



LAP-83-13

Carolina Power & Light Company

February 8, 1983

Director, Office of Inspection and Enforcement
Attention: Mr. Edward L. Jordan, Director
Division of Engineering and Quality Assurance
United States Nuclear Regulatory Commission
Washington, DC 20555

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2
DOCKET NO. 50-261
LICENSE NO. DPR-23
IEB 81-03 - FLOW BLOCKAGE OF COOLING WATER
TO SAFETY COMPONENTS BY CORBICULA AND MYTILUS
REQUEST FOR ADDITIONAL INFORMATION

Dear Mr. Jordan:

Carolina Power & Light Company (CP&L) has received your letter dated December 10, 1982, regarding our response to IEB 81-03 for the H. B. Robinson Steam Electric Plant Unit 2 (HBR2). Your requests, with our response to each item, follow:

NRC Request

"Please provide definition of "black water" and "naturally occurring low pH."

CP&L Response

Black water contains Tannic Acid from decaying organic material and has a pH of 4.5 to 5.5.

NRC Request

"Please provide an assessment of intrusion potential should Corbicula sp. become established in the local environment."

CP&L Response

The results of nine consecutive years of biological monitoring indicate that Corbicula fluminea are not present in Robinson Impoundment, the primary cooling water source for HBR2. Since this

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clam has already invaded and established populations in most of the major drainages in the southeast, we believe that naturally occurring environmental factors have prevented C. fluminea from becoming established (possibly the low alkalinity waters.)

Biofouling of power plants typically occur when large clam populations become established. If C. fluminea eventually become established in Robinson Impoundment waters, it appears likely that populations would remain low as is the case with other mollusk inhabiting low alkaline waters.

The regular biological sampling conducted by CP&L is capable of detecting the establishment of C. fluminea populations. The HBR2 presently is equipped with chlorination equipment capable of controlling clam populations if it becomes necessary.

If you have any further questions regarding this matter, please contact a member of the Nuclear Licensing Staff.

Your very truly,

R. E. Lumsden
for B. J. Furr
Vice President
Nuclear Operations

DCW/pgp (6169DCW)

cc: Mr. J. P. O'Reilly (NRC-RII)
Mr. G. Requa (NRC)
Mr. Steve Weise (NRC-HBR)