

January 25, 1977

Docket No.: 50-334

Duquesne Light Company
ATTN: Mr. C. N. Dunn, Vice President
Operations Division
435 Sixth Avenue
Pittsburgh, Pennsylvania 15219

Gentlemen:

The Commission has issued the enclosed Amendment No. 7 to Facility Operating License No. DPR-66 for the Beaver Valley Power Station Unit No. 1. This amendment consists of changes to the Appendix B Technical Specifications in response to your request dated October 11, 1976.

This amendment revises the provisions in the Technical Specifications relating to Beaver Valley's Radiological Environmental Monitoring Program. Specifically the amendment (1) deletes redundant gamma isotopic analysis of drinking water samples (2) adds a Sr-89 analysis of sediment samples, and (3) updates the summary of the preoperational environmental surveillance results (Table 3.2-4) to include data from 1975.

The existing Beaver Valley Technical Specifications require gamma isotopic analysis of the weekly composite of daily water samples taken from the downstream drinking water supplies. Also, a gamma isotopic analysis is required to be performed on the monthly composite of the same daily samples. These weekly and monthly gamma isotopic analyses are redundant and do not provide any additional data on radioactivity in the drinking water. Therefore, we conclude that deleting the gamma analysis on the monthly composite does not alter the effectiveness of the water sampling program and is acceptable.

Beaver Valley has had difficulty in the past in obtaining representative benthic samples from the required sampling location for sediment and benthic organisms. The existing Technical Specifications require Sr-89 analysis on the benthic samples but not on the sediment samples. We conclude that adding Sr-89 analysis for sediment samples provides a mechanism for determining any increases in Sr-89 levels in the aquatic environment when benthic samples are not available and is therefore acceptable.

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Docket

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1 R*

Beaver Valley achieved initial criticality on May 5, 1976. The results of the Environmental Radiological Monitoring Program for 1975 are considered as preoperational data. Therefore, we conclude that the request to update Table 3.2-4, "Summary of Preoperational Environmental Surveillance Results", to include the data from 1975 is acceptable.

We have evaluated the potential for environmental impact of plant operation in accordance with the enclosed amendment and have determined that the amendment does not authorize a change in effluent types or total amounts nor an increase in power level, and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendment involves an action which is insignificant from the standpoint of environmental impact and pursuant to 10 CFR §51.5(d)(4) that an environmental impact statement, or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

Since the amendment applies only to administrative details, sampling frequencies and techniques, it does not involve significant new safety information of a type not considered by a previous Commission safety review of the facility. It does not involve a significant increase in the probability of consequences of an accident, does not involve a significant decrease in a safety margin, and therefore does not involve a significant hazards consideration. We have also concluded that there is reasonable assurance that the health and safety of the public will not be endangered by this action.

A copy of the related Federal Register Notice is also enclosed.

Sincerely,

Robert W. Reid, Chief
Operating Reactors Branch #4
Division of Operating Reactors

Enclosures:

- 1. Amendment No. 7 to DPR-66
- 2. Federal Register Notice

OFFICE >	ORB#4:DOR.	ORB#4:DOR	C-ORB#4:DOR	ORB-07:DOR	OELD	
SURNAME >	RIngram ^M	PDiBenedetto	RReid	Barimes	<i>Eisenhart</i> 1/18/77	
DATE >	1/14/77	1/12/77	1/25/77	1/17/77	1/21/77	

Duquesne Light Company

cc w/enclosure(s):

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Duquesne Light Company

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dtd: 10/11/76
Governor's Office of State Planning
and Development
ATTN: Coordinator, Pennsylvania
State Clearinghouse
P. O. Box 1323
Harrisburg, Pennsylvania 17120**



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. 7
License No. DPR-66

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Duquesne Light Company, filed on behalf of itself, Ohio Edison Company and Pennsylvania Power Co. (the licensees) dated October 11, 1976, 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.

3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Robert W. Reid, Chief
Operating Reactors Branch #4
Division of Operating Reactors

Attachment:
Changes to the Technical
Specifications

Date of Issuance: January 25, 1977

ATTACHMENT TO LICENSE AMENDMENT NO. 7

FACILITY OPERATING LICENSE NO. DPR-66

DOCKET NO. 50-334

Revise the Appendix B Technical Specifications as follows:

Remove Pages

3-20
3-35 - 3-37

Insert Pages

3-20
3-35 - 3-37

Changes on the revised pages are shown by marginal lines.

TABLE 3.2-1 .

OPERATIONAL ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM FOR THE BEAVER VALLEY POWER STATION

Type of Sample	Sample Points	Sample Point Description	Sampling Frequency	Sample Preparation	Analysis Frequency	Analyses
Surface Water	2	Station discharge	Intermittent	Monthly Composite of Weekly Sample ^(b)	Quarterly Composite ^(b)	Y - scan H-3, Sr-89, Sr-90
	3	Shipping port station discharge				
	5	East Liverpool water plant (raw water)				
	49(a)	Upstream side of Montgomery Dam				
Drinking	4	Midland water plant (treated water)	Intermittent	Weekly Composite of Daily Sample ^(b)	Quarterly Composite ^(b)	Y-131 (Midland Water Plant only) Y - scan H-3, Sr-89, Sr-90
	5	East Liverpool water plant (treated water)				
Fish	2(a) 49(a)	Station discharge Upstream side of Montgomery Dam	Semiannual	Composite of edible parts by species ^(d)		Y - scan
Sediment and Benthic Organisms	2(a) 49(a)	Station discharge Upstream side of Montgomery Dam	Semiannual			Y - scan Sr-89 Sr-90
	50	Upstream side of New Cumberland Dam				
Groundwater	11	Shippingport, Pa.	Quarterly			Y - scan H-3
	13	Meyers Dairy farm				
	14	Hookstown, Pa.				
	15	Georgetown, Pa.				

TABLE 3.2-4

SUMMARY OF PREOPERATIONAL ENVIRONMENTAL
SURVEILLANCE RESULTS

1972 - 1975

<u>Environmental Medium</u> (Unit of Measurement)	<u>Nuclide</u>	<u>Median Value (M)</u>	<u>95th Percentile Value (N)</u>	<u>Reporting Level (M + 2N) or 10 x MDC</u>	
Surface Water (pCi/l)	Gross β	4.1	7.1	18.3	
	H-3	270	560	1390	
	Mn-54	<10	a	100	
	Fe-59	<20	a	200	
	Co-58,60	<10	a	100	
	Zn-65	<20	a	200	
	Sr-89	< 5	b	50	
	Sr-90	< 1	b	10	
	ZrNb-95	< 5	a	50	
	I-131	<10	a	100	
	Cs-134,137	<10	a	100	
	BaLa-140	<10	a	100	
	Drinking Water (pCi/l)	Gross β	3.4	6.0	15.4
		H-3	270	560	1390
Mn-54		<10	a	100	
Fe-59		<20	a	200	
Co-58,60		<10	a	100	
Zn-65		<20	a	200	
Sr-89		< 5	b	50	
Sr-90		< 1	b	10	
ZrNb-95		< 5	a	50	
I-131		< 0.5	b	5	
Cs-134,137		<10	a	100	
BaLa-140		<10	a	100	

TABLE 3.2-4 (continued)

SUMMARY OF PREOPERATIONAL ENVIRONMENTAL SURVEILLANCE RESULTS

1972 - 1975

<u>Environmental Medium</u> (Unit of Measurement)	<u>Nuclide</u>	<u>Median Value (M)</u>	<u>95th Percentile Value (N)</u>	<u>Reporting Level (M) + 2N) or 10 x MDC</u>	
Fish (pCi/Kg-wet)	Mn-54	<80	a	800	
	Fe-59	<160	a	1600	
	Co-58,60	< 80	a	800	
	Zn-65	<160	a	1600	
	Cs-134,137	< 80	a	800	
Sediment (pCi/g-dry)	Sr-90 ^c	0.05	0.08	0.21	
	Cs-137	0.28	0.78	1.84	
Ground Water (pCi/l)	Bross β^d	2.3	6.0	14.3	
	H-3	440	730	1900	
	Mn-54	<10	a	100	
	Fe-59	<20	a	200	
	Co-58,60	<10	a	100	
	Zn-65	<20	a	200	
	Sr-89	< 5	b	50	
	Sr-90	< 1	b	10	
	ZrNb-95	< 5	a	50	
	I-131	<10	a	100	
	Cs-134,137	<10	a	100	
	BaLa-140	<10	a	100	
	Soil (pCi-dry)	Sr-90	0.25	0.60	1.45
		Cs-137	1.4	3.8	9.0
	Milk (pCi/l)	Sr-89	< 5	a	50
Sr-90		4.8	9.7	24.2	
I-131		< 0.5	a	4.8	
Cs-134		<10	a	100	
	Cs-137	<10 (4) ^e	16	36	

TABLE 3.2-4 (continued)

SUMMARY OF PREOPERATIONAL ENVIRONMENTAL
SURVEILLANCE RESULTS

1972 - 1975

<u>Environmental Medium</u> (Unit of Measurement)	<u>Nuclide</u>	<u>Median Value (M)</u>	<u>95th Percentile Value (N)</u>	<u>Reporting Level (M + 2N) or 10 x MDC</u>
Airborne Particulates	Gross β	0.07	0.23	0.53
and	Sr-89	<0.005	b	0.05
Gaseous Iodine (pCi/m ³)	Sr-90	<0.001	b	0.01
	I-131	<0.05	a	0.5
	Cs-134,137	<0.01	a	0.10
	BaLa-140	<0.01	a	0.10
Direct Radiation ^f (mR/day)	All	0.20	0.28	0.76
Feedstuffs and Summer Forage (pCi/kg-dry)	I-131	<150	a	1500
Food Crops (pCi/kg-dry)	I-131	< 150	a	1500

NOTES:

^a Nuclide was undetected in more than 95% of the preoperational samples; reporting level is ten times the nominal minimum detectable concentration (10 x MDC) listed in Table 3.2-5.

^b Analysis was 1) not performed in the preoperational program, or 2) performed with a higher MDC. Reporting level is ten times the normal minimum detectable concentration (10 x MDC) listed in Table 3.2-5.

^c Analysis was not performed routinely in the preoperational program. Results based on sampling in the first quarter only of 1973.

^d Excludes results of four samples taken from springs which were nearly dry and had an unusually high concentration of naturally-occurring K-40.

^e Value projected from probability plot.

^f 1974 - 1975.

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-334

DUQUESNE LIGHT COMPANY, ET AL

NOTICE OF ISSUANCE OF AMENDMENT TO FACILITY
OPERATING LICENSE

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 7 to Facility Operating License No. DPR-66, issued to Duquesne Light Company, Ohio Edison Company, and Pennsylvania Power Company (the licensees), which revised Technical Specifications for operation of the Beaver Valley Power Station Unit No. 1 (the facility) located in Beaver County, Pennsylvania. The amendment is effective as of its date of issuance.

The amendment revises the provisions of the Technical Specifications relating to Beaver Valley's Radiological Environmental Monitoring Program. Specifically, the amendment (1) deletes redundant gamma isotopic analysis of drinking water samples, (2) adds a Sr-89 analysis of sediment samples, and (3) updates the summary of the preoperational environmental surveillance results (Table 3.2-4) to include data from 1975.

The application for the amendment complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendment. Prior public notice of this amendment was not required since the amendment does not involve a significant hazards consideration.

The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR §51.5(d)(4) an environmental impact statement, or negative declaration and environmental impact appraisal need not be prepared in connection with issuance of this amendment.

For further details with respect to this action, see (1) the application for amendment dated October 11, 1976, and (2) Amendment No. 7 to License No. DPR-66. Both of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C. and at the Beaver Area Memorial Library, 100 College Avenue, Beaver, Pennsylvania.

A copy of item (2) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Operating Reactors.

Dated at Bethesda, Maryland, this 25th day of January 1977.

FOR THE NUCLEAR REGULATORY COMMISSION



Robert W. Reid, Chief
Operating Reactors Branch #4
Division of Operating Reactors