



ENTERGY

Entergy Operations, Inc.
PO Box 756
Fort Gibson, MO 64501
Tel 661 437-6406

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

January 24, 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
Quarterly Status Report for Period Ending December 31, 1991-
Degraded Core Accident Hydrogen Control Program

GNRO-92/00011

Gentlemen:

The Grand Gulf Nuclear Station (GGNS) Unit 1 Facility Operating License requires that Entergy Operations, Inc. submit quarterly reports on the status of the "Degraded Core Accident Hydrogen Control Program." In response to that requirement, Entergy Operations, Inc. submits the attached report covering the period October 1, 1991 through December 31, 1991.

Should you have any questions concerning this report, please contact Jewel Summers at (601) 437-2149.

Yours truly,

W. T. Cottle

WTC/JS/mtc

attachment: Quarterly Status Report for Period Ending December 31, 1991

cc: (See Next Page)

200080

A9011151/SN1ICFLR - 1

9201290268 920124
PDR ADDCK 05000416
R PDR

ADD

January 24, 1992
GNRO-92/00011
Page 2 of 3

cc: Mr. 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. Ebnetter (w/a)
Regional Administrator
U.S. Nuclear Regulatory Commission
Region II
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

Grand Gulf Nuclear Station
Docket No. 50-416
Entergy Operations, Inc.
Quarterly Status Report
for
Period Ending December 31, 1991
"Degraded Core Accident Hydrogen Control Program"

Quarterly Status Report
for
Period Ending December 31, 1991

"Degraded Core Accident Hydrogen Control Program"

1.0 Introduction

This quarterly status report is submitted to comply with the Grand Gulf Nuclear Station (GGNS) Unit 1 Operating License. This requirement specifies that Entergy Operations, Inc. should provide quarterly reports outlining the status of the ongoing research program to address degraded core hydrogen control requirements. This report covers the fourth calendar quarter of 1991, ending December 31, 1991.

This report includes brief summaries of submittals made by Entergy Operations this quarter, along with summaries of meetings between the NRC Staff and Entergy Operations. Entergy Operations is participating in the Hydrogen Control Owner Group (HCOG) which is conducting generic research and analyses to resolve the degraded core hydrogen control issue. Since the work completed by HCOG parallels Entergy Operations' program to resolve this issue, this report also includes summaries of meetings between the HCOG and the NRC. The meetings summarized in this report do not reflect a formal HCOG position with respect to any issue, but represent Entergy Operations' interpretation of those meetings.

2.0 Summary of Entergy Operations, Inc. Submittals

Entergy Operations made no submittals to the NRC on the Degraded Core Accident Hydrogen Control Program during this calendar quarter of 1991.

3.0 Summary of HCOG and NRC Meetings

No formal meetings were held between Entergy Operations or HCOG and the NRC during this quarter.

4.0 Hydrogen Control Program Status

The summaries and status of the Hydrogen Control Program as stated herein do not reflect the HCOG position with respect to any program, but represent Entergy Operations' interpretation of these programs.

The generic research and generic analyses conducted by HCOG to resolve the degraded core hydrogen control issue are complete. In accordance with this, the NRC issued a Safety Evaluation Report (SER) on the generic Hydrogen Control Program on August 10, 1990. The SER documented the NRC's review of the generic Hydrogen Control Program and delineated which issues were considered closed by the NRC and which required additional action by the HCOG and/or the individual utilities.

5.0 Status of Significant Issues

The Hydrogen Control Owners Group (HCOG) submitted documents HGN-137 and HGN-138, dated April 29 and 30, 1991, respectively, in response to NRC concerns in the Generic Mark III Containment Hydrogen Control Safety Evaluation Report (SER), issued August 10, 1990. The issues involve certain criteria for pressure survivability evaluations, acceptable accident sequences for Hydrogen Generation Events (HGEs), and the availability of containment sprays or unit coolers during an HGE.

The staff's initial reaction to the HCOG submittals was favorable. In July 1991, the staff indicated that review of these submittals had been initiated, and that the findings would be turned over to NRC Projects for disposition to HCOG members when the review was completed.

Recent conversations with the staff indicate that there has been no progress on the review of HCOG's submittals. HCOG still awaits formal NRC acceptance of these submittals so that HCOG may issue the Final Generic Hydrogen Control Accepted Topical Report. Issuance of the Topical Report is necessary to enable each HCOG member to submit its plant-specific Hydrogen Final Analysis, as required by 10CFR50.44.

6.0 Planned Activities for the First Quarter 1992

Following acceptable resolution of the above issues with the NRC, Energy Operations will review its schedule for submittal of the GGNS Final Hydrogen Control Report, identify the remaining work necessary for this submittal, and initiate work on the remaining plant-specific tasks.