April 7, 1988

Docket No. 50-334

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

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Dear Mr. Sieber:

SUBJECT: ISSUANCE OF AMENDMENT (TAC NO. 65106)

The Commission has issued the enclosed Amendment No. 123 to Facility Operating License No. DPR-66 for the Beaver Valley Power Station, Unit No. 1, in response to your application dated April 13, 1987, and supplemented by letters dated December 2, 1987 and January 25, 1988.

The amendment revises certain Technical Specifications pertaining to the waste gas decay tank, specifically, removal of requirements associated with a radiation monitor.

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,

original signed by

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

Enclosures:
1. Amendment No. 123 to DPR-66
2. Safety Evaluation

cc w/enclosures:
See next page

LA:PDI-4	PM:PDI-4	PD:PDI-4	OGC
SNorris	PTam:lm	JStolz	
3/30/88	4/1/88	04/06/88	4/4/88

Mr. J. Sieber
Duquesne Light Company

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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. 123
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 April 13, 1987 and supplemented by letters dated December 2, 1987 and January 25, 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. DPR-66 is hereby amended to read as follows:

   (2) Technical Specifications

   The Technical Specifications contained in Appendix A, as revised through Amendment No. 123, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective on 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: April 7, 1988

ATTACHMENT TO LICENSE AMENDMENT NO. 123

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	Insert
3/4 3-62	3/4 3-62
3/4 3-64	3/4 3-64
3/4 3-66	3/4 3-66
3/4 11-20	3/4 11-20

TABLE 3.3-13 (Continued)

RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTTION

INSTRUMENT	MINIMUM CHANNELS OPERABLE	APPLICABILITY	PARAMETER	ACTION
4. Waste Gas Decay Tanks Monitor				
a. Oxygen Monitor (O_2-AS-GW-110-1,2)	(2)	**	Oxygen	31

** During waste gas decay tank filling operation.

TABLE 3.3-13 (Continued)

ACTION STATEMENTS

ACTION 31 - With the number of channels OPERABLE one less than required by the Minimum Channels OPERABLE requirement, operation of this system may continue provided grab samples are obtained every 4 hours and analyzed within the following 4 hours during additions to a tank.

ACTION 32 - With the number of channels OPERABLE less than required by the Minimum Channels OPERABLE requirement, effluent releases via this pathway may continue provided samples are continuously collected with auxiliary sampling equipment as required in Table 4.11-2 or sampled and analyzed once every 8 hours.

TABLE 4.3-13 (Continued)

RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION SURVEILLANCE REQUIREMENTS

	INSTRUMENT	CHANNEL CHECK	SOURCE CHECK	CHANNEL CALIBRATION	CHANNEL FUNCTIONAL TEST
b.	Particulate Activity Monitor	W	N/A	N/A	N/A
c.	System Effluent Flow Rate Measuring Device (FR-VS-112)	D	N/A	R	Q
d.	Sampler Flow Rate Measuring Device	D	N/A	R	Q
4.	Waste Gas Decay Tanks Monitor				
a.	Oxygen Monitor (O_2-AS-GW-110-1,2)	D	N/A	Q(4)	M

RADIOACTIVE EFFLUENTS

GAS STORAGE TANKS

LIMITING CONDITION FOR OPERATION

3.11.2.5 The quantity of radioactivity contained in each gas storage tank shall be limited to $\leq$52,000 curies noble gases (considered as Xe-133).

APPLICABILITY: At all times.

ACTION:

a. With the quantity of radioactive material in any gas storage tank exceeding the above limit, immediately suspend all additions of radioactive material to the tank and within 48 hours reduce the tank contents to within the limit, and

b. Submit a Special Report to the Commission within 30 days pursuant to Specification 6.9.2 and include a schedule and a description of activities planned and/or taken to reduce the contents to within the specified limits.

c. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.11.2.5.1 The quantity of radioactive material contained in each gas storge tank shall be determined to be within the above limit at least once per 24 hours when radioactive materials are being added to the tank. Performance of this surveillance is required when the gross concentration of the primary coolant is > 100 μCi/ml.

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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO.123 TO FACILITY OPERATING LICENSE NO. DPR-66

DUQUESNE LIGHT COMPANY

OHIO EDISON COMPANY

PENNSYLVANIA POWER COMPANY

BEAVER VALLEY POWER STATION, UNIT NO. 1

DOCKET NO. 50-334

INTRODUCTION

By letter dated April 13, 1987, Duquesne Light Company, (the licensee, acting as agent for the other two licensees listed above), requested a license amendment to revise the Beaver Valley Unit 1 Technical Specifications. In response to our requests, Duquesne Light submitted supplemental information in letters dated December 2, 1987 and January 25, 1988. The amendment concerns the monitoring of radioactive gases in the three waste gas decay tanks (WGDTs) at Beaver Valley Unit 1. The proposed amendment would: (1) delete the requirement for one radiation monitor and one sample flow rate measuring device from the Technical Specifications, and allow the physical removal of these monitors from the plant; and (2) relax the conditions under which the quantities of radionuclides in the WGDTs need to be determined.

DISCUSSION AND EVALUATION

Technical Specification (TS) 3/4 3.3.10, in conjunction with Table 3.3-13, currently requires, among other things, that at least one radiation monitor (designated as RM-GW-101) be operable and at least one sample flow rate measuring device be operable while filling any of the three WGDTs. TS Table 4.3-13 lists the frequency for checking the operability of these monitors. In the event that at least one radiation monitor is not operable during filling operations, the TS requires "ACTION 35", which specifies that the quantities of radioactive material in each WGDT must be determined every 24 hours. In the event that at least one sampler is not operable during filling operations, the TS requires "ACTION 28", which states that effluent releases may continue provided that the flow rate is estimated every 4 hours.

The licensee has proposed amending the TS to delete the requirement for a radiation monitor and the associated sample flow rate measuring device and allow the physical removal of these monitors from the plant. The licensee states that the radiation monitor for the WGDTs has a history of inoperability, and that this monitor was originally installed as an alternative to manual sampling of the WGDTs. The removal of the monitor, and the associated sample flow rate measuring device, will not increase the quantities of airborne radioactive effluents released from the plant during normal operations since the monitor's alarm only alerts the operator to divert the waste gas feed to another WGDT. The gaseous waste/process vent system (i.e., RM-GW-108A&B) downstream of the WGDTs controls the releases of radioactive gases to the environment, and provides an alarm and initiates automatic closure of the WGDT discharge valves. We therefore find the proposed deletion of radiation monitor and associated flow rate measuring device from Tables 3.3-13 and 4.3-13 acceptable. The physical removal of these devices is also acceptable.

The licensee proposed to delete TS 4.11.2.5.2, which pertains to operability requirement of the above radiation monitor. Since we already found removal of the monitor acceptable, we also find deletion of TS 4.11.2.5.2 acceptable.

In addition, the licensee proposed to amend TS 4.11.2.5.1 which requires, among other things, that the quantity of radioactive material contained in each WGDT must be determined to be within a limit of 52,000 curies of noble gases every 24 hours when radioactive gases are being added to the WGDTs, and the WGDT monitor is not operable. The reason for the noble gas activity limit is to limit doses to individuals in the event of an uncontrolled release of the contents of a WGDT (see TS Bases 3/4.11.2.5 on page B 3/4 11-5). The licensee proposed amending TS 4.11.2.5.1 so that the quantity of radioactive material in each tank will only have to be determined when radioactive materials are being added to the WGDTs and when the gross concentration of radionuclides in the primary coolant is greater than 100 microcuries per milliliter.

The licensee's January 25, 1988 letter demonstrates that the quantities of noble gases in each WGDT will be less than the TS limit of 52,000 curies when the gross concentration of radionuclides in the primary coolant is less than or equal to 100 microcuries per milliliter. In addition, the total body exposure to an individual located at the nearest exclusion boundary for two hours immediately following the onset of a release from one of the WGDTs will not exceed 0.5 rem. We therefore find the proposed change to TS 4.11.2.5.1 acceptable.

ENVIRONMENTAL CONSIDERATION

This amendment changes a requirement with respect to the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20 and changes surveillance requirements. The 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 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 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: April 7, 1988

Principal Contributor: Edward F. Branagan