

DUKE POWER COMPANY

P.O. BOX 3189  
CHARLOTTE, N.C. 28242

HAL B. TUCKER  
VICE PRESIDENT  
NUCLEAR PRODUCTION

TELEPHONE  
(704) 373-4531

May 4, 1983

Mr. Harold R. Denton, Director  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Attention: Ms. E. G. Adensam, Chief  
Licensing Branch No. 4

Re: McGuire Nuclear Station  
Docket Nos. 50-369, 50-370

Dear Mr. Denton:

Our letter of April 18, 1983 contained proposed amendments to McGuire Units 1 and 2 Technical Specifications to revise the setpoint for Upper Head Injection (UHI) accumulator automatic isolation. We have since discovered a problem with the calculation of the setpoint tolerance. Thus, we request that the proposed amendment be changed to incorporate a setpoint tolerance of  $\pm 3.3$  inches instead of  $\pm 4.5$  inches as originally requested. Attached is a revised page 3/4 5-4 of the Technical Specifications showing the proposed change.

The problem with the calculation mentioned above concerned the conversion factor used in determining the setpoint tolerance which is equivalent to the level switch repeatability of  $\pm 66.4$  ft.<sup>3</sup> shown in Attachment 3 of our previous submittal. This conversion factor is determined based upon the dimensions of the accumulator tank to relate volume (ft.<sup>3</sup>) to level (inches). This relationship varies with tank level, because the tank sides are not vertical. The correct conversion factor was determined by finding the volume at two different levels and relating the change in volume to the change in level. The two different levels were chosen approximately one inch above and below the nominal level setpoint of 73.7 inches. Previously the conversion factor was determined using levels significantly farther from the nominal level setpoint resulting in a non-representative conversion factor. Please note that the problem with the previous calculation only affects the determination of the setpoint tolerance and does not affect the uncertainty analysis shown in Attachment 3 of our previous submittal.

The reason for this change to our previous submittal has been discussed with the NRC staff, and we apologize for any inconvenience caused by this change. Please advise, if there are further questions.

Very truly yours,

*Hal B. Tucker*  
Hal B. Tucker

REH:jfw

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Harold R. Denton  
May 4, 1983  
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cc: Mr. James P. O'Reilly, Regional Administrator  
U. S. Nuclear Regulatory Commission  
Region II  
101 Marietta Street, Suite 2900  
Atlanta, Georgia 30303

Mr. W. T. Orders  
NRC Resident Inspector  
McGuire Nuclear Station