ENTERGY

Entergy Operations, Inc.
P.O. Box 31995
Jackson, MS 39286-1995
Tel 601-984-9390

Fred W. Titus
Vice President
Engineering

September 23, 1994

U.S. Nuclear Regulatory Commission
Mail Station P1-137
Washington, D.C. 20555

Attention: Document Control Desk

SUBJECT: Request For Review of Entergy Topical Report Verification of CECOR Coefficient Methodology for Application to Pressurized Water Reactors of the Entergy System, (ENEAD-02-NP, Revision 0)

Arkansas Nuclear One Unit 2
Docket No. 50-368
License No. NPF-6

Waterford 3 Steam Electric Station
Docket No. 50-382
License No. NPF-38

CNRO-94/00021

Gentlemen:

Entergy Operations, Inc. is submitting by this letter for your review and approval the attached topical report. This report describes the methodology used at Entergy Corporation to determine the library coefficients and the resultant "reliability factors" associated with the Entergy CECOR core power distribution monitoring computer program. The results contained in this document were derived from extensive benchmarking efforts performed by Entergy personnel on two Entergy pressurized water reactors: Arkansas Nuclear One - Unit 2 (ANO-2), and the Waterford Steam Electric Station - Unit 3 (WSES-3)

Entergy Operations provides cycle specific data libraries to ANO-2 and WSES-3 for the CECOR core power distribution monitoring program based on the NRC approval of

Verification of CECOR Coefficient Methodology for Application to Pressurized Water Reactors of the Middle South Utilities, MSS-NA3-P (Approved 8/30/85). In this report CECOR libraries were based on using the design computer codes, PDQ and EPRI-NODE-P. Entergy Operations now proposes to use the design computer codes SIMULATE and CASMO to generate libraries for CECOR at ANO-2 and WSES-3. The benefits from using the new codes are to: 1) allow the use of the same codes for all Entergy reactor units; 2) increase the ability to model more advanced core designs, and 3) reduce the reliability factors associated with the CECOR library generation process.

The CASMO and SIMULATE codes themselves have been approved by the NRC for use by at least one other utility, but this approval did not address EOI plants. In order to qualify these codes for generating CECOR libraries for Entergy PWRs, we have prepared this Entergy application specific topical report for your review.

Entergy Operations requests your review and approval of the attached topical report for use at ANO-2, and WSES-3. In order to meet our refueling schedules, we request your approval by October 1, 1995.

Sincerely,

FWT/egr
attachments
cc: (See Next Page)

cc:
Mr. R. P. Barkhurst, w/o
Mr. J. L. Blount, w/o
Mr. R. F. Burski, w/o
Mr. L. J. Callan, w/o
Mr. J. L. Colvin, w/o
Mr. C. B. Franklin, w/a
Mr. G. Kalman, w/a
Mr. H. W. Keiser, w/o
Mr. R. B. Lang, w/a
Mr. L. W. Laughlin, w/a
Mr. R. B. McGehee, w/o
Mr. J. L. Milhoan, w/o
Mr. D. C. Mims, w/o
Mr. F. T. Philpott, w/a
Mr. N. S. Reynolds, w/o
Mr. J. C. Roberts, w/o
Mr. D. W. Vinci, w/o
Mr. D. L. Wigginton, w/a
Mr. J. W. Yelverton, w/o
DCC (ANO)
Records Center (WF-3)
Corporate File [ ]