

August 30, 2004

Mr. Jay K. Thayer
Site Vice President
Entergy Nuclear Operations, Inc.
Vermont Yankee Nuclear Power Station
P.O. Box 0500
185 Old Ferry Road
Brattleboro, VT 05302-0500

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN - VERMONT
YANKEE NUCLEAR POWER STATION

Dear Mr. Thayer:

On August 4, 2004, the NRC staff completed its mid-cycle plant performance assessment of the Vermont Yankee Nuclear Power Station. The mid-cycle review for Vermont Yankee involved the participation of all technical divisions in evaluating performance for the first half of the calendar year 2004 assessment cycle. The process included a review of performance indicators (PIs) for the most recent quarter and inspection results over the previous twelve months. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility so that you will have an opportunity to prepare for these inspections and to inform us of any planned inspections that may conflict with your plant activities. This performance review and enclosed inspection plan do not include physical protection information. A separate letter designated and marked as "Proprietary Information in accordance with 10 CFR 2.390(d)(1)" will include the physical protection review and resultant inspection plan.

Plant performance for the most recent quarter was within the Licensee Response Column of the NRC's Action Matrix, based on all inspection findings being classified as having very low safety significance (Green) and all PIs indicating performance at a level requiring no additional NRC oversight (Green). Therefore, we plan to conduct only reactor oversight process (ROP) baseline inspections at your facility through March 31, 2006.

The enclosed inspection plan details the inspection, less those related to physical protection, scheduled through March 31, 2006. Our inspection plan includes an inspection during the week of November 29, 2004, using inspection procedure IP 71004 "Power Uprate." This inspection will review Vermont Yankee's erosion and flow assisted corrosion program. This is one of several inspections using IP 71004 that will occur as a result of Entergy's power uprate request. We will develop the schedule for the subsequent inspections using IP 71004 as they become finalized based on the progress of our review of Entergy's power uprate request. The inspection plan is provided to minimize the resource impact on your staff and to allow for scheduling conflicts and personnel availability to be resolved in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last

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twelve months of the inspection plan are tentative and may be revised at the end-of-cycle review meeting.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be made available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

If circumstances arise which cause us to change the inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at (610) 337-5227 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Clifford J. Anderson, Chief
Projects Branch 5
Division of Reactor Projects

Docket No. 50-271
License No. DPR-28

Enclosure: Vermont Yankee Inspection/Activity Plan

cc w/encl:

M. R. Kansler, President, Entergy Nuclear Operations, Inc.
G. J. Taylor, Chief Executive Officer, Entergy Operations
J. T. Herron, Senior Vice President and Chief Operating Officer
D. L. Pace, Vice President, Engineering
B. O'Grady, Vice President, Operations Support
J. M. DeVincentis, Manager, Licensing, Vermont Yankee Nuclear Power Station
Operating Experience Coordinator - Vermont Yankee Nuclear Power Station
J. F. McCann, Director, Nuclear Safety Assurance
M. J. Colomb, Director of Oversight, Entergy Nuclear Operations, Inc.
J. M. Fulton, Assistant General Counsel, Entergy Nuclear Operations, Inc.
S. Lousteau, Treasury Department, Entergy Services, Inc.
Administrator, Bureau of Radiological Health, State of New Hampshire
Chief, Safety Unit, Office of the Attorney General, Commonwealth of Mass.
D. R. Lewis, Esquire, Shaw, Pittman, Potts & Trowbridge
G. D. Bisbee, Esquire, Deputy Attorney General, Environmental Protection Bureau
J. Block, Esquire
D. Katz, Citizens Awareness Network (CAN)
M. Daley, New England Coalition on Nuclear Pollution, Inc. (NECNP)
R. Shadis, New England Coalition Staff
C. McCombs, Commonwealth of Massachusetts, SLO Designee
G. Sachs, President/Staff Person, c/o Stopthesale
J. Sniezek, PWR SRC Consultant
R. Toole, PWR SRC Consultant
J. P. Matteau, Executive Director, Windham Regional Commission
State of New Hampshire, SLO Designee
State of Vermont, SLO Designee
Institute of Nuclear Power Operations (INPO)

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NAME	DFI orek/CJA <i>for</i>	CAnderson/CJA			
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Vermont Yankee
Inspection / Activity Plan
07/01/2004 - 03/31/2006

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
	STI-01	- SPECIAL INSPECTION ON VY FUEL SEGMENTS	7			
1	IP 93812	Special Inspection		04/22/2004	09/30/2004	Event Response Insp
	TI-158	- FUNCT. REVIEW OF HIGH RISK - LOW MARGIN	9			
1	IP 2515/146	Hydrogen Storage Locations		08/09/2004	08/20/2004	Safety Issues
1	IP 2515/158	Functional Review of Low Margin/Risk Significant Components and Human Actions		08/30/2004	09/03/2004	Safety Issues
	71152	- PIR SAMPLE MSIV LLRT FAILURES	2			
1	IP 71152	Identification and Resolution of Problems		07/01/2004	09/30/2004	Baseline Inspections
	71121	- OCC RAD SAFETY	1			
1	IP 7112101	Access Control to Radiologically Significant Areas		07/12/2004	07/16/2004	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		07/12/2004	07/16/2004	Baseline Inspections
	711111B	- LO REQUALIFICATION PROGRAM	3			
1	IP 7111111B	Licensed Operator Requalification Program		08/30/2004	09/03/2004	Baseline Inspections
1	IP 7111111B	Licensed Operator Requalification Program		09/12/2004	09/16/2004	Baseline Inspections
	71114	- EP PRGM INSP & PI VERIFICATION	1			
1	IP 7111402	Alert and Notification System Testing		07/26/2004	07/30/2004	Baseline Inspections
1	IP 7111403	Emergency Response Organization Augmentation Testing		07/26/2004	07/30/2004	Baseline Inspections
1	IP 7111404	Emergency Action Level and Emergency Plan Changes		07/26/2004	07/30/2004	Baseline Inspections
1	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		07/26/2004	07/30/2004	Baseline Inspections
1	IP 71151	Performance Indicator Verification		07/26/2004	07/30/2004	Baseline Inspections
	7111121	- ENGINEERING PILOT	9			
1	IP 7111121	Safety System Design and Performance Capability		08/09/2004	08/13/2004	Baseline Inspections
1	IP 7111121	Safety System Design and Performance Capability		08/16/2004	08/20/2004	Baseline Inspections
1	IP 7111121	Safety System Design and Performance Capability		08/30/2004	09/03/2004	Baseline Inspections
	7112201	- PUB RAD SAFETY - RETS	1			
1	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		09/13/2004	09/17/2004	Baseline Inspections
	7112103	- OCC RAD SAFETY - INSTRUMENTATION	1			
1	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		11/01/2004	11/05/2004	Baseline Inspections
1	IP 71151	Performance Indicator Verification		11/01/2004	11/05/2004	Baseline Inspections
	71111.05	- TRIENNIAL FIRE PROTECTION INSPECTION	3			
1	IP 7111105T	Fire Protection		11/29/2004	12/03/2004	Baseline Inspections
1	IP 7111105T	Fire Protection		12/13/2004	12/17/2004	Baseline Inspections
	7111107B	- HEAT SINK	1			
1	IP 7111107B	Heat Sink Performance		11/15/2004	11/19/2004	Baseline Inspections

This report does not include INPO and OUTAGE activities.
This report shows only on-site and announced inspection procedures.

Vermont Yankee
Inspection / Activity Plan
07/01/2004 - 03/31/2006

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
	EPU - EPU REVIEW - EROSION/FAC PROGRAM		1			
1	IP 71004	Power Uprate		11/29/2004	12/03/2004	Other Routine
	1/31 EXM - OPERATOR LICENSING INITIAL EXAMS		3			
1	U01540	VERMONT YANKEE INITIAL EXAM (6/1-5/05)		12/13/2004	12/17/2004	Not Applicable
1	U01540	VERMONT YANKEE INITIAL EXAM (6/1-5/05)		01/31/2005	02/04/2005	Not Applicable
	711117B - MODS & 50.59		3			
1	IP 7111102	Evaluation of Changes, Tests, or Experiments		04/11/2005	04/15/2005	Baseline Inspections
1	IP 711117B	Permanent Plant Modifications		04/11/2005	04/15/2005	Baseline Inspections
	7111401 - EXERCISE EVALUATION & EP PI VERIFICATION		1			
1	IP 7111401	Exercise Evaluation		05/23/2005	05/27/2005	Baseline Inspections
1	IP 71151	Performance Indicator Verification		05/23/2005	05/27/2005	Baseline Inspections
	7112202 - PUB RAD SAFETY - RADWASTE		1			
1	IP 7112202	Radioactive Material Processing and Transportation		06/27/2005	07/01/2005	Baseline Inspections
	71121 - OCC RAD SAFETY		1			
1	IP 7112101	Access Control to Radiologically Significant Areas		08/08/2005	08/12/2005	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		08/08/2005	08/12/2005	Baseline Inspections
	71152B - PROBLEM IDENTIFICATION AND RESOLUTION		1			
1	IP 71152B	Identification and Resolution of Problems		09/12/2005	09/16/2005	Baseline Inspections
1	IP 71152B	Identification and Resolution of Problems		09/26/2005	09/30/2005	Baseline Inspections
	71121 - OCC RAD SAFETY		1			
1	IP 7112101	Access Control to Radiologically Significant Areas		10/17/2005	10/21/2005	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		10/17/2005	10/21/2005	Baseline Inspections
1	IP 71151	Performance Indicator Verification		10/17/2005	10/21/2005	Baseline Inspections
	7111108G - INSERVICE INSPECTION		2			
1	IP 7111108G	Inservice Inspection Activities - BWR		10/24/2005	10/28/2005	Baseline Inspections
	7112203 - PUB RAD SAFETY - REMP		1			
1	IP 7112203	Radiological Environmental Monitoring Program		12/05/2005	12/09/2005	Baseline Inspections
	711112B - MAINTENANCE RULE		1			
1	IP 711112B	Maintenance Effectiveness		12/12/2005	12/16/2005	Baseline Inspections
	71121 - OCC RADIATION SAFETY		1			
1	IP 7112102	ALARA Planning and Controls		01/09/2006	01/13/2006	Baseline Inspections

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