UNION ELECTRIC COMPANY
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ST. LOUIS, MISSOURI

DONALD F. SCHNELL
VICE PRESIDENT

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July 21, 1983

Mr. R. L. Spessard, Director
Division of Engineering
US Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, IL 60137

ULNRC-649

Dear Mr. Spessard:

INSPECTION REPORT NO. 50-483/83-02

This reply is in response to your letter of June 1, 1983, which requested information on whether or not the pressure/temperature limit on the accumulators had been exceeded and, if so, any effect on the integrity of the accumulators.

From a review of NDE records for other ongoing tests in the containment building (which required temperature measurement on the dates of known accumulator tank pressurizations) it was determined that the minimum temperature of 70°F as given in the Precautions, Limitations, and Setpoints established by Westinghouse was not maintained. This review indicated that the lowest ambient temperature in the containment building during the period of pressurization was 60°F, and the maximum pressure in the accumulator tanks was 662 psig.

A worst case analysis of the accumulators being pressurized without monitoring metal temperature was performed by Westinghouse. The assumptions were: Fill with 32°F water, metal temperature of 60°F (prior to filling) and pressurize to 875 psig. Based on these assumptions, a metal temperature of 40°F after filling was calculated. Included in the analysis considerations were: ASME Code design, ASME material requirements, metal fatigue, and fracture mechanics. Based on the stated assumptions, calculated metal temperature, and the stated considerations, Westinghouse concluded that these test conditions did not impair the integrity of the accumulator tanks.

If you have any questions regarding this response or if additional information is required, please let me know.

Very truly yours,

Donald F. Schnell

Donald F. Schnell

SKM/jds
cc: Mr. H. M. Wescott, NRC Region III
NRC Resident Inspector, Callaway Plant
Missouri Public Service Commission