

# CATEGORY 1

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SUBJECT: Informs that revised schedule for completion of analysis for HPI sys injection lines is 980228, due to complexity of 1990 & currently acquired thermocouple data into fatigue analysis.

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**Duke Power Company**

*A Duke Energy Company*

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December 23, 1997

U.S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, DC 20555

Subject: Duke Power Company  
Oconee Nuclear Site  
Docket Nos. 50-269, -270, -287  
RCS Auxiliary Piping Fatigue Analysis  
Change of Commitment

In a letter dated February 22, 1996, Duke provided a schedule for the completion of a USAS B31.7 Piping Code Class I fatigue analyses for portions of Reactor Coolant System (RCS) attached piping. As described in a letter dated June 26, 1995, Duke committed to complete all of these fatigue analyses by August 31, 1999.

On April 21, 1997, Oconee Unit 2 was shut down because of a leak in the 2A1 High Pressure Injection (HPI) System injection line. The leak was the result of a fatigue-induced crack in the weld between the safe-end and the injection line. As a result of this event, Duke revised the schedule for completion of the RCS attached piping fatigue analyses such that the HPI System injection lines would be completed first. In a letter dated September 25, 1997, Duke committed to complete the Class I fatigue analysis for the HPI System injection lines by December 31, 1997. This commitment was one of the corrective actions in response to a Notice of Violation and Proposed Imposition of Civil Penalty issued by the staff on August 27, 1997.

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The analysis for the HPI System injection lines is currently in progress. Duke has employed Structural Integrity Associates, Inc., to complete this analysis. Because of the complexity associated with the inclusion of 1990 and currently acquired thermocouple data into the fatigue analysis, it has been determined that the analysis will not be completed by December 31, 1997. The revised schedule for

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U. S. Nuclear Regulatory Commission  
December 23, 1997  
Page 2

completion of the analysis for the HPI System injection  
lines is February 28, 1998.

If there are any questions or further information is needed,  
you may contact D. A. Nix at (864) 885-3634.

Very truly yours,



W. R. McCollum, Jr.,  
Site Vice President

U. S. Nuclear Regulatory Commission

December 23, 1997

Page 3

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U. S. Nuclear Regulatory Commission

December 23, 1997

Page 4

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