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SECTION V - A  
 1990 Annual Radiological Environmental Report  
 DUQUESNE LIGHT COMPANY

**ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM SUMMARY**

Name of Facility Beaver Valley Power Station Unit 1 and 2 Docket No. 50-334/50/412

Location of Facility Beaver, Pennsylvania Reporting Period Annual 1990  
 (County, State)

Medium of Pathway Sampled (Unit of Measurement)	Analysis and Total Number of Analysis Performed	Lower Limit of Detection (LLD)	All Indicator Locations ** Mean (f) ** Range	Location with Highest Annual Mean Name Distance and Directions	Annual Mean **Mean (f) **Range	Control Locations	Number of Nonroutine Reported Measurements***
						**Mean (f) **Range	
External Radiation (mR/day)	Gamma (44) (175 quarterly)	0.05	0.16(175/175) (0.12-0.19)	29, Beaver City Hosp 8.1 mi NE	0.19(4/4) (0.18-0.20)	Weirton, WV No. 48 0.15(4/4) (0.15-0.17)	0
	Gamma (44 annual)	0.05	0.15(44/44) (0.12-0.19)	84, Hancock Cty Children's Home 8.5 mi SW	0.19(1/1) --	0.14(1/1) --	0
Feed and Forage (pCi/g) (dry weight)	I-131 (12)	0.01	LLD	--	--	One Sample Location	-
	Sr-90 (4)	0.003	0.074(4/4) (0.048-0.11)	--	--	--	-
	Gamma (12)						
	Be-7	0.3	4.7(6/12) (0.41-11)	--	--	--	0
	K-40	0.5	21(12/12) (8.6-41)	--	--	--	0
	Th-228	0.08	0.21(4/12) (0.15-0.31)	--	--	--	0
Others	Table V.A.		LLD	--	--	--	-

\* Nominal Lower Limit of Detection (LLD)  
 \*\* Mean and range based upon detectable measurements only. Fraction of detectable measurements at specified locations is indicated in parentheses (f)  
 \*\*\* Nonroutine reported measurements are defined in Regulatory Guide 4.8 (MARCH 1975) and the Beaver Valley Power Station Specifications.



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL RESOURCES

SOUTHWEST REGION - FIELD OPERATIONS  
WATER QUALITY MANAGEMENT  
400 Waterfront Drive  
Pittsburgh, Pennsylvania 15222-4745  
(412) 442-4000 (answers 24 hrs.)

April 13, 1992

Mr. S. L. Pernick, Jr.  
Manager, Environmental Affairs  
Duquesne Light Company  
One Oxford Centre  
301 Grant Street  
Pittsburgh, PA 15279

RE: Corbicula (Asiatic Clam) Control  
Program  
Beaver Valley Power Station  
NPDES PA0025615  
Shippingport Borough  
Beaver County

Dear Mr. Pernick:

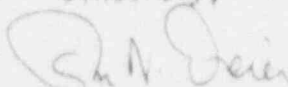
Your February 26, 1992 proposal to continue the use of Betz (CT-1) on an as-needed basis to control the asiatic clam in your water systems is hereby approved with the following conditions:

1. This approval is contingent on our understanding that clamtrol will be used to treat small subsystems of the plant rather than the entire facility. Since only small amounts of the material will be used, there will be no need to absorb residual product on clay. In order for us to evaluate usage on an as-needed basis, you are required to submit quarterly reports on the amount of product used and the dates and times of product addition. This information is to be recorded on the attached chemical additive monitoring report form. The reports are to be submitted to the attention of the Chief of the Permits Section.
2. Should it become necessary to treat either facility with a mega dose of the additive and the clay, you must notify the Department at least fourteen (14) days in advance. The applicable effluent limitations and monitoring requirements shall be similar to our April 10, 1991 and May 1, 1991 approvals. Any requests to treat the entire plant must include plans for conducting clam growth studies in the Ohio River before, during and after the dosing.

April 13, 1992

If you should have any questions regarding this approval or the conditions, please feel free to contact Karen Milcic or Tom Proch of my staff at 442-4000.

Sincerely,



Tim V. Dreier  
Acting Regional Manager  
Water Quality Management  
Southwest Region

TVD:KM:njh: r t

cc: Operations  
T. Proch  
K. Milcic

# DATA REPORTING FORM CHEMICAL ADDITIVES

Company Name: Duquesne Light Company

Permit No. PA 0025615

Outfall No. \_\_\_\_\_

Month Year \_\_\_\_\_

Day	Discharge rate (MGD)	Allowable usage rate (lbs/day)	Actual usage rate (lbs/day)	Effluent concentration (mg/l)*	Additive name
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
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21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					

Note: The discharge rate is to be measured at the final outfall.

\*If chemical analysis of the outfall is performed, report results in this column.

This form may be adapted for the recording and reporting of the small dosages of Clam-trol at the Beaver Valley Power Station.