

Docket No. 50-416

July 27, 1992

Mr. William T. Cottle
Vice President, Operations GGNS
Entergy Operations, Inc.
Post Office Box 756
Port Gibson, Mississippi 39150

Dear Mr. Cottle:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION RELATED TO GROUNDWATER
LEVEL CONTROL AND MONITORING (TAC NO. M79323)

The staff is continuing its review of your submittal dated April 30, 1992,
in which you summarized the outstanding issues related to groundwater level
issues at the Grand Gulf Nuclear Station.

To permit us to continue our review on our current schedule, we require that
the information requested in the enclosure be provided within 60 days of your
receipt of this letter.

The reporting and/or recordkeeping requirements in this letter affect fewer
than 10 respondents; therefore, OMB clearance is not required under PL 96-511.

Sincerely,

ORIGINAL SIGNED BY

Paul W. O'Connor, Senior Project Manager
Project Directorate IV-1
Division of Reactor Projects - III/IV/V
Office of Nuclear Reactor Regulation

Enclosure:
As stated

cc w/enclosure:
See next page

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| Docket File | NRC & Local PDRs | PD4-1 Reading |
| P. Noonan | M. Virgilio | B. Boger |
| J. Larkins | PD4-1 Plant File | P. O'Connor |
| ACRS(10) | OGC (15B18) | L. Reyes, RII |

| | | | |
|------|--------------------|--------------------|----------|
| UFC | LA:PD4-1 <i>pm</i> | PM:PD4-1 <i>pm</i> | D:PD4-1 |
| NAME | PNoonan | PO'Connor | JLarkins |
| DATE | 7/24/92 | 7/27/92 | 7/27/92 |

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

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Entergy Operations, Inc.
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Sincerely,

A handwritten signature in cursive script that reads "Paul W. O'Connor".

Paul W. O'Connor, Senior Project Manager
Project Directorate IV-1
Division of Reactor Projects - III/IV/V
Office of Nuclear Reactor Regulation

Enclosure:
As stated

cc w/enclosure:
See next page

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Entergy Operations, Inc.

Grand Gulf Nuclear Station

cc:

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Enclosure

GRAND GULF NUCLEAR STATION (DOCKET NO.50-416)
GROUNDWATER MONITORING PROGRAM (TAC M79323)

REQUEST FOR ADDITIONAL INFORMATION

Based on the review of the report "Resolution of High Groundwater Levels at Grand Gulf Nuclear Station" and the licensee's response to the NRC Letter of August 6, 1991, we need additional information and clarification for the following items:

1. The licensee proposed to raise the design groundwater level (DGWL) from El. 109.0 ft above mean sea level to El. 114.5 ft for the Control Building and standby service water (SSW) basins and to El. 117.0 ft for the remaining safety related structures. The licensee stated that several studies and calculations since 1983 have been performed to justify raising of the DGWL, but no details and documentation of these studies have been presented. Please provide a summary of those studies and technical reports, including report titles, date of issuance, brief descriptions and documentations, for future reference and retrieval.
2. The licensee reported that the major sources of recharge to the groundwater at GGNS are infiltration from precipitation and leakage from the cooling tower. What is the probable maximum precipitation (PMP) rate that has been considered at the GGNS site? Is it consistent with the latest position of NRC Standard Review Plan Section 2.4.3, Revision 3, April 1, 1989? Although the cooling tower has been repaired and the leakage stopped at present, what is the basis to believe that leakage will not happen again in the future?
3. The licensee stated that no dewatering wells will be required to maintain groundwater levels below El. 114.5 ft adjacent to safety related structures. What necessary steps should be taken in case the groundwater level of El. 114.5 ft is exceeded? How can we monitor the groundwater level in the future if all the monitoring devices are removed?
4. Provide for comparison the following response spectra of design ground motion to demonstrate that additional evaluation of seismic structural design is not required for the new DGWL change:
 - (a) Spectra for the old DGWL El. 109.0 ft.
 - (b) Broadened (+/-15%) spectra for the old DGWL El. 109.0 ft.
 - (c) Spectra for the new DGWL El. 117.0 ft.