

August 2, 1989

Docket No. 50-412

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

Dear Mr. Sieber:

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SUBJECT: BEAVER VALLEY UNIT 2 - ISSUANCE OF AMENDMENT (TAC NO. 69220)

The Commission has issued the enclosed Amendment No. 19 to Facility Operating License No. NPF-73 for the Beaver Valley Power Station, Unit No. 2, partially in response to your application dated August 11, 1988. The parts of your request not addressed in this amendment will be addressed in a separate letter.

The amendment revises the supplemental leak collection and release system (SLCRS) flow rate from 59,000 cfm to 57,000 cfm, reflecting an approved change to the design basis of the SLCRS.

A copy of the related 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. 19 to NPF-73
2. Safety Evaluation

cc w/enclosures:

See next page

[AMENDMENT 69220]

LA:PDI-4  
SN:YTS  
7/12/89

PM:PDI-4  
PTam:cb  
7/17/89

PD:PDI-4  
JStolz  
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OGC  
8/10/89

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Mr. J. Sieber  
Duquesne Light Company

Beaver Valley Power Station  
Units 1 & 2

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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. 19  
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 August 11, 1988, 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.

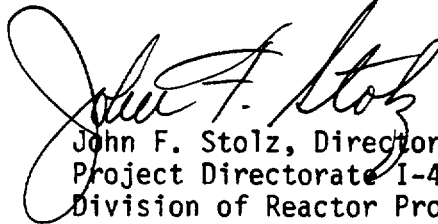
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. NPF-73 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 19, and the Environmental Protection Plan contained in Appendix B, both of which are attached hereto are hereby incorporated in the license. The licensee 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 60 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: August 2, 1989

ATTACHMENT TO LICENSE AMENDMENT NO. 19

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 7-18

3/4 7-19

Insert

3/4 7-18

3/4 7-19

## PLANT SYSTEMS

### 3/4.7.8 SUPPLEMENTAL LEAK COLLECTION AND RELEASE SYSTEM (SLCRS)

#### LIMITING CONDITION FOR OPERATION

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3.7.8.1 Two SLCRS exhaust air filter trains shall be OPERABLE.

APPLICABILITY: MODES 1, 2, 3 and 4.

ACTION:

With one SLCRS exhaust air filter train inoperable, restore the inoperable train to OPERABLE status within 7 days or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

#### SURVEILLANCE REQUIREMENTS

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4.7.8.1 Each SLCRS exhaust air filter train shall be demonstrated OPERABLE:

- a. At least once per 31 days by initiating, from the control room, flow through the "standby" HEPA filter and charcoal adsorber train and verifying that the train operates for at least 15 minutes with the heater controls operational.
- b. At least once per 18 months and (1) after each complete or partial replacement of a HEPA filter or charcoal adsorber bank, or (2) after any structural maintenance on the HEPA filter or charcoal adsorber housings, or (3) following painting, fire or chemical release in any ventilation zone communicating with the system by:
  1. Verifying that the charcoal adsorbers remove  $\geq 99.95\%$  of a halogenated hydrocarbon refrigerant test gas when they are tested in-place in accordance with ANSI N510-1980 while operating the ventilation system at a flow rate of 57,000 cfm  $\pm 10\%$ .
  2. Verifying that the HEPA filter banks remove  $\geq 99.95\%$  of the DOP when they are tested in-place in accordance with ANSI N510-1980 while operating the ventilation system at a flow rate of 57,000 cfm  $\pm 10\%$ .
  3. Subjecting the carbon contained in at least one test canister or at least two carbon samples removed from one of the charcoal adsorbers to a laboratory carbon sample analysis and verifying a removal efficiency of  $\geq 99\%$  for radioactive methyl iodide at an air flow velocity of 0.7 ft/sec  $\pm 20\%$  with an inlet methyl iodide concentration of 1.5 to 2.0. mg/m<sup>3</sup>,  $\geq 70\%$  relative humidity, and 30°C  $\pm \frac{1}{2}$ °C; other test conditions shall be in accordance with ANSI N510-1980. The carbon samples not obtained from test canisters shall be taken with a slotted tube sampler in accordance with ANSI N509-1980.

## PLANT SYSTEMS

### SURVEILLANCE REQUIREMENTS

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4. Verifying a system flow rate of 57,000 cfm  $\pm$  10% during system operation.
- c. At least once per 18 months by:
    1. Verifying that the pressure drop across the combined HEPA filters and charcoal adsorber banks is less than 6.8 inches Water Gauge while operating the ventilation system at a flow rate of 57,000 cfm  $\pm$  10%.
    2. Verifying that the exhaust from the contiguous area is diverted through the SLCRS filter train on a Containment Isolation - Phase "A" signal in less than 5 minutes.
  - d. Verifying that the air flow distribution to each HEPA filter and charcoal adsorber is within  $\pm$  20% of the averaged flow per unit after initial installation and after any maintenance affecting the flow distribution.
  - e. At least once per 4 months of system operation, perform the surveillance requirement of 4.7.8.1.b.3.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 19 TO FACILITY OPERATING LICENSE NO. NPF-73

DUQUESNE LIGHT COMPANY

OHIO EDISON COMPANY

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

THE TOLEDO EDISON COMPANY

BEAVER VALLEY POWER STATION, UNIT NO. 2

DOCKET NO. 50-412

INTRODUCTION

Portions of the supplementary leak collection and release system (SLCRS) have been designed to serve as an engineered safety feature (ESF). Those portions were credited with post-accident radiological consequence mitigation for the loss-of-coolant accident (LOCA) and the fuel handling accident. Details of these analyses may be found in our Safety Evaluation Report (NUREG-1057). By letter dated August 11, 1988, Duquesne Light Company (the licensee, acting as agent for the above utilities) requested that certain specifications regarding the SLCRS be amended. Results of our partially completed review are presented in the following sections.

DISCUSSION AND EVALUATION

Specification 4.7.8.1.b.1, 2, 4 and 4.7.8.1.c.1

This amendment revises the SLCRS flow rate from 59,000 cfm  $\pm 10\%$  to 57,000 cfm  $\pm 10\%$ . This change is a result of removing SLCRS coverage from the main steam and feedwater valve area, which houses no piping that could contain post-LOCA fluids. The revised total flow rate also reflects the actual system flow rates obtained after final system balancing.

The change will not adversely affect the capability of the SLCRS to maintain a negative pressure in areas it covers. Since the total flow rate through the filter banks is reduced, there is a concurrent increase in air residence time in the filter banks, resulting in an expected increase of filter efficiency.

We find no negative impact on the design function of the SLCRS, and that the change is acceptable. This change also addresses the concern raised as Unresolved Item 50-412/87-61-01 in Inspection Report 50-412/88-18.



### ENVIRONMENTAL CONSIDERATION

This amendment changes requirements with respect to the installation or use of facility components located within the restricted area as defined in 10 CFR Part 20 and changes to surveillance requirements. We have 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. We have previously issued a proposed finding that this amendment involves no significant hazards consideration and there has been no public comment on such finding. Accordingly, this 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 this amendment.

### 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 this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Dated: August 2, 1989

Principal Contributor: Peter S. Tam