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Docket No. 50-219

JUN 29 1979

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

Dear Mr. Finfrock:

The Commission has issued the enclosed Amendment No. 38 to Provisional Operating License No. DPR-16 for the Oyster Creek Nuclear Generating Station. The amendment consists of a change to the license in response to your letter of March 14, 1979, and your application dated June 1, 1979, as supplemented by letter dated June 26, 1979.

The amendment authorizes a limited extension of the completion dates for certain plant modifications which we have required to improve the level of fire protection at Oyster Creek. In addition, this action allows some changes to some of the modifications being made to improve the level of fire protection at the facility.

Copies of our related Supplement No. 1 to the Fire Protection Safety Evaluation and the Notice of Issuance are also enclosed.

Sincerely,

Original signed by
Dennis L. Ziemann

Dennis L. Ziemann, Chief
Operating Reactors Branch #2
Division of Operating Reactors

REGULATORY DOCKET FILE COPY

Enclosures:

1. Amendment No. 38 to License No. DPR-16
2. Supplement No. 1 to the March 3, 1978 Fire Protection Safety Evaluation
3. Notice of Issuance

cc w/enclosures:
See next page

Ambr
CD

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PSB/DOR
6/29/79
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OFFICE	DOR:ORB #1	DOR:ORB #2	DOR:ORB #2	DOR:AD/SEP	DOR:ORB #2	OELD
SURNAME	SJNowicki	HSmith	TVWambach	RVollmer	DLZiemann	B.Smith
DATE	6/27/79	6/28/79	6/29/79	6/29/79	6/29/79	6/29/79

Mr. I. R. Finfrock, Jr.

- 2 -

JUN 29 1979

cc w/enclosures:

G. F. Trowbridge, Esquire
Shaw, Pittman, Potts and Trowbridge
1800 M Street, N. W.
Washington, D. C. 20036

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ATTN: Mr. E. G. Wallace
Licensing Manager
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Parsippany, New Jersey 07054

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Ocean County Library
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Mayor
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Forked River, New Jersey 08731

*Commissioner
Department of Public Utilities
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101 Commerce Street
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*(w/cy of incoming dtd. 3/14/79, 6/1/79 and 6/26/79)

Gene Fisher
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Director, Technical Assessment
Division
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U. S. Environmental Protection
Agency
Region II Office
ATTN: EIS COORDINATOR
26 Federal Plaza
New York, New York 10007



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. 38
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 (the licensee) dated June 1, 1979, as supported by letters dated March 14, 1979, and June 26, 1979, 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.

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2. Accordingly, paragraph 3.E. of Provisional Operating License No. DPR-16 is hereby amended to read as follows:

E. The licensee may proceed with and is required to complete the modifications identified in Paragraphs 3.1.1 through 3.1.23 of the NRC's Fire Protection Safety Evaluation (SE) on the facility dated March 3, 1978, and supplements thereto. These modifications shall be completed as specified in Table 3.1 of the SE, and supplements thereto. In addition, the licensee shall submit the additional information identified in Table 3.2 of the SE in accordance with the schedule contained therein. In the event these dates cannot be met, the licensee shall submit a report, explaining the circumstances, together with a revised schedule.

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

FOR THE NUCLEAR REGULATORY COMMISSION

Original signed by
Dennis L. Ziemann

Dennis L. Ziemann, Chief
Operating Reactors Branch #2
Division of Operating Reactors

Date of Issuance: JUN 29 1979

SUPPLEMENT NO. 1 TO THE MARCH 3, 1978
FIRE PROTECTION SAFETY EVALUATION REPORT
BY THE OFFICE OF NUCLEAR REACTOR REGULATION
U. S. NUCLEAR REGULATORY COMMISSION
PROVISIONAL OPERATING LICENSE NO. DPR-16
JERSEY CENTRAL POWER & LIGHT COMPANY
OYSTER CREEK NUCLEAR GENERATING STATION
DOCKET NO. 50-219
AMENDMENT NO. 38

Date: JUN 29 1979

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INTRODUCTION

By letters dated March 14, 1979 and June 26, 1979, and application dated June 1, 1979, Jersey Central Power & Light Company (the licensee) requested a change to Provisional Operating License No. DPR-16 for the Oyster Creek Nuclear Generating Station. The proposed change would extend the completion date for certain modifications required to improve the level of fire protection at the facility, and would allow changes to some of the modifications being made to improve the level of fire protection at the facility.

DISCUSSION

On March 3, 1978, the Commission issued Amendment No. 29 to License No. DPR-16 for Oyster Creek. The amendment added a condition to the license which required completion of the modifications identified in paragraphs 3.1.1 through 3.1.23 of the NRC's Fire Protection Safety Evaluation (FPSE) for Oyster Creek dated March 3, 1978. Such modifications are to be completed by July 1980, except for the remote shutdown station which is required to be implemented by no later than the end of the 1980 refueling outage.

By letter dated March 14, 1979, and application dated June 1, 1979, the licensee requested a schedule change for completion of the proposed sprinkler systems and hose station installations required by Table 3.1 of the FPSE. In addition, the licensee requested that the requirements for the installation of (1) the thermally activated self-closing valve in the diesel generator fuel oil line be changed to the installation of a separate new fuel oil line to Diesel Generator No. 2 with manual isolation valves in both lines; (2) a halon system be changed to an automatic water spray system for the cable spreading room; (3) the water spray system, item 3.1.6 of the FPSE, be changed to an automatic sprinkler system in the south end of the turbine building basement; and (4) the sprinkler system in the fire water pump house be changed to a pre-action sprinkler system inside the house and a deluge system outside the building.

EVALUATION

By letter dated March 14, 1979, the licensee requested a limited extension of the scheduled completion dates for item 3.1.7, Sprinkler Systems and item 3.1.9, Hose Stations. The reason provided by the licensee for not meeting the schedule was due to the difficulting in obtaining qualified vendors to perform the modifications. The vendors have been selected and the modifications are being installed and the time lost in the bidding process requires extending the originally scheduled completion dates.

The specific modifications for which the licensee requests the completion dates to be extended are as follows:

3.1.7 Sprinkler Systems

Automatic sprinkler systems will be added to the following areas:

- (1) To protect the metal deck roof at the 119-foot level of the reactor building (5.1);
- (2) To protect spent fuel pool cooling pumps (5.3);
- (3) Above and below the suspended ceiling to protect cables above the ceiling in the monitor and change room (5.14);
- (4) To protect the diesel-driven fire pumps and outside fuel oil storage tanks (5.18); and
- (5) Above cable trays which are at the ceiling level of the condenser bay along the west wall of the turbine building (5.16).

Supervisory circuitry will be installed on sprinkler systems in the recirculation pump motor generator set room (5.13).

Presently Table 3.1 specifies that the Sprinkler System installation will be completed in June 1979.

The licensee expects to complete installation of sprinkler systems (and other water systems) for (1) the Fire Water Pump House (pre-action and deluge), (2) outside of the west wall of the turbine building (deluge), (3) the turbine building basement, and (4) the monitor and change areas by the June 1979 schedule. However, the installation of sprinkler systems for the (1) upper trays in the condenser bay, (2) reactor building elevation 119', and (3) reactor building elevation 75' in the area of the spent fuel cooling pumps are contingent upon the installation of a fire water header in the reactor building and these sprinkler systems are scheduled to be completed later in 1979.

The installation of sprinklers at the 119' and 75' elevations of the reactor building are for area protection and protection of the spent fuel pool cooling pumps on the 75' level. Other redundant systems are available for cooling of spent fuel in the event of a fire. No other safety-related equipment affecting safe shutdown is located in these areas.

The upper trays along the west wall of the condenser bay are presently protected by an existing sprinkler system. A fire in these cables may affect availability of emergency power; but, normal shutdown systems for the reactor would not be affected. In addition, high radiation in this areas during operation would expose the installers unnecessarily. If the installation was performed during a refueling shutdown, the radiation exposure to the installers could be reduced to very low levels.

We conclude that extending the schedule for the sprinkler system completion date to September 15, 1979, except for the system extension in the condenser bay which shall be completed during the next refueling outage, is acceptable.

3.1.9 Hose Stations

Hose stations will be installed throughout the plant to provide coverage of all safety-related areas (4.3.1.4).

Table 3.1 currently specifies that the Hose Stations installations will be completed in June 1979. The hose station installations are also dependent on the installation of the fire water header in the reactor building and several hose station installations are not expected to be completed by the June 1979 schedule. Fire Protection Controls put in effect have increased the control of combustibles and ignition sources, have required permits for welding, have restricted smoking areas, have included use of flame retardant materials where possible, and have increased the station fire brigade size from 3 to 5 members.

We have concluded that the licensee has made a conscientious effort to fulfill his commitments and extension of the schedule to September 15, 1979, for completion of the hose stations is acceptable.

3.1.15 Fire Pump House Fire Protection

We have reviewed the alternative proposal to provide a pre-action sprinkler system within the fire pump house and a dry pipe deluge system on the fuel tanks outside in lieu of a wet pipe sprinkler system for both. We agree that the concern for possible freezing outside and due to possible loss of heat within the building warrants the use of such systems. Our original concern was for the possible loss of redundant fire pumps due to the fuel oil hazard. These alternative systems provide adequate protection for these areas both inside and outside the room in view of the commitment to provide a new water supply tank and an additional fire pump in another location away from this area. Because of this new fire water supply the loss of both these pumps is no longer of concern and the protection is necessary for only the large oil hazard.

We conclude that this alternative to the original commitment does not change the bases or conclusion regarding this matter as stated in the FPSE and is, therefore, acceptable.

5.9 Cable Spreading Room Fire Protection

We have reviewed the proposed alternative to provide a cross-zoned water spray system tracing the cable trays in the cable spreading room instead of a gaseous halon system. We agree with the conclusion that it would be a more effective system in extinguishing fires in cables in open cable trays.

We conclude that this alternative to the original commitment does not change the bases or conclusion regarding this matter as stated in the FPSE for the Oyster Creek plant and is, therefore, acceptable.

5.16.6 Turbine Building Basement Sprinkler System

We have reviewed the proposed alternative to provide an area sprinkler system for the south end of the turbine building basement with additional heads at areas where redundant cables come in proximity instead of a spray system. An alternate safe shutdown capability is also being provided for this area. We find that this protection satisfactorily resolves our concern for protection of the safety-related cables in this area against exposure fires.

We conclude that this alternative to the commitment as identified in the FPSE does not change the bases or conclusion regarding this matter as stated in the FPSE for the Oyster Creek plant and is, therefore, acceptable.

5.17.6 Diesel Generator Fuel Oil Lines

We have reviewed the proposed alternative to install a new independent fuel oil supply line and manual isolation valves so that each line can be isolated from outside the diesel generator rooms instead of the original commitment of thermally actuated valves in each room. We find that (1) reliability of the diesel generator is increased by the independence and redundancy provided by the addition of the new line; and (2) installation of manual valves outside these areas satisfactorily resolves our original concern for having the ability outside these areas to cut off a fire in either one of the diesel rooms from a continuing supply of fuel and still allow the redundant diesel generator to operate if necessary.

We conclude that this alternative to the original commitment does not change the bases or conclusion regarding this matter as stated in the FPSE for the Oyster Creek plant and is, therefore, acceptable.

SUMMARY

We have concluded that the limited extension of the schedules will not significantly affect the ability to safely shutdown the reactor in the event of a fire, that the licensee has made a conscientious effort to fulfill his commitments on schedule, that the ability to combat fires has been improved, that the proposed changes to the modifications do not change the bases or conclusions regarding the modifications, and, therefore, find the proposed amendment 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 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.

Attachment:
Table 3.1

TABLE 3.1

IMPLEMENTATION DATES FOR LICENSEE
PROPOSED MODIFICATIONS

<u>Item</u>	<u>Date</u>
3.1.1	December 1979
3.1.2	December 1979
3.1.3	December 1979
3.1.4	December 1979
3.1.5	December 1979
3.1.6	December 1979
3.1.7	September 15, 1979***
3.1.8	December 1979
3.1.9	September 15, 1979
3.1.10	Completed
3.1.11	Completed
3.1.12	Completed
3.1.13	Completed
3.1.14	December 1979
3.1.15	December 1979
3.1.16	December 1979
3.1.17	Completed
3.1.18	Completed
3.1.19	Completed
3.1.20	July 1980
3.1.21	December 1979
3.1.22	Completed
3.1.23	**

**Schedule dependent on equipment availability (not to exceed end of 1980 refueling outage)

***Except for the system extensions in the turbine building condenser bay which shall be completed during the next refueling outage.

UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKET NO. 50-219JERSEY CENTRAL POWER & LIGHT COMPANYNOTICE OF ISSUANCE OF AMENDMENT TO PROVISIONAL
OPERATING LICENSE

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 38 to Provisional Operating License No. DPR-16, issued to Jersey Central Power & Light Company (the licensee), which amended the license for operation of the Oyster Creek Nuclear Generating Station (the facility) located in Ocean County, New Jersey. The amendment is effective as of its date of issuance.

The amendment authorizes a limited extension of the completion dates for certain plant modifications which we have required to improve the level of fire protection at Oyster Creek. In addition, this action allows some changes to some of the modifications being made to improve the level of fire protection at the facility.

The application for 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.

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For further details with respect to this action, see (1) the application for amendment dated June 1, 1979, and the licensee's letters dated March 14, 1979 and June 26, 1979, (2) Amendment No. 38 to License No. DPR-16, (3) the Commission's related Safety Evaluation, and (4) Amendment No. 29 and its related Fire Protection Safety Evaluation dated March 3, 1978. 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 ^{JUN 29 1979}

FOR THE NUCLEAR REGULATORY COMMISSION

Original signed by
Dennis L. Ziemann

Dennis L. Ziemann, Chief
Operating Reactors Branch #2
Division of Operating Reactors

"Refund Due"

William O. Miller, Chief
License Fee Management Branch, ADM

Date: 6/29/79
Amended Form Date: _____

FACILITY AMENDMENT CLASSIFICATION - DOCKET NO(S). 50-219

Licensee: Jersey Central Power & Light
Plant Name and Unit(s): Oyster Creek

License No(s): _____ Mail Control No: 7906050319

Request Dated: 6-1-79 Fee Remitted: Yes No _____

Assigned TAC No: _____

Licensee's Fee Classification: Class I _____, II , III _____, IV _____, V _____, VI _____, None

Subject: table 3.1 of Fire Protection SER
Amendment No. _____ Date of Issuance _____

- 1. This request has been reviewed by DOR/DPM in accordance with Section 170.22 of Part 170 and is properly categorized.
- 2. This request is incorrectly classified and should be properly categorized as Class None. Justification for classification or reclassification: This submittal is a part of fire protection reviews which have been granted a
- 3. Additional information is required to properly categorize the request: waiver. This constitutes our pre-
liminary and final fee position
- 4. This request is a Class _____ type of action and is exempt from fees because it:
 - (a) _____ was filed by a nonprofit educational institution,
 - (b) _____ was filed by a Government agency and is not for a power reactor,
 - (c) _____ is for a Class _____ (can only be a I, II, or III) amendment which results from a written Commission request dated _____ for the application and the amendment is to simplify or clarify license or technical specifications, has only minor safety significance, and is being issued for the convenience of the Commission, or
 - (d) _____ other (state reason therefor): _____

HS 6/18/79
S. Nowicki
Snowicki

Jenni L Zemann

Division of Operating Reactors/Project Management

- THE INITIAL FEE DETERMINATION HAS BEEN REASSESSED AND IS HEREBY AFFIRMED _____
- The above request has been reviewed and is exempt from fees.

William O. Miller, Chief
License Fee Management Branch

Date _____

Attached LFB 6/78