

April 12, 1990

Docket Nos. 50-334
and 50-412

Mr. J. D. Sieber, Vice President
Nuclear Group
Duquesne Light Company
Post Office Box 4
Shippingport, Pennsylvania 15077

Dear Mr. Sieber:

SUBJECT: BEAVER VALLEY UNITS 1 AND 2 - ISSUANCE OF AMENDMENT
(TAC NOS. 75963 AND 75992)

The Commission has issued the enclosed Amendment No. 153 to Facility Operating License No. DPR-66 for the Beaver Valley Power Station, Unit 1, Amendment No. 30 for Operating License No. NPF-73 for Unit 2, in response to your application dated February 7, 1990.

The amendments revise Sections 3.8.2.1 and 4.8.2.1 of the Units' Technical Specifications to more closely resemble the Standard Westinghouse Technical Specifications. The major change is the imposition of the requirement that the operable 120-volt A.C. vital bus must be energized from an inverter connected to a D.C. bus.

A copy of the Safety Evaluation is also enclosed. The Notice of Issuance will be included in the Commission's bi-weekly Federal Register notice.

Sincerely,

/s/

Peter S. Tam, Senior Project Manager
Project Directorate I-4
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 153 to DPR-66
2. Amendment No. 30 to NPF-73
3. Safety Evaluation

cc w/enclosures:
See next page

*See previous concurrence

Concurrence page 1 of 2

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| NAME | :SNorris | :PTam:tm | :JStoltz | :CBarth | :FRosa * |
| DATE | :3/27/90 | :3/27/90 | :4/11/90 | :4/12/90 | :3/28/90 |

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Concurrence page 2 of 2

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| NAME | :Shorris * | :PTam:tm * | :JStolz * | : | :FRosa |
| DATE | : / /90 | : / /90 | : / /90 | : / /90 | : 3/28/90 |

Mr. J. Sieber
Duquesne Light Company
cc:

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Assistant City Solicitor
City of Pittsburgh
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Pittsburgh, Pennsylvania 15219

Commissioner Roy M. Smith
West Virginia Department of Labor
Building 3, Room 319
Capitol Complex
Charleston, WV 25305

John D. Borrows
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Public Utilities Commission
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Columbus, Ohio 43266-0573

Director, Pennsylvania Emergency
Management Agency
Post Office Box 3321
Harrisburg, Pennsylvania 17105-3321

Beaver Valley Power Station
Units 1 & 2

Bureau of Radiation Protection
Pennsylvania Department of
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ATTN: R. Janati
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Harrisburg, Pennsylvania 17120

Mayor of the Borough of
Shippingport
Post Office Box 3
Shippingport, Pennsylvania 15077

Regional Administrator, Region I
U.S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, Pennsylvania 19406

Resident Inspector
U.S. Nuclear Regulatory Commission
Post Office Box 181
Shippingport, Pennsylvania 15077

DATE: April 12, 1990

AMENDMENT NO. 153 TO FACILITY OPERATING LICENSE NO. DPR-66 UNIT 1
AMENDMENT NO. 30 TO FACILITY OPERATING LICENSE NO. NPF-73 UNIT 2

Docket File

NRC & Local PDR

Plant File

S. Varga (14E4)

B. Boger (14A2)

J. Stolz

S. Norris

P. Tam

OGC

D. Hagan (MNBB 3302)

E. Jordan (MNBB 3302)

G. Hill(8) (P1-137)

W. Jones (P-130A)

J. Calvo (11F23)

ACRS (10)

GPA/PA

ARM/LFMB

cc: Licensee/Applicant Service List



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

DUQUESNE LIGHT COMPANY

OHIO EDISON COMPANY

PENNSYLVANIA POWER COMPANY

DOCKET NO. 50-334

BEAVER VALLEY POWER STATION, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 153
License No. DPR-66

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Duquesne Light Company, et al. (the licensee) dated February 7, 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.

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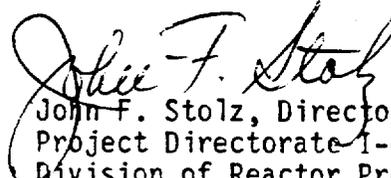
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-66 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 153, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of its issuance, to be implemented within 45 days of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



John F. Stolz, Director
Project Directorate 1-4
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical
Specifications

Date of Issuance: April 12, 1990

ATTACHMENT TO LICENSE AMENDMENT NO. 153

FACILITY OPERATING LICENSE NO. DPR-66

DOCKET NO. 50-334

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
3/4 8-6

Insert
3/4 8-6

3/4 8-6a

ELECTRICAL POWER SYSTEMS

3/4.8.2 ONSITE POWER DISTRIBUTION SYSTEMS

A.C. DISTRIBUTION - OPERATING

LIMITING CONDITION FOR OPERATION

3.8.2.1 The following electrical busses shall be energized in the specified manner with tie breakers open between redundant busses within the unit.

- a. Train A A.C. Emergency Busses consisting of:
 - 1) 4160-Volt Emergency Bus #1AE, and
 - 2) 480-Volt Emergency Bus #8N.
- b. Train B A.C. Emergency Busses consisting of:
 - 1) 4160-Volt Emergency Bus #1DF, and
 - 2) 480-Volt Emergency Bus #9P
- c. 120-Volt A.C. Vital Bus #I energized from its associated inverter connected to D.C. Bus # 1-1
- d. 120-Volt A.C. Vital Bus #II energized from its associated inverter connected to D.C. Bus # 1-2
- e. 120-Volt A.C. Vital Bus #III energized from its associated inverter connected to D.C. Bus # 1-3
- f. 120-Volt A.C. Vital Bus #IV energized from its associated inverter connected to D.C. Bus # 1-4

APPLICABILITY: MODES 1, 2, 3, and 4.

ACTION:

- a. With one of the required trains of A.C. emergency busses not fully energized, re-energize the train within 8 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.
- b. With one A.C. Vital Bus not energized, re-energize the A.C. Vital Bus within 2 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.
- c. With one A.C. Vital Bus either not energized from its associated inverter, or with the inverter not connected to its associated D.C. Bus, re-energize the A.C. Vital Bus from its associated inverter connected to its associated D.C. Bus within 24 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

ELECTRICAL POWER SYSTEMS

SURVEILLANCE REQUIREMENTS

4.8.2.1 The specified busses shall be determined energized in the required manner at least once per 7 days by verifying correct breaker alignment and indicated voltage on the busses.



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

DUQUESNE LIGHT COMPANY

OHIO EDISON COMPANY

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

THE TOLEDO EDISON COMPANY

DOCKET NO. 50-412

BEAVER VALLEY POWER STATION, UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 30
License No. NPF-73

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Duquesne Light Company, et al. (the licensee) dated February 7, 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 Facility Operating License No. NPF-73 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 30, and the Environmental Protection Plan contained in Appendix B, both of which are attached hereto are hereby incorporated in the license. DLCO shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

3. This license amendment is effective on issuance, to be implemented within 45 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: April 12, 1990

ATTACHMENT TO LICENSE AMENDMENT NO. 30

FACILITY OPERATING LICENSE NO. NPF-73

DOCKET NO. 50-412

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

3/4 8-7

Insert

3/4 8-7

ELECTRICAL POWER SYSTEMS

3/4.8.2 ONSITE POWER DISTRIBUTION SYSTEM

A.C. DISTRIBUTION - OPERATING

LIMITING CONDITION FOR OPERATION

3.8.2.1 The following electrical busses shall be energized in the specified manner with tie breakers open between redundant busses within the unit.

- a. Train A A.C. Emergency Busses consisting of:
 1. 4160-Volt Emergency Bus #2AE, and
 2. 480-Volt Emergency Bus #2N.
- b. Train B A.C. Emergency Busses consisting of:
 1. 4160-Volt Emergency Bus #2DF and
 2. 480-Volt Emergency Bus #2P
- c. 120-Volt A.C. Vital Bus #I energized from its associated inverter connected to D.C. Bus # 2-1
- d. 120-Volt A.C. Vital Bus #II energized from its associated inverter connected to D.C. Bus # 2-2
- e. 120-Volt A.C. Vital Bus #III energized from its associated inverter connected to D.C. Bus # 2-3
- f. 120-Volt A.C. Vital Bus #IV energized from its associated inverter connected to D.C. Bus # 2-4

APPLICABILITY: MODES 1, 2, 3, and 4

ACTION:

- a. With one of the required trains of A.C. emergency busses not fully energized, re-energize the train within 8 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.
- b. With one A.C. Vital Bus not energized, re-energize the A.C. Vital Bus within 2 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.
- c. With one A.C. Vital Bus either not energized from its associated inverter, or with the inverter not connected to its associated D.C. Bus, re-energize the A.C. Vital Bus from its associated inverter connected to its associated D.C. Bus within 24 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

SURVEILLANCE REQUIREMENTS

4.8.2.1 The specified busses shall be determined energized in the required manner at least once per 7 days by verifying correct breaker alignment and indicated voltage on the busses.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 153 TO FACILITY OPERATING LICENSE NO. DRP-66
AMENDMENT NO. 30 TO FACILITY OPERATING LICENSE NO. NPF-73

DUQUESNE LIGHT COMPANY
OHIO EDISON COMPANY
PENNSYLVANIA POWER COMPANY
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY
THE TOLEDO EDISON COMPANY

BEAVER VALLEY POWER STATION, UNIT NOS. 1 AND 2
DOCKET NOS. 50-334 AND 50-412

INTRODUCTION

The Beaver Valley Power Station Technical Specifications state that a number of electrical busses, including the four vital alternating current (A.C.) busses at each unit, be "OPERABLE and energized from sources of power other than the diesel generators." This specification is ambiguous since it implies that as long as the emergency diesel generators are not used as sources of power, there may be different ways to energize the busses to render them OPERABLE. Occasions did arise in which plant personnel used an interruptible and therefore not desirable source of power to energize vital bus number 3 at Unit 1. Details of these occasions may be found in NRC Region I Special Inspection Report No. 50-334/90-04 (February 16, 1990) and resulting documents.

Realizing the ambiguity above, Duquesne Light Company (the licensee, acting as agent for the above utilities) submitted an amendment request on February 7, 1990, to reissue the Technical Specifications, following the guidance of the current Westinghouse Standard Technical Specifications (WSTS). Our evaluation of the amendment request follows.

EVALUATION

Specifications 3.8.2 and 4.8.2, Onsite Power Distribution Systems and Associated Surveillance Requirements

The licensee's proposed amendment includes operability requirements for the A.C. vital bus inverters by specifically requiring that the vital busses be powered from inverters connected to D.C. busses. The current NRC definition of

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an operable A.C. vital bus requires the vital bus to be powered from its inverter connected to a D.C. bus. With this interpretation, the current BVPS Technical Specifications can be interpreted to say that whenever an inverter is inoperable, the associated A.C. vital bus is also inoperable and the unit has then entered the 8-hour action requirement.

The licensee proposed to change the specifications to specifically state that the vital busses I through IV of each unit be energized from their associated inverters which in turn are connected to their associated D.C. busses. These changes would eliminate the ambiguity described in the INTRODUCTION section, comply with our current position on vital bus operability as expressed in the WSTS, and are thus acceptable.

The proposed amendments would also change the current 8-hour Action Statement to a 2-hour Action statement for a de-energized A.C. vital bus, and a 24-hour Action Statement for an inoperable inverter. The current 8-hour Action Statement for an inoperable inverter is restrictive and does not provide adequate time for corrective or preventive maintenance. Based on the licensee's past inverter operating history, a minimum 24-hour Action Statement is necessary to provide sufficient time to perform trouble shooting, corrective maintenance and post-maintenance testing. The licensee's proposed 2-hour and 24-hour Action Statements for the vital A.C. busses and inverters, respectively, follow the NRC position expressed as guidance in the WSTS, and are thus acceptable.

ENVIRONMENTAL CONSIDERATION

These amendments change requirements with respect to the installation or use of facility components located within the restricted area as defined in 10 CFR Part 20 and change surveillance requirements. We have determined that the amendments involve 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. We have previously issued a proposed finding that these amendments involve no significant hazards consideration and there has been no public comment on such finding. Accordingly, these amendments meet 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 these amendments.

CONCLUSION

We have 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 these amendments will not be inimical to the common defense and security or to the health and safety of the public.

Dated: April 12, 1990

Principal Contributor: Peter S. Tam