



Entergy Nuclear Northeast
Entergy Nuclear Operations, Inc.
Entergy Nuclear Indian Point 2, LLC
P O Box 249
Buchanan, NY 10511

February 26, 2003

Re: Indian Point Unit No. 2
Docket No. 50-247
NL-03-035

US Nuclear Regulatory Commission
Attn: Document Control Desk
Mail Station O-P1-17
Washington, DC 20555-0001

SUBJECT: Supplement 2 to the Indian Point 2 License Amendment Request for
Conversion to Improved Standard Technical Specifications

References: 1) Entergy letter (NL-02-016) to NRC, "License Amendment Request
(LAR 02-005) Conversion to Improved Standard Technical
Specifications," dated March 27, 2002
2) Entergy letter (NL-02-092) to NRC, "Supplement 1 to the Indian Point 2
License Amendment Request for Conversion to Improved Standard
Technical Specifications," dated July 10, 2002
3) Staff Requests for Additional Information regarding References 1 and 2
and associated Entergy responses (see Attachment 2)

Dear Sir:

By letter dated March 27, 2002 (Reference 1), as supplemented by letter dated July 10, 2002 (Reference 2), Entergy Nuclear Operations, Inc. (Entergy) requested to amend the Indian Point 2 (IP2) Plant Operating License, Appendices A and B, "Technical Specifications." The proposed amendment converts the IP2 Current Technical Specifications (CTS) to Improved Technical Specifications (ITS) in accordance with NUREG 1431, "Standard Technical Specifications—Westinghouse Plants," Rev. 2. References 1 and 2 indicated that the proposed ITS amendment would be periodically supplemented, as necessary, to incorporate approved amendments to the CTS. In addition, Entergy has made changes in response to Requests for Additional Information (RAIs) from the Nuclear Regulatory Commission (NRC) staff. The purpose of this supplement is to incorporate changes required by RAI responses, and to incorporate the following CTS Amendments:

- Amendment 227, "Credit for Soluble Boron and Burnup in Spent Fuel Pit," dated May 29, 2002;
- Amendment 228, "Power Range Neutron Flux High Setpoint With Inoperable Main Steam Safety Valve," dated June 4, 2002;

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- Amendment 229, "Fuel Storage Building Air Filtration System," dated June 5, 2002;
- Amendment 230, Eddy Current Probe Size for Steam Generator Tube Inspection," dated July 29, 2002;
- Amendment 231, "Reactor Vessel Material Surveillance Program," dated July 30, 2002;
- Amendment 232, "One-Time Deferral of Containment Integrated Leak Rate Test," dated August 5, 2002;
- Amendment 233, "Gas Turbine Generator Fuel Oil Storage," dated September 18, 2002;
- Amendment 234, "Individual Control Rod Position Indication," dated November 7, 2002;
- Amendment 235, "Administrative Controls to Reflect Site Integration," dated December 17, 2002 and;
- Amendment 236, "Amendment to Relocate Technical Specification Requirements for the Gas Turbine Generators to the Updated Final Safety Analysis Report and the Fire Protection Program," dated January 17, 2003

Attachment 1 to this supplement provides an index of the ITS sections that are affected by incorporation of Amendments 227 through 236 and revisions due to incorporation of previously submitted RAI responses.

Attachment 2, "Correspondence History of Responses to Requests for Additional Information," provides a list of staff RAIs and the corresponding Entergy responses. These letters described the changes that were made to the proposed ITS. To facilitate staff review, Entergy is attaching the RAIs and responses to each affected section of this supplement. In a limited number of cases for ITS Section 3.6, Containment Systems, minor changes were made at staff request to the previously docketed RAI response. These changes are reflected in the RAI responses attached to ITS Section 3.6 herewith.

Attachment 3, "List of Pending License Amendment Requests (LARs) not Reflected in ITS Submittal and Supplements," shows amendment requests currently under review by your staff. Entergy requests continued processing of the proposed LARs in parallel with the review of the ITS submittal as supplemented. Additional supplemental submittals incorporating these LARs, when approved, will be made as required. These supplements will be coordinated with the NRC staff reviewers to ensure that the ITS review is not adversely impacted.

As was done with References 1 and 2, the material constituting Supplement 2 to the ITS submittal is enclosed herewith on CD-ROM. The Supplement 2 CD-ROM includes the following:

- All the information originally transmitted by References 1 and 2;
- A copy of this supplemental cover letter and attachments; and
- The IP2 CTS through Amendment 235 (Implementation of Amendment 236 is in progress).

This supplemental letter and the CD-ROM were prepared in accordance with the guidance provided in NRC Regulatory Issue Summary 2001-05, "Guidance on Submitting Documents to the NRC by Electronic Information Exchange or on CD-ROM."

As previously described, this supplement updates the proposed ITS of References 1 and 2 to reflect previously reviewed and approved CTS Amendments 227 through 236. As such, a separate Safety Evaluation Report (SER) was issued with each CTS Amendment being incorporated by this supplement. Therefore, for the approved Amendments, this supplement has no impact on the determination of no significant hazards consideration of References 1 and 2. The RAI responses have, in some cases, resulted in new or revised no significant hazards determination evaluations and these revised evaluations have been included with the associated specification packages. This supplement has not changed the conclusion that the conversion of the Indian Point 2 Technical Specifications to Improved Technical Specifications involves no significant hazards consideration as defined by 10 CFR 50.92.

In accordance with 10 CFR 50.91, a copy of this submittal and the associated attachments are being submitted to the designated New York State official.

There are no commitments contained in this letter.

Should you or your staff have any questions regarding this matter, please contact me at (914) 734-5336.

Sincerely,

A handwritten signature in black ink, appearing to read "W.S. Blair", with a stylized flourish at the end.

William S. Blair
IP2 ITS Project Manager

Enclosure
Attachments

cc: see page 4

cc: (w/o enclosure)

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ATTACHMENT 1 TO NL-03-035

**List of Sections Affected by CTS Amendments 227, 228, 229, 230, 231, 232,
233, 234, 235 and 236 and Incorporation of RAI responses**

Revised Supplement 2 Sections

3.1.1 – Rev. 1, Supp. 2
3.1.3 – Rev. 1, Supp. 2
3.1.4 – Rev. 1, Supp. 2
3.1.5 – Rev. 1, Supp. 2
3.1.6 – Rev. 1, Supp. 2
3.1.7 – Rev. 1, Supp. 2
3.1.8 – Rev. 1, Supp. 2
3.2.1 – Rev. 1, Supp. 2
3.2.2 – Rev. 1, Supp. 2
3.2.3 – Rev. 1, Supp. 2
3.2.4 – Rev. 1, Supp. 2
3.4.1 – Rev. 1, Supp. 2
3.4.2 – Rev. 1, Supp. 2
3.4.3 – Rev. 2, Supp. 2
3.4.4 – Rev. 1, Supp. 2
3.4.5 – Rev. 1, Supp. 2
3.4.6 – Rev. 2, Supp. 2
3.4.7 – Rev. 2, Supp. 2
3.4.8 – Rev. 1, Supp. 2
3.4.9 – Rev. 1, Supp. 2
3.4.10 – Rev. 2, Supp. 2
3.4.11 – Rev. 1, Supp. 2
3.4.12 – Rev. 2, Supp. 2
3.4.13 – Rev. 2, Supp. 2
3.4.14 – Rev. 1, Supp. 2
3.4.15 – Rev. 1, Supp. 2
3.4.16 – Rev. 1, Supp. 2
3.5.1 – Rev. 1, Supp. 2
3.5.2 – Rev. 1, Supp. 2
3.5.3 – Rev. 1, Supp. 2
3.5.4 – Rev. 1, Supp. 2
3.6.1 – Rev. 1, Supp. 2
3.6.2 – Rev. 1, Supp. 2
3.6.3 – Rev. 1, Supp. 2
3.6.4 – Rev. 1, Supp. 2
3.6.5 – Rev. 1, Supp. 2
3.6.6 – Rev. 1, Supp. 2
3.6.7 – Rev. 1, Supp. 2
3.6.8 – Rev. 1, Supp. 2
3.6.9 – Rev. 1, Supp. 2
3.6.10 – Rev. 1, Supp. 2
3.7.1 – Rev. 1, Supp. 2
3.7.5 – Rev. 1, Supp. 2
3.7.6 – Rev. 1, Supp. 2
3.7.8 – Rev. 1, Supp. 2
3.7.9 – Rev. 1, Supp. 2
3.7.10 – Rev. 1, Supp. 2
3.7.11 – Rev. 1, Supp. 2
3.7.12 – Rev. 1, Supp. 2
3.7.13 – Rev. 1, Supp. 2
3.7.14 – Rev. 1, Supp. 2

Revised Supplement 2 Sections

3.8.1 – Rev. 1, Supp. 2
3.8.3 – Rev. 1, Supp. 2
3.8.4 – Rev. 1, Supp. 2
3.8.6 – Rev. 1, Supp. 2
3.8.7 – Rev. 1, Supp. 2
3.8.9 – Rev. 1, Supp. 2
3.9.1 – Rev. 1, Supp. 2
3.9.2 – Rev. 1, Supp. 2
3.9.3 – Rev. 1, Supp. 2
3.9.4 – Rev. 1, Supp. 2
3.9.5 – Rev. 1, Supp. 2
3.9.6 – Rev. 1, Supp. 2
4.0 – Rev. 1, Supp. 2
5.1 – Rev. 1, Supp. 2
5.2 – Rev. 1, Supp. 2
5.3 – Rev. 1, Supp. 2
5.4 – Rev. 1, Supp. 2
5.5.1 – Rev. 1, Supp. 2
5.5.2 – Rev. 1, Supp. 2
5.5.3 – Rev. 1, Supp. 2
5.5.5 – Rev. 1, Supp. 2
5.5.6 – Rev. 1, Supp. 2
5.5.7 – Rev. 1, Supp. 2
5.5.8 – Rev. 1, Supp. 2
5.5.9 – Rev. 1, Supp. 2
5.5.11 – Rev. 1, Supp. 2
5.5.14 – Rev. 1, Supp. 2
5.6 – Rev. 2, Supp. 2
R.1 – Rev. 1, Supp. 2
R.2 – Rev. 1, Supp. 2
R.3 – Rev. 1, Supp. 2
R.4 – Rev. 1, Supp. 2
R.5 – Rev. 1, Supp. 2
R.6 – Rev. 1, Supp. 2
R.7 – Rev. 1, Supp. 2
R.8 – Rev. 1, Supp. 2
R.9 – Rev. 1, Supp. 2
R.10 – Rev. 1, Supp. 2
R.11 – Rev. 1, Supp. 2
R.12 – Rev. 1, Supp. 2
R.13 – Rev. 1, Supp. 2
R.14 – Rev. 1, Supp. 2
R.15 – Rev. 1, Supp. 2
R.16 – Rev. 1, Supp. 2
R.17 – Rev. 1, Supp. 2
R.18 – Rev. 1, Supp. 2
R.19 – Rev. 1, Supp. 2
R.20 – Rev. 1, Supp. 2
R.21 – Rev. 1, Supp. 2
R.22 – Rev. 1, Supp. 2
R.23 – Rev. 1, Supp. 2

Revised Supplement 2 Sections

R.24 – Rev. 1, Supp. 2
R.25 – Rev. 1, Supp. 2
R.26 – Rev. 1, Supp. 2
R.27 – Rev. 1, Supp. 2
R.28 – Rev. 1, Supp. 2

ATTACHMENT 2 TO NL-03-035

Correspondence History of Responses to Requests for Additional Information

Entergy Nuclear Operations, Inc.
Indian Point Unit No. 2
Docket No. 50-247

- 1) RAI: NRC letter to Entergy Nuclear Operations, Inc., "Request for Additional Information (RAI) Regarding Section 3.6 (Containment Systems) of the Improved Technical Specifications (ITS) (TAC No. MB4739)," dated August 6, 2002
Response: Entergy letter (NL-02-130) to NRC, "Response to Request for Additional Information Regarding Section 3.6 (Containment Systems) of the Improved Technical Specifications (ITS)," dated October 10, 2002
- 2) RAI: NRC letter to Entergy Nuclear Operations, Inc., "Request for Additional Information (RAI) Regarding Section 3.6 (Containment Systems) of the Improved Technical Specifications (ITS) (TAC No. MB4739)," dated August 6, 2002
Response: Entergy letter (NL-02-133) to NRC, "Response to Request for Additional Information Regarding Section 5.5.14 of the Improved Technical Specifications (ITS)," dated October 28, 2002
- 3) RAI: NRC letter to Entergy Nuclear Operations, Inc., "Request for Additional Information (RAI) Regarding Section 3.5.3 – Emergency Core Cooling System (ECCS) – Shutdown - The Improved Technical Specifications Beyond Scope Issue No. 1 (TAC No. MB5062)," dated September 26, 2002
RAI: NRC letter to Entergy Nuclear Operations, Inc., "Request for Additional Information (RAI) Regarding Section 3.8.3 – Diesel Fuel Oil and Starting Air - Beyond Scope Issue No. 8 (TAC No. MB5069)," dated October 3, 2002
RAI: NRC letter to Entergy Nuclear Operations, Inc., "Request for Additional Information (RAI) Regarding Section 3.7.8 – Service Water System - Beyond Scope Issue No. 6 (TAC No. MB5067)," dated October 10, 2002
RAI: NRC letter to Entergy Nuclear Operations, Inc., "Request for Additional Information (RAI) Regarding Improved Technical Specification (ITS) Beyond Scope Issue No. 9, ITS Section 3.8.4 DC Sources - Operating (TAC No. MB5070)," dated October 17, 2002
RAI: NRC letter to Entergy Nuclear Operations, Inc., "Comments and Request for Additional Information (RAI) Regarding Improved Technical Specification (ITS) Beyond Scope Issues (BSI)-S1, BSI-S2, BSI-S3, BSI-S4, BSI-S5 and BSI-S6 (TAC Nos. MB6394, MB6395, MB6396, MB6397, MB6398, and MB6399)," dated October 17, 2002
Response: Entergy letter (NL-02-148) to NRC, "Response to Request for Additional Information Regarding Sections 3.3.1, 3.5.3, 3.7.8, 3.8.3, 3.8.4, and 3.8.6 of the Improved Technical Specifications (ITS)," dated November 26, 2002
- 4) RAI: NRC letter to Entergy Nuclear Operations, Inc., "Indian Point Nuclear Generating Unit No. 2 – Comments and Request for Additional Information (RAI) Regarding Improved Technical Specification (ITS) Sections 1.0, 2.0, 3.0, 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.9, 4.0, and 5.0 (TAC No. MB4739)," dated October 22, 2002
Response: Entergy letter (NL-02-160) to NRC, "Response to Request for Additional Information Regarding Sections 1.0, 2.0, 3.0, 3.1, 3.2, 3.3, 3.4, 3.5,

3.6, 3.7, 3.9, 4.0, and 5.0 of the Improved Technical Specifications (ITS)," dated December 18, 2002

- 5) RAI: NRC letter to Entergy Nuclear Operations, Inc., "Request for Additional Information (RAI) Regarding Section 3.8.1 – AC Sources Operating – Beyond Scope Issue No. 7 (TAC No. MB5068)," dated December 31, 2002
Response: Entergy letter (NL-03-002) to NRC, "Response to Request for Additional Information Regarding Section 3.8.1, AC Sources Operating, of the Improved Technical Specifications (ITS)," dated January 27, 2003

ATTACHMENT 3 TO NL-03-035

**List of Pending License Amendment Requests (LARs) not Reflected in ITS
Submittal and Supplements**

Entergy Nuclear Operations, Inc.
Indian Point Unit No. 2
Docket No. 50-247

Letter No. and Date	LAR Title
NL-02-042 05/30/02	License Amendment Request (LAR-02-007) – Changes to Effectively Coordinate Indian Point Units 1 and 2 Programs
NL-02-155 12/12/02	License Amendment Request- Measurement Uncertainty Recapture Power Uprate Increase of Licensed Thermal power (1.4%)