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March 20, 1987

W3P87-0951
A4.05
QA

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

SUBJECT: Waterford SES Unit 3
Docket No. 50-382
Reactor Physics Method Topical Report

REFERENCES: (1) W3P86-3328 dated October 1, 1986
(2) NRC Reload Analysis Report SER
dated January 16, 1987
(3) NRC letter from Robert A. Clark et al
to William Cavanaugh, dated August 11, 1982

Gentlemen:

By the Reference (1) letter LP&L submitted several documents to support the Cycle 2 reload for Waterford 3. This submittal was reviewed and approved by the NRC in Reference (2). However, Reference (2) did not explicitly address Attachment 4 to Reference 1 - MSS-NAL-P Supplement 1 - "Qualification of Reactor Physics Methods for Applications to Pressurized Water Reactors of the Middle South Utilities System".

Supplement 1 to MSS-NAL-P demonstrates that the reliability factors presented in MSS-NAL-P are appropriate for application to physics parameters determined by Middle South Services (MSS) in support of Waterford 3. This supplement extends the model validation presented in MSS-NAL-P for Arkansas Nuclear One Units 1 and 2 to Waterford 3. In the 1982 safety evaluation report of MSS-NAL-P (Reference 3), the physics methods and reliability factors were not approved for Waterford 3 application because comparisons of predictions to Waterford 3 measurements were not available when the original report was submitted by LP&L. This supplement provides comparisons between measurements and predictions for Waterford 3 and establishes the reliability factors appropriate for Waterford 3 application.

By submitting Supplement 1 to MSS-NAL-P with Reference (1) LP&L intended that it receive NRC review as part of the overall Cycle 2 reload package.

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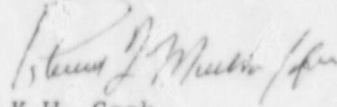
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Acc 1/10 Add: Rich Emch

Because we expect to reference this document for future reloads, we request that the NRC complete its review of MSS-NAL-P Supplement 1 and issue a safety evaluation report.

Should you require further information on this matter, please contact Mike Meisner at (504) 595-2832.

Yours very truly,

A handwritten signature in dark ink, appearing to read "K.W. Cook", is written over a horizontal line.

K.W. Cook
Nuclear Safety and Regulatory
Affairs Manager

KWC/MJM/plm

cc: E.L. Blake, W.M. Stevenson, G.W. Knighton, J.H. Wilson, R.D. Martin,
L. Kopp, NRC Resident Inspector's Office (W3)