



UNITED STATES  
**NUCLEAR REGULATORY COMMISSION**  
REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

August 31, 2007

Mr. Theodore A. Sullivan  
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. Sullivan:

On August 8, 2007, the NRC staff completed its performance review of Vermont Yankee Nuclear Power Station for the first half of the calendar year 2007 assessment cycle. Our technical staff reviewed 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.

This performance review and enclosed inspection plan do not include security information. A separate letter designated and marked as "Official Use Only--Security Information" will include the security cornerstone review and resultant inspection plan.

Plant performance for the most recent quarter of 2007 at Vermont Yankee was within the Regulatory Response column of the NRC's Action Matrix, based on one finding of low to moderate safety significance (White) in the Public Radiation Safety cornerstone. This finding involved the shipment of a package of contaminated equipment from Vermont Yankee on August 31, 2006, that was not properly prepared and shipped in conformance with the Department of Transportation radiation level limitations. Although the surface of the package was not accessible to members of the public, the condition had the potential to adversely affect personnel receiving the package or responding to an incident involving the package. The NRC has completed a supplemental inspection in accordance with inspection procedure 95001. The results of that inspection were provided in NRC Supplemental Inspection Report 05000271/2007009. As a result of that review, this finding will be closed and will no longer be considered for plant assessment purposes, effective October 1, 2007. Therefore, we plan to conduct the reactor oversight process (ROP) baseline inspections at your facility.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through December 31, 2008. In addition to baseline inspections, we plan on conducting an independent spent fuel storage installation (ISFSI) inspection. The inspection plan is provided to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival onsite. Routine resident inspections are not listed

due to their ongoing and continuous nature. The inspections in the last nine months of the inspection plan are tentative and may be revised at the end-of-cycle review.

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).

As you may know, the NRC is currently evaluating the scope and frequency of all of the baseline inspection procedures. If the results of the evaluation, or any other circumstances, cause us to change the inspection plan, we will contact you to discuss the change as soon as possible. Please contact Mr. Raymond J. Powell, of my staff, at 610-337-6967 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

David C. Lew, Director  
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. Wayne Leonard, Chairman and Chief Executive Officer, Entergy Operations  
J. T. Herron, Senior Vice President  
M. Balduzzi, Senior Vice President, Northeastern Regional Operations  
J. DeRoy, Vice President, Operations Support  
O. Limpas, Vice President, Engineering  
Sr Vice President, Engineering and Technical Services  
D. Mannai, Manager, Licensing, Vermont Yankee Nuclear Power Station  
Operating Experience Coordinator, Vermont Yankee Nuclear Power Station  
W. Maguire, General Manager, Plant Operations, Entergy Nuclear Operations, Inc.  
N. Rademacher, Director, Engineering, Vermont Yankee Nuclear Power Station  
J. F. McCann, Director, Licensing  
Manager, Licensing  
E. Harkness, Director of Oversight, Entergy Nuclear Operations, Inc.  
Assistant General Counsel, Entergy Nuclear Operations, Inc.  
J. H. Sniezek, PWR SRC Consultant  
M. D. Lyster, PWR SRC Consultant  
G. Edwards  
cc w/encl:

S. Lousteau, Treasury Department, Entergy Services, Inc.  
D. O' Dowd, Administrator, Radiological Health Section, DPHS, DHHS, State of New Hampshire  
W. Irwin, Chief, CHP, Radiological Health, Vermont Department of Health  
Chief, Safety Unit, Office of the Attorney General, Commonwealth of Mass.  
D. Lewis, Pillsbury, Winthrop, Shaw, Pittman LLP  
G. D. Bisbee, Esquire, Deputy Attorney General, Environmental Protection Bureau  
J. Block, Esquire  
J. P. Matteau, Executive Director, Windham Regional Commission  
D. Katz, Citizens Awareness Network (CAN)  
R. Shadis, New England Coalition Staff  
G. Sachs, President/Staff Person, c/o Stopthesale  
J. Volz, Chairman, Public Service Board, State of Vermont  
Chairman, Board of Selectman, Town of Vernon  
C. Pope, State of New Hampshire, SLO  
D. O'Brien, State of Vermont, SLO  
J. Giarrusso, SLO, MEMA, Commonwealth of Massachusetts  
Institute of Nuclear Power Operations (INPO)

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M. D. Lyster, PWR SRC Consultant  
G. Edwards

DOCUMENT NAME: S:\ROP 8 Mid Cycle Review\Letters for Mid Cycle\Branch 5 Mid-cycle letters\ROP-8 2007 Mid-cycle VY Letter.Rev5.wpd

**SUNSI Review Complete:** BSN (Reviewer's Initials)

DOCUMENT NAME: ROP-8 2007 Mid-cycle VY Letter.Rev4.wpd

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OFFICE	RI/DRP	RI/DRP	RI/DRP
NAME	BNorris/BSN	RPowell/RJP	DLew/DCL
DATE	08/30/07	08/31/07	08/31/07

OFFICIAL RECORD COPY

Letter to T. Sullivan from David C. Lew dated August 31, 2007

Distribution w/encl: (via E-mail)

S. Collins, RA  
M. Dapas, DRA  
D. Lew, DRP  
J. Clifford, DRP  
J. Thompson, NRR  
M. Cox, RI OEDO  
R. Powell, DRP  
B. Norris, DRP  
M. Gamberoni, DRS  
D. Roberts, DRS  
J. Trapp, DRS  
J. Rogge, DRS  
M. Sykes, DRS  
J. White, DRS  
L. Doerflein, DRS  
R. Conte, DRS  
L. Scholl, DRS  
P. Frechette, DRS

D. Silk, DRS  
D. Screnci, PAO  
N. Sheehan, PAO  
R. Barkley, ORA  
D. Holody, ORA  
M. Kowal, NRR  
J. Lubinski, NRR  
J. Kim, PM, NRR  
J. Boska, Backup PM, NRR  
J. Benjamin, DRP, Senior Resident Inspector (Acting)  
B. Sienel, DRP, Resident Inspector  
A. Rancourt, DRP, Resident OA  
Region I Docket Room (with concurrences)  
RidsNrrDirslpab@nrc.gov  
ROPreports@nrc.gov

**Vermont Yankee**  
**Inspection / Activity Plan**  
**07/01/2007 - 12/31/2008**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start End	Inspection Type
	<b>95001 - TRANSPORTATION - WHITE FINDING</b>		<b>1</b>		
1	IP 95001	Supplemental Inspection For One Or Two White Inputs In A Strategic Performance Area		07/09/2007 07/13/2007	Supplemental Progra
	<b>7112203 - PUB RAD SAFETY - REMP</b>		<b>1</b>		
1	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control P		07/30/2007 08/03/2007	Baseline Inspections
	<b>MODS - MODS AND 50.59</b>		<b>3</b>		
1	IP 7111102	Evaluation of Changes, Tests, or Experiments		08/06/2007 08/10/2007	Baseline Inspections
1	IP 7111117B	Permanent Plant Modifications		08/06/2007 08/10/2007	Baseline Inspections
	<b>71121 - OCC RAD SAFETY</b>		<b>1</b>		
1	IP 7112101	Access Control to Radiologically Significant Areas		09/10/2007 09/14/2007	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		09/10/2007 09/14/2007	Baseline Inspections
	<b>71152B - PI&amp;R</b>		<b>4</b>		
1	IP 71152B	Identification and Resolution of Problems		10/22/2007 10/26/2007	Baseline Inspections
1	IP 71152B	Identification and Resolution of Problems		11/05/2007 11/09/2007	Baseline Inspections
	<b>ISFSI - ISFSI INSPECTIONS</b>		<b>1</b>		
1	IP 60854.1	Preoperational Testing of Independent Spent Fuel Storage Facility Installation at Operating F		10/01/2007 11/30/2007	Other Routine
	<b>7112202 - PUB RAD SAFETY - RADWASTE</b>		<b>1</b>		
1	IP 7112202	Radioactive Material Processing and Transportation		10/15/2007 10/19/2007	Baseline Inspections
	<b>7111401 - EP EXERCISE &amp; PI VERIFICATION</b>		<b>4</b>		
1	IP 7111401	Exercise Evaluation		10/15/2007 10/19/2007	Baseline Inspections
1	IP 71151-EP01	Drill/Exercise Performance		10/15/2007 10/19/2007	Baseline Inspections
1	IP 71151-EP02	ERO Drill Participation		10/15/2007 10/19/2007	Baseline Inspections
1	IP 71151-EP03	Alert & Notification System		10/15/2007 10/19/2007	Baseline Inspections
	<b>71111.12 - MAINTENANCE RULE</b>		<b>1</b>		
1	IP 7111112B	Maintenance Effectiveness		11/05/2007 11/09/2007	Baseline Inspections
	<b>7111121 - CDBI</b>		<b>7</b>		
1	IP 7111121	Component Design Bases Inspection		04/28/2008 05/02/2008	Baseline Inspections
1	IP 7111121	Component Design Bases Inspection		05/12/2008 05/16/2008	Baseline Inspections
1	IP 7111121	Component Design Bases Inspection		05/19/2008 05/23/2008	Baseline Inspections
	<b>7111111B - L.O REQUAL INSPECTION</b>		<b>5</b>		
1	IP 7111111B	Licensed Operator Requalification Program		07/14/2008 07/25/2008	Baseline Inspections
	<b>71121 - OCC RAD SAFETY</b>		<b>1</b>		
1	IP 7112101	Access Control to Radiologically Significant Areas		08/04/2008 08/08/2008	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		08/04/2008 08/08/2008	Baseline Inspections
	<b>EP - EP PROGRAM INSPECTION</b>		<b>1</b>		
1	IP 7111402	Alert and Notification System Testing		09/15/2008 09/19/2008	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**  
**07/01/2007 - 12/31/2008**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start End	Inspection Type
	<b>EP</b>	<b>- EP PROGRAM INSPECTION</b>	<b>1</b>		
1	IP 7111403	Emergency Response Organization Augmentation Testing		09/15/2008 09/19/2008	Baseline Inspections
1	IP 7111404	Emergency Action Level and Emergency Plan Changes		09/15/2008 09/19/2008	Baseline Inspections
1	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		09/15/2008 09/19/2008	Baseline Inspections
1	IP 71151-EP01	Drill/Exercise Performance		09/15/2008 09/19/2008	Baseline Inspections
1	IP 71151-EP02	ERO Drill Participation		09/15/2008 09/19/2008	Baseline Inspections
1	IP 71151-EP03	Alert & Notification System		09/15/2008 09/19/2008	Baseline Inspections
	<b>7111108</b>	<b>- INSERVICE INSPECTION</b>	<b>1</b>		
1	IP 7111108G	Inservice Inspection Activities - BWR		10/20/2008 10/24/2008	Baseline Inspections
	<b>7111107B</b>	<b>- HEAT SINK</b>	<b>1</b>		
1	IP 7111107B	Heat Sink Performance		11/03/2008 11/07/2008	Baseline Inspections
	<b>7112201</b>	<b>- PUB RAD SAFETY - RETS</b>	<b>1</b>		
1	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		11/03/2008 11/07/2008	Baseline Inspections