

April 12, 1999

Mr. J. E. Cross  
President-Generation Gro  
Duquesne Light Company  
Post Office Box 4  
Shippingport, PA 15077

SUBJECT: BEAVER VALLEY POWER STATION, UNIT NO. 1, ENVIRONMENTAL  
ASSESSMENT RELATED TO THE REVISION OF CONTROL ROOM  
RADIOLOGICAL DOSE CALCULATIONS FOR WASTE GAS SYSTEM LINE  
BREAK ACCIDENT (TAC NO. MA0622)

Dear Mr. Cross:

Enclosed is a copy of the Environmental Assessment and Finding of No Significant Impact related to your application for amendment dated January 17, 1998, as supplemented by letters dated February 10, 1998, November 9, 1998, February 8, 1999, and February 26, 1999. The amendment authorizes changes to the Updated Final Safety Analysis Report to reflect revisions to the Control Room radiological dose calculations for the waste gas system line break accident analysis. This revision was required in order to correct a mathematical error in the previous calculation.

The assessment is being forwarded to the Office of the Federal Register for publication.

Sincerely,

Original signed by:

Daniel S. Collins, Project Manager, Section 1  
Project Directorate I  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket No. 50-334

Enclosure: Environmental Assessment

cc w/encl: See next page

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with comment

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Duquesne Light Company  
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UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

April 12, 1999

Mr. J. E. Cross  
President-Generation Group  
Duquesne Light Company  
Post Office Box 4  
Shippingport, PA 15077

SUBJECT: BEAVER VALLEY POWER STATION, UNIT NO. 1, ENVIRONMENTAL  
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Sincerely,

A handwritten signature in cursive script that reads "Daniel S. Collins".

Daniel S. Collins, Project Manager, Section 1  
Project Directorate I  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket No. 50-334

Enclosure: Environmental Assessment

cc w/encl: See next page

Mr. J. E. Cross  
Duquesne Light Company

Beaver Valley Power Station, Units 1 and 2

cc

Jay E. Silberg, Esquire  
Shaw, Pittman, Potts & Trowbridge  
2300 N Street, NW.  
Washington, DC 20037

Duquesne Light Company  
Beaver Valley Power Station  
PO Box 4  
Shippingport, PA 15077  
ATTN: Kevin L. Ostrowski, Division Vice  
President, Nuclear Operations Group  
and Plant Manager (BV-SOSB-7)

Duquesne Light Company  
Safety and Licensing Department  
Mark S. Ackerman, Manager (2 Copies)  
Beaver Valley Power Station  
PO Box 4, BV-A  
Shippingport, PA 15077

Bureau of Radiation Protection  
Pennsylvania Department of  
Environmental Protection  
ATTN: Michael P. Murphy  
Post Office Box 2063  
Harrisburg, PA 17120

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

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Post Office Box 3  
Shippingport, PA 15077

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Harrisburg, PA 17105-3321

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Shippingport, PA 15077

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Duquesne Light Company  
Beaver Valley Power Station  
PO Box 4  
Shippingport, PA 15077  
ATTN: S. C. Jain, Senior Vice President  
Nuclear Services (BV-A)

Dr. Judith Johnsrud  
National Energy Committee  
Sierra Club  
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State College, PA 16803

Mr. J. A. Hultz, Manager  
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76 South Main Street  
Akron, OH 44308

Mr. Roy Denmark  
Environmental Review Coordinator  
Environmental Protection Agency  
841 Chestnut Street  
Philadelphia, PA 19107

UNITED STATES NUCLEAR REGULATORY COMMISSIONDUQUESNE LIGHT COMPANYOHIO EDISON COMPANYPENNSYLVANIA POWER COMPANYBEAVER VALLEY POWER STATION, UNIT NO. 1DOCKET NO. 50-334ENVIRONMENTAL ASSESSMENT AND FINDING OFNO SIGNIFICANT IMPACT

The U.S. Nuclear Regulatory Commission (the Commission) is considering issuance of an amendment to Facility Operating License No. DPR-66, issued to Duquesne Light Company, (the licensee), for operation of the Beaver Valley Power Station, Unit 1 (BVPS-1), located in Beaver County, Pennsylvania.

ENVIRONMENTAL ASSESSMENTIdentification of the Proposed Action:

The proposed action would authorize changes to the Updated Final Safety Analysis Report (UFSAR) for the facility. Specifically, the proposed action would authorize changes to the UFSAR to reflect revisions to the Control Room radiological dose calculations for the waste gas system line break accident analysis. The BVPS-1 UFSAR would be revised as follows: in Table 11.3-7, the reported Gamma (whole body) dose value would be revised from 0.0031 REM to less than 0.01 REM; the reported Beta dose value would be revised from 0.013 REM to less than 1.0 REM; and Table 14.2-8 would be revised to reflect the assumptions that (1) the fraction of fuel with defects is one percent, and (2) the control room radiation monitors will not initiate control room isolation, which were used in the reanalysis.

The proposed action is in accordance with the licensee's application for amendment dated January 17, 1998, as supplemented by letters dated February 10, 1998, November 9, 1998, February 8, 1999, and February 26, 1999.

The Need for the Proposed Action:

As a result of issues involving control room habitability, the licensee re-evaluated Beaver Valley Power Station, Units 1 and 2, (BVPS-1 and BVPS-2) control room dose calculations for Design Basis Accidents (DBA) which credited isolation of the control room during the DBA. When analyses associated with the waste gas system rupture were reviewed, an arithmetic error was discovered in the control room dose calculation for BVPS-1 which resulted in the associated values listed in the BVPS-1 UFSAR being incorrect. Therefore, it is necessary to correct the analysis and revise the BVPS-1 UFSAR.

Environmental Impacts of the Proposed Action:

The Commission has completed its evaluation of the proposed action and concludes that the assumptions and methodology used by the licensee in the reanalysis are acceptable and that there is reasonable assurance, in the event of a postulated Waste Gas System Line Break, that the postulated control room operator doses would continue to be less than the criteria of 10 CFR Part 50, Appendix A, General Design Criterion 19; and well within the occupational dose limits of 10 CFR Part 20.

The proposed action will not increase the probability or consequences of accidents (although the corrections result in a higher calculated control room operator dose), no changes are being made in the types of any effluents that may be released off site, and there is no significant increase in occupational or public radiation exposure. Therefore, there are no significant radiological environmental impacts associated with the proposed action.

With regard to potential nonradiological impacts, the proposed action does not involve any historic sites. It does not affect nonradiological plant effluents and has no other environmental impact. Therefore, there are no significant nonradiological environmental impacts associated with the proposed action.

Accordingly, the Commission concludes that there are no significant environmental impacts associated with the proposed action.

Alternatives to the Proposed Action:

As an alternative to the proposed action, the staff considered denial of the proposed action (i.e., the "no-action" alternative). Denial of the application would result in no change in current environmental impacts. The environmental impacts of the proposed action and the alternative action are similar.

Alternative Use of Resources:

This action does not involve the use of any resources not previously considered in the Final Environmental Statement for BVPS-1.

Agencies and Persons Consulted:

In accordance with its stated policy, on March 25, 1999, the staff consulted with the Pennsylvania State official, Mr. M. Murphy of the Pennsylvania Department of Environmental Protection Bureau, Division of Nuclear Safety, regarding the environmental impact of the proposed action. The State official had no comments.

FINDING OF NO SIGNIFICANT IMPACT

On the basis of the environmental assessment, the Commission concludes that the proposed action will not have a significant effect on the quality of the human environment.

Accordingly, the Commission has determined not to prepare an environmental impact statement for the proposed action.

For further details with respect to the proposed action, see the licensee's letter dated January 17, 1998, as supplemented by letters dated February 10, 1998, November 9, 1998, February 8, 1999, and February 26, 1999, which are available for public inspection at the Commission's Public Document Room, The Gelman Building, 2120 L Street, NW., Washington, DC, and at the local public document room located at the B. F. Jones Memorial Library, 663 Franklin Avenue, Aliquippa, PA 15001.

Dated at Rockville, Maryland, this 12th day of April 1999.

FOR THE NUCLEAR REGULATORY COMMISSION



Daniel S. Collins, Project Manager, Section 1  
Project Directorate I  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

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April 14, 1999

MEMORANDUM TO: Rules and Directives Branch  
Division of Administrative Services  
Office of Administration

FROM: Office of Nuclear Reactor Regulation

SUBJECT: BEAVER VALLEY POWER STATION, UNIT NO. 1, ENVIRONMENTAL ASSESSMENT RELATED TO THE REVISION OF CONTROL ROOM RADIOLOGICAL DOSE CALCULATIONS FOR WASTE GAS SYSTEM LINE BREAK ACCIDENT (TAC NO. MA0622)

One signed original of the *Federal Register* Notice identified below is attached for your transmittal to the Office of the Federal Register for publication. Additional conformed copies ( 5 ) of the Notice are enclosed for your use.

- Notice of Receipt of Application for Construction Permit(s) and Operating License(s).
- Notice of Receipt of Partial Application for Construction Permit(s) and Facility License(s): Time for submission of Views on Antitrust matters.
- Notice of Consideration of Issuance of Amendment to Facility Operating License. (Call with 30-day insert date).
- Notice of Receipt of Application for Facility License(s); Notice of Availability of Applicant's Environmental Report; and Notice of Consideration of Issuance of Facility License(s) and Notice of Opportunity for Hearing.
- Notice of Availability of NRC Draft/Final Environmental Statement.
- Notice of Limited Work Authorization.
- Notice of Availability of Safety Evaluation Report.
- Notice of Issuance of Construction Permit(s).
- Notice of Issuance of Facility Operating License(s) or Amendment(s).
- Order.
- Exemption.
- Notice of Granting Exemption.
- Environmental Assessment.
- Notice of Preparation of Environmental Assessment.
- Receipt of Petition for Director's Decision Under 10 CFR 2.206.
- Issuance of Final Director's Decision Under 10 CFR 2.206.
- Other: \_\_\_\_\_

DOCKET NO. 50-334

Attachment(s): As stated

Contact: Sherri Little  
Telephone: 415-2025

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