



October 5, 1990

W. T. Cottle

Vice President
Operations
Grand Gulf Nuclear Station

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

Attention: Document Control Desk

Gentlemen:

SUBJECT: Grand Gulf Nuclear Station
Unit 1
Docket No. 50-416
License No. NPF-29
ADHRS Performance/Design Capability
and Information to Operations
AECM-90/0182

Entergy Operations, Inc. - Grand Gulf Nuclear Station (GGNS) recently received from the NRC Operating License Amendment No. 70 dated September 24, 1990. A portion of the amendment revised the Technical Specifications (TS) and Bases by adding requirements for the operation and use of the Alternate Decay Heat Removal System (ADHRS).

During the NRC review process for Amendment No. 70, a telephone conversation between NRC and Entergy Operations personnel occurred September 18, 1990. In that telephone call, Entergy Operations, Inc. - GGNS committed to provide information to the NRC concerning the process by which ADHRS performance expectations would be provided to the Outage Scheduling and Operations organizations. The following confirms that discussion.

Outage Scheduling Process

A series of calculations were performed to determine the thermal performance of the ADHRS as a function of time after reactor shutdown. The ADHRS calculated thermal performance information was provided both to Operations and Outage Scheduling. The thermal performance information was used to determine when in the fourth GGNS refueling outage ADHRS could be relied upon, either by itself or in conjunction with other systems such as the Reactor Water Cleanup System, to maintain the average reactor coolant temperature below the Operational Condition TS temperature limit prior to the ADHRS being placed into service.

Information to Operators

An Operations Department Standing Order was issued to the Shift Crews providing the calculated ADHRS thermal performance information so that the operators would be familiar with key parameters, such as heat removal capability and expected temperature performance for various times after shutdown.

The Shift Crews can use the calculated thermal performance information as a means for making decisions concerning the operation of the ADHRS. By this, operators would know that ADHRS demonstration or use at a given time is within its capacity.

Yours truly,

W. F. Cook

PRS/WTC:mtc

cc: Mr. D. C. Hintz
Mr. T. H. Cloninger
Mr. R. B. McGehee
Mr. N. S. Reynolds
Mr. H. L. Thomas
Mr. H. O. Christensen

Mr. Stewart D. Ebnetter
Regional Administrator
U.S. Nuclear Regulatory Commission
Region II
101 Marietta St., N.W., Suite 2900
Atlanta, Georgia 30323

Mr. L. L. Kintner, Project Manager
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Mail Stop 11D21
Washington, D.C. 20555