

November 15, 1984

Docket Nos. 50-254/265

Mr. Dennis L. Farrar
Director of Nuclear Licensing
Commonwealth Edison Company
Post Office Box 767
Chicago, Illinois 60690

Dear Mr. Farrar:

SUBJECT: REQUEST FOR INFORMATION -
NUCLEAR POWER PLANT BIOFOULING

Re: Quad Cities Station, Units 1 and 2

Several incidents have occurred in the past in which fouling of safety systems have occurred because of infestation by Asiatic clams and blue mussels by way of the cooling water system for these safety systems. IE Bulletin 81-03 (April 10, 1981) was forwarded to holders of both operating licenses and construction permits, requesting that the holders determine whether clams or mussels were present in the vicinity of the nuclear power station and that they describe the actions being taken to prevent and to correct fouling by clams or mussels.

Results of the IE Bulletin are documented in NUREG/CR-3054, "Closeout of Bulletin 81-03: Flow Blockage of Cooling Water to Safety System Components by Corbicula sp. (Asiatic Clam) and Mytilus sp. (Mussel)."

As a result of the incidents cited above, the staff established Generic Issue 51 (GI 51), "Proposed Requirements for Improving the Reliability of Open Cycle Service Water Systems" to address means for detecting the presence of fouling agents and for controlling these agents so that no serious failures would result from any infestations. As part of this effort, a survey of selected plants is being done to determine whether plants with high biofouling potential are aware of the risks of biofouling and whether these plants have implemented effective surveillance and/or control strategies designed to prevent biofouling so as to minimize the risk of plant damage while GI 51 is being completed. Two survey questions are enclosed. Please respond within 90 days of receipt of this letter. Other than responding to these questions, no additional action is required on your part.

Please feel free to contact your project manager, Roby Bevan, if you have any questions.

Mr. Dennis L. Farrar

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The reporting and/or recordkeeping requirements contained in this letter affect fewer than ten respondents; therefore, OMB clearance is not required under P.L. 96-511.

Sincerely,

Original signed by/

Domenic B. Vassallo, Chief
Operating Reactors Branch #2
Division of Licensing

Enclosure:
As stated

cc w/enclosure:
See next page

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Mr. Dennis L. Farrar
Commonwealth Edison Company
Quad Cities Nuclear Power Station, Units 1 and 2

cc:

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ENCLOSURE

QUESTIONS REGARDING SURVEILLANCE AND CONTROL METHODS

1. Discuss in detail, the surveillance methods that are being used to detect the presence of asiatic clams and/or mussels in the plant water supplies, fire protection systems, and systems which provide cooling for safety related systems.
2. Discuss, in detail, the methods being used to control asiatic clams and/or mussels in the plant water supplies and systems in question 1. Discuss the consideration given to systems required to mitigate transients and/or accidents where those systems are not used during normal operation. Discuss the consideration given to protect heat transfer surfaces from clam and/or mussel infestation.