

June 19, 2006

**UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION**

DOCKETED  
USNRC

Before the Atomic Safety and Licensing Board

June 19, 2006 (3:33pm)

OFFICE OF SECRETARY  
RULEMAKINGS AND  
ADJUDICATIONS STAFF

In the Matter of	)	
	)	
ENTERGY NUCLEAR VERMONT	)	Docket No. 50-271
YANKEE, LLC and ENTERGY	)	
NUCLEAR OPERATIONS, INC.	)	ASLBP No. 04-832-02-OLA
(Vermont Yankee Nuclear Power Station)	)	(Operating License Amendment)
	)	

**ENTERGY'S SUPPLEMENT TO DIRECT TESTIMONY  
ON NEC CONTENTIONS 3 AND 4**

As directed in the Atomic Safety and Licensing Board ("Board")'s June 5, 2006 Order (Regarding Submission of Supplemental Documents) ("Order"), Entergy Nuclear Vermont Yankee, LLC and Entergy Nuclear Operations, Inc. (collectively "Entergy") supplement their testimony on New England Coalition ("NEC") Contentions 3 and 4 by submitting the following documents:

**Index of Documents Provided in Response to Board Order**

Item	Contention	Document Title	Testimony Where Document is Cited or Referenced
01	NEC-3	CLTR for Constant Pressure Power Uprate Safety Analysis: NEDC-33004-A Rev. 4, July 2003 (non-proprietary version)	Testimony of Craig J. Nichols and Jose L. Casillas (May 17, 2006) at A13
02	NEC-3	NEDO 24154-A, vol. 1	Id. at A30
03	NEC-3	NEDO 24154-A, vol. 2	Id.

Item	Contention	Document Title	Testimony Where Document is Cited or Referenced
04	NEC-3	NEDO 24154-A, vol. 1-4 summary; ODYN benchmark summaries	Id. at A30 and A36
05	NEC-3	Supplemental Reload Licensing Report (SRLR) EPU Cycle 25	Id. at A40
06	NEC-3	SRLR EPU Cycle 25 Supplemental Data	Id.
07	NEC-3	ODYN Studies Report Summaries	Id. at A18
08	NEC-4	ASTM Std. D245	Testimony of George S. Thomas, Paul D. Baughman, Norman A. Roux, Robert D. Fulkerson and Philip L. Westover on Restated Contention 4 (May 17, 2006) at A58.
09	NEC-4	American Wood Preservers' Assn. Std. C1-03	Id. at A61
10	NEC-4	American Wood Preservers' Assn. Std. C2-02	Id.
11	NEC-4	American Wood Preservers' Assn. Std. C9-03	Id.
12	NEC-4	American Wood Preservers' Assn. Std. C30-01	Id.
13	NEC-4	American Wood Preservers' Assn. Std. U1-05	Id.
14	NEC-4	National Design Specification for Wood Construction, Chapter 1	Id. at A37 and A58

Item	Contention	Document Title	Testimony Where Document is Cited or Referenced
15	NEC-4	National Design Specification for Wood Construction, Chapter 2	Id.
16	NEC-4	National Design Specification for Wood Construction, Chapter 3	Id.
17	NEC-4	National Design Specification for Wood Construction, Chapter 4	Id.
18	NEC-4	National Design Specification for Wood Construction, Chapter 11 Pt. 1	Id.
19	NEC-4	National Design Specification for Wood Construction, Chapter 11 Pt. 2	Id.
20	NEC-4	National Design Specification for Wood Construction, Chapter 11 Pt. 3	Id.
21	NEC-4	National Design Specification for Wood Construction, Appendix I	Id.
22	NEC-4	National Design Specification for Wood Construction, Appendix L	Id.
23	NEC-4	National Design Specification for Wood Construction, Supplement Section 3	Id.
24	NEC-4	National Design Specification for Wood Construction, Supplement Section 4	Id.
25	NEC-4	National Design Specification for Wood Construction, Technical Report No. 12	Id.

Item	Contention	Document Title	Testimony Where Document is Cited or Referenced
26	NEC-3	CLTR for Constant Pressure Power Uprate Safety Analysis: NEDC-33004P-A Rev. 4, July 2003 (Proprietary version) (in separate CD provided to ASLB only)	Testimony of Craig J. Nichols and Jose L. Casillas (May 17, 2006) at A13
27	NEC-3	NEDE- 24154-P - A, vol. 3 (Proprietary) (in separate CD provided to ASLB only)	Id. at A30 and A36
28	NEC-3	NEDC- 24154-P - A, vol. 4 (Proprietary) (in separate CD provided to ASLB only)	Id.
29	NEC-3	GE-NE-0000-0041-1254-R0 (Proprietary) (in separate CD provided to ASLB only)	Id.
30	NEC-3	NEDE-30253 (Proprietary) (in separate CD provided to ASLB only)	Id.
31	NEC-3	GENE-A13-00413-001-04 (Proprietary) (in separate CD provided to ASLB only)	Id.
32	NEC-3	GE-NE-B33-00296-02P (Proprietary) (in separate CD provided to ASLB only)	Id. at A18
33	NEC-3	GE-NE-B31-00264-01P (Proprietary) (in separate CD provided to ASLB only)	Id. at A18

The documents being provided correspond to those whose production was directed by the Board, as follows:

- Document 1 is the non-proprietary version of Item I.A requested by the Board, General Electric Company Licensing Topical Report for Constant Pressure Power Uprate Safety Analysis, NEDC-33004P-A Rev. 4, July 2003 (Order at 2). Entergy notes that neither the Staff nor NEC has executed the confidentiality and non-disclosure agreement that is part of the of the Board's March 1, 2005 Protec-

tive Order governing the non-disclosure of proprietary information. Accordingly, only the Board members are receiving copies of this and other proprietary documents in a separate CD designated as "Proprietary." The proprietary documents being furnished to the Board are listed as Documents 26-33 in the above index.

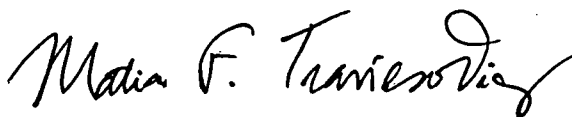
- Documents 2 and 3 are volumes 1 and 2, respectively, of Item I.B. requested by the Board, Qualification of the One-Dimensional Core Transient Model for Boiling Water Reactors, NEDO-24154-A, August 1986 (*id.*) Both of these documents are non-proprietary.
- Document 4 contains non-proprietary summaries of the relevant information contained in volumes 3 and 4 (proprietary) of Item I.B. requested by the Board. These summaries have been prepared by Entergy witness Jose L. Casillas specifically for the purpose of responding to the Board's Order. No non-proprietary, redacted versions of those two volumes currently exist and, because of their large size, preparation of a redacted, non-proprietary version would be very time consuming.
- Documents 5 and 6 correspond to Item I.C. requested by the Board, General Electric's Supplemental Reload Licensing Report, December 2005. These documents are non-proprietary.
- Documents 4 and 7 contain non-proprietary summaries of the information requested by the Board in Section II of the Order, i.e., documentation supporting Entergy's testimony on the ODYN code. These summaries have been prepared by Entergy witness Jose L. Casillas specifically for the purpose of responding to the Board's Order. No non-proprietary, redacted versions of the documents sum-

marized in these two documents currently exist and, because of their large size, preparation of a redacted, non-proprietary version would be very time consuming.

- Documents 8-25 respond to the Board's directive in Section III of the Order that the parties "shall supplement their respective direct testimony on both admitted contentions by submitting all reports and documents that are relied upon to prove or substantiate that party's position, or that are referenced by, and are material to support, the testimony of one of its witnesses." The documents being provided were cited in Entergy's Direct Testimony on NEC Restated Contention 4 but were not included as exhibits to that testimony.

Those documents listed in the above Index that are non-proprietary will be provided to all parties. Because of their size, the documents are not being sent in hard copy but have been copied onto a CD that is enclosed with this Supplement to Direct Testimony. Proprietary documents will be sent to the Board only in a separate CD marked "Proprietary."

Respectfully submitted,



Jay E. Silberg  
Matias F. Travieso-Diaz  
PILLSBURY WINTHROP SHAW PITTMAN LLP  
2300 N Street, N.W.  
Washington, DC 20037-1128  
Tel. (202) 663-8063

Counsel for Entergy Nuclear Vermont Yankee,  
LLC and Entergy Nuclear Operations, Inc.

Dated: June 19, 2006

UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

Before the Atomic Safety and Licensing Board

In the Matter of	)	
	)	
ENTERGY NUCLEAR VERMONT	)	Docket No. 50-271
YANKEE, LLC and ENTERGY	)	
NUCLEAR OPERATIONS, INC.	)	ASLBP No. 04-832-02-OLA
(Vermont Yankee Nuclear Power Station)	)	(Operating License Amendment)
	)	

CERTIFICATE OF SERVICE

I hereby certify that copies of "Entergy's Supplement to Direct Testimony on NEC Contentions 3 and 4" were served on the persons listed below by overnight mail (where so indicated) or deposit in the U.S. mail, first class, postage prepaid, and where indicated by an asterisk by electronic mail (except for CD enclosure), this 19th day of June, 2006.

\*Administrative Judge  
Alex S. Karlin, Chair  
Atomic Safety and Licensing Board Panel  
Mail Stop T-3 F23  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001  
[ask2@nrc.gov](mailto:ask2@nrc.gov)

\*Administrative Judge  
Lester S. Rubenstein  
4760 East Country Villa Drive  
Tucson AZ 85718  
[lesrrr@comcast.net](mailto:lesrrr@comcast.net)

BY OVERNIGHT MAIL

BY OVERNIGHT MAIL

\*Administrative Judge  
Dr. Anthony J. Baratta  
Atomic Safety and Licensing Board Panel  
Mail Stop T-3 F23  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001  
[ajb5@nrc.gov](mailto:ajb5@nrc.gov)

BY OVERNIGHT MAIL

\*Secretary  
Att'n: Rulemakings and Adjudications Staff  
Mail Stop O-16 C1  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001  
[secy@nrc.gov](mailto:secy@nrc.gov), [hearingdocket@nrc.gov](mailto:hearingdocket@nrc.gov)

\*Raymond Shadis  
New England Coalition  
P.O. Box 98  
Shadis Road  
Edgecomb ME 04556  
[shadis@prexar.com](mailto:shadis@prexar.com)

BY OVERNIGHT MAIL

\*Marcia Carpentier  
Atomic Safety and Licensing Board Panel  
Mail Stop T-3 F23  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001  
[mxc7@nrc.gov](mailto:mxc7@nrc.gov)

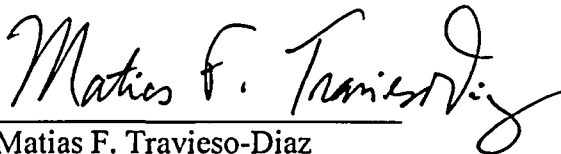
Atomic Safety and Licensing Board  
Mail Stop T-3 F23  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001

Office of Commission Appellate Adjudica-  
tion  
Mail Stop O-16 C1  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001

\*Sherwin E. Turk, Esq.  
\*Steven C. Hamrick, Esq.  
Office of the General Counsel  
Mail Stop O-15 D21  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001  
[set@nrc.gov](mailto:set@nrc.gov), [sch1@nrc.gov](mailto:sch1@nrc.gov)

BY OVERNIGHT MAIL

\*Jonathan Rund  
Atomic Safety and Licensing Board Panel  
Mail Stop T-3 F23  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001  
[jmr3@nrc.gov](mailto:jmr3@nrc.gov)

  
Matias F. Travieso-Diaz