

JAN 25 1977

Distribution

✓ Docket  
 ORB #3  
 Local PDR  
 O&E (5)  
 NRC PDR  
 VStello  
 KGoeller/TJCarter  
 CParrish  
 GLear  
 DVerrelli  
 J. Shea  
 Attorney, OELD  
 BJones (4)  
 BScharf (10)  
 JMcGough  
 Chebron

DEisenhut  
 ACRS (16)  
 DRoss  
 TBAbernathy  
 JRBuchanan

Docket No. 50-219

Jersey Central Power & Light Company  
 ATTN: Mr. I. R. Finfrock, Jr.  
 Vice President - Generation  
 Madison Avenue at Punch Bowl Road  
 Morristown, New Jersey 07960

Gentlemen:

The Commission has issued the enclosed Amendment No. 19 to Provisional Operating License No. DPR-16 for the Oyster Creek Nuclear Generating Station. This amendment consists of changes to the Technical Specifications and is in response to your application dated December 18, 1975, as supplemented by letters dated March 16, 1976, May 7, 1976, November 15, 1976 and December 17, 1976.

The amendment consists of a license amendment and Technical Specification changes relating to the receipt, possession, and use of byproduct, source, and special nuclear material.

Our current procedure for the licensing of byproduct, source, and special nuclear materials included in reactor licenses is not to specify quantity limits. Therefore, we have issued this amendment consistent with that procedure.

Copies of the related Safety Evaluation and the Federal Register Notice also are enclosed.

Sincerely,

Original signed by

George Lear, Chief  
 Operating Reactors Branch #3  
 Division of Operating Reactors

Enclosures:

1. Amendment No. 19 to License DPR-16
2. Safety Evaluation
3. Federal Register Notice

cc w/encls:

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OFFICE	See next page	ORB #3	ORB #3	ORB #3	OELD	ORB #3
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DATE		1/13/77	1/17/77	1/17/77	1/21/77	1/25/77

Jersey Central Power & Light Company - 2 -

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Jersey Central Power & Light Company  
ATTN: Mr. Thomas M. Crimmins, Jr.  
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GPU Service Corporation  
260 Cherry Hill Road  
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Roisman, Kessler and Cashdan  
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Honorable Joseph W. Ferraro, Jr.  
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State of New Jersey  
Department of Law & Public Safety  
Consumer Affairs Section  
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Mark L. First  
Deputy Attorney General  
State of New Jersey  
Department of Law & Public Safety  
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Mayor, Lacey Township  
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Forked River, New Jersey 08731

Jersey Central Power & Light Company  
ATTN: Mr. Joseph Carroll  
Plant Superintendent  
Oyster Creek Plant  
Madison Avenue at Punch Bowl Road  
Morristown, New Jersey 07960

Chief, Energy Sys. Analysis Br. (AW-459)  
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U. S. Environmental Protection Agency  
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Washington, D. C. 20460

U. S. Environmental Protection Agency  
Region II  
ATTN: EIS COORDINATOR  
26 Federal Plaza  
New York, New York 10007

Ocean County Library  
Brick Township Branch  
401 Chambers Bridge Road  
Brick Town, New Jersey 08723



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

JERSEY CENTRAL POWER & LIGHT COMPANY

DOCKET NO. 50-219

OYSTER CREEK NUCLEAR GENERATING STATION, UNIT NO. 1

AMENDMENT TO PROVISIONAL OPERATING LICENSE

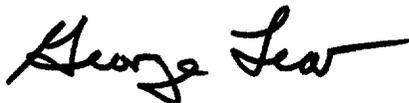
Amendment No. 19  
License No. DPR-16

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Jersey Central Power & Light Company dated December 18, 1975, as supplemented by letters dated March 16, 1976, May 7, 1976, November 15, 1976 and December 17, 1976, 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.
  - F. 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 a change to the Technical Specifications as indicated in the attachment to this license amendment and Facility Operating License No. DPR-16, as amended, is hereby further amended by replacing in their entirety paragraphs 2, 2.A., 2.B., 2.C., and 2.D. thereof with the following:
  - "2. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses
    - A. Pursuant to Section 104b of the Act and 10 CFR Part 50, "Licensing of Production and Utilization facilities," to possess, use and operate the facility at the designated location on the Oyster Creek site in accordance with the procedures and limitations set forth in this license;
    - B. Pursuant to the Act and 10 CFR Part 70, to receive, possess and use at any time special nuclear material as reactor fuel, in accordance with the limitations for storage and amounts required for reactor operation, as described in the Facility Description and Safety Analysis Report, as supplemented and amended as of December 17, 1976;
    - C. Pursuant to the Act and 10 CFR Parts 30, 40 and 70, to receive, possess and use at any time any byproduct, source, and special nuclear material as sealed neutron sources for reactor startup, sealed sources for reactor instrumentation and radiation monitoring equipment calibration, and as fission detectors in amounts as required;
    - D. Pursuant to the Act and 10 CFR Parts 30, 40 and 70, to receive, possess and use in amounts as required any byproduct, source or special nuclear material without restriction to chemical or physical form, for sample analysis or instrument calibration or associated with radioactive apparatus or components;
    - E. Pursuant to the Act and 10 CFR Parts 30 and 70, to possess such byproduct and special nuclear materials as may be produced by the operation of the facility, but not to separate such materials retained within the fuel cladding."

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

FOR THE NUCLEAR REGULATORY COMMISSION

A handwritten signature in black ink that reads "George Lear". The signature is written in a cursive style with a long horizontal stroke at the end.

George Lear, Chief  
Operating Reactors Branch #3  
Division of Operating Reactors

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: January 25, 1977

ATTACHMENT TO LICENSE AMENDMENT NO. 19  
TO THE TECHNICAL SPECIFICATIONS  
PROVISIONAL OPERATING LICENSE NO. DPR-16  
DOCKET NO. 50-219

Replace pages ii and 6-26 with the attached revised pages. Add page 4.11-1.

4.6	Radioactive Effluents	4.6-1
4.7	Auxiliary Electrical Power	4.7-1
4.8	Isolation Condenser	4.8-1
4.9	Refueling	4.9-1
4.10	ECCS Related Core Limits	4.10-1
4.11	Sealed Source Containment	4.11-1
Section 5 Design Features		
5.1	Site	5.1-1
5.2	Containment	5.2-1
5.3	Auxiliary Equipment	5.3-1
Section 6 Administrative Controls		
6.1	Responsibility	6-1
6.2	Organization	6-1
6.3	Facility Staff Qualifications	6-1
6.4	Training	6-2
6.5	Review and Audit	6-5
6.6	Reportable Occurrence Action	6-10
6.7	Safety Limit Violation	6-10
6.8	Procedures	6-10
6.9	Reporting Requirements	6-12
6.10	Record Retention	6-27
6.11	Radiation Protection Program	6-28
6.12	Respiratory Protection Program	6-28
6.13	High Radiation Area	6-30

#### 4.11 Sealed Source Contamination

Applicability: Applies to each licensed sealed source containing radioactive material either in excess of 100 microcuries of beta and/or gamma emitting materials or 5 microcuries of alpha emitting material.

Objective: To detect and prevent contamination from sealed source leakage.

- Specification:
- A. Radioactive sources shall be tested for contamination. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, it shall immediately be withdrawn from use, decontaminated, and repaired, or be disposed of in accordance with Commission regulations.
  - B. Tests for contamination shall be performed by the licensee or by other persons specifically authorized by the Commission or an agreement state as follows:
    1. Each sealed source, except startup sources previously subjected to core flux, containing radioactive material, other than Hydrogen 3, with a half life greater than thirty days and in any form other than gas shall be tested for contamination at intervals not to exceed six months.
    2. The periodic leak test required does not apply to sealed sources that are stored and not being used. The sources excepted from this test shall be tested prior to any use or transfer to another user unless they have been tested within six months prior to the date of use or transfer. In the absence of a certificate from a transferor indicating that a test has been made within six months prior to the transfer, sealed sources shall not be put into use until tested.
    3. Startup sources shall be tested prior to and following any repair or modification and within 31 days before being subjected to core flux.

Bases: Ingestion or inhalation of source material may give rise to total body or organ irradiation. This specification assures that leakage from radioactive material sources does not exceed allowable limits.

- (b) If levels of radioactive materials in environmental media as determined by an environmental monitoring program indicate the likelihood of public intakes in excess of 1% of those that could result from continuous exposure to the concentration values listed in Appendix B, Table II, Part 20 estimates of the likely resultant exposure to individuals and to population groups, and assumptions upon which estimates are based shall be provided.
- (c) If statistically significant variations of offsite environmental concentrations with time are observed, correlation of these results with effluent release shall be provided.
- (d) Results of required leak tests performed on sealed sources if the tests reveal the presence of 0.005 microcuries or more of removable contamination.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
SUPPORTING AMENDMENT NO. 19 TO PROVISIONAL OPERATING LICENSE DPR-16  
JERSEY CENTRAL POWER & LIGHT COMPANY  
DOCKET NO. 50-219

Introduction

By letter dated December 16, 1974, we requested a number of nuclear power facility licensees, to provide: (1) proposed amendments to the conditions of existing Facility Operating Licenses which relate to the receipt, possession, and use of byproduct, source, and special nuclear materials; (2) proposed Technical Specification changes which provide for leakage testing and the related surveillance and reporting requirements for miscellaneous radioactive material sources; (3) Facility Description and Safety Analysis Report (FDSAR) revisions to include information described in Regulatory Guide 1.70.3, "Additional Information, Radioactive Materials Safety For Nuclear Power Plants", of February 1974. Our letter included standard formats and guidelines for the requested proposals.

The objective of the requests made in our letter of December 16, 1974 was to add flexibility to the operation of nuclear power plants by establishing a more generalized approach to the licensing of byproduct, source, and special nuclear materials. This objective would reduce the number of licensing actions required as a result of changes in possession limits of related materials. In order to assure that adequate safeguards be maintained within the framework of this more generalized approach, provisions for more stringent control, accountability, and leakage testing of byproduct, source and special nuclear materials were included.

By letter dated December 18, 1975 as supplemented by letter dated March 16, 1976, Jersey Central Power & Light Company proposed an amendment to Provisional Operating License No. DPR-16 for the Oyster Creek Nuclear Generating Station. This proposed change was subsequently revised by letters dated May 7, 1976, November 15, 1976, and December 17, 1976. The amendment involves the modification of those parts of the license which related to the receipt, possession and use of byproduct, source, and special nuclear material.

In support of the proposed license amendment, Jersey Central Power & Light Company submitted:

- a. Proposed Technical Specification changes which (1) provide for leakage testing of licensee sealed sources, (2) establish surveillance requirements for the sources, and (3) establish special reporting requirements for leak test results.
- b. Updated the the Radioactive Materials Safety portion of the Facility Description & Safety Analysis Report (FDSAR) for the Oyster Creek Nuclear Generating Station.

### Evaluation

The proposed Technical Specification changes and the FDSAR revisions have been reviewed by the NRC staff with particular attention to the Radioactive Materials Safety Program. We reviewed information relevant to personnel qualifications, facilities, equipment, and procedures for handling byproduct, source, and special nuclear material, as described in the revised FDSAR and we conclude that they are consistent with the staff guidance contained in Regulatory Guide 1.70.3. We also conclude that the comprehensive testing and surveillance program, as established by the proposed Technical Specification changes, as modified by the staff and concurred in by the licensee, on December 29, 1976, provides additional assurance that leakage from radioactive material sources will not exceed allowable limits.

We evaluated the amount of reactor fuel which can be received, used, and possessed by the licensee under provisions of the proposed license amendment. We concluded by this evaluation that the provisions of the proposed license amendment will not significantly alter the amount of reactor fuel which can be received, used, and possessed by the licensee. The proposed amendment does not authorize the licensee to receive, use, or possess fuel significantly different from that currently described in the FDSAR.

We have determined that the proposed license amendment, as supported by the proposed Technical Specification changes and the FDSAR revision, are acceptable in that they:

- a. Comply with the guidance and intent of our letter of December 16, 1974.
- b. Assure that the amount and type of reactor fuel which can be received, used, and possessed is limited by the onsite fuel storage capacity and the requirements for reactor operation which have been approved previously by the NRC staff and which are described in the FDSAR as of this date.
- c. Provide reasonable assurance that byproduct, source, and special nuclear material will be stored, used, and accounted for in a manner which meets the applicable radiation protection provisions of 10 CFR Parts 20, 30, 40 and 70.

### Summary

The licensee's radiation protection program, as supplemented by the FDSAR revisions and the proposed Technical Specifications addition, has been evaluated. We have concluded that the incorporation of flexible yet controlled licensing provisions for the receipt, possession, and use of byproduct, source, and special nuclear material into the Provisional Operating Licenses for the Oyster Creek Nuclear Generation Station is acceptable.

### Environmental Consideration

We have determined that the 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 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 change 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 change 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: January 25, 1977

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-219

JERSEY CENTRAL POWER & LIGHT COMPANY

NOTICE OF ISSUANCE OF AMENDMENT

TO PROVISIONAL OPERATING LICENSE

Notice is hereby given that the U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 19 to Provisional Operating License No. DPR-16 issued to Jersey Central Power & Light Company which revised Technical Specifications for operation of the Oyster Creek Nuclear Generating Station, located in Ocean County, New Jersey. The amendment is effective as of its date of issuance.

The amendment consists of a license amendment and Technical Specifications change relating to the receipt, possession, and use of byproduct, source, and special nuclear material and incorporates surveillance requirements for leakage testing of sealed sources in the Technical Specifications.

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 is 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

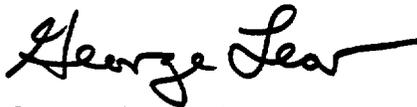
to 10 CFR §51.5(d)(4) an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with issuance of this amendment.

For further details with respect to this action, see (1) the application for amendment dated December 18, 1975, as supplemented by letters dated March 16, 1976, May 7, 1976, November 15, 1976 and December 17, 1976, (2) Amendment No. 19 to License No. DPR-16 and (3) 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 Ocean County Library, Brick Township Branch, 401 Chambers Bridge Road, Brick Town, New Jersey 08723.

A copy of items (2), (3) and (4) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Operating Reactors.

Dated at Bethesda, Maryland this 25th day of January 1977.

FOR THE NUCLEAR REGULATORY COMMISSION



George Lear, Chief  
Operating Reactors Branch #3  
Division of Operating Reactors



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

January 25, 1977

Docket No. 50-219

Jersey Central Power & Light Company  
ATTN: Mr. I. R. Finfrock, Jr.  
Vice President - Generation  
Madison Avenue at Punch Bowl Road  
Morristown, New Jersey 07960

Gentlemen:

The Commission has issued the enclosed Amendment No. 19 to Provisional Operating License No. DPR-16 for the Oyster Creek Nuclear Generating Station. This amendment consists of changes to the Technical Specifications and is in response to your application dated December 18, 1975, as supplemented by letters dated March 16, 1976, May 7, 1976, November 15, 1976 and December 17, 1976.

The amendment consists of a license amendment and Technical Specification changes relating to the receipt, possession, and use of byproduct, source, and special nuclear material.

Our current procedure for the licensing of byproduct, source, and special nuclear materials included in reactor licenses is not to specify quantity limits. Therefore, we have issued this amendment consistent with that procedure.

Copies of the related Safety Evaluation and the Federal Register Notice also are enclosed.

Sincerely,

A handwritten signature in cursive script that reads "George Lear".

George Lear, Chief  
Operating Reactors Branch #3  
Division of Operating Reactors

Enclosures:

1. Amendment No. 19 to License DPR-16
2. Safety Evaluation
3. Federal Register Notice

cc w/encls:  
See next page

Jersey Central Power & Light Company - 2 -

cc:

G. F. Trowbridge, Esquire  
Shaw, Pittman, Potts and Trowbridge  
Barr Building  
910 17th Street, N. W.  
Washington, D. C. 20006

Steven P. Russo, Esquire  
248 Washington Street  
P. O. Box 1060  
Toms River, New Jersey 08753

Jersey Central Power & Light Company  
ATTN: Mr. Thomas M. Crimmins, Jr.  
Safety and Licensing Manager  
GPU Service Corporation  
260 Cherry Hill Road  
Parsippany, New Jersey 07054

Anthony Z. Roisman, Esquire  
Roisman, Kessler and Cashdan  
1025 15th Street, N. W.  
5th Floor  
Washington, D. C. 20005

Honorable Joseph W. Ferraro, Jr.  
Deputy Attorney General  
State of New Jersey  
Department of Law & Public Safety  
Consumer Affairs Section  
1100 Raymond Boulevard  
Newark, New Jersey 07102

Mark L. First  
Deputy Attorney General  
State of New Jersey  
Department of Law & Public Safety  
Environmental Protection Section  
36 West State Street  
Trenton, New Jersey 08625

Mayor, Lacey Township  
P. O. Box 475  
Forked River, New Jersey 08731

Jersey Central Power & Light Company  
ATTN: Mr. Joseph Carroll  
Plant Superintendent  
Oyster Creek Plant  
Madison Avenue at Punch Bowl Road  
Morristown, New Jersey 07960

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

U. S. Environmental Protection Agency  
Region II  
ATTN: EIS COORDINATOR  
26 Federal Plaza  
New York, New York 10007

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

JERSEY CENTRAL POWER & LIGHT COMPANY

DOCKET NO. 50-219

OYSTER CREEK NUCLEAR GENERATING STATION, UNIT NO. 1

AMENDMENT TO PROVISIONAL OPERATING LICENSE

Amendment No. 19  
License No. DPR-16

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Jersey Central Power & Light Company dated December 18, 1975, as supplemented by letters dated March 16, 1976, May 7, 1976, November 15, 1976 and December 17, 1976, 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.
  - F. 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.

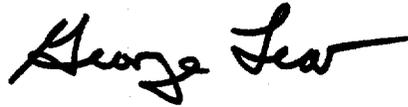
2. Accordingly, the license is amended by a change to the Technical Specifications as indicated in the attachment to this license amendment and Facility Operating License No. DPR-16, as amended, is hereby further amended by replacing in their entirety paragraphs 2, 2.A., 2.B., 2.C., and 2.D. thereof with the following:

"2. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses

- A. Pursuant to Section 104b of the Act and 10 CFR Part 50, "Licensing of Production and Utilization facilities," to possess, use and operate the facility at the designated location on the Oyster Creek site in accordance with the procedures and limitations set forth in this license;
- B. Pursuant to the Act and 10 CFR Part 70, to receive, possess and use at any time special nuclear material as reactor fuel, in accordance with the limitations for storage and amounts required for reactor operation, as described in the Facility Description and Safety Analysis Report, as supplemented and amended as of December 17, 1976;
- C. Pursuant to the Act and 10 CFR Parts 30, 40 and 70, to receive, possess and use at any time any byproduct, source, and special nuclear material as sealed neutron sources for reactor startup, sealed sources for reactor instrumentation and radiation monitoring equipment calibration, and as fission detectors in amounts as required;
- D. Pursuant to the Act and 10 CFR Parts 30, 40 and 70, to receive, possess and use in amounts as required any byproduct, source or special nuclear material without restriction to chemical or physical form, for sample analysis or instrument calibration or associated with radioactive apparatus or components;
- E. Pursuant to the Act and 10 CFR Parts 30 and 70, to possess such byproduct and special nuclear materials as may be produced by the operation of the facility, but not to separate such materials retained within the fuel cladding."

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

FOR THE NUCLEAR REGULATORY COMMISSION

A handwritten signature in black ink that reads "George Lear". The signature is written in a cursive style with a long horizontal stroke at the end.

George Lear, Chief  
Operating Reactors Branch #3  
Division of Operating Reactors

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: January 25, 1977

ATTACHMENT TO LICENSE AMENDMENT NO. 19  
TO THE TECHNICAL SPECIFICATIONS  
PROVISIONAL OPERATING LICENSE NO. DPR-16  
DOCKET NO. 50-219

Replace pages ii and 6-26 with the attached revised pages. Add page 4.11-1.

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6.10	Record Retention	6-27
6.11	Radiation Protection Program	6-28
6.12	Respiratory Protection Program	6-28
6.13	High Radiation Area	6-30

#### 4.11 Sealed Source Contamination

Applicability: Applies to each licensed sealed source containing radioactive material either in excess of 100 microcuries of beta and/or gamma emitting materials or 5 microcuries of alpha emitting material.

Objective: To detect and prevent contamination from sealed source leakage.

- Specification:
- A. Radioactive sources shall be tested for contamination. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, it shall immediately be withdrawn from use, decontaminated, and repaired, or be disposed of in accordance with Commission regulations.
  - B. Tests for contamination shall be performed by the licensee or by other persons specifically authorized by the Commission or an agreement state as follows:
    1. Each sealed source, except startup sources previously subjected to core flux, containing radioactive material, other than Hydrogen 3, with a half life greater than thirty days and in any form other than gas shall be tested for contamination at intervals not to exceed six months.
    2. The periodic leak test required does not apply to sealed sources that are stored and not being used. The sources excepted from this test shall be tested prior to any use or transfer to another user unless they have been tested within six months prior to the date of use or transfer. In the absence of a certificate from a transferor indicating that a test has been made within six months prior to the transfer, sealed sources shall not be put into use until tested.
    3. Startup sources shall be tested prior to and following any repair or modification and within 31 days before being subjected to core flux.

Bases: Ingestion or inhalation of source material may give rise to total body or organ irradiation. This specification assures that leakage from radioactive material sources does not exceed allowable limits.

- (b) If levels of radioactive materials in environmental media as determined by an environmental monitoring program indicate the likelihood of public intakes in excess of 1% of those that could result from continuous exposure to the concentration values listed in Appendix B, Table II, Part 20 estimates of the likely resultant exposure to individuals and to population groups, and assumptions upon which estimates are based shall be provided.
- (c) If statistically significant variations of offsite environmental concentrations with time are observed, correlation of these results with effluent release shall be provided.
- (d) Results of required leak tests performed on sealed sources if the tests reveal the presence of 0.005 microcuries or more of removable contamination.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 19 TO PROVISIONAL OPERATING LICENSE DPR-16

JERSEY CENTRAL POWER & LIGHT COMPANY

DOCKET NO. 50-219

Introduction

By letter dated December 16, 1974, we requested a number of nuclear power facility licensees, to provide: (1) proposed amendments to the conditions of existing Facility Operating Licenses which relate to the receipt, possession, and use of byproduct, source, and special nuclear materials; (2) proposed Technical Specification changes which provide for leakage testing and the related surveillance and reporting requirements for miscellaneous radioactive material sources; (3) Facility Description and Safety Analysis Report (FDSAR) revisions to include information described in Regulatory Guide 1.70.3, "Additional Information, Radioactive Materials Safety For Nuclear Power Plants", of February 1974. Our letter included standard formats and guidelines for the requested proposals.

The objective of the requests made in our letter of December 16, 1974 was to add flexibility to the operation of nuclear power plants by establishing a more generalized approach to the licensing of byproduct, source, and special nuclear materials. This objective would reduce the number of licensing actions required as a result of changes in possession limits of related materials. In order to assure that adequate safeguards be maintained within the framework of this more generalized approach, provisions for more stringent control, accountability, and leakage testing of byproduct, source and special nuclear materials were included.

By letter dated December 18, 1975 as supplemented by letter dated March 16, 1976, Jersey Central Power & Light Company proposed an amendment to Provisional Operating License No. DPR-16 for the Oyster Creek Nuclear Generating Station. This proposed change was subsequently revised by letters dated May 7, 1976, November 15, 1976, and December 17, 1976. The amendment involves the modification of those parts of the license which related to the receipt, possession and use of byproduct, source, and special nuclear material.

In support of the proposed license amendment, Jersey Central Power & Light Company submitted:

- a. Proposed Technical Specification changes which (1) provide for leakage testing of licensee sealed sources, (2) establish surveillance requirements for the sources, and (3) establish special reporting requirements for leak test results.
- b. Updated the the Radioactive Materials Safety portion of the Facility Description & Safety Analysis Report (FDSAR) for the Oyster Creek Nuclear Generating Station.

### Evaluation

The proposed Technical Specification changes and the FDSAR revisions have been reviewed by the NRC staff with particular attention to the Radioactive Materials Safety Program. We reviewed information relevant to personnel qualifications, facilities, equipment, and procedures for handling byproduct, source, and special nuclear material, as described in the revised FDSAR and we conclude that they are consistent with the staff guidance contained in Regulatory Guide 1.70.3. We also conclude that the comprehensive testing and surveillance program, as established by the proposed Technical Specification changes, as modified by the staff and concurred in by the licensee, on December 29, 1976, provides additional assurance that leakage from radioactive material sources will not exceed allowable limits.

We evaluated the amount of reactor fuel which can be received, used, and possessed by the licensee under provisions of the proposed license amendment. We concluded by this evaluation that the provisions of the proposed license amendment will not significantly alter the amount of reactor fuel which can be received, used, and possessed by the licensee. The proposed amendment does not authorize the licensee to receive, use, or possess fuel significantly different from that currently described in the FDSAR.

We have determined that the proposed license amendment, as supported by the proposed Technical Specification changes and the FDSAR revision, are acceptable in that they:

- a. Comply with the guidance and intent of our letter of December 16, 1974.
- b. Assure that the amount and type of reactor fuel which can be received, used, and possessed is limited by the onsite fuel storage capacity and the requirements for reactor operation which have been approved previously by the NRC staff and which are described in the FDSAR as of this date.
- c. Provide reasonable assurance that byproduct, source, and special nuclear material will be stored, used, and accounted for in a manner which meets the applicable radiation protection provisions of 10 CFR Parts 20, 30, 40 and 70.

### Summary

The licensee's radiation protection program, as supplemented by the FDSAR revisions and the proposed Technical Specifications addition, has been evaluated. We have concluded that the incorporation of flexible yet controlled licensing provisions for the receipt, possession, and use of byproduct, source, and special nuclear material into the Provisional Operating Licenses for the Oyster Creek Nuclear Generation Station is acceptable.

### Environmental Consideration

We have determined that the 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 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 change 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 change 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: January 25, 1977

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-219

JERSEY CENTRAL POWER & LIGHT COMPANY

NOTICE OF ISSUANCE OF AMENDMENT

TO PROVISIONAL OPERATING LICENSE

Notice is hereby given that the U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 19 to Provisional Operating License No. DPR-16 issued to Jersey Central Power & Light Company which revised Technical Specifications for operation of the Oyster Creek Nuclear Generating Station, located in Ocean County, New Jersey. The amendment is effective as of its date of issuance.

The amendment consists of a license amendment and Technical Specifications change relating to the receipt, possession, and use of byproduct, source, and special nuclear material and incorporates surveillance requirements for leakage testing of sealed sources in the Technical Specifications.

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 is 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

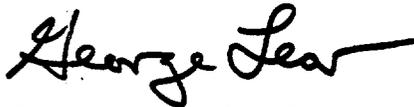
to 10 CFR §51.5(d)(4) an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with issuance of this amendment.

For further details with respect to this action, see (1) the application for amendment dated December 18, 1975, as supplemented by letters dated March 16, 1976, May 7, 1976, November 15, 1976 and December 17, 1976, (2) Amendment No. 19 to License No. DPR-16 and (3) 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 Ocean County Library, Brick Township Branch, 401 Chambers Bridge Road, Brick Town, New Jersey 08723.

A copy of items (2), (3) and (4) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Operating Reactors.

Dated at Bethesda, Maryland this 25th day of January 1977.

FOR THE NUCLEAR REGULATORY COMMISSION



George Lear, Chief  
Operating Reactors Branch #3  
Division of Operating Reactors