

# Duquesne Light Company

Beaver Valley Power Station  
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May 6, 1991

JOHN D. SIEBER  
Vice President - Nuclear Group

14121 393-6266

U. S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555

Subject: Beaver Valley Power Station, Unit No. 1 and No. 2  
BV-1 Docket No. 50-334, License No. DPR-66  
BV-2 Docket No. 50-412, License No. NPF-73  
Control of Asiatic Clams

The purpose of this letter is to inform the NRC of our intent to utilize chemical additives in the river (service) water systems at both Unit No. 1 and No. 2 to control Asiatic Clams (*Corbicula fluminea*). The present schedule is to begin treatment in Unit No. 2 in the month of August, 1991.

The Unit No. 2 operating license defines in Appendix B the Environmental Protection Plan under which Unit No. 2 must operate. Therein it states that activities which may significantly affect the environment shall be evaluated to determine if an unreviewed environmental question exists. We have concluded, based on 1990 environmental studies conducted on Unit No. 1, that this process will not have a significant adverse environmental impact and, therefore, does not involve an unreviewed environmental question. This conclusion is supported in the attached report; "1990 Corbicula Control Program Environmental Fate and Effects Studies - Baseline, Spring and Fall Dosing Studies."

This report is being provided to inform the NRC of the results of the first phase pilot program studies on the chemical additive clam-trol (CT-1) and its detoxifying agent (DT-1) used in the river water system of Beaver Valley Unit No. 1 during 1990. Written approval to use this product in Unit No. 1 was received from the Pennsylvania Department of Environmental Resources (PA DER) on June 3, 1990. Written approval of the second phase of the pilot program was received from the PA DER on April 10, 1991. This includes use of the chemical additives in both units. There were no changes required to the NPDES Permit since these are pilot studies. If we intend to utilize this process as part of routine operations, we will file for a change to the NPDES Permit.

Three specific research studies were carried out in 1990: (1) a baseline study of conditions prior to addition of chemicals into the Unit 1 river water system, (2) a spring dosing study which continued for 40 days after CT-1 application, and (3) a fall dosing study of similar duration. The attached is a comprehensive report encompassing the data and results of the baseline, spring, and fall studies. Corroborating results from the three tiers of testing showed no measurable impact on the ecological integrity of the Ohio

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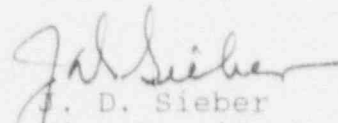
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River receiving system from CT-1 application in the plant or DT-1 detoxification of the effluent. The executive summary of the attached report provides a good synopsis of the 1990 program.

The 1991 research studies will be conducted in the fall and will be similar to the 1990 studies which employed a three-tiered approach utilizing formal laboratory toxicity testing, an onsite experimental stream facility, and biosurveys carried out in the river. Chemical applications in 1991 of CT-1:DT-1 will be limited to six per year per unit. Treatment will only be performed on an as-needed basis and would not occur simultaneously.

If you have any questions regarding this subject, please contact J. Wayne McIntire at (412) 393-5873.

Sincerely,

  
J. D. Sieber  
Vice President  
Nuclear Group

Attachment

cc: Mr. J. Beall, Sr. Resident Inspector  
Mr. T. T. Martin NRC Region I Administrator  
Mr. A. W. DeAgazio, Project Manager  
Mr. R. Saunders (VEPCO)