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MIDDLE SOUTH
UTILITIES SYSTEM

November 7, 1984

W3P84-3142
3-A1.16.07
A4.05

Director of Nuclear Reactor Regulation
ATTN: Mr. Dennis M. Crutchfield, Asst. Director
for Safety Assessment
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

SUBJECT: WATERFORD 3 SES
ADDITIONAL INFORMATION ON BASEMAT
HAIRLINE CRACKS

- References:
1. Letter W3P84-3044, K. W. Cook to D. M. Crutchfield, dated October 26, 1984.
 2. Letter, D. M. Crutchfield to J. M. Cain dated October 19, 1984.

Dear Mr. Crutchfield:

The purpose of this letter is to supplement the additional information, provided in Reference 1, in response to the requests in your letter of October 19, 1984.

A report detailing the ultrasonic testing results on the hairline cracks in the basemat, performed by Muenow and Associates, was submitted by Reference 1 for staff review. On November 2, 1984, the NRC staff requested LP&L to provide larger scale diagrams indicating the location and depth of the hairline cracks for Staff and Brookhaven National Laboratory (BNL) review. These are being prepared by Muenow and Associates and will be provided under separate cover. These diagrams include the conservative data interpretation included in the report as well as a best estimate of depth and extent of cracks based on engineering judgement of Muenow and Associates.

In Reference 1, LP&L provided a review of Ebasco of the ultrasonic test results to evaluate the structural significance of the hairline cracks. This review was, of necessity, limited in scope and depth due to the proximity of the submittal due date and availability of the ultrasonic test report for LP&L and Ebasco review. Since the initial submittal, LP&L and Ebasco have met with the NRC Staff to review the Ebasco report and discuss additional issues which should be addressed in the report. Additionally, LP&L has retained Professor M. J. Holley, Jr., of MIT, to assist in development and presentation of an evaluation of the structural significance of the hairline cracks and conclusion on the capability of the basemat to perform its design function. The initial Ebasco report has been expanded and restructured and a revised version is attached.

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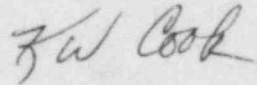
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Mr. D. M. Crutchfield
W3P84-3142
November 6, 1984

LP&L is firmly convinced that the ultrasonic testing results and evaluations performed by Ebasco and LP&L's consultants all support the fact that the hairline cracks have no adverse affects on the structural integrity of the basemat and that it has and will continue to function per the design requirements.

If you have any questions regarding the transmittal please call.

Very truly yours,



K.W. Cook
Nuclear Support & Licensing Manager

KWC:sms

ATTACHMENT

cc: E.L. Blake (NRC), G.L. Constable (NRC), W.M. Stevenson, J.T. Collins (NRC),
J.H. Wilson (NRC)