



Entergy Nuclear Vermont Yankee, LLC  
Entergy Nuclear Operations, Inc.  
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December 2, 2003  
BVY 03-110

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555

- References:
- (a) Letter, VYNPC to USNRC, "Proposed Change No. 162, Toxic Gas Monitoring System," BVY 91-02, dated January 15, 1991.
  - (b) Letter, USNRC to VYNPC, "Issuance of Amendment No. 132 to Facility Operating License No. DPR-28 - Vermont Yankee Nuclear Power Station (TAC No. 79442)," NVEY 91-205, dated October 24, 1991.

**Subject: Vermont Yankee Nuclear Power Station  
License No. DPR-28 (Docket No. 50-271)  
Report of Bulk Chlorine Rail Shipments for 2003**

In Reference (a), Vermont Yankee (VY) submitted a proposed change to the Technical Specifications requesting approval to remove the Toxic Gas Monitoring System. In Reference (b), the NRC granted approval and issued Amendment No. 132. As a condition for granting the amendment, the NRC required that every three years, starting in 1994, VY submit a report providing the annual frequency of railroad shipments of bulk chlorine within five miles of the plant site. The NRC required the evaluation to verify that the probability of loss of control room habitability continues to meet the acceptance criteria of Section 2.2.3 of the NRC Standard Review Plan (NUREG-0800, July 1981). The NRC also required that the report consider any changes in quantity of chlorine in each shipment, and that the report reference the number and date of the license amendment. This letter constitutes the required report and summarizes our evaluation.

VY conducted an evaluation of rail shipments of bulk chlorine. The evaluation included the following:

1. A determination of the annual frequency of rail shipments of bulk chlorine within five miles of the plant site, and
2. Consideration of any changes in the quantity of chlorine in each shipment.

#### Annual Frequency of Rail Shipments

The two railroads that operate along the tracks adjacent to the plant, Guilford Rail System and New England Central Railroad, both provided information on chlorine shipped during the three year period covering 2001, 2002 and 2003. It is concluded from this information that the total number of rail cars shipped by both companies was either zero or not greater than 20, as compared to a total of 60 rail cars assumed in the analysis supporting Reference (a).

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Changes in Quantity of Chlorine

Chlorine shipments, if any, were in individual tank cars carrying 180,000 pounds or less. This weight is equivalent to approximately 15,350 gallons. The analysis supporting Reference (a) used a tank car capacity of 20,000 gallons, or 234,560 pounds, which bounds current shipments.

In addition, each rail company stated that there are no industrial or economic changes anticipated in the near future that would lead to either an increase in the frequency of cars shipped or capacity of the cars.

If you have any questions concerning this transmittal or require additional information, please contact Mr. Jeff Meyer at (802) 258-4105.

Sincerely,

  
James M. DeVincentis  
Manager, Licensing

cc: USNRC Region 1 Administrator  
USNRC Resident Inspector - VYNPS  
USNRC Project Manager - VYNPS  
Vermont Department of Public Service

## SUMMARY OF VERMONT YANKEE COMMITMENTS

BVY NO.: 03-110

The following table identifies commitments made in this document by Vermont Yankee. Any other actions discussed in the submittal represent intended or planned actions by Vermont Yankee. They are described to the NRC for the NRC's information and are not regulatory commitments. Please notify the Licensing Manager of any questions regarding this document or any associated commitments.

COMMITMENT	COMMITTED DATE OR "OUTAGE"
None	N/A