

**J. E. Donergan COMPANY** MANUFACTURERS OF SAFETY-RELIEF VALVES

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ESTABLISHED  
1872

August 13, 1980

Nuclear Regulatory Commission  
Region IV  
611 Ryan Plaza Drive, Suite 1000  
Arlington, Texas, 76012

Attn: Mr. William Kelly

Subj: Docket No. 99900245/80-01

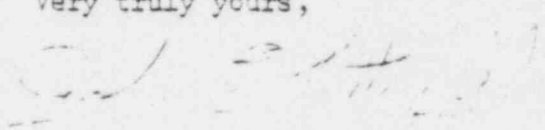
Dear Mr. Kelly:

We have reviewed our Section III Class I Valve Designs with consideration of the Flange Details and back-face machining. Our design calculations and seismic calculations are based on conservative assumptions and include stress concentration factors for flange to neck loading. The resulting stresses are much less than allowable stresses.

Our design requirements for Class I valves are based on NB-3513 for valves smaller than four (4) inch nominal pipe size. There is no specific requirement that we can find in this paragraph or in ANSI B 16.34 or ANSI B 16.5 which requires a specific fillet radius on the back of a flange. However, we appreciate your comments regarding the flange designs noted in Appendix XI and have revised our drawings to have flange back-facing machined using 3/16" radius tool bits.

If further clarification of our changes is required, please call me.

Very truly yours,

  
John E. Littlefield, P.E.  
Engineering Manager

JEL:dmv

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