



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

GPU NUCLEAR CORPORATION

AND

JERSEY CENTRAL POWER & LIGHT COMPANY

DOCKET NO. 50-219

OYSTER CREEK NUCLEAR GENERATING STATION

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 194  
License No. DPR-16

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by GPU Nuclear Corporation, et al. (the licensee), dated October 10, 1997, 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.

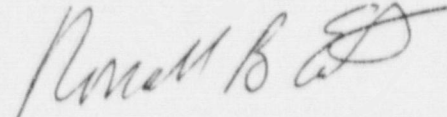
2. Accordingly, the license is amended by changes to the Facility Operating License and Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-16 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No.194, are hereby incorporated in the license. GPU Nuclear, Inc. shall operate the facility in accordance with the Technical Specifications.

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

FOR THE NUCLEAR REGULATORY COMMISSION



Ronald B. Eaton, Acting Director  
Project Directorate I-3  
Division of Reactor Projects - 1/II  
Office of Nuclear Reactor Regulation

- Attachment: 1. Pages 1-3 of License No. DPR-16\*  
2. Changes to the Technical Specifications  
3. Appendix B Cover Page

Date of Issuance:

- \* Pages 1-3 are attached, for convenience, for the composite license to reflect these changes.

ATTACHMENT TO LICENSE AMENDMENT NO. 194

FACILITY OPERATING LICENSE NO. DPR-16

DOCKET NO. 50-219

Replace the following pages of the Appendix A, Technical Specifications, with the attached pages as indicated. The revised pages are identified by amendment number and contain vertical lines indicating the areas of change.

Remove  
Title Page  
6-1  
6-3  
6-5  
6-7  
6-20

Insert  
Title Page  
6-1  
6-3  
6-5  
6-7  
6-20  
6-21 (new page)



GPU NUCLEAR, INC.

AND

JERSEY CENTRAL POWER & LIGHT COMPANY d/b/a

GPU ENERGY

DOCKET NO. 50-219

OYSTER CREEK NUCLEAR GENERATING STATION

FACILITY OPERATING LICENSE

License No. DPR-16

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for a license filed by Jersey Central Power & Light Company\* d/b/a GPU Energy 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 1, and all required notifications to other agencies or bodies have been duly made;
  - B. Construction of the Oyster Creek Nuclear Generating Station (the facility) has been completed in conformity with Provisional Construction Permit No. CPPR-15; the application, as amended; the provisions of the Act; and the rules and regulations of the Commission, and has been operating under a provisional license since April 9, 1969;
  - C. The facility will operate in conformity with the application, as amended; the provisions of the Act; and the rules and regulations of the Commission (except as exempted from compliance in Section 2.D. below);
  - D. There is reasonable assurance (i) that the activities authorized by this 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 Commission's rules and regulations set forth in 10 CFR Chapter 1 (except as exempted from compliance in Section 2.D. below);
- \* Subsequent to the filing of this application, on December 29, 1981 the NRC issued Amendment No. 59 to POL DPR-16 for this facility, pursuant to which GPU Nuclear, Inc. was added as a licensee, authorized to possess, use and operate the facility, and Jersey Central Power & Light company d/b/a GPU Energy remained as a licensee, authorized to possess the facility. All subsequent applications for amendments to the license were filed jointly by the two licensees.

- E. GPU Nuclear, Inc. is technically qualified to engage in the activities authorized by this license in accordance with the rules and regulations of the Commission;
  - F. Jersey Central Power & Light Company d/b/a GPU Energy has satisfied the applicable provisions of 10 CFR Part 140, "Financial Protection Requirements and Indemnity Agreements," of the Commission's regulations;
  - G. The issuance of this license will not be inimical to the common defense and security or to the health and safety of the public;
  - H. The receipt, possession and use of source, byproduct, and special nuclear materials as authorized by this license will be in accordance with the Commission's regulations in 10 CFR Parts 30, 40, and 70; and
  - I. The issuance of this license is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Provisional Operating License No. DPR-16, dated April 9, 1969, as amended, is superseded in its entirety by Facility Operating License No. DPR-16, hereby issued to GPU Nuclear, Inc. and Jersey Central Power & Light Company d/b/a GPU Energy to read as follows:
- A. This license applies to the Oyster Creek Nuclear Generating Station, a boiling-water reactor and associated equipment (the facility). The facility is located in Ocean County, New Jersey, and is described in the licensee's Updated Final Safety Analysis Report, as supplemented and amended, and in the licensee's Environmental Report, as supplemented and amended.
  - B. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses GPU Nuclear, Inc.:
    - (1) Pursuant to Section 104b of the Act and 10 CFR Part 50, to possess, use, and operate Oyster Creek Nuclear Generating Station, and Jersey Central Power & Light Company d/b/a GPU Energy to possess the Oyster Creek Nuclear Generating Station, at the designated location on the Oyster Creek site in Ocean County, New Jersey, in accordance with the procedures and limitations set forth in this license;
    - (2) 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 Updated Final Safety Analysis Report, as supplemented and amended;



- (3) Pursuant to the Act and 10 CFR Parts 30, 40, and 70, to receive, possess, and use at any time any byproduct, source, or special nuclear materials 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;
  - (4) 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 materials without restriction to chemical or physical form, for sample analysis or instrument calibration or associated with radioactive apparatus or components; and
  - (5) Pursuant to the Act and 10 CFR Parts 30, 40, and 70, to possess, but not separate such byproduct, source, or special nuclear materials as may be produced by the operation of the facility.
- C. This license shall be deemed to contain and is subject to the conditions specified in the Commission's regulations set forth in 10 CFR Chapter 1 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 or incorporated below:

(1) Maximum Power Level

GPU Nuclear, Inc. is authorized to operate the facility at steady-state power levels not in excess of 1930 megawatts (thermal) (100 percent rated power) in accordance with the conditions specified herein.

(2) Technical Specifications

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

(3) Fire Protection

GPU Nuclear, Inc. shall implement and maintain in effect all provisions of the approved fire protection program as described in the Updated Final Safety Analysis Report for the facility and as approved in the Safety Evaluation Report dated March 3, 1978, and supplements thereto, subject to the following provision:

APPENDIX A  
TO PROVISIONAL OPERATING LICENSE DPR-16<sup>v</sup>  
TECHNICAL SPECIFICATIONS

AND BASES

FOR

OYSTER CREEK NUCLEAR POWER PLANT

UNIT NO. 1

OCEAN COUNTY, NEW JERSEY

Jersey Central Power & Light Company d/b/a

GPU Energy

GPU Nuclear, Inc.



## ADMINISTRATIVE CONTROLS

### 6.1 RESPONSIBILITY

6.1.1 The Vice President & Director Oyster Creek shall be responsible for overall facility operation. Those responsibilities delegated to the Vice President & Director as stated in the Oyster Creek Technical Specifications may also be fulfilled by the Deputy Director. The Vice President & Director shall delegate in writing the succession to this responsibility during his and/or the Deputy Directors absence.

### 6.2 ORGANIZATION

#### 6.2.1 Corporate

6.2.1.1 An onsite and offsite organization shall be established for unit operation and corporate management. The onsite and offsite organization shall include the positions for activities affecting the safety of the nuclear power plant.

6.2.1.2 Lines of authority, responsibility and communication shall be established and defined from the highest management levels through intermediate levels to and including operating organization positions. These relationships shall be documented and updated as appropriate, in the form of organizational charts. These organizational charts will be documented in the Updated FSAR and updated in accordance with 10 CFR 50.71a.

6.2.1.3 The President - GPU Nuclear shall have corporate responsibility for overall plant nuclear safety and shall take measures needed to ensure acceptable performance of the staff in operating, maintaining, and providing technical support in the plant so that continued nuclear safety is assured.

#### 6.2.2 FACILITY STAFF

6.2.2.1 The Vice President & Director Oyster Creek shall be responsible for overall unit safe operation and shall have control over those onsite activities necessary for safe operation and maintenance of the plant.

6.2.2.2 The facility organization shall meet the following:

- a. Each on duty shift shall include at least the following shift staffing:
  - ° One (1) group shift supervisor
  - ° Two (2) control room operators
  - ° Three (3) equipment operators - one may be a Radwaste Operator
- b. At all times when there is fuel in the vessel, at least one licensed senior reactor operator shall be on site and one licensed reactor operator should be at the controls.
- c. At all times when there is fuel in the vessel, except when the reactor is in COLD SHUTDOWN or REFUEL modes, two licensed senior reactor operators and two licensed reactor operators shall be on site, with at least one licensed senior reactor operator in the control room and one licensed reactor operator at the controls.



## 6.4 TRAINING

- 6.4.1 A retaining program for operators shall be maintained under the direction of the Manager responsible for plant training and shall meet the requirements and recommendation of 10 CFR Part 55. Replacement training programs, the content of which shall meet the requirements of 10 CFR Part 55, shall be conducted under the direction of the Manager responsible for plant training for licensed operators and Senior Reactor Operators.

## 6.5 REVIEW AND AUDIT

### 6.5.1 TECHNICAL REVIEW AND CONTROL

The Vice President of each division within GPU Nuclear, Inc. shall be responsible for ensuring the preparation, review, and approval of documents required by the activities described in 6.5.1.1 through 6.5.1.5 within his functional area of responsibility as assigned in the GPU Nuclear Review and Approval Matrix. Implementing approvals shall be performed at the cognizant manager level or above.

### ACTIVITIES

6.5.1.1 Each procedure required by Technical Specification 6.8 and other procedures which affect nuclear safety, and substantive changes thereto, shall be prepared by a designated individual(s)/group knowledgeable in the area affected by the procedure. Each such procedure, and substantive change thereto, shall be reviewed for adequacy by an individual(s)/group other than the preparer, but who may be from the same division as the individual who prepared the procedure or change.

## RECORDS

6.5.1.13 Written records of activities performed under specifications 6.5.1.1 through 6.5.1.11 shall be maintained.

## QUALIFICATIONS

6.5.1.14 Responsible Technical Reviewers shall meet or exceed the qualifications of ANSI/ANS 3.1-1978 Section 4.6 or 4.4 for applicable disciplines or have 7 years of appropriate experience in the field of his specialty. Credit towards experience will be given for advanced degrees on a one-for-one basis up to a maximum of two years. These Reviewers shall be designated in writing.

## 6.5.2 INDEPENDENT SAFETY REVIEW

### FUNCTION

6.5.2.1 The Vice President of each division within GPU Nuclear, Inc. shall be responsible for ensuring the periodic independent safety review of the subjects described in 6.5.2.5 within his assigned area of safety review responsibility, as assigned in the GPUN Review and Approval Matrix.

6.5.2.2 Independent safety review shall be completed by an individual/group not having direct responsibility for the performance of the activities under review, but who may be from the same functionally cognizant organization as the individual/group performing the original work.

6.5.2.3 GPU Nuclear, Inc. shall collectively have or have access to the experience and competence required to independently review subjects in the following areas:

- a. Nuclear power plant operations
- b. Nuclear engineering
- c. Chemistry and radiochemistry
- d. Metallurgy
- e. Nondestructive testing
- f. Instrumentation and control
- g. Radiological safety
- h. Mechanical engineering
- i. Electrical engineering
- j. Administrative controls and quality assurance practices
- k. Emergency plans and related organization, procedures and equipment
- l. Other appropriate fields associated with the unique characteristics of Oyster Creek

6.5.2.4 Consultants may be utilized as determined by the cognizant Vice President to provide expert advice.

### 6.5.3 AUDITS

6.5.3.1 Audits of facility activities shall be performed in accordance with the Oyster Creek Operational Quality Assurance Plan. These audits shall encompass:

- a. The conformance of facility operations to provisions contained within ~~the~~ <sup>the</sup> Specifications and applicable license conditions.
- b. The performance, training and qualifications of the facility staff.
- c. The results of actions taken to correct deficiencies occurring in ~~facility equipment, structures,~~ <sup>facility equipment, structures,</sup> systems or method of operation that affect nuclear safety.
- d. The Facility Emergency Plan and implementing procedures.
- e. The Facility Security Plan and implementing procedures.
- f. The Fire Protection Program and implementing procedures.
- g. The performance of activities required by the Operational Quality Assurance Plan to meet the criteria of Appendix 'B', 10 CFR 50.
- h. The radiological environmental monitoring program and the results thereof.
- i. The OFFSITE DOSE CALCULATION MANUAL and implementing procedures.
- j. The PROCESS CONTROL PROGRAM and implementing procedures for radioactive wastes.
- k. Any other area of facility operation considered appropriate by the IOSRG or the Office of the President-GPU Nuclear.

6.5.3.2 Audits of the following shall be performed under the cognizance of the Vice President - responsible for technical support.

- a. An independent fire protection and loss prevention program inspection and audit shall be performed utilizing either qualified licensee personnel or an outside fire protection firm.
- b. An inspection and audit of the fire protection and loss prevention program, by an outside qualified fire consultant.



#### 6.17 POST-ACCIDENT SAMPLING

The following program shall be established, implemented, and maintained.

A program has been established which will ensure the capability to obtain and analyze reactor coolant, radioactive iodines and particulates in plant gaseous effluents, and containment atmosphere samples under accident conditions. The program shall include the following:

- a. Training of personnel in sampling and analysis.
- b. Procedures for sampling and analysis.
- c. Provisions for verifying operability of the System.

#### 6.18 PROCESS CONTROL PLAN

- a. GPU Nuclear, Inc. initiated changes to the PCP:
  1. Shall be submitted to the NRC in the Annual Radioactive Effluent Release Report for the period in which the changes were made. This submittal shall contain:
    - a. sufficiently detailed information to justify the changes without benefit of additional or supplemental information;
    - b. a determination that the changes did not reduce the overall conformance of the solidified waste product to existing criteria for solid wastes; and
    - c. documentation that the changes have been reviewed and approved pursuant to Section 6.8.2.
  2. Shall become effective upon review and approval by GPU Nuclear Management.

#### 6.19 OFFSITE DOSE CALCULATION MANUAL

- a. The ODCM shall be approved by the Commission prior to implementation.
- b. GPU Nuclear, Inc. initiated changes to the ODCM shall be submitted to the NRC in the Annual Radioactive Effluent Release Report for the period in which the changes were made. This submittal shall contain:
  1. sufficiently detailed information to justify the changes without benefit of additional or supplemental information;
  2. a determination that the changes did not reduce the accuracy or reliability of dose calculations or setpoint determination; and,
  3. documentation that the changes have been reviewed and approved pursuant to Section 6.8.2.
- c. Change(s) shall become effective upon review and approval by GPU Nuclear Management.

6.20 MAJOR CHANGES TO RADIOACTIVE WASTE TREATMENT SYSTEMS

DELETED.

APPENDIX B  
TO PROVISIONAL OPERATING LICENSE NO. DPR-16  
ENVIRONMENTAL TECHNICAL SPECIFICATIONS  
FOR  
OYSTER CREEK NUCLEAR GENERATING STATION  
DOCKET NO. 50-219  
OCEAN COUNTY, NEW JERSEY  
JERSEY CENTRAL POWER & LIGHT COMPANY d/b/a  
GPU ENERGY  
GPU NUCLEAR, INC.  
NOVEMBER 1978\*

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\*Issued to the ASLB on this date; issued by License Amendment No. 37, June 6, 1979.