



OLIVER D. KINGSLEY, JR.  
Vice President  
Nuclear Operations

September 29, 1988

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  
NRC Bulletin 88-08: Thermal  
Stresses in Piping Connected  
to Reactor Coolant Systems  
AECM-88/0187

On July 1, 1988 System Energy Resources, Inc. (SERI) received NRC Bulletin (NRCB) 88-08, "Thermal Stresses in Piping Connected to Reactor Coolant Systems." NRC Bulletin 88-08 requests that licensees (1) review their reactor coolant pressure boundary (RCPB) to identify any connected, unisolable piping that could be subjected to temperature distributions which would result in unacceptable thermal stresses and (2) take action, where such piping is identified, to ensure that the piping will not be subjected to unacceptable thermal stresses.

SERI's evaluation of NRCB 88-08 for Grand Gulf Nuclear Station (GGNS) Unit 1 is complete. Responses to the requested actions of NRCB 88-08 are contained in the attachment to this letter. SERI's evaluation of NRCB 88-08 for GGNS Unit 2 will be completed upon recommencement of construction activities.

If you have any questions concerning SERI's response to NRCB 88-08, please advise.

Yours truly,

ODK:ctp  
Attachment

cc: (See Next Page)

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A Mid-South Utility Company

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cc: Mr. T. H. Cloninger (w/a)  
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Mr. H. L. Thomas (w/a)  
Mr. J. L. Mathis (w/a)

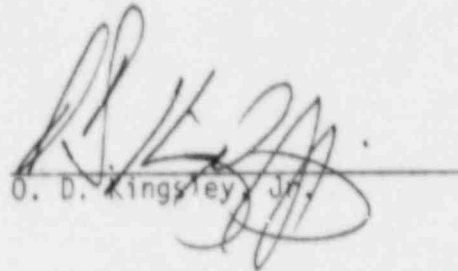
Dr. J. Nelson Grace, Regional Administrator (w/a)  
U. S. Nuclear Regulatory Commission  
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Mr. L. L. Kintner, Project Manager (w/a)  
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AFFIDAVIT

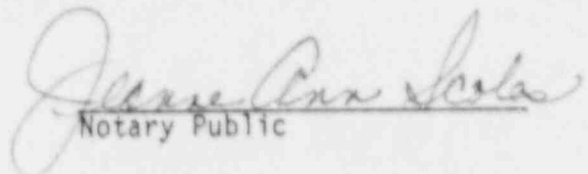
STATE OF MISSISSIPPI  
COUNTY OF HINDS

O. D. Kingsley, Jr., being duly sworn, states that he is Vice President - Nuclear Operations, of System Energy Resources, Inc.; that he is authorized on the part of said Company to sign and file with the Nuclear Regulatory Commission this response to NRC Bulletin No. 88-08 on behalf of the Company and South Mississippi Electric Power Association; that he signed the foregoing letter 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 his knowledge, information and belief.

  
O. D. Kingsley, Jr.

SUBSCRIBED AND SWORN TO before me, a Notary Public, in and for the County and State above named, this 29th day of September, 1988.

(SEAL)

  
Notary Public

My commission expires:

My Commission Expires Sept. 21, 1991  
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SERI RESPONSE TO NRC BULLETIN NO. 88-08

Action 1) Review systems connected to the reactor coolant pressure boundary (RCPB) to determine whether unisolable sections of piping connected to the RCPB can be subjected to stresses from temperature stratification or temperature oscillations that could be induced by leaking valves and that were not evaluated in the design analysis of the piping. For those addressees who determine that there are no unisolable sections of piping that can be subjected to such stresses, no additional actions are requested except for the required report.

Response: SERI reviewed systems connected to the RCPB to determine if unisolable sections of piping connected to the RCPB would be subjected to stresses from temperature stratification or temperature oscillations induced by leaking block valves. SERI did not identify any areas that will be subjected to these stresses since normal reactor operating pressure is higher than most system pressures. The High Pressure Core Spray (HPCS) system is capable of developing a higher pressure than normal reactor pressure, but a review of system testing procedures shows that testing is performed at system pressures well below reactor pressure.

SERI has determined that no unisolable RCPB piping at Grand Gulf Nuclear Station Unit 1 is subjected to stresses induced by temperature stratification or oscillations as described by NRC Bulletin 88-08. Therefore no further action is required regarding NRC Bulletin 88-08.