

Docket No. 50-458

FEB 27 1985

Mr. William J. Cahill, Jr.
Senior Vice President
River Bend Nuclear Group
Gulf States Utilities Company
Post Office Box 2951
Beaumont, Texas 77704
ATTN: Mr. J. E. Booker

Dear Mr. Cahill:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION - TMI ACTION ITEM II.K.3.28

As a part of the NRC staff's review of your submitted information on TMI Action Item II.K.3.28, "Verify Qualification of Accumulators on Automatic Depressurization System Valves", for River Bend Station, the staff has determined the need for additional information. This information request is included in the enclosure.

Please provide this information within 45 days of the date of this letter. NRC Project Manager Steve Stern is available to provide clarification or further discussion on this topic.

Sincerely,

Original signed by:

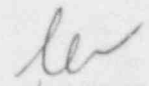
A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing

Enclosure: As stated

cc: See next page


Distribution:

Docket File
NRC PDR
Local PDR
PRC System
NSIC
LB#2 Reading
EHylton
SStern
EJordan
NGrace
LDewey, OELD
ACRS (16)
JLombardo


LB#2/DL/PM

SStern:1b

02/22/85


LB#2/DL/BC

ASchwencer

02/27/85

8503070605 850227
PDR ADOCK 05000458
A PDR



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

FEB 27 1985

Docket No. 50-458

Mr. William J. Cahill, Jr.
Senior Vice President
River Bend Nuclear Group
Gulf States Utilities Company
Post Office Box 2951
Beaumont, Texas 77704
ATTN: Mr. J. E. Booker

Dear Mr. Cahill:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION - TMI ACTION ITEM II.K.3.28

As a part of the NRC staff's review of your submitted information on TMI Action Item II.K.3.28, "Verify Qualification of Accumulators on Automatic Depressurization System Valves", for River Bend Station, the staff has determined the need for additional information. This information request is included in the enclosure.

Please provide this information within 45 days of the date of this letter. NRC Project Manager Steve Stern is available to provide clarification or further discussion on this topic.

Sincerely,

A handwritten signature in cursive script, appearing to read "A. Schwencer".

A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing

Enclosure: As stated

cc: See next page

River Bend Station

Mr. William J. Cahill, Jr.
Senior Vice President
River Bend Nuclear Group
Gulf States Utilities Company
Post Office Box 2951
Beaumont, Texas 77704
ATTN: Mr. J. E. Booker

cc: Troy B. Conner, Jr., Esq.
Conner and Wetterhahn
1747 Pennsylvania Avenue, N. W.
Washington, D.C. 20006

Ms. Linda B. Watkins/Mr. Steven Irving
Attorney at Law
355 Napoleon Street
Baton Rouge, Louisiana 70802

Mr. William J. Reed, Jr.
Director - Nuclear Licensing
Gulf States Utilities Company
Post Office Box 2951
Beaumont, Texas 77704

Mr. David Zaloudek
Nuclear Energy Division
Louisiana Department of
Environmental Quality
Post Office Box 14690
Baton Rouge, Louisiana 70898

H. Anne Plettinger
3456 Villa Rose Dr.
Baton Rouge, Louisiana 70806

Richard M. Troy, Jr., Esq.
Assistant Attorney General in Charge
State of Louisiana Department of Justice
234 Loyola Avenue
New Orleans, Louisiana, 70112

Mr. J. David McNeill, III
William G. Davis, Esq.
Department of Justice
Attorney General's Office
7434 Perkins Road
Baton Rouge, Louisiana 70808

Dwight D. Chamberlain
Resident Inspector
Post Office Box 1051
St. Francisville, Louisiana 70775

Gretchen R. Rothschild
Louisianians for Safe Energy, Inc.
1659 Glenmore Avenue
Baton Rouge, Louisiana 70775

James W. Pierce, Jr., Esq.
P. O. Box 23571
Baton Rouge, Louisiana 70893

REQUEST FOR ADDITIONAL INFORMATION
RIVER BEND STATION UNIT 1

2:

MULTI-PLANT ACTION F-55 OR TMI II.K.3.28
VERIFY QUALIFICATION OF ACCUMULATOR ON ADS VALVES

- 1) Based on the requirements of NUREG-0737 Item II.K.3.28, it is necessary to demonstrate that the ADS valves, accumulators, and associated equipment and instrumentation meet the requirements specified in the plant FSAR and are capable of performing their functions during and following exposure to hostile environments, taking no credit for non-safety-related equipment or instrumentation. Additionally, air (or nitrogen) leakage through the valves must be accounted for to assure that enough inventory of compressed gas is available to cycle the ADS valves. If this cannot be demonstrated, it must be shown that the accumulator design is still acceptable. Since this system is a part of the emergency core cooling system, it must still perform its function for the long-term period of 100 days following an accident.

You are requested to address in detail (a) how you meet this long-term capability requirement of 100 days following an accident or (b) the justification as to why a shorter time frame is sufficient long-term capability for your plant, or (c) provide a commitment and schedule for upgrading to the 100 day long-term capability requirement.

- 2) Define the number of times the ADS pneumatically controlled valve is capable of cycling using only the accumulator inventory at atmospheric pressure and at a specified percent (i.e., 70%) of drywell pressure, and the length of time these accumulators are capable of performing their function following an accident.
- 3) Describe the ADS accumulator system design and operation (e.g., trains, air supply, capacity, alarms and instrumentation and their location, etc.)
- 4) Define the basis for the allowable leakage criteria for the ADS accumulator system (e.g., boundary conditions, environmental and seismic parameters, operator interface, margin, etc.).
- 5) What margin is in the allowable leakage criteria to account for possible increase in leakage in the ADS accumulator system resulting from effects of a harsh environment and/or a seismic event?
- 6) A statement that test and/or analysis performed verified that a harsh environment and/or seismic event would not increase the leakage rate in the ADS accumulator system.
- 7) A statement that verifies that no credit was taken for non-safety-related equipment and instrumentation when establishing the allowable leakage criteria for the ADS accumulator system.

REQUEST FOR ADDITIONAL INFORMATION (CONT'D.)

- 8) Provide a concise description of the tests performed on the ADS accumulator system, and backup, and their frequency.
- 9) Provide a concise description of the surveillance performed, and how frequent, on alarms and instrumentation associated with the ADS accumulator system and backup system.
- 10) Provide a statement that confirms that the ADS accumulator system, backup system, and associated equipment and control circuitry, are seismically qualified.
- 11) Provide a statement that confirms that the ADS accumulator system, backup system, and associated equipment and control circuitry are environmentally qualified for conditions associated with normal operation, maintenance, testing, and postulated accidents.
- 12) Provide a statement verifying that the ADS valves, accumulators, backup system, associated equipment and instrumentation are capable of performing their function during and following an accident situation while taking no credit for non-safety-related equipment and instrumentation.
- 13) Excerpts from the plants technical specification verifying that they specify the following:
 - ADS leak test frequency
 - Allowable leakage rate
 - Actions to be taken, in a specified time frame, should the leakage rate be exceeded.
- 14) Provide a concise description of the design and operation of the backup system and confirm that it will meet the overall requirement of the ADS system following an accident.