

September 18, 1991

Docket No. 50-219

Distribution:

Mr. John J. Barton  
Vice President and Director  
GPU Nuclear Corporation  
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Dear Mr. Barton:

SUBJECT: ISSUANCE OF AMENDMENT (TAC NO. 80301)

The Commission has issued the enclosed Amendment No.155 to Facility Operating License No. DPR-16 for the Oyster Creek Nuclear Generating Station, in response to your application dated April 25, 1991.

The amendment revises the Technical Specifications, Table 4.15.2, Items 2.a. and 3.a. regarding the channel functional test requirements for the Main Stack and Turbine Building Vent Radioactive Gaseous Effluent Monitoring Systems.

A copy of the related Safety Evaluation is enclosed. Also enclosed is the Notice of Issuance which has been forward to the Office of the Federal Register for publication.

Sincerely,

/s/

Alexander W. Dromerick, Senior Project Manager  
Project Directorate I-4  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Enclosures:

- 1. Amendment No. 155 to DPR-16
- 2. Safety Evaluation
- 3. Notice

cc w/enclosures:  
See next page

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NAME	:SNorris	:ADromerick:cn	:JFStolz	:RChahmann	:
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Mr. John J. Barton  
GPU Nuclear Corporation

Oyster Creek Nuclear  
Generating Station

cc:

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

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. 155  
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 April 25, 1991, 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, the license is amended by changes to the 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. 155, are hereby incorporated in the license. GPU Nuclear Corporation 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



John F. Stolz, Director  
Project Directorate I-4  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: September 18, 1991

ATTACHMENT TO LICENSE AMENDMENT NO. 155

FACILITY OPERATING LICENSE NO. DPR-16

DOCKET NO. 50-219

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

Remove

Table 4.15.2

Table 4.15.2 Notations

Insert

Table 4.15.2

Table 4.15.2 Notations

TABLE 4.15.2

**RADIOACTIVE LIQUID EFFLUENT MONITORING  
INSTRUMENTATION SURVEILLANCE REQUIREMENTS**

INSTRUMENT	CHANNEL CHECK	SOURCE CHECK	CHANNEL CALIBRATION	CHANNEL FUNCTIONAL TEST	SURVEILLANCE REQUIRED <sup>a</sup>
1. Main Condenser Offgas Treatment System Hydrogen Monitor	D	N/A	Q <sup>g</sup>	M	c
2. Main Stack Monitoring System					
a. Radioactive Noble Gas Monitor (Low Range)	D	M	1/24 <sup>f</sup>	Q <sup>h</sup>	b
b. Iodine Sampler	W	N/A	N/A	N/A	b
c. Particulate Sampler	W	N/A	N/A	N/A	b
d. Effluent Flow Measuring Device	D	N/A	1/24	Q	b
e. Sample Flow Measuring Device	D	N/A	R	Q	b
3. Turbine Building Ventilation Monitoring System					
a. Radioactive Noble Gas Monitor (Low Range)	D	M	1/24 <sup>f</sup>	Q <sup>i</sup>	b
b. Iodine Sampler	W	N/A	N/A	N/A	b
c. Particulate Sampler	W	N/A	N/A	N/A	b
d. Effluent Flow Measuring Device	D	N/A	1/24	Q	b
e. Sample Flow Measuring Device	D	N/A	R	Q	b
4. Offgas Building Exhaust Ventilation Monitoring System					
a. Radioactive Noble Gas Monitor	D	M	R <sup>f</sup>	Q <sup>e</sup>	b
b. Iodine Sampler Cartridge	W	N/A	N/A	N/A	b
c. Particulate Sampler	W	N/A	N/A	N/A	b
d. Sample Flow Measuring Device	D	N/A	R	N/A	b

**Legend:** S = once per 12 hrs; D = once per 24 hrs; W = once per 7 days; M = once per 31 days; Q = once per 92 days; SA = once per 184 days; R = once per 18 mos; S/U = before each reactor startup; P = completed before each release; N/A = Not Applicable.  
1/24 = once per 24 months

TABLE 4.15.2 NOTATIONS

- a. Instrumentation shall be OPERABLE and in service except that a channel may be taken out of service for the purpose of a check, calibration, test or maintenance without declaring it to be inoperable.
- b. During releases via this pathway.
- c. During main condenser offgas treatment system operation.
- d. During operation of the condenser air ejector.
- e. The CHANNEL FUNCTIONAL TEST shall also demonstrate that control room alarm annunciation occurs if any of the following conditions exists:
  - 1. Instrument indicates measured levels above the alarm setpoint.
  - 2. Instrument indicates a downscale failure.
  - 3. Instrument controls not set in operate mode.
  - 4. Instrument electrical power loss.
- f. The CHANNEL CALIBRATION shall be performed according to established station calibration procedures.
- g. A CHANNEL CALIBRATION shall include the use of at least two standard gas samples, each containing a known volume percent hydrogen in the range of the instrument, balance nitrogen.
- h. The CHANNEL FUNCTIONAL TEST shall also demonstrate that control room alarm annunciation occurs if any of the following conditions exists:
  - 1. Instrument indicates measured levels above the alarm setpoint.
  - 2. Instrument indicates a low countrate/monitor failure.
  - 3. Switch Cover alarm shall be verified to alarm when the cover is opened; and clear when the cover is closed after the faceplate switches are verified in their correct positions.
- i. The CHANNEL FUNCTIONAL TEST shall also demonstrate that control room alarm annunciation occurs if any of the following conditions exists:
  - 1. Instrument indicates measured levels above the alarm setpoint.
  - 2. Instrument indicates a low countrate/monitor failure.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 155

TO FACILITY OPERATING LICENSE NO. DPR-16

GPU NUCLEAR CORPORATION AND  
JERSEY CENTRAL POWER & LIGHT COMPANY

OYSTER CREEK NUCLEAR GENERATING STATION

DOCKET NO. 50-219

1.0 INTRODUCTION

By an application for amendment dated April 25, 1991, GPU Nuclear Corporation (the licensee) requested a revision of the Technical Specifications (TS) to Facility Operating License No. DPR-16 for the Oyster Creek Nuclear Generating Station. The proposed change revises TS Table 4.15.2, Items 2.a and 3.a and related notes to revise surveillance requirements of the newly installed Main Stack and Turbine Building Vent Monitoring Systems (Radioactive Effluent Monitoring Systems - RAGEMS). The existing specifications apply to equipment that has been replaced with updated monitoring equipment. The licensee stated that the existing TS requirements are adequate, but that the proposed change more accurately reflects the requirements of the newly installed monitors.

2.0 EVALUATION

The channel functional test requirements for the Main Stack Monitoring and Turbine Building Vent Monitoring Systems are being revised to provide more accurate surveillance requirements for the new system. These systems were installed to comply with NUREG 0737 requirements to provide a capability to detect and measure radioactive noble gas fission products of the plant gaseous effluent releases during and following an accident.

Because the operational features of the Main Stack Monitoring System are different than the previous system, the licensee has proposed a deletion of note "e" for Items 2.a. and 3.a. (Table 4.15.2). The "e" note requires confirmation of control room alarms when the stack monitor system controls are not set in the operate mode. The licensee stated that this note is no longer required for the new Stack Monitoring System. The new Main Stack noble gas monitor also contains vernier potentiometers to allow for periodic instrument adjustments. Protective switch covers are installed over the instrument racks with alarms that annunciate in the control room whenever the covers are opened. The licensee proposed a new note "h" for Table 4.15.2, Item 2, Main Stack Monitoring System (noble gas monitor) to replace the present note "e" reference. The new note includes a provision to functional test the switch cover alarm. Note "h" also includes requirements to confirm control room annunciation for



measured levels above the alarm setpoint or for low count rate/monitor failure. This note provides more appropriate functional test requirements for the revised Main Stack Monitoring System. This change is acceptable to the staff.

The Radioactive Gaseous Effluent Monitoring System (noble gas monitor) for the Turbine Building Vents also provides a control room trouble alarm when measured levels are above the measured setpoint or for low count rate/monitor failure. The proposed change adds a new note "i" (Table 4.15.2) to include the above trouble alarms in the channel functional test requirements of this system. This change is acceptable to the staff.

The alarm function for both systems will continue to be checked during each channel functional test. The surveillance interval for the channel functional test is not being revised and continues to be performed quarterly for the Main Stack and Turbine Building Vent Monitoring Systems.

The changes proposed by the licensee for the Main Stack and Turbine Building Vent Noble Gas Monitors provides for channel functional tests that are more representative of the newly installed monitor requirements. The proposed changes provide assurance of the operability of the Main Stack and Turbine Building Vent radioactive noble gas monitors. Based on our review the staff finds the proposed TS amendment to Table 4.15.2 revising the functional test requirements of Items 2.a. (Main Stack) and Item 3.a. (Turbine Building Vent) to be acceptable.

### 3.0 STATE CONSULTATION

In accordance with the Commission's regulations, the New Jersey State official was notified of the proposed issuance of the amendment. The State official had no comments.

### 4.0 ENVIRONMENTAL CONSIDERATION

Pursuant to 10 CFR 51.21, 51.32 and 51.35, an environmental assessment and finding of no significant impact have been prepared and published in the Federal Register on September 18, 1991 (56 FR 47253). Accordingly, based upon the environmental assessment, we have determined that the issuance of the amendment will not have a significant effect on the quality of the human environment.

### 5.0 CONCLUSION

The Commission has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: C. Douth

Date: September 18, 1991

UNITED STATES NUCLEAR REGULATORY COMMISSIONRELATED TO AMENDMENT NO. 155TO FACILITY OPERATING LICENSE NO. DPR-16GPU NUCLEAR CORPORATION AND  
JERSEY CENTRAL POWER & LIGHT COMPANYOYSTER CREEK NUCLEAR GENERATING STATIONDOCKET NO. 50-219

The U.S. Nuclear Regulatory Commission (Commission) has issued Amendment No. 155 to Facility Operating License No. DPR-16 issued to GPU Nuclear Corporation (the licensee), which revised the Technical Specifications for operation of the Oyster Creek Nuclear Generating Station located in Ocean County, New Jersey. The amendment is effective as of the date of issuance.

The amendment revises the Technical Specifications, Table 4.15.2, Items 2.a. and 3.a. regarding the channel functional test requirements for the Main Stack and Turbine Building Vent Radioactive Gaseous Effluent Monitoring Systems.

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.

Notice of Consideration of Issuance of Amendment and Opportunity for Hearing in connection with this action was published in the FEDERAL REGISTER on May 20, 1991 (56 FR 23092). No request for a hearing or petition for leave to intervene was filed following this notice.

The Commission has prepared an Environmental Assessment related to the action and has determined not to prepare an environmental impact statement. Based upon the environmental assessment, the Commission has concluded that the issuance of this amendment will not have a significant effect on the quality of the human environment.

For further details with respect to the action see (1) the application for amendment dated April 25, 1991, (2) Amendment No. 155 to License No. DPR-16, (3) the Commission's related Safety Evaluation, and (4) the Commission's Environmental Assessment. All of these items are available for public inspection at the Commission's Public Document Room, the Gelman Building, 2120 L Street NW., Washington, DC 20555 and at the local public document room, located at the Ocean County Library, Reference Department, 101 Washington Street, Toms River, New Jersey 08753. A copy of items (2), (3) and (4) may be obtained upon request addressed to the U.S. Nuclear Regulatory Commission, Washington, DC 20555, Attention: Director, Division of Reactor Projects - I/II.

Dated at Rockville, Maryland this 18th day of September 1991.

FOR THE NUCLEAR REGULATORY COMMISSION



John F. Stolz, Director  
Project Directorate I-4  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation