

71
June 22, 1984

Docket No. 50-416

Mr. J. B. Richard
Senior Vice President, Nuclear
Mississippi Power & Light Company
P.O. Box 23054
Jackson, Mississippi 39205

Dear Mr. Richard:

Subject: Request for Additional Information Regarding MP&L
Application for Exemption to GDC 17, Appendix A
to 10 CFR 50, Submitted June 4, 1984

In our review of the subject application for exemption to the NRC rules, we have developed the enclosed request for additional information needed to complete our review.

Please amend your application for exemption to comply with the requests listed in the enclosure. Our review schedule is based on the assumption that the additional information will be available by July 6, 1984. If you wish clarification of the requests or if you cannot meet these dates, please advise L. L. Kintner (301) 492-7038.

The reporting and/or recordkeeping requirements contained in this letter affect fewer than ten respondents; therefore, OMB clearance is not required under P.L. 96-511.

Sincerely,

[Signature]
Elinor G. Adensam

Elinor G. Adensam, Chief
Licensing Branch No. 4
Division of Licensing

Enclosure:
As stated

cc: See next page

8506150048 850205
PDR FOIA
BELL84-459 PDR

18

GRAND GULF

Mr. J. B. Richard
Senior Vice President, Nuclear
Mississippi Power & Light Company
P.O. Box 23054
Jackson, Mississippi 39205

cc: Robert B. McGehee, Esquire
Wise, Carter, Child, Steen and Caraway
P.O. Box 651
Jackson, Mississippi 39205

Nicholas S. Reynolds, Esquire
Bishop, Liberman, Cook, Purcell
and Reynolds
1200 17th Street, N.W.
Washington, D. C. 20036

Mr. Ralph T. Lally
Manager of Quality
Middle South Energy, Inc.
225 Baronne Street
P.O. Box 61000
New Orleans, Louisiana 70161

Mr. Larry Dale, Director
Nuclear Licensing and Safety
Mississippi Power & Light Company
P.O. Box 23054
Jackson, Mississippi 39205

Mr. R. W. Jackson, Project Engineer
Grand Gulf Nuclear Station
Bechtel Power Corporation
Gaithersburg, Maryland 20760

Mr. Alan G. Wagner
Senior Resident Inspector
Route 2, Box 399
Port Gibson, Mississippi 39150

James P. O'Reilly, Regional Administrator
U.S. Nuclear Regulatory Commission,
Region II
101 Marietta Street, N.W., Suite 2900
Atlanta, Georgia 30323

ENCLOSURE

REQUESTS FOR ADDITIONAL INFORMATION REGARDING
MP&L APPLICATION FOR PARTIAL, TEMPORARY
EXEMPTION TO 10 CFR PART 50, APPENDIX A, CRITERION 17
SUBMITTED JUNE 4, 1984

1. In addition to GDC-17 several other General Design Criteria (GDC-33, 34, 35, 38, 41 and 44) address the need for both on-site and off-site power. Each of these additional GDCs should be addressed explicitly in your request for exemption. Also, GDC-1 and GDC-2 should be addressed in your request for exemption.
2. In the May 16th Shoreham Order, the Commission stated that "the applicant should include a discussion of its basis for concluding that, at the power levels for which it seeks authorization to operate, operation would be as safe under the conditions proposed by it, as operation would have been with a fully qualified onsite A/C power source." The MP&L exemption request compares operation at 5% power without the TDI diesels to operation at 100% power with TDI diesels. It does not address the criterion provided by the Commission in the Shoreham Order. The application should be amended to show that the proposed operating conditions are as safe as operation at 5% power with fully qualified TDI diesels available.
3. Item (3) in Attachment 2 states "As already noted, only 6 of the events analyzed in Chapter 15 require the assumption of the unavailability of offsite AC power operation." This statement is in direct contradiction to GDC-17. Although the Standard Review Plan does not explicitly address the assumption of the unavailability of offsite power for many transients, GDC-17 does not limit itself to a particular set of transients and accidents. A more appropriate statement might be that the specified acceptable fuel design limits would not be exceeded by assuming the unavailability of offsite power for those transients. Please confirm this is the case and revise your statement accordingly.
4. Item (3) of Attachment 2 discusses a LOCA analysis in which a film coefficient of $H=0.05 \text{ BTU/hr/ft}^2/^{\circ}\text{F}$ is used. Provide additional discussion which clarifies what this particular film coefficient is used for and when it is used.
5. Provide additional information concerning the boil-off calculation discussed in Attachment 2.

Items which should be addressed include:

- 1) Length of time RCIC is assumed to operate and water level at time RCIC is assumed to fail.
- 2) Details of the calculation of heat losses from the reactor vessel to drywell. In particular:
 - a) heat transfer coefficient(s) used and how obtained

- b) heat capacities for heat sinks in containment and how obtained
 - c) calculation of drywell temperature.
- 3) Decay heat
 - 4) Volume or mass of water above the top of the core.