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Docket Nos. 50-416/417

POOR ORIGINAL

Mr. J. P. McGaughy, Jr.
Assistant Vice President - Nuclear Production
Mississippi Power and Light Company
P.O. Box 1640
Jackson, Mississippi 39205

Dear Mr. McGaughy:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION - GRAND GULF NUCLEAR STATION,
UNITS 1 AND 2

As a result of our continuing Grand Gulf environmental review, we have developed the enclosed request for additional information. This request was developed as a result of information received in recent telephone conversations with members of your staff, indicating that the Ranney well system may not be functioning as previously expected and reported to us. Included are questions from the Environmental Engineering Branch and the Hydrologic and Geotechnical Engineering Branch.

We request that you amend your Environmental Report to reflect your responses to the enclosed request by December 12, 1980. If you cannot meet this date, please inform the Project Manager, Joseph A. Martore, of the date you can meet as soon as possible, so that we may consider the need to revise our review schedule.

Please contact us if you desire any clarification of the enclosed request.

Sincerely,

Original signed by
Robert L. Tedesco

Robert L. Tedesco, Assistant Director
for Licensing
Division of Licensing

Enclosure:
As stated

cc: See next page

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SURNAME	JMartore:cn	FMiraglia	RTedesco
DATE	11/12/80	11/10/80	11/10/80

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POOR ORIGINAL

Request for Additional Information
Environmental Review
Grand Gulf Nuclear Plant
Docket No. 50-416

371.07

The groundwater quality, as measured during testing of the Ranney wells, is apparently poorer than previously expected. Induced infiltration of Mississippi River water has seemingly not been achieved, due to high groundwater levels in the floodplain alluvium. Since groundwater levels, quality, and use differ from those parameters originally reported, we require the following additional information in order to assess the effects and impacts of the Ranney well system:

- a. Provide the results of the pumping tests performed on each of the Ranney wells. Information provided should include pumping rate, drawdowns and water levels in the pumped well and observation wells, and comparisons of water quality between the water withdrawn and the Mississippi River water.
- b. Provide analyses of the proportions and amounts of groundwater that will be withdrawn from the alluvial aquifer and the river under various conditions of groundwater levels and river levels. For each condition, discuss the expected differences in groundwater quality, as compared to the groundwater quality if induced infiltration were achieved.
- c. Discuss the cause of the abnormal groundwater levels. Provide rainfall records, analyses of groundwater levels and movement, and other pertinent data which support your conclusions.

- d. Discuss the adverse or beneficial effects of high groundwater levels on the Mississippi River, Hamilton Lake, Gin Lake, and other small nearby water bodies and streams.
- e. Identify the potential impact on plant facilities of the degraded water quality.

340.22
(3.6, 5.3)

- 1. Based on the current water quality of the service water makeup from the radial collector wells update tables 3.6.3, 5.3.3 through 5.3.6, and sections 3.6.1, 3.6.2, 5.1.4.5.3, 5.3.2.2, 5.3.2.3, and 5.3.3.

340.23

- 2. Provide a copy of the current NPDES permit for the Grand Gulf site. Also provide a short narrative of the current status of the NPDES renewal activities.