

March 4, 1993

Docket No. 50-219

Mr. John J. Barton  
Vice President and Director  
GPU Nuclear Corporation  
Oyster Creek Nuclear Generating Station  
Post Office Box 388  
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Dear Mr. Barton:

SUBJECT: ISSUANCE OF AMENDMENT (TAC NO. M84345)

The Commission has issued the enclosed Amendment No.162 to Facility Operating License No. DPR-16 for the Oyster Creek Nuclear Generating Station, in response to your application dated August 12, 1992.

The amendment revises the low condenser vacuum reactor scram function in Technical Specification (TS) Table 3.1.1, Function A.6, to represent the as-built condenser vacuum trip system.

A copy of the related Safety Evaluation is also enclosed. The notice of issuance will be included in the Commission's biweekly Federal Register notice.

Sincerely,

Original signed by

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. 162 to DPR-16
- 2. Safety Evaluation

cc w/enclosures:  
See next page

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NAME	<i>SNorris</i>	<i>ADromerick:cn</i>	<i>JStolz</i>	<i>R.Bachmann</i>	
DATE	<i>2/2/93</i>	<i>2/2/93</i>	<i>2/9/93</i>	<i>2/11/93</i>	<i>1/1</i>

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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. 162  
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 August 12, 1992, 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.

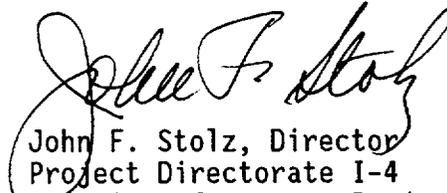
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-16 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 162, 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: March 4, 1993

ATTACHMENT TO LICENSE AMENDMENT NO. 162

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

Page 3.1-8

Page 3.1-19

Insert

Page 3.1-8

Page 3.1-19

TABLE 3.1.1 PROTECTIVE INSTRUMENTATION REQUIREMENTS

Function	Trip Setting	Reactor Modes in which Function Must Be Operable				Min. No. of Operable or Operating [tripped] Trip Systems	Min. No. of Instrument Channels Per Operable Trip Systems	Action Required*
		Shutdown	Refuel	Startup	Run			
A. Scram								
1. Manual Scram		X	X	X	X	2	1	Insert control rods
2. High Reactor Pressure	**		X(s)	X(ll)	X	2	2	
3. High Drywell Pressure	≤ 3.5 psig		X(u)	X(u)	X	2	2	
4. Low Reactor Water Level	**		X	X	X	2	2	
5. a. High Water Level in Scram Discharge Volume North Side	≤ 29 gal.		X(a)	X(z)	X(z)	2	2	
b. High Water Level in Scram Discharge Volume South Side	≤ 29 gal.		X(a)	X(z)	X(z)	2	2	
6. Low Condenser Vacuum	≥ 20 inches Hg.			X(b)	X	1	3 (mm)	
7. High Radiation in Main Steam Line Tunnel	≤ 10 x normal background		X(s)	X	X	2	2	

TABLE 3.1.1 (CONT'D)

- \*gg. These functions are not required to be operable when secondary containment is not required to be maintained or when the conditions of Section 3.5.b.1.a, b, c, and d are met, and reactor water level is closely monitored and logged hourly. The Standby Gas Treatment System will be manually initiated if reactor water level drops to the low level trip set point.
- hh. The high flow trip function for "B" Isolation Condenser is bypassed upon initiation of the alternate shutdown panel. This prevents a spurious trip of the isolation condenser in the event of fire induced circuit damage.
- ii. Instrument shall be operable during main condenser air ejector operation except that a channel may be taken out-of-service for the purpose of a check, calibration, test, or maintenance without declaring it be inoperable.
- jj. With no channel OPERABLE, main condenser offgas may be released to the environment for as long as 72 hours provided the stack radioactive noble gas monitor is OPERABLE. Otherwise, be in at least SHUTDOWN CONDITION within 24 hours.
- kk. Reserved.
- ll. This function not required to be operable with the reactor vessel head removed or unbolted.
- mm. "Instrument Channel" in this case refers to the bellows which sense vacuum in each of the three condensers (A, B, and C), and "Trip System" refers to vacuum trip system 1 and 2.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO.162

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

Pursuant to 10 CFR 50.90, GPU Nuclear Corporation (GPUN/licensee), operator of the Oyster Creek Nuclear Generating Station, submitted on August 12, 1992, a Technical Specification (TS) Change Request No. 202. This is a change request to Appendix A of the Facility Operating License No. DPR-16. The change request proposes to revise the low condenser vacuum reactor scram function in TS Table 3.1.1, Function A.6, to represent the as-built condenser vacuum trip system.

2.0 EVALUATION

Figure 1, reproduced from the licensee's submittal, represents the logic diagram for the reactor trip initiated by low condenser vacuum. A low vacuum in any condenser section (A, B, and C) actuates two independent vacuum trip systems, VT-1 and VT-2, which in turn operate four switches RSCS-11, RSCS-12, RSCS-21, and RSCS-22. RSCS-11 AND RSCS-21, input to reactor protection system RPS I, and RSCS-12 and RSCS-22 input to RPS II. The existing TS Table 3.1.1, Function A.6, specifies a minimum of two operable trip systems and two operable instrument channels per operable trip system. This had been interpreted to mean that RPS I, and RPS II, and RSCS-11, RSCS-21, RSCS-12, and RSCS-22 must be operable. However, this interpretation does not ensure that a low vacuum in any one of the three condenser sections will initiate a reactor trip.

During actual condenser transients, the licensee observed that vacuum in the three condenser sections did not fluctuate equally. Similar uneven condenser pressure variation was also observed in the licensee's RELAP5 MOD2 computer simulations. To overcome this limitation, the licensee proposes to change TS Table 3.1.1, Function A.6 to require a minimum of one operable trip system (VT-1 or VT-2) and three operable instrument channels (bellows) per operable trip system.

The licensee does not take credit for the low condenser vacuum reactor trip in the Final Safety Analysis Report (FSAR) Chapter 15 analysis nor for any other transient analysis in the FSAR because this low condenser vacuum reactor trip is provided as a backup to turbine trip to protect the condenser and turbine and not for reactor protection.

Based on the above evaluation, the staff concludes that the proposed changes to the TS do not involve an unreviewed safety issue or change the plant safety and, therefore, the changes are 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

The amendment changes a requirement with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The NRC staff has determined that the amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that the amendment involves no significant hazards consideration, and there has been no public comment on such finding (57 FR 42775). Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendment.

### 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: S. Mazumdar  
Attachment: Figure 1

Date: March 4, 1993

Figure 1

Low Condenser Vacuum Scram Function

