



WILLIAM T. COBLE  
Vice President  
Nuclear Operations

October 31, 1989

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

Attention: Document Control Desk

Gentlemen:

SUBJECT: Grand Gulf Nuclear Station  
Unit 1  
Docket No. 50-416  
License No. NPF-29  
Response to Generic Letter 88-20,  
Supplement 1; Individual Plant  
Examination for Severe Accident  
Vulnerabilities  
AECM-89/0200

By Generic Letter No. 88-20, Supplement No. 1, dated August 29, 1989 the NRC announced the availability of NUREG-1335 and the commencement of the Individual Plant Examination (IPE) process. This letter requested that licensees provide their proposed IPE methodology and schedule 60 days after the subject Federal Register notice which was dated September 1, 1989.

The purpose of this letter is to provide the System Energy Resources, Inc. (SERI) 60 day response to Generic Letter 88-20. The performance of the IPE for the Grand Gulf Nuclear Station (GGNS) will be divided into two major subtasks as defined in Generic Letter 88-20. The core damage frequency analysis or Level 1 analysis will be performed using a methodology consistent with that contained in NUREG/CR-4550. Internal flooding will be included in the analysis. The examination of externally initiated events (i.e., internal fires, high winds/tornadoes, transportation accidents, external floods, and earthquakes) will be addressed upon receipt of NRC generic guidance for these events. The containment performance analysis or Level 2 analysis will be performed using a methodology consistent with the general guidance given in Appendix 1 of Generic Letter 88-20 and the final NUREG-1335 guidance document.

A GGNS detailed task plan including key milestones is currently under development. However, based on the preliminary task plan the GGNS IPE project is scheduled to start in January, 1990 and be completed (including submittal of results to the NRC) by June, 1992.

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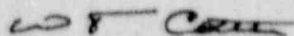
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GRAND GULF NUCLEAR STATION  
PORT GIBSON, MISSISSIPPI 39150 (601) 437-6809  
A Middle South Utilities Company

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This information is being provided under oath and affirmation pursuant to 10CFR50.54(f). If you have any questions, please contact this office.

Yours truly,



WTC:tkm

cc: Mr. D. C. Hintz  
Mr. T. H. Cloninger  
Mr. R. B. McGehee  
Mr. N. S. Reynolds  
Mr. H. L. Thomas  
Mr. H. O. Christensen

Mr. Stewart D. Ebnetter  
Regional Administrator  
U.S. Nuclear Regulatory Commission  
Region II  
101 Marietta St., N.W., Suite 2900  
Atlanta, Georgia 30323

Mr. L. L. Kintner, Project Manager  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Mail Stop 14B20  
Washington, D.C. 20555

BEFORE THE  
UNITED STATES NUCLEAR REGULATORY COMMISSION

\_\_\_\_\_  
LICENSE NO. NPF-29

\_\_\_\_\_  
DOCKET NO. 50-416

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IN THE MATTER OF  
MISSISSIPPI POWER & LIGHT COMPANY  
and  
SYSTEM ENERGY RESOURCES, INC.  
and  
SOUTH MISSISSIPPI ELECTRIC POWER ASSOCIATION

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AFFIRMATION

I, W. T. Cottle, being duly sworn, state that I am Vice President, Nuclear Operations of System Energy Resources, Inc.; that on behalf of System Energy Resources, Inc., and South Mississippi Electric Power Association I am authorized by System Energy Resources, Inc. to sign and file with the Nuclear Regulatory Commission, this response to Generic Letter 88-20 for the Grand Gulf Nuclear Station; that I signed this response as Vice President, Nuclear Operations of System Energy Resources, Inc.; and that the statements made and the matters set forth therein are true and correct to the best of my knowledge, information and belief.

W. T. Cottle  
W. T. Cottle

STATE OF MISSISSIPPI  
COUNTY OF CLAIBORNE

SUBSCRIBED AND SWORN TO before me, a Notary Public, in and for the County and State above named, this 31 day of October, 1989.

(SEAL)

Patricia Hoaghegan  
Notary Public

My commission expires:

My Commission Expires July 1, 1993  
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