Electric Division
New York State Department
of Public Service
3 Empire State Plaza, 10th Floor
Albany, NY 12223

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. Ray Albanese
Executive Chair
Four County Nuclear Safety Committee
Westchester County Fire Training Center
4 Dana Road
Valhalla, NY 10592

Ms. Stacey Lousteau
Treasury Department
Entergy Services, Inc.
639 Loyola Avenue
Mail Stop: L-ENT-15E
New Orleans, LA 70113

Mr. William DiProfio
PWR SRC ConsultaNT
139 Depot Road
East Kingston, NH 03827

Mr. Dan C. Poole
PWR SRC Consultant
20 Captains Cove Road
Inglis, FL 34449

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

Mr. Alex Matthiessen
Executive Director
Riverkeeper, Inc.
25 Wing & Wing
Garrison, NY 10524

Mr. Paul Leventhal
The Nuclear Control Institute
1000 Connecticut Avenue NW
Suite 410
Washington, DC, 20036

Mr. Karl Coplan
Pace Environmental Litigation Clinic
78 No. Broadway
White Plains, NY 10603

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

Mr. Robert D. Snook
Assistant Attorney General
State of Connecticut
55 Elm Street
P.O. Box 120
Hartford, CT 06141-0120

Indian Point Nuclear Generating Unit No. 3

cc:

Mr. David Lochbaum
Nuclear Safety Engineer
Union of Concerned Scientists
1707 H Street NW, Suite 600
Washington, DC 20006

MEETING ATTENDEES

ENTERGY NUCLEAR OPERATIONS, INC.

INDIAN POINT NUCLEAR GENERATING UNIT NO. 3

SEPTEMBER 14, 2004

NRC Staff:

Name	Title	Organization
William Ruland	Director	NRR/Division of Licensing Project Management (DLPM)/Project Directorate III
Stephanie Coffin	Section Chief	NRR/Division of Engineering(DE)/Materials and Chemical Engineering Branch (EMCB)
Patrick Milano	Sr. Project Manager	NRR/DLPM/Project Directorate I
Y. Gene Hsii	Sr. Reactor Engineer	NRR/Division of Systems Safety and Analysis (DSSA)/Reactor Systems Branch (SRXB)
Martha Barillas	Reactor Systems Engineer	NRR/DSSA/SRXB
Frank Orr	Reactor Systems Engineer	NRR/DSSA/SRXB
Lambros Lois	Sr. Nuclear Engineer	NRR/DSSA/SRXB
Devender Reddy	Reactor Systems Engineer	NRR/DSSA/Plant Systems Branch
John Hayes	Sr. Health Physicist	NRR/DSSA/Probablistic Safety Assessment Branch
Jay Collins	Materials Engineer	NRR/DE/EMCB
Joseph Terrell	Materials Engineer	NRR/DE/EMCB
Hulbert Li	Sr. Electrical Engineer	NRR/DE/Electrical and I&C Branch (EEIB)
Narinder Trehan	Electrical Engineer	NRR/DE/EEIB
John Wu	Mechanical Engineer	NRR/DE/Mechanical Engineering Branch
Jack Cushing	Environmental Project Manager	NRR/Division of Regulatory Improvement Programs/Environmental Section

Entergy Nuclear Operations:

Name	Title
David Morris	Project Manager, Power Uprates
Ardesar Irani	Supervisor, Nuclear Engineering
Kevin Kingsley	NRR Project Manager
Walter Wittich	Sr. Project Manager
John Curry	Project Manager
John Jawor	Shift Manager
Floyd Gumble	Project Management

Westinghouse Electric Company:

Name	Title
Robert Laubham	Certified Sr. Project Manager
Thomas Timmons	Project Manager
William Higby	Principal Engineer
James Grover	Principal Engineer
Kent Bonadio	Sr. Engineer
George Konopka	Sr. Engineer
Charles Jackson	Consultant

Stone and Webster Engineering Corporation:

Name	Title
Paul Cafarella	Project Manager
Michael Scanlon	Project Engineer

Other Participants:

None