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January 13, 1983

Mr. Richard J. Kiessel
Engineering & Technical Support Branch
Office of Inspection & Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Copy: R. L. Baer w/encl.
W. Laudan w/encl.

Reference: NRC Contract No. 05-80-251
PAR: NRC-IE-80/81, Task 15

Subject: IE Bulletin 81-03
"Flow Blockage of Cooling Water to
Safety Related System Components by
Asiatic Clams and Mussels"

Clarification of Requests for
Additional Information

Dear Mr. Kiessel:

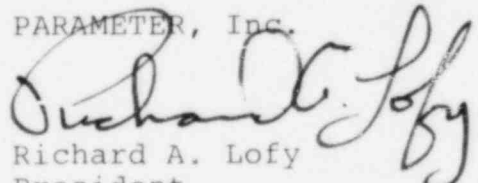
Pursuant to your telephone authorizations of January 3 and January 10, our Consulting Biologist, Mr. Larry LaJeone contacted Baltimore Gas & Electric (Dr. Elizabeth Bauereis) and Houston Lighting & Power (Mr. Phillip Walker); to respond to their questions relative to the subject IEB follow-up.

His memos of January 4 and January 10 summarizing the discussions are enclosed for your records.

If there are any questions, please do not hesitate to call the writer. If you would like to talk to Mr. LaJeone, I will have him call you directly.

Very truly yours,

PARAMETER, Inc.


Richard A. Lofy
President

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Enclosures

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MEMORANDUM

To: Richard Lofy

Date: 4 January 1983

From: Larry LaJeune *LJ*

Re: NRC Task No. 15
IEB 81-03 Request for
Additional Information

As a result of NRC's issuance of our Requests for Additional Information in regard to IEB 81-03, several questions were posed by Baltimore Gas & Electric with respect to definitions of terms before they could respond to the request for Calvert Cliffs I & II. I spoke with Dr. Elizabeth Bauereis of BG & E this afternoon and reviewed our request for additional information with her.

The first question was in regard to the definition of "intrusion potential". I told Dr. Bauereis that it was my interpretation that intrusion potential refers to the probability or possibility of larval or adult forms of either fouling mussel to enter safety related cooling system components under worst case conditions, regardless of whether or not either species is now or is anticipated to occur in the Plant vicinity. She said that she understood and will respond accordingly but that the salinity regime at Calvert Cliffs precludes the occurrence of either species.

Her second question was with respect to our request for information on preventative measures planned or currently in use. I told her that BG&E's initial response only stated that heat exchangers were examined and mechanically cleaned on a quarterly basis. This activity is viewed as a corrective or maintenance measure, not preventative. I suggested that she contact Plant operating personnel to determine whether other safety system components are equipped with differential flow monitoring equipment and if piping, valve housings, and water boxes were also visually inspected along with the heat exchangers. At present there are no preventative measures for primary cooling systems and gaseous chlorine is not allowed for biofouling control. BG & E is utilizing hypochlorite as a preventative in their auxiliary cooling systems. I asked that Dr. Bauereis provide a description of that system, giving application frequency and dose concentrations. She said that BG & E would try to provide these data in their response and thanked me for clarifying these points in question.

Our conversation went quite smoothly and I believe that she will respond to our request for additional information to the best of her ability.

MEMORANDUM

To: Richard Lofy

Date: 10 January 1993

From: Larry LaJeone

Re: NRC Task No. 15
IEB 81-03 Request for
Additional Information

As per your instructions, today I contacted Mr. Phillip Walker of Houston Lighting & Power regarding our request for additional information for South Texas Units I and II. His principal question was with respect to item 3(a) of the "request" which simply stated that additional monitoring of the cooling reservoir should be conducted prior to plant operation to determine the extent of Corbicula sp. infestation. He wanted to know if we would be recommending a monitoring program or detailing a study design that would be acceptable to NRC. I told him that it was neither our purpose or intent to make any such recommendations on behalf of NRC, but that we did feel it was in HL&P's best interest to periodically assess the clam population in their cooling reservoir prior to plant operation to be aware of the biofouling potential before problems developed. I further stated that unless HL&P was obligated to perform biological monitoring through Tech. Specs., they really didn't have to do anything regarding item 3(a).

We also briefly discussed item 1.(4b) of the "request" and I suggested that HL&P provide a description of planned performance monitoring to be implemented following plant operation. Such a description should detail which safety system components will have performance sensing equipment and which components will be inspected manually and at what frequency.

Mr. Walker was most appreciative of our prompt response and willingness to discuss the additional information requests. He also inquired whether other utilities had been asked to provide additional information and I said that we had prepared similar requests for a number of licensees but that I was unaware if all of them had been distributed by NRC.