

Docket No. 50-271

May 8, 1992

Mr. L. A. Tremblay  
Senior Licensing Engineer  
Vermont Yankee Nuclear Power Corporation  
580 Main Street  
Bolton, Massachusetts 01740-1398

Dear Mr. Tremblay:

SUBJECT: ISSUANCE OF AMENDMENT NO. 133 TO FACILITY OPERATING LICENSE  
NO. DPR-28 - VERMONT YANKEE NUCLEAR POWER STATION (TAC NO. M82355)

The Commission has issued the enclosed Amendment No. 133 to Facility Operating License No. DPR-28 for the Vermont Yankee Nuclear Power Station. This amendment is in response to your application dated December 23, 1991.

This amendment reflects a change in surveillance requirements resulting from the upgrade of mechanically-actuated instrumentation (differential pressure switches) to an analog trip system. This instrumentation provides the main steam line high flow inputs to the Primary Containment Isolation System logic.

The specific change is to extend the calibration interval for the high steam line flow instrumentation from quarterly to once each operating cycle.

A copy of our Safety Evaluation is also enclosed. Notice of Issuance will be included in the Commission's biweekly FEDERAL REGISTER Notice.

Sincerely,

Original signed by

Patrick M. Sears, Project Manager  
Project Directorate I-3  
Division of Reactor Projects I/II  
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 133 to License No. DPR-28
2. Safety Evaluation

cc w/enclosures:  
See next page

OFC :LA:PDI-3 :PM:PDI-3 :SIC :OGC :D:PDI-3(A)  
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DATE : 4/14/92 : 4/21/92 : 4/29/92 : 4/23/92 : 5/6/92

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

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See next page

Mr. L. A. Tremblay, Senior Licensing  
Engineer

Vermont Yankee

cc:

Mr. J. Gary Weigand  
President & Chief Executive Officer  
R.D. 5, Box 169  
Ferry Road  
Brattleboro, Vermont 05301

Mr. John DeVincentis, Vice President  
Yankee Atomic Electric Company  
580 Main Street  
Bolton, Massachusetts 01740-1398

Regional Administrator, Region I  
U. S. Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, Pennsylvania 19406

R. K. Gad, III  
Ropes & Gray  
One International Place  
Boston, Massachusetts 02110-2624

Mr. W. P. Murphy, Sr. Vice President,  
Operations  
Vermont Yankee Nuclear Power Corp.  
R.D. 5, Box 169  
Ferry Road  
Brattleboro, Vermont 05301

Mr. Richard P. Cedano, Commissioner  
Vermont Department of Public Service  
120 State Street, 3rd Floor  
Montpelier, Vermont 05602

Public Service Board  
State of Vermont  
120 State Street  
Montpelier, Vermont 05602

Chairman, Board of Selectmen  
Town of Vernon  
Post Office Box 116  
Vernon, Vermont 05354-0116

G. Dana Bisbee, Esq.  
Office of the Attorney General  
Vermont Yankee Nuclear Power Corp.  
Environmental Protection Bureau  
State House Annex  
25 Capitol Street  
Concord, New Hampshire 03301-6937

Mr. James Pelletier  
Vice President - Engineering  
Vermont Yankee Nuclear Power Corp.  
P.O. Box 169, Ferry Road  
Brattleboro, Vermont 05301

Resident Inspector  
Vermont Yankee Nuclear Power Station  
U.S. Nuclear Regulatory Commission  
P. O. Box 176  
Vernon, Vermont 05354

Chief, Safety Unit  
Office of the Attorney General  
One Ashburton Place, 19th Floor  
Boston, Massachusetts 02108

Mr. David Rodham, Director  
Massachusetts Civil Defense Agency  
400 Worcester Rd.  
P.O. Box 1496  
Framingham, Massachusetts 01701-0317  
ATTN: James Muckerheide

Mr. Raymond N. McCandless  
Vermont Division of Occupational  
and Radiological Health  
Administration Building  
Montpelier, Vermont 05602

AMENDMENT NO. 133 TO DPR-28 VERMONT YANKEE NUCLEAR POWER STATION DATED May 8, 1992

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Docket File 50-271 ←

NRC PDR

Local PDR

PDI-3 Reading

S. Varga

J. Calvo

M. Rushbrook

P. Sears

W. Butler

OGC - 15 G18

Dennis Hagan - MNBB 3206

E. Jordan - MNBB 3701

B. Grimes - 9 A3

G. Hill (4) - P1 22

Wanda Jones - MNBB - 7103

C. Grimes - 11 F23

ACRS (10) - P1 35

GPA/PA - 2 G5

OC/LFMB - MNBB

J. Linville, Region I

R. Lobel, 17G5

S. Newberry



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

VERMONT YANKEE NUCLEAR POWER CORPORATION

DOCKET NO. 50-271

VERMONT YANKEE NUCLEAR POWER STATION

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 133  
License No. DPR-28

1. The Nuclear Regulatory Commission (the Commission or the NRC) has found that:
  - A. The application for amendment filed by the Vermont Yankee Nuclear Power Corporation (the licensee) dated December 23, 1991, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
  - C. There is reasonable assurance: (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations set forth in 10 CFR Chapter I;
  - D. The issuance of this amendment will not be inimical to the common defense and security, or to the health and safety of the public; and
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 3.B of Facility Operating License No. DPR-28 is hereby amended to read as follows:

Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 133, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Victor Nerses, Acting Director  
Project Directorate I-3  
Division of Reactor Projects I/II  
Office of Nuclear Reactor Regulation

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: May 8, 1992

ATTACHMENT TO LICENSE AMENDMENT NO. 133

FACILITY OPERATING LICENSE NO. DPR-28

DOCKET NO. 50-271

Replace the following page of the Appendix A Technical Specifications with the attached page. The revised page is identified by Amendment number and contains a vertical line indicating the area of change.

Remove

54

Insert

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VYNPS

TABLE 4.2.2

Minimum Test and Calibration Frequencies

Primary Containment Isolation Instrumentation

<u>Trip Function</u>	<u>Functional Test</u> (8)	<u>Calibration</u> (8)	<u>Instrument Check</u>
Low-Low Reactor Vessel Water Level	(Note 1)	Once/Operating Cycle	Once Each Day
High Steam Line Area Temperature	(Note 1)	Each Refueling Outage	----
High Steam Line Flow	(Note 1)	Once/Operating Cycle	Once Each Day
Low Main Steam Line Pressure	(Note 1)	Every Three Months	----
Low Reactor Vessel Water Level	(Note 1)	Once/Operating Cycle	----
High Main Steam Line Radiation	(Notes 1 and 7)	Each Refueling Outage	Once Each Day
High Drywell Pressure	(Note 1)	Once/Operating Cycle	Once Each Day
Condenser Low Vacuum	(Note 1)	Every Three Months	----
Trip System Logic	Once/Operating Cycle (Note 2)	Once/Operating Cycle (Note 3)	----





UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 133 TO FACILITY OPERATING LICENSE NO. DPR-28

VERMONT YANKEE NUCLEAR POWER CORPORATION

VERMONT YANKEE NUCLEAR POWER STATION

DOCKET NO. 50-271

1.0 INTRODUCTION

By letter dated December 23, 1991, the Vermont Yankee Nuclear Power Corporation (the licensee) submitted a request for a change to the Vermont Yankee Nuclear Power Station Technical Specifications (TS). The requested change would extend the calibration interval for the high steam line flow instrumentation from quarterly to once each operating cycle.

2.0 EVALUATION

Replacing the existing high steam line flow differential pressure switches with analog loop instrumentation will replace mechanically-actuated components with newer and more reliable equipment. This new instrumentation will maintain the required redundancy and protective functions. The new instrumentation is also environmentally and seismically qualified.

The proposed change in calibration frequency from quarterly to once each operating cycle will continue to meet the intent of Technical Specification requirements for assuring component operability. Experience at Vermont Yankee with similar analog loop instrumentation over the past 11 years has shown this equipment to have an excellent operating history.

Plant safety would be enhanced by reducing the frequency of calibrations to once each operating cycle. This would allow calibration to be performed during shut down, thus minimizing the potential for challenges to plant safety systems during operation.

The requested change to the calibration frequency does not impact any FSAR safety analysis, nor does it involve any change in Technical Specification setpoints, plant operation, protective functions or the design basis of the plant. More reliable protective instrumentation will provide continued assurance that required control and alarm functions are maintained to prevent uncovering the fuel from inventory loss due to a worst case main steam line break.

The proposed change has been reviewed by the Plant Operations Review Committee and the Vermont Yankee Nuclear Safety Audit and Review Committee.

### 3.0 STATE CONSULTATION

In accordance with the Commission's regulations, the Vermont State official was notified of the proposed issuance of the amendment. The State official had no comments.

### 4.0 ENVIRONMENTAL CONSIDERATION

The amendment changes a requirement with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20 and changes a surveillance requirement. The NRC staff has determined that the amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that the amendment involves no significant hazards consideration, and there has been no public comment on such finding (FR cite). Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendment.

### 5.0 CONCLUSION

The Commission has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributors: P. M. Sears  
E. H. Trottier

Date: May 8, 1992