



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555

Docket No. STN 50-483

August 2, 1991

Mr. Donald F. Schnell  
Senior Vice President - Nuclear  
Union Electric Company  
Post Office Box 149  
St. Louis, Missouri 63166

Dear Mr. Schnell:

SUBJECT: PRESSURIZER SURGE LINE THERMAL STRATIFICATION, BULLETIN 88-11,  
CALLAWAY PLANT UNIT 1(TAC NO. M72118)

The NRC staff and its consultant, Brookhaven National Laboratory, have completed their review of the Westinghouse Owners Group (WOG) report (WCAP-12639) on the generic detailed analysis of pressurizer surge line stratification. The staff concludes that the methodology used to analyze and evaluate the stress fatigue effects due to thermal stratification and thermal striping was acceptable. However, for the 43 plants included in the WOG generic analysis, only 15 plants, including Callaway, demonstrated acceptable levels of thermal stress fatigue in the surge line.

For Callaway, the WOG detailed analysis program results can be used to satisfy Actions 1.c and 1.d of Bulletin 88-11, provided that plant-specific applicability is demonstrated and additional evaluations which were not included in the WOG program are performed. These additional evaluation requirements are detailed in the enclosed safety evaluation and include the effects of pipe supports and combined piping loads other than the thermal stratification and striping loads, to verify that the resultant stresses are in compliance with the requirements of Section III of the ASME Code.

You are requested to notify the NRC, in writing, when you have completed the additional analyses, and to submit the information addressing plant-specific applicability and the additional analyses being used to satisfy Action 1.c and 1.d of Bulletin 88-11. This submittal is to be made within 30 days of the completion of the additional analyses.

This request is covered by Office of Management and Budget Clearance Number 3150-0011, which expired June 30, 1991. (A request for extension of our OMB clearance has been submitted and is expected to be granted. This information will be furnished to you as soon as it becomes available.) The estimated average burden hours is 3,000 person hours per owner response, including assessment of the new recommendations, searching data sources, gathering and analyzing the data, and preparing the required letters. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the

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Sincerely,

original signed by

M. D. Lynch, Sr. Project Manager  
Project Directorate III-3  
Division of Reactor Projects III/IV/V  
Office of Nuclear Reactor Regulation

Enclosure:  
Safety Evaluation

cc w/enclosure:  
See next page

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Mr. D. F. Schnell  
Union Electric Company

Callaway Plant  
Unit No. 1

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