

January 28, 1991

Docket No. 50-219

Mr. J. J. Barton, Director
Oyster Creek Nuclear Generating Station
Post Office Box 388
Forked River, New Jersey 08731

Dear Mr. Fitzpatrick:

SUBJECT: ISSUANCE OF AMENDMENT (TAC NO. 77722)

Distribution:

Docket File	OGC
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The Commission has issued the enclosed Amendment No. 145 to Provisional Operating License No. DPR-16 for the Oyster Creek Nuclear Generating Station, in response to your application dated September 21, 1990. GPU Nuclear Corporation's request to revise License Condition 2.C.7 was evaluated as a separate item, and Amendment No. 143 was issued on December 27, 1990.

The amendment revises the Technical Specifications (TS) by extending the channel calibration interval from 18 to 24 months for TS Items 2.a, 2.d, 3.a, and 3.d of Table 4.15.2. Items 2.a and 2.d provide surveillance requirements for the Main Stack Radioactive Noble Gas monitors and associated effluent flow element. Items 3.a and 3.d provide surveillance requirements for the Turbine Building Ventilation Radioactive Noble Gas monitors and flow element. The surveillance interval supports a 24-month refueling cycle at Oyster Creek.

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

Sincerely,

151

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. 145 to DPR-16
2. Safety Evaluation
3. Notice

cc w/enclosures:

See next page

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P PDR

*SEE PREVIOUS CONCURRENCE

OFC	:PDI-4:LA*	:PDI-4:PM*	:PDI-4:D*	:OGC*:	:
NAME	:SNorris	:ADromerick	:JFStolz	:R. Bachmann	:
DATE	:1/37/91	:12/27/90	:12/27/90	:1/10/91	:

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Document Name: AMENDMENT 77722

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Docket No. 50-219

Distribution:

Mr. E. E. Fitzpatrick
Vice President and Director
Oyster Creek Nuclear Generating Station
Post Office Box 388
Forked River, New Jersey 08731

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Sincerely,

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

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OFC	:PDI-4:LA*	:PDI-4:PM*	:PDI-4:D*	:OC	:
NAME	:SNorris	:ADromerick	:JFStolz	:R Bachmann	:
DATE	: 12/27/90 1/3/91	:12/27/90	:12/27/90	: 1/10/91	:

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Document Name: AMENDMENT 77722

Mr. J. J. Barton
Oyster Creek Nuclear Generating Station

Oyster Creek Nuclear
Generating Station

cc:

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c/o U.S. NRC
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Licensing Manager
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Mail Stop: Site Emergency Bldg.
P. O. Box 388
Forked River, New Jersey 08731



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 PROVISIONAL OPERATING LICENSE

Amendment No. 145
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 September 21, 1990, 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 Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Provisional Operating License No. DPR-16 is hereby amended to read as follows:

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(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 145, 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: January 28, 1991

ATTACHMENT TO LICENSE AMENDMENT NO. 145

PROVISIONAL OPERATING LICENSE NO. DPR-16

DOCKET NO. 50-219

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

Remove

Page 4.15.4, Table 4.15.2

Insert

Page 4.15.4, Table 4.15.2

TABLE 4.15.2

RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION SURVEILLANCE REQUIREMENTS

Instrument	Channel Check	Source Check	Channel Calibration	Channel Functional Test	Surveillance Required ^a
1. Main Condenser Offgas Treatment System Hydrogen Monitor	D	N.A.	Q ^g	M	c
2. Main Stack Monitoring System					
a. Radioactive Noble Gas Monitor (Low Range)	D	M	1/24 ^f	Q ^e	b
b. Iodine Sampler	W	N.A.	N.A.	N.A.	b
c. Particulate Sample	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 ^f	Q ^e	b
b. Iodine Sampler	W	N.A.	N.A.	N.A.	b
c. Particulate Sample	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 ^f	Q ^e	b
b. Iodine Sampler	W	N.A.	N.A.	N.A.	b
c. Particulate Sample	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 hours; D = once per 24 hours; 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.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 145

TO PROVISIONAL OPERATING LICENSE NO. DPR-16

GPU NUCLEAR CORPORATION AND
JERSEY CENTRAL POWER & LIGHT COMPANY

OYSTER CREEK NUCLEAR GENERATING STATION

DOCKET NO. 50-219

INTRODUCTION

By an application for amendment dated September 21, 1990, GPU Nuclear Corporation (GPUN/licensee) requested a revision of the Technical Specification (TS) to Provisional Operating License No. DPR-16 for the Oyster Creek Nuclear Generating Station. The proposed change extends the channel calibration interval from 18 months to 24 months for Items 2a, 2d, 3a, and 3d of Table 4.15.2. Items 2a and 2d provide surveillance requirements for the Main Stack Radioactive Noble Gas monitors and the associated effluent flow element. Items 3a and 3d provide surveillance requirements for the Turbine Building Ventilation Radioactive Noble Gas monitors and flow element. The proposed surveillance interval is intended to support a 24-month refueling cycle at Oyster Creek. GPUN's request to revise License Condition 2.C.7 of Provisional Operating License No. DPR-16 was evaluated as a separate issue, and Amendment No. 143 was issued on December 27, 1990.

2.0 EVALUATION

The Radioactive Gaseous Effluent Monitoring System was installed at Oyster Creek Nuclear Generating Station to replace the stack gas monitoring system in response to NUREG 0578 and NUREG 0737. This evaluation encompasses the low range noble gas monitors and associated flow elements for both the Main Stack and Turbine Ventilation Monitoring Systems.

The Radioactive Gaseous Effluent Instrumentation is provided to monitor the release of radioactive materials in the effluent discharged from the Main Stack and Turbine Building Exhaust Ventilation Systems. The Main Stack Monitoring System has alarms which annunciate in the control room. A low flow signal for sampled stack effluent also causes a control room alarm. The Turbine Ventilation Monitoring System measures the radioactive releases from the feedwater pump area and operating floor. A flow transmitter provides indication of air flow in the ventilation stack. Both the Main Stack and Turbine Building Ventilation Monitoring Systems are information systems only and do not provide any control functions.

The Main Stack and Turbine Building Ventilation Noble Gas Monitoring Systems require daily channel checks, monthly source checks, monthly channel functional tests, and calibration every 18 months. The 18-month calibration

verifies the system to a source of known radioactivity with differing decay energies, to ensure that the sensor has not degraded.

The Main Stack and the Turbine Building Ventilation Noble Gas Monitoring Systems effluent flow measurements are recorded daily. A functional test is performed every 3 months to verify the flow indicator response to varying flow rates and test the loss of flow alarm response. The flow elements are also required to be calibrated every 18 months per TS requirements. The stack flow transmitter is used to adjust the sample flow to $\pm 20\%$ of stack flow. The licensee stated that the solid state electronics used in the flow element exhibit negligible drift at 18-month intervals and are expected to exhibit an insignificant increase in drift for a 24-month interval.

Outage surveillance data history has not been established due to the recent installation of these systems. The monthly source check and quarterly functional test results were reviewed by the licensee. The results of this evaluation did not indicate any adverse trends. Both the Main Stack and Turbine Building Radioactive Noble Gas Monitors have performed reliably. The licensee reviewed the Nuclear Plant Reliability Data System and found no related system reliability information.

Both the Main Stack and Turbine Building Ventilation Monitoring Systems undergo daily channel checks, monthly source checks, and quarterly functional tests in addition to the 18-month calibration. These surveillances were not revised by this submittal and will continue to ensure system operability. As stated by the licensee the flow element will allow for accurate sample flow calibration over the proposed 24-month surveillance interval. A review of the results of the monthly source check and quarterly functional tests by the licensee found no adverse trends. The licensee has agreed that since these systems were installed recently, the licensee will initiate means to collect and trend the required data to ensure that the extended surveillance interval is appropriate for the referenced systems. Based on the above the staff finds the proposed 24-month surveillance interval for the Main Stack Radioactive Noble Gas monitors, Turbine Building Ventilation Radioactive Noble Gas monitors and associated flow elements to be acceptable.

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 January 23, 1991 (56 FR 2543). 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.

CONCLUSION

The staff 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, and (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 nor to the health and safety of the public.

Dated: January 28, 1991

Principal Contributor: C. Doult

UNITED STATES NUCLEAR REGULATORY COMMISSIONGPU NUCLEAR CORPORATIONDOCKET NO. 50-219NOTICE OF ISSUANCE OF AMENDMENT TO
PROVISIONAL OPERATING LICENSE

The U.S. Nuclear Regulatory Commission (Commission) has issued Amendment No. 145 to Provisional 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 (TS) by extending the channel calibration interval from 18 to 24 months for TS Items 2.a, 2.d, 3.a, and 3.d of Table 4.15.2. Items 2.a and 2.d provide surveillance requirements for the Main Stack Radioactive Noble Gas monitors and associated effluent flow element. Items 3.a and 3.d provide surveillance requirements for the Turbine Building Ventilation Radioactive Noble Gas monitors and flow element. The surveillance interval supports a 24-month refueling cycle at Oyster Creek.

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.

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Notice of Consideration of Issuance of Amendment and Opportunity for Hearing in connection with this action was published in the FEDERAL REGISTER on October 18, 1990 (55 FR 42294). 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 September 21, 1990, (2) Amendment No. 145 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 N.W., Washington, D.C. and 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, D.C. 20555, Attention: Director, Division of Reactor Projects I/II.

Dated at Rockville, Maryland this 28th day of January 1991.

FOR THE NUCLEAR REGULATORY COMMISSION



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