

March 1, 2001

MEMORANDUM TO: Stuart A. Richards, Director
Project Directorate IV & Decommissioning
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

FROM: Leonard N. Olshan, Project Manager, Section 1
Project Directorate II */RA/*
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF JANUARY 31, 2001, MEETING WITH ELECTRIC
POWER RESEARCH INSTITUTE TO DISCUSS FATIGUE
EVALUATION GUIDELINES

On January 31, 2001, representatives of the Electric Power Research Institute (EPRI) met with the staff of the Nuclear Regulatory Commission (NRC) to discuss the proposed industry EPRI Technical Report, "Guidelines for Addressing Fatigue Environmental Effects in a License Renewal Application." Attached is a list of the meeting attendees. The handouts provided by EPRI are available under ADAMS accession number ML010320197.

The design criteria for components in the reactor coolant system included an assessment of the fatigue damage caused by plant operating transients. Later test data indicated that the potential reduction in the fatigue life of components which is due to reactor water environmental effects had not been adequately considered in the design of these components. The staff evaluated this concern in Generic Safety Issue (GSI)-190. In the closeout of GSI-190, the staff recommended that licensees address the effects of reactor coolant environment on component fatigue life as aging management programs are formulated for license renewals. The staff has been reviewing these programs on individual license renewal applications. The EPRI guidelines provide an industry approach that is generally acceptable to the staff pending resolution of a few remaining technical issues. The most significant issues involve the generic applicability of measured plant transient data to other similar facilities and whether applicants can take some credit for moderate environmental effects in their existing fatigue analyses. EPRI stated that the industry will address these concerns.

Project No. 669

Attachment: Attendance List

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POWER RESEARCH INSTITUTE TO DISCUSS FATIGUE EVALUATION GUIDELINES

Dated: March 1, 2001

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Project No. 669

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LIST OF ATTENDEES

ELECTRIC POWER RESEARCH INSTITUTE

MEETING TO DISCUSS FATIGUE EVALUATION GUIDELINES

JANUARY 31, 2001

NRC

J. Fair
P. T. Kuo
M. Hartzman
E. Imbro
D. Kalinowsky
K. Manoly
J. Muscara
L. Olshan
R. Wessman
K. Wichman

EPRI

J. Carey

OTHER

A. Deardorff, Structural Integrity Associates
G. Stevens, Structural Integrity Associates
R. Nickell, EPRI Consultant
D. Walters, Nuclear Energy Institute
M. Robinson, Duke Power
J. M. Davis, Duke Power
M. Robison, Duke Power
R. Doyle, Southern Nuclear
C. Pierce, Southern Nuclear
D. Raleigh, Scientech
M. Guthrie, Progress Energy
S. Hale, Florida Power & Light
D. So, American Electric Power
K. Chang, Chang Engineering Services
W. Stuard, Constellation Nuclear Services