

April 21, 1987

Docket No. 50-247

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ACRS (10)	LFMB	

Mr. Murray Selman
 Vice President, Nuclear Power
 Consolidated Edison Company
 of New York, Inc.
 Broadway and Bleakley Avenue
 New York, New York 10511

Dear Mr. Selman:

The Commission has issued the enclosed Amendment No. 118 to Facility Operating License No. DPR-26 for the Indian Point Nuclear Generating Unit No. 2. The amendment consists of changes to the Technical Specifications in response to your application transmitted by letter dated December 24, 1985, as supplemented December 31, 1986, January 27, 1987 and March 3, 1987.

The amendment changes the expiration date for Facility Operating License DPR-26 from October 14, 2006 to September 28, 2013.

A copy of the related Safety Evaluation is enclosed. A Notice of Issuance will be included in the Commission's next regular bi-weekly Federal Register notice.

Sincerely,

Marylee M. Slosson, Project Manager
 Project Directorate I-1
 Division of Reactor Projects, I/II

Enclosures:

1. Amendment No. 118 to DPR-26
2. Safety Evaluation

cc: w/enclosures

See next page

*SEE PREVIOUS CONCURRENCE

PDI-1
 CVogan*
 2/17/87

PDI-1 *MS*
 MSlosson* *MS*
 2/18/87

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 MKarman*
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BB
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SV
 D. DRPI/II
 SVarga
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Mr. Murray Selman
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Broadway and Bleakley Avenue
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Sincerely,

Marylee M. Slosson, Project Manager
PWR Project Directorate #3
Division of PWR Licensing-A, NRR

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*SEE PREVIOUS CONCURRENCE

PD#3
CVogan*
2/17/87

w
3-25-87

PD#3
MSlosson*
2/18/87

OGC
M. Harmon
3/5/87


PD#3
SVarga
3/ /87

DIR:DIV.
TNovak
3/ /87

Docket No. 50-247

Mr. Murray Selman
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Broadway and Bleakley Avenue
New York, New York 10511

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Marylee M. Slosson, Project Manager
PWR Project Directorate #3
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PD#3 CVogan 2/1/87	PD#3 MS MSlosson 2/1/87	OGC 2/ /87	PD#3 SVarga 2/ /87	DIR:DIV. TNovak 2/ /87
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of New York, Inc.

Indian Point Nuclear Generating
Station 1/2

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

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DOCKET NO. 50-247

INDIAN POINT NUCLEAR GENERATING UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 118
License No. DPR-26

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Consolidated Edison Company of New York, Inc. (the licensee) dated December 27, 1985 as supplemented December 31, 1986 and January 27, 1987 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 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, paragraph 3 of Facility Operating License No. DPR-26 is amended to read as follows:
 - "3. This license is effective as of the date of issuance, and shall expire at midnight on September 28, 2013."

3. This license amendment is effective as of the date of its issuance to be implemented within 30 days.

FOR THE NUCLEAR REGULATORY COMMISSION

Robert A. Capra

Robert A. Capra, Acting Director
Project Directorate I-1
Division of Reactor Projects, I/II

Date of Issuance:
April 21, 1987



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 118 TO FACILITY OPERATING LICENSE NO. DPR-26
CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
INDIAN POINT NUCLEAR GENERATING UNIT NO. 2
DOCKET NO. 50-247

INTRODUCTION

By application dated December 27, 1985, as supplemented by letters dated December 31, 1986, January 27, 1987 and March 3, 1987, Consolidated Edison Company (the licensee) requested an amendment to Facility Operating License No. DPR-26 for Indian Point Nuclear Generating Unit No. 2. The proposed amendment would change the license expiration date from October 14, 2006 to September 28, 2013.

The letters dated December 31, 1986, January 27, 1987 and March 3, 1987 were supplementary in nature and in no way changed the meaning or the content of the December 27, 1985 application.

DISCUSSION AND EVALUATION

Section 103.c of the Atomic Energy Act of 1954 provides that a license is to be issued for a specified period not exceeding 40 years. 10 CFR 50.51 specifies that each license will be issued for a fixed period of time not to exceed 40 years from date of issuance. 10 CFR 50.56 and 10 CFR 50.57 allow the issuance of an operating license pursuant to 10 CFR 50.51 after the construction of the facility has been substantially completed, in conformity with the construction permit and when other provisions specified in 10 CFR 50.57 are met. The currently licensed term for the Indian Point Unit No. 2 is 40 years commencing with the issuance of the construction permits (October 14, 1968). Accounting for the time that was required for plant construction, this represents an effective operating license term of 33 years for Unit 2. Consistent with Section 103.c of the Atomic Energy Act and Sections 50.51, 50.57 of the Commission's regulations, the licensee, by its application of December 26, 1985, seeks extensions of the operating license terms for Indian Point Unit 2 such that the fixed period of the licenses would be 40 years from the date of operating license issuance.

The licensee's request for extension of the operating license is based on the fact that a 40-year service life was considered during the design and construction of the plant. Although this does not mean that some components will not wear out during the plant lifetime, design features were incorporated which maximize the inspectability of structures, systems and equipment.

Surveillance and maintenance practices which were implemented in accordance with the ASME code and the facility Technical Specifications provide assurance that any unexpected degradation in plant equipment will be identified and corrected.

The design of the reactor vessel and its internals considered the effects of 40 years of operation at full power and a comprehensive vessel material surveillance program is maintained in accordance with 10 CFR Part 50, Appendix H. We have completed our analyses related to the pressurized thermal shock (PTS) rule, 10 CFR 50.61. [By our letter dated February 27, 1987, the licensee was given results showing that the most critical weld materials for the reactor vessel meet the criterion of 10 CFR 50.61 to the end of the 40-year operating life.] In addition to these calculations, surveillance capsules placed inside the reactor vessels provide a means of monitoring the cumulative effects of power operation.

During the 1984 refueling outage, the licensee, conducted a scheduled ten-year inservice inspection of the reactor vessel. An ultrasonic flaw indication was detected on August 5, 1984 in the longitudinal weld at vessel location 345° azimuth in the lower shell course near the intersection of the circumferential girth weld between the lower shell course to middle shell course, 236 inches below the vessel flange. The staff met with Consolidated Edison representatives, reviewed the licensee's submittals related to the flaw indication, performed an independent fracture mechanics analysis and published a safety evaluation report, dated October 16, 1984. The staff has reasonable assurance that an indication with a through wall dimension of 1.2 inches and a length of 2.0 inches conservatively envelopes the actual flaw. The staff considers this flaw indication to be conditionally acceptable in accordance with subarticle IWB-3123 of Section XI of the ASME Code¹ and therefore requires augmented inservice inspection based on 10 CFR 50.55a(g)(4). By letter dated June 6, 1985, the licensee's Technical Specifications were revised to require the licensee to either reexamine the vessel weld located approximately 236 inches below the vessel flange at 345° azimuth during three successive inspection periods or perform sufficient examinations to demonstrate that the reflector meets the acceptance standards of subarticle IWB-3510 of Section XI. The proposed license extension would not change the staff's findings with regard to the conditional acceptability of the reactor vessel.

Aging analyses have been performed for all safety-related electrical equipment in accordance with 10 CFR 50.49, "Environmental Qualification Of Electrical Equipment Important To Safety For Nuclear Power Plants," identifying qualified lifetimes for this equipment. These lifetimes will be incorporated into plant equipment maintenance and replacement practices to ensure that all safety-related electrical equipment remains qualified and available to perform its safety function regardless of the overall age of the plant.

¹ Section XI, 1974 Edition including Addenda through Summer 1975.

Based upon the above, it is concluded that extension of the operating license for Indian Point Unit No. 2 to allow a 40-year service life is consistent with the safety analysis in that all issues associated with plant aging have already been addressed. Accordingly, we find the proposed change to the expiration date of the Indian Point Unit No. 2 Facility Operating License to be acceptable.

ENVIRONMENTAL CONSIDERATION

A Notice of Issuance of an Environmental Assessment and Finding of No Significant Impact relating to the proposed extension of facility operating license termination date for the Indian Point Unit No. 2 was published in the Federal Register on April 9, 1987 (52 FR 11577).

CONCLUSION

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

Date: April 21, 1987

Principal Contributor:

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L. Lofts