

DOCKET FILE

SEP 15 1972

Docket No. 50-293

Boston Edison Company
ATTN: Mr. James M. Carroll
Vice President and
General Counsel
800 Boylston Street
Boston, Massachusetts 02199

Gentlemen:

Pursuant to an Initial Decision, dated September 13, 1972, by the Atomic Safety and Licensing Board, the Atomic Energy Commission has issued Amendment No. 1 to Facility Operating License No. DPR-35 (copy enclosed) to the Boston Edison Company for the Pilgrim Nuclear Power Station. The license amendment permits operation at steady state power levels not to exceed 1998 megawatts thermal, in accordance with the Technical Specifications appended thereto.

A related notice, which has been forwarded to the Office of the Federal Register for filing and publication, is enclosed for your information. You have already been provided a copy of the Atomic Safety and Licensing Board's Initial Decision.

Sincerely,

Original signed by:
Roger S. Boyd

Roger S. Boyd, Assistant Director
for Boiling Water Reactors
Directorate of Licensing

Enclosures:

1. Amendment No. 1 to License DPR-35
w/Technical Specifications
(Appendices A and B)

2. Federal Register Notice

cc: w/encls. (see next page)

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DATE ▶						

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Boston Edison Company

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cc: w/encs.

Mr. Claude A. Pursel
 Assistant Vice President - Nuclear
 Boston Edison Company
 800 Boylston Street
 Boston, Massachusetts 02199

Dale G. Stoodley, Counsel
 Boston Edison Company
 800 Boylston Street
 Boston, Massachusetts 02199

J. Edward Howard, Project Manager
 Boston Edison Company
 800 Boylston Street
 Boston, Massachusetts 02199

bcc: H. J. McAlduff, ORO
 H. Mueller, GMR/H
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 J. Saltzman, L/OAI
 *George T. Arnold, ORNL

*with Technical Specifications

OFFICE ▶	L: BWR-2	L: BWR-2	OGC	L: AD: EP	L: AD: BWR	
SURNAME ▶	HSmith:ew	JFStolz	BRenfrow	DMuller	RSBoyd	
DATE ▶	9/13/72	9/14/72	9/14/72	9/14/72	9/14/72	

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UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON, D.C. 20545

BOSTON EDISON COMPANY

(PILGRIM NUCLEAR POWER STATION)

DOCKET NO. 50-293

FACILITY OPERATING LICENSE

License No. DPR-35
Amendment No. 1

The Atomic Energy Commission (the Commission) having found that:

- a. Except as stated in condition 5, construction of the Pilgrim Nuclear Power Station (the facility) has been substantially completed in conformity with the application, as amended, the Provisional Construction Permit No. CPPR-49, the provisions of the Atomic Energy Act of 1954, as amended (the Act), and the rules and regulations of the Commission as set forth in Title 10, Chapter 1, CFR; and
- b. The facility will operate in conformity with the application, as amended, the provisions of the Act, and the rules and regulations of the Commission; and
- c. There is reasonable assurance (i) that the activities authorized by the operating license can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the rules and regulations of the Commission; and
- d. The Boston Edison Company (Boston Edison) is technically and financially qualified to engage in the activities authorized by this operating license, in accordance with the rules and regulations of the Commission; and
- e. Boston Edison has satisfied the applicable provisions of 10 CFR Part 140, "Financial Protection Requirements and Indemnity Agreements" of the Commission's regulations; and
- f. The issuance of this license will not be inimical to the common defense and security or to the health and safety of the public; and
- g. In accordance with the requirements of Appendix D to 10 CFR Part 50, the operating license should be issued subject to conditions for protection of the environment set forth herein.

Facility Operating License No. DPR-35, dated June 8, 1972, issued to the Boston Edison Company (Boston Edison) is hereby amended in its entirety, pursuant to an Initial Decision dated September 13, 1972, by the Atomic Safety and Licensing Board, to read as follows:

1. This license applies to the Pilgrim Nuclear Power Station, a single cycle, forced circulation, boiling water nuclear reactor and associated electric generating equipment (the facility). The facility is located on the western shore of Cape Cod Bay in the town of Plymouth on the Boston Edison site in Plymouth County, Massachusetts, and is described in the "Final Safety Analysis Report," as supplemented and amended.
2. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses Boston Edison:
 - A. Pursuant to Section 104b of the Atomic Energy Act of 1954, as amended (the Act) and 10 CFR Part 50, "Licensing of Production and Utilization Facilities," to possess, use, and operate the facility as a utilization facility at the designated location on the Pilgrim site;
 - B. Pursuant to the Act and 10 CFR Part 70, "Special Nuclear Material," to receive, possess, and use at any one time up to 4100 kilograms of U-235 as reactor fuel assemblies and up to 60 clad fuel rods; and 0.99 gram U-235 as a sealed source, all in connection with operation of the facility;
 - C. Pursuant to the Act and 10 CFR Part 30, "Rules of General Applicability to Licensing of Byproduct Material," to receive, possess, and use in connection with operation of the facility: Strontium-90, not to exceed 0.01 millicurie as a sealed source, and 50 microcuries as liquid calibrated sources; Cesium-137, two sealed sources not to exceed 50 curies and 0.10 millicurie, respectively, liquid calibrated sources not to exceed 50 microcuries and liquid uncalibrated sources not to exceed 10 millicuries; Cobalt-60, four sealed sources not to exceed 0.8 millicurie, 25 millicuries, 351 microcuries, and 15 millicuries, respectively, liquid calibrated sources not to exceed 50 microcuries and liquid uncalibrated sources not to exceed 10 millicuries; Thallium-204, not to exceed 50 microcuries as a liquid calibrated source; Americium-241, not to exceed 6.0 curies in the form of an Americium-Beryllium sealed source; Antimony-125, not to exceed 14,000 curies in the form of Antimony-Beryllium sealed sources, nor to exceed 1,400 curies each; Hydrogen-3, not to exceed 255 millicuries in the form of Titanium Tritide foil; and up to 100 millicuries per isotope of any byproduct material with Atomic Numbers 3 to 83, inclusive, without restriction as to chemical and physical form; and
 - D. Pursuant to the Act and 10 CFR Parts 30 and 70, to possess, but not to separate, such byproduct and special nuclear material as may be produced by the operation of the facility.

3. This license shall be deemed to contain and is subject to the conditions specified in the following Commission regulations: 10 CFR Part 20, Section 30.34 of 10 CFR Part 30, Section 40.41 of 10 CFR Part 40, Sections 50.54 and 50.59 of 10 CFR Part 50 and Section 70.32 of 10 CFR Part 70; and is subject to all applicable provisions of the Act and to the rules, regulations, and orders of the Commission now or hereafter in effect; and is subject to the additional conditions specified below:

- A. Maximum Power Level

Boston Edison is authorized to operate the facility at steady state power levels not to exceed 1998 megawatts thermal.

- B. Technical Specifications

The Technical Specifications contained in Appendices A and B attached hereto are hereby incorporated in this license. Boston Edison shall operate the facility at steady state power levels not to exceed 1998 megawatts thermal in accordance with the Technical Specifications, and may make changes therein only when authorized by the Commission, in accordance with the provisions of Section 50.59 of 10 CFR Part 50.

- C. Reports

Boston Edison shall keep facility operating records in accordance with the requirements of the Technical Specifications.

4. This license is subject to the following condition for the protection of the environment: Boston Edison shall continue, for a period of five years after initial power operation of the facility, an environmental monitoring program similar to that presently existing with the Commonwealth of Massachusetts (and described generally in Section C-III of Boston Edison's Environmental Report, Operating License Stage dated September, 1970) as a basis for determining the extent of station influence on marine resources and shall mitigate adverse effects, if any, on marine resources.
5. Boston Edison has not completed as yet construction of the Rad Waste Solidification System and the Augmented Off-Gas System. Limiting conditions concerning these systems are set forth in the Technical Specifications.
6. Pursuant to Section 105c(8) of the Act, the Commission has consulted with the Attorney General regarding the issuance of this operating license. After said consultation, the Commission has determined that the issuance of this license, subject to the conditions set forth in this subparagraph 6., in advance of consideration of and findings with respect to matters covered in Section 105c of the Act, is necessary in

the public interest to avoid unnecessary delay in the operation of the facility. At the time this operating license is being issued an anti-trust proceeding has not been noticed. The Commission, accordingly, has made no determination with respect to matters covered in Section 105c of the Act, including conditions, if any, which may be appropriate as a result of the outcome of any antitrust proceeding. On the basis of its findings made as a result of an antitrust proceeding, the Commission may continue this license as issued, rescind this license or amend this license to include such conditions as the Commission deems appropriate. Boston Edison and others who may be affected hereby are accordingly on notice that the granting of this license is without prejudice to any subsequent licensing action, including the imposition of appropriate conditions, which may be taken by the Commission as a result of the outcome of any antitrust proceeding. In the course of its planning and other activities, Boston Edison will be expected to conduct itself accordingly.

7. This license is effective as of the date of issuance and shall expire August 26, 2008.

FOR THE ATOMIC ENERGY COMMISSION

A. Giambusso

A. Giambusso, Deputy Director
for Reactor Projects
Directorate of Licensing

Attachments:

- Appendix A - Technical Specifications
(Radiological)
- Appendix B - Technical Specifications
(Environmental)

Date of Issuance: SEP 15 1972

UNITED STATES ATOMIC ENERGY COMMISSION

DOCKET NO. 50-293

BOSTON EDISON COMPANY

NOTICE OF ISSUANCE OF AMENDMENT TO FACILITY OPERATING LICENSE

Notice is hereby given that the Atomic Energy Commission (the Commission) has issued Amendment No. 1 to Facility Operating License No. DPR-35 to Boston Edison Company (Boston Edison) which authorizes operation of the Pilgrim Nuclear Power Station (the facility) at steady state power levels not to exceed 1998 megawatts thermal in accordance with the provisions of the license and the Technical Specifications appended thereto. The facility is a single cycle, forced circulation, boiling water reactor located at Boston Edison's site in Plymouth County, Massachusetts. A Notice of Consideration of Issuance of Facility Operating License was published by the Commission on April 23, 1971 (36 F.R. 7696).

By Memorandum and Order dated July 12, 1971, the Commission determined that a public hearing would be held and that the Sierra Club and the Union of Concerned Scientists, joint intervenors, and the Commonwealth of Massachusetts should be admitted to intervene as parties in this proceeding. A Notice of Hearing was issued by the Commission July 12, 1971 (36 F.R. 13287) and an Atomic Safety and Licensing Board (the Board) was appointed to preside over the hearing. A Supplementary Notice of Hearing, pertaining to environmental matters not previously encompassed by the Notice of Hearing, was issued by the Commission on December 27, 1971 (36 F.R. 25242). A public hearing convened on December 6, 1971, in Plymouth, Massachusetts, in this matter, and on June 1, 1972, a Notice of Hearing was issued by the Board (37 F.R. 11383). A second portion of the

hearing convened on June 27, 1972, in Plymouth, Massachusetts, for the purpose of considering the issues specified in the Board's Memorandum and Order, dated May 24, 1972.

The Board issued an Order, dated June 1, 1972, in accordance with the provisions of the Commission's regulations authorizing the Director of Regulation to make the appropriate findings under 10 CFR §50.57(c) to issue a license authorizing loading of nuclear fuel and operation of the facility at power levels not to exceed 399 megawatts thermal, for the purpose of testing. On June 15, 1972, the Commission published in the FEDERAL REGISTER a Notice of Issuance relating to Facility Operating License No. DPR-35, dated June 8, 1972 (37 F.R. 11912).

By its Initial Decision, dated September 13, 1972, the Atomic Safety and Licensing Board authorized the Director of Regulation to issue Boston Edison an operating license, containing Technical Specifications based on the record of hearing, authorizing operation of the Pilgrim Nuclear Power Station at power levels not to exceed 1998 megawatts thermal, subject to the following conditions: (1) Boston Edison shall continue, for a period of five years after initial power operation of the facility, an environmental monitoring program similar to that presently existing with the Commonwealth of Massachusetts (and described generally in Section C-III of Boston Edison's Environmental Report, Operating License Stage dated September, 1970) as a basis for determining the extent of station influence on marine resources and shall mitigate adverse effects, if any, on marine resources; and (2) Boston Edison shall submit an operational quality assurance program that meets the Commission's requirements set forth in 10 CFR Part 50, Appendix B, and that such program shall be approved by the

Commission. Boston Edison has submitted an operational quality assurance program to the Commission, and the program was approved by the Commission on August 30, 1972. Consequently, it is no longer necessary to include a condition in the license concerning Boston Edison's quality assurance program.

The Board has made the findings which are set forth in the license, and has concluded that the application, as amended, complies with the requirements of the Atomic Energy Act of 1954, as amended, and the Commission's regulations in Title 10 Chapter 1, CFR, and that the issuance of the license will not be inimical to the common defense and security or to the health and safety of the public.

The Commission's regulatory staff has inspected the facility and has determined that, for operation as authorized by the license, the facility has been constructed in accordance with the application, as amended, the provisions of Provisional Construction Permit No. CPPR-49, the Atomic Energy Act of 1954, as amended (the Act), and the Commission's regulations. Boston Edison has submitted proof of financial protection in satisfaction of the requirements of 10 CFR Part 140.

The license amendment is effective as of the date of issuance and shall expire on August 26, 2008.

For further details, see (1) the Board's Initial Decision, dated September 13, 1972, (2) Amendment No. 1 to Facility Operating License No. DPR-35, complete with Technical Specifications (Appendices A and B), (3) Boston Edison's Environmental Report, dated September 14, 1970, and Environmental Report Supplement, dated November 8, 1971, as amended, (4) the Safety Evaluation for the Pilgrim

Nuclear Power Station, dated August 25, 1971, and Supplement No. 1 thereto, dated June 2, 1972, (5) the report of the Advisory Committee on Reactor Safeguards, dated April 7, 1971, (6) Draft Detailed Statement on Environmental Considerations, dated February 1972, (7) Final Environmental Statement, dated May 1972, related to operation of the Pilgrim Nuclear Power Station, (8) Reports by the former Division of Compliance and Regulatory Operations dated October 8, 1971, and May 5, 1972, respectively, and (9) the Final Safety Analysis Report, dated December 31, 1969, as amended, which are available for public inspection in the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C. 20545, and at the Plymouth Public Library, North Street, Plymouth, Massachusetts 02360. Copies of items (2), (4) and (7) may be obtained upon request addressed to the Atomic Energy Commission, Washington, D. C. 20545, Attention: Deputy Director for Reactor Projects, Directorate of Licensing.

Dated at Bethesda, Maryland, this 15th day of September, 1972.

FOR THE ATOMIC ENERGY COMMISSION



A. Giambusso, Deputy Director
for Reactor Projects
Directorate of Licensing

Applicant BOSTON EDISON COMPANY
 Facility Pilgrim Nuclear Power Station
 Project Leader S. Burwell
 Licensing Assistant Hazel Smith

Date

Notice of Intent to Issue License:
 Published in Federal Register
 Action Date

4-23-715-25-71ORInitial Decision or Order9-13-72

Environmental Review:

Final Environmental Statement
 Published in Federal Register (37 F. R. 9576)

5-19725-12-72Or

Mini-Review Discussion & Findings Issued

N/A

License Fee:

Amount: \$151,905
 Paid

9-14-72

Indemnity Agreement: (covered by Agreement issued for
 OAI Concurrence 20% license)

N/A

Regulatory Operations Final Report:
 (attach copy if available)

8-30-72

Technical Specifications:

RP Concurrence
 EP Concurrence

9-14-729-14-72

Public Announcement (to be released):
 (attach copy if available)

undated

Issuance Package: OGC Concurrence

1. License
2. Federal Register Notice
3. Letter to applicant
4. Letter to Joint Committee

9-14-729-14-729-14-729-14-72

License Approved by:

IS/
 A. Giambusso, Deputy Director for RP

9-15-72
 Date