December 29, 1977

Docket\_ NRC PDR

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Yankee Atomic Electric Company ATTN: Mr. Robert H. Groce Licensing Engineer

20 Turnpike Road

Westboro. Massachusetts 01581

BJones (4) BScharf(10) JMcGough BHarless

**DEisenbut** ACRS(16)

Gentlemen:

Docket No. 50-271

OPA, Clare Miles

The Commission has issued the enclosed Amendment No. 42 to Facility Operating License No. DPR-28 for the Vermont Yankee Nuclear Power Station. The amendment consists of changes to the Technical Specifications in response to your application dated November 22, 1977, and our letter dated August 4, 1977.

The amendment revises the Technical Specifications to allow the use of a modified Monthly Operating Report format, deletes the requirement for an Annual Operating Report, and deletes the requirements concerning respiratory protection which are now stipulated in 10 CFR 20.103.

Copies of our Safety Evaluation and Notice of Issuance are also enclosed.

Sincerely.

Robert W. Reid, Chief Operating Reactors Branch #4 Division of Operating Reactors

Enclosures:

1. Amendment No. 42

Safety Evaluation

Notice

cc w/enclosures: See next page

OFFICE	ORB#4:DOR	ORB#4:DOR		OELD	C-ORB#4:DOR	
SURNAME	RIngram /	JSiegel dn		CAN	RWReid	***************************************
DATE	12/21/77	12/28/77	·····	12/£S/77	12/29/77	***************************************

#### Yankee Atomic Electric Company

cc w/enclosure(s):

Mr. S. D. Karpyak Vermont Yankee Nuclear Power Corporation 77 Grove Street Rutland, Vermont 05701

Mr. Donald E. Vandenburgh Vice President Vermont Yankee Nuclear Power Corporation Turnpike Road, Route 9 Westboro, Massachusetts 01581

John A. Ritsher, Esq. Ropes & Gray 225 Franklin Street Boston, Massachusetts 02110

Gregor I. McGregor, Esq. Assistant Attorney General Department of the Attorney General State House, Room 370 Boston, Massachusetts 02133

Richard E. Ayres, Esq. Natural Resources Defense Council 917 - 15th Street, N.W. Washington, D.C. 20005

Honorable M. Jerome Diamond Attorney General John A. Calhoun Assistant Attorney General State of Vermont 109 State Street Pavilion Office Building Montpelier, Vermont 05602

Anthony Z. Roisman, Esq. Sheldon, Harmon & Roisman 1025 15th Street; N.W., 5th Floor Washington, D.C. 20005 Brooks Memorial Library 224 Main Street Brattleboro, Vermont 05301

John R. Stanton, Director Radiation Control Agency Hazen Drive Concord, New Hampshire 03301

John W. Stevens Conservation Society of Southern Vermont P. O. Box 256 Townshend, Vermont 05353

Mr. David M. Scott
Radiation Health Engineer
Agency of Human Services
Division of Occupational Health
P. O. Box 607
Barre, Vermont 05641

New England Coalition on Nuclear Pollution Hill and Dale Farm West Hill - Faraway Road Putney, Vermont 05346

Mr. Raymond H. Puffer Chairman Board of Selectman Vernon, Vermont 05354

Chief, Energy Systems
Analyses Branch (AW-459)
Office of Radiation Programs
U. S. Environmental Protection
Agency
Room 645, East Tower
401 M Street, S.W.
Washington, D.C. 20460

Yankee Atomic Electric Company

U. S. Environmental Protection Agency Region I Office ATTN: EIS COORDINATOR JFK Federal Building Boston, Massachusetts 02203

cc w/enclosures and cy of VY's filing dtd.: 11/22/77
Public Service Board
State of Vermont
120 State Street
Montpelier, Vermont 05602



## 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. 42 License No. DPR-28

- 1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Vermont Yankee Nuclear Power Corporation (the licensee) dated November 22, 1977, 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;
  - 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 CPR 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:

#### B. Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No.42, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment becomes effective on December 29, 1977.

FOR THE NUCLEAR REGULATORY COMMISSION

Robert W. Reid, Chief

Operating Reactors Branch #4
Division of Operating Reactors

Date of Issuance: December 29, 1977

# FACILITY OPERATING LICENSE NO. DPR-28 DOCKET NO. 50-271

Revise Appendix A Technical Specifications as follows:

Remove Pages	<u>Insert Pages</u>
200 - 205	200 & 201
208 - 210	208 - 210

Changes on the revised pages are shown by marginal lines.

#### 6.5 PLANT OPERATING PROCEDURES

A. Detailed written procedures involving nuclear safety, including applicable check-off lists and instructions, covering areas listed below shall be prepared and approved.

All procedures shall be adhered to.

- 1. Normal startup, operation and shutdown of systems and components of the facility.
- 2. Refueling operations.
- 3. Actions to be taken to correct specific and foreseen potential malfunctions of systems or components, suspected primary system leaks and abnormal reactivity changes.
- 4. Emergency conditions involving potential or actual release of radioactivity.
- 5. Preventive and corrective maintenance operations which could have an effect on the safety of the reactor.
- 6. Surveillance and testing requirements.
- B. Radiation control standards and procedures shall be prepared, approved and maintained and made available to all station personnel. These procedures shall show permissible radiation exposure, and shall be consistent with the requirements of 10 CFR Part 20. This radiation protection program shall be organized to must the requirements of 10 CFR Part 20.
  - 1. Paragraph 20.203 "Caution signs, labels, signals, and controls". In lieu of the "control device" or "alarm signal" required by paragraph 20.203(c)(2), each high radiation area in which the intensity of radiation is 1000 mrem/hr or less shall be barricaded and conspicuously posted as a high radiation area and entrance thereto shall be controlled by requiring issuance of a Radiation Work Permit\*. Any individual or group of individuals permitted to enter such areas shall be provided with one or more of the following:
    - a. A radiation monitoring device which continuously indicates the radiation dose rate in the area.
    - b. A radiation monitoring device which continuously integrates the radiation dose rate in the area and alarms when a preset integrated dose is received. Entry into such areas with this monitoring device may be made after the dose rate levels in the area have been established and personnel have been made knowledgeable of them.

c. A health physics qualified individual (i.e. qualified in radiation protection procedures) with a radiation dose rate monitoring device who is responsible for providing positive control over the activities within the area and who will perform periodic radiation surveillance at the frequency specified in the RWP. The surveillance frequency will be established by the Plant Health Physicist.

The above procedure shall also apply to each high radiation area in which the intensity of radiation is greater than 1000 mrem/hr. In addition, locked doors shall be provided to prevent unauthorized entry into such areas and the keys shall be maintained under the administrative control of the Shift Supervisor on duty and/or the Plant Health Physicist.

\* Health Physics personnel shall be exempt from the RWP issuance requirement during the performance of their assigned radiation protection duties, providing they are following plant radiation protection procedures for entry into high radiation areas.

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Pages 202a - 205 have been deleted. The next page is 206.

#### 6.7 REPORTING REQUIREMENTS

In addition to the applicable reporting requirements of Title 10, Code of Federal Regulations, the following identified reports shall be submitted to the Director of the appropriate Regional Office of Inspection and Enforcement unless otherwise noted.

#### A. Routine Reports

#### 1. Startup Report

A summary report of plant startup and power escalation testing shall be submitted following (1) receipt of an operating license, (2) amendment to the license involving a planned increase in power level, (3) installation of fuel that has a different design or has been manufactured by a different fuel supplier, and (4) modifications that may have significantly altered the nuclear, thermal, or hydraulic performance of the plant. The report shall address each of the tests identified in the FSAR and shall in general include a description of the measured values of the operating conditions or characteristics obtained during the test program and a comparison of these values with design predictions and specifications. Any corrective actions that were required to obtain satisfactory operation shall also be described. Any additional specific details required in license conditions based on other commitments shall be included in this report.

Startup reports shall be submitted within (1) 90 days following completion of the startup test program, (2) 90 days following resumption or commencement of commercial power operation, or (3) 9 months following initial criticality, whichever is earliest. If the Startup Report does not cover all three events (i.e., initial criticality, completion of startup test program, and resumption or commencement of commercial power operation), supplementary reports shall be submitted at least every three months until all three events have been completed.

#### 2. Annual Report

An annual report covering the previous calendar year shall be submitted prior to March 1 of each year. The annual report shall include a tabulation on an annual basis of the number of station, utility and other personnel (including contractors) receiving exposures greater than 100 mrem/yr and their associated man rem exposure according to work and job functions, 1/e.g., reactor operations and surveillance, inservice inspection, routine maintenance, special maintenance (describe maintenance), waste processing, and refueling. The dose assignment to various duty functions may be estimates based on pocket dosimeter, TLD, or

#### 2. <u>Annual Report</u> (Continued)

film badge measurements. Small exposures totalling less than 20% of the individual total dose need not be accounted for. In the aggregate, at least 80% of the total whole body dose received from external sources shall be assigned to specific major work functions.

<sup>1/</sup> This tabulation supplements the requirements of \$20.407 of 10 CFR Part 20.

#### 3. Monthly Operating Report

Routine reports of operating statistics and shutdown experience shall be submitted on a monthly basis to the Office of Management Information and Program Control, U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, with a copy to the appropriate Regional Office, to arrive no later than the fifteenth of each month following the calendar month covered by the report. These reports shall include a narrative summary of operating experience during the report period which describes the operation of the facility and any major safety-related maintenance.

#### B. Reportable Occurrences

Reportable occurrences, including corrective actions and measures to prevent recurrence, shall be reported to the NRC. Supplemental reports may be required to fully describe final resolution of occurrence. In case of corrected or supplemental reports, a licensee event report shall be completed, and reference shall be made to the original report date.



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

## SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION SUPPORTING AMENDMENT NO. 42 TO FACILITY OPERATING LICENSE NO. DPR-28

#### VERMONT YANKEE NUCLEAR POWER CORPORATION

#### VERMONT YANKEE NUCLEAR POWER STATION

#### DOCKET NO. 50-271

#### Introduction

From our review of all licensee reports we determined that much of the information found in the Annual Operating Report either is addressed in the LER's or Monthly Operating Reports, which are submitted in a more timely manner, or could be included in these reports with only a slight augmentation of the information already supplied. Therefore we concluded that the Annual Operating Report could be deleted as a Technical Specification requirement if certain additional information were provided in the Monthly Operating Reports. As a result we sent letters during September 1977 to licensees informing them that a revised and improved format for Monthly Operating Reports was available and requested that they use it. Licensees were informed that if they agreed to use the revised format they should submit a change request to delete the requirement for an Annual Operating Report except that occupational exposure data must still be submitted.

By letter dated November 22, 1977, Vermont Yankee Nuclear Power Corporation (licensee) proposed an amendment to the Vermont Yankee Nuclear Power Station (facility) operating license. This amendment would modify the Technical Specifications to permit use of Monthly Operating Report formats different than those contained in Regulatory Guide 1.16 and delete the requirement for an Annual Operating Report.

On November 29, 1976, the Commission published in the Federal Register, an amended Section 20.103 of 10 CFR 20, which became effective on December 29, 1976. One effect of this revision is that in order to receive credit for limiting the inhalation of airborne radioactive material, respiratory protective equipment must be used as stipulated in Regulatory Guide 8.15. Another requirement of the amended regulation is that licensees authorized to make allowance for use of respiratory protective equipment prior to December 29, 1976, must bring the use of their respiratory protective equipment into conformance with Regulatory Guide 8.15 by December 29, 1977.

Because the respiratory protective program described in subsections 6.5.B.1, 6.5.B.2, and 6.5.B.3 of the facility Technical Specifications differs from that stipulated in Regulatory Guide 8.15, the effect of this change in the regulations is to require amendment of the Technical Specifications. In view of the provisions of Section 6.5.B of the Technical Specifications, which require conformance with 10 CFR 20, the fact that Section 20.103 no longer requires specific authorization to employ respiratory protective equipment, and the revocation provisions of subsection 6.5.B.3, we concluded that the necessary amendment to the facility's Technical Specifications can be effected by merely deleting subsections 6.5.B.1, 6.5.B.2 and 6.5.B.3.

Accordingly, by letter dated August 4, 1977, we advised the licensee that pursuant to 10 CFR 20.103(c) and (f), to receive credit for use of respiratory protective equipment at the facility after December 28, 1977, use must be as stipulated in Regulatory Guide 8.15 rather than as specified in the current Technical Specifications. Based on the revocation provision of the current specification on respiratory protection and in the absence of subsequent written objection from the licensee, we would delete this specification.

#### Evaluation

The licensee has proposed to delete all but one of the four specified items in the Annual Operating. Report. The report which tabulates occupational exposure on an annual basis is needed and therefore, the requirement to submit this information has been retained. We have determined that the failed fuel examination information does not need to be supplied routinely by licensees because this type of historical data can be obtained in a compiled form from fuel vendors when needed. The information concerning forced reductions in power and outages will be supplied in the revised Monthly Operating Reports and the narrative summary of operating experience will be provided on a monthly basis in the Monthly Operating Report rather than annually. The licensee has committed to use the revised Monthly Operating Report format beginning with their report for January 1978 as requested. We have concluded that all needed information will be provided and deletion of the Annual Operating Report is acceptable.

Deletion of current Technical Specification requirements, Sections 6.5.B.1 and 6.5.B.2, regarding respiratory protection is necessary to eliminate conflict with 10 CFR \$20.103, as revised November 29, 1976. This agrees with the revocation provision in Section 6.5.B.3 of the current

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Technical Specifications which requires that Sections 6.5.B.1 and 6.5.B.2 be revoked upon adoption of the proposed change to 10 CFR \$20.103. In the future, as specified in the regulations, allowance may be made for the use of respiratory protective equipment only if its use is as stipulated in Regulatory Guide 8.15, Acceptable Programs for Respiratory Protection. Based on the above, we find this change acceptable.

#### Environmental Consideration

We have determined that this amendment does not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendment involves an action which is insignificant from the standpoint of environmental impact, and pursuant to 10 CFR §51.5(d)(4) that an environmental impact statement, or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

#### Conclusion

We have concluded, based on the considerations discussed above, that:
(1) because the amendment does not involve a significant increase in
the probability or consequences of accidents previously considered
and does not involve a significant decrease in a safety margin, the
amendment does not involve a significant hazards consideration, (2)
there is reasonable assurance that the health and safety of the public
will not be endangered by operation in the proposed manner, and (3)
such activities will be conducted in compliance with the Commission's
regulations and the issuance of this amendment will not be inimical
to the common defense and security or to the health and safety of the
public.

Dated: December 29, 1977

## UNITED STATES NUCLEAR REGULATORY COMMISSION DOCKET NO. 50-271

#### VERMONT YANKEE NUCLEAR POWER CORPORATION .

### NOTICE OF ISSUANCE OF AMENDMENT TO FACILITY OPERATING LICENSE

The Nuclear Regulatory Commission (the Commission) has issued Amendment No. 42 to Facility Operating License No. DPR-28 issued to Vermont Yankee Nuclear Power Corporation (the licensee) which revised Technical Specifications for operation of the Vermont Yankee Nuclear Power Station (the facility), located near Vernon, Vermont. The amendment becomes effective on December 29, 1977.

The amendment revises the Technical Specifications to allow the use of a modified Monthly Operating Report format, deletes the requirement for an Annual Operating Report, and deletes the requirements concerning respiratory protection which are now stipulated in 10 CFR 20.103.

The application for the amendment complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendment. Prior public notice of this amendment was not required since the amendment does not involve a significant hazards consideration.

The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR \$51.5(d)(4) an environmental impact statement, or negative declaration and environmental impact appraisal need not be prepared in connection with issuance of this amendment.

For further details with respect to this action, see (1) the application dated November 22, 1977, (2) the Commission's letter to the licensee dated August 4, 1977, (3) Amendment No. 42 to License No. DPR-28, and (4) the Commission's related Safety Evaluation. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C. and at the Brooks Memorial Library, 224 Main Street, Brattleboro, Vermont. A copy of items (2), (3) and (4) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. Attention: Director, Division of Operating Reactors.

Dated at Bethesda, Maryland, this 29th day of December 1977.

FOR THE NUCLEAR REGULATORY COMMISSION

Robert W. Reid, Chief

Operating Reactors Branch #4 Division of Operating Reactors