

ANS Issues Clarification on ANSI/ANS-58.2-1988, “Design Basis for Protection of Light Water Nuclear Power Plants Against the Effects of Postulated Pipe Rupture.”

(Nuclear News, October 2004)

Inquiry:

In the application of Appendix D of ANSI/ANS-58.2, a problem was identified with equation D-10. One of the terms (P_{oe}/P_{jc}) appears to be inverted, or possibly a wrong sign was used (minus instead of plus). Please provide a corrected equation or an explanation of the accuracy of the equation as it stands.

Also the application of equation D-13 will result in a discontinuity between regions 2 and 3. Is that the intent?

Response:

The last term in equation D-10 is inverted. It should be shown as P_{jc}/P_{oe} . The working group recognizes that a discontinuity will exist for the jet centerline pressure in the application of equation D-13. This equation is simply a conservative approximation of a complex phenomenon.

An errata sheet will be sent to identified holders and purchasers of ANSI/ANS-58.2-1988 until the standard is revised to correct the error.