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May 16, 1984

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Director of Nuclear Reactor Regulation
Attention: Mr. G.W. Knighton, Chief
Licensing Branch No. 3
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

SUBJECT: Waterford 3 SES
Docket No. 50-382
Additional Information on NPIS Basemat Cracks

Dear Sir:

A technical review meeting was held on March 26, 1984 in Bethesda, Md. to discuss the Nuclear Plant Island Structure Basemat and the hairline cracks observed in the top of the basemat. This meeting was continued on March 27, 1984 at the Waterford 3 site. During the site tour a number of hairline cracks were observed on the vertical surfaces of the ring wall and cooling tower storage pool wall.

LP&L agreed at the meeting to mapping of the vertical cracks and to initiate a review by Ebasco and Harstead Engineering Associates (HEA) to develop conclusions as to the origin of the hairline cracks and their significance to, or interrelationship with, the basemat cracks.

Following the meeting, Ebasco was instructed to prepare maps showing the location of the vertical hairline cracks and to evaluate the significance. This report, Attachment I, was transmitted to HEA for their subsequent review and development of an independent position on the significance of the hairline cracks. The HEA report is included as Attachment II.

Both Ebasco and HEA have concluded that the hairline cracks on the vertical surfaces are drying shrinkage cracks and not a result of any loading mechanism. The conclusion is "...it is concluded that a structural inter-relationship cannot be established between cracks on surfaces of wall and basemat."

If you have any questions concerning the attached report, please contact me.

Yours very truly,

K. W. Cook
Nuclear Support & Licensing Manager

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cc: E.L. Blake, W.M. Stevenson, J.T. Collins, D.M. Crutchfield, J. Wilson
G.L. Constable

ATTACHMENT I