



**ENTERGY**

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W. T. Cottle  
Vice President  
Operations  
Grand Gulf Nuclear Station

April 30, 1992

U.S. Nuclear Regulatory Commission  
Mail Station P1-137  
Washington, D.C. 20555

Attention: Document Control Desk

Subject: Grand Gulf Nuclear Station  
Unit 1  
Docket No. 50-416  
License No. NPP-29  
Resolution of High Groundwater Levels

GNRO-92/00046

Gentlemen:

Grand Gulf Nuclear Station (GGNS) has monitoring and dewatering wells located around the power block and the Standby Service Water Basins. The purpose of the wells is to monitor and dewater the perched aquifer which underlies the power block. GGNS has experienced incidents where groundwater levels in excess of the current design basis value of 109.0 feet Mean Sea Level (MSL) have been reported.

On December 21, 1990 Entergy Operations, Inc. provided a status report on the efforts by GGNS to resolve the groundwater level issues at the site (reference: GNRO-90/00006, dated December 21, 1990). GGNS also committed to provide resolution of the groundwater issue by April 30, 1992.

The attached report summarizes the outstanding issues as they relate to the determination of groundwater exceedance problems at the GGNS; development of a post-construction groundwater level contour map; determination of the maximum expected post-construction groundwater level within the power block area; and actions that will be taken to resolve the high groundwater level problems at the site. Also, Appendix 1 to the attached report is provided in response to your August 6, 1990 "Request for Additional Information: Groundwater Level Control".

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April 30, 1992  
GNRO-92/00046  
Page 2 of 3

Entergy Operations feels that every effort has been made to ensure issues associated with groundwater have been adequately and effectively addressed. Following completion of the activities delineated in the attached, no further actions will be required to maintain the design basis groundwater level due to recharge from natural sources at the GGNS.

Yours truly,

*W. S. C. C. C.*

WTC/JS/mtc  
attachment:  
cc:

Mr. D. C. Hintz (w/a)  
Mr. J. L. Mathis (w/a)  
Mr. R. B. McGehee (w/a)  
Mr. N. S. Reynolds (w/a)  
Mr. H. L. Thomas (w/o)

Mr. Stewart D. Ebner (w/a)  
Regional Administrator  
U.S. Nuclear Regulatory Commission  
Region 11  
101 Marietta St., N.W., Suite 2900  
Atlanta, Georgia 30323

Mr. P. W. O'Connor, Project Manager (w/2)  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Mail Stop 13H3  
Washington, D.C. 20555

CERTIFICATION DOR FOR GNRO-92/00046

<u>GNRO Section</u>	<u>Organization Responsibility</u>
Cover Letter (all)	NS&RA
Final Report	
Section 1	N/E-Civil
Section 2	"
Section 3	"
Section 4	"
Section 5	"
Section 6	"
Section 7	"
Section 8	"
Section 9	"
Appendix 1, Question #1	"
Appendix 1, Question #2	"
Appendix 1, Question #3	NS&RA

# CONCURRENCE REVIEW FORM

## SECTION I

GNRO-92/00046 Rev. 0

RESPONSE DUE: 04/30/92  
(NRC Required or Target)

SUBJECT: Resolution of High Groundwater Levels

J. Summers  
NRC Document Preparer

Date

R. L. Patterson  
Responsible Section  
Manager/Supintendent

Date

## Commitment Concurrence

## SECTION II

Locations	Commitment	Responsible Organization Primary/Secondary	Due Date
Section VII.4, Para 3, Sen. 3	A visual inspection of the cooling tower will be performed ... to identify potential leakage paths that may exist	NPE-Civil	Each Refueling Outage
Section IX, Para 5, Sen. 2 & 3	The DGWL will be raised ... A UFSAR change will be submitted to reflect this change ...	NPE-Civil	06/93 12/93
Section IX, Para 5, Sen. 4	Studies and assessment will be incorporated into plant calculations	NPE-Civil	12/92
Section IX, Para 5, Sen. 5	Cooling tower leakage will be repaired during RF05	NPE-Civil	End of RF05
Section IX, Para 5, Sen. 6	Groundwater levels will be monitored in the future until sufficient data is available ...	NPE-Civil	10/31/92

This letter contains commitments requiring procedural implementation  
YES ( ) NO (X)