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Document Control Desk<br>U.S. Nuclear Regulatory Commission<br>Washington, D.C. 20555

Attention: T. R. QUAY
SUBJECT: ASME BOILER AND PRESSURE VESSEL CODE CASE N-284 REVISION 1 FOR USE ON THE AP600

## Dear Mr. Quay:

Pursuant to Title 10, Code of Federal Regulations, Paragraph $50.55 \mathrm{a}(\mathrm{a})(3)$, this letter is written to request approval of the use of a code case of the ASME Boiler and Pressure Vessel Code for construction of components in a nuclear power facility. The code case for which approval is requested is Revision 1 of N-284, Metal Containment Shell Buckling Design Methods, Section III, Division 1, Class MC. Revision 0 of this code case has been previously endorsed by the NRC in Regulatory Guide 1.84 ard for use on the AP600. This code case is used for the design of the containment vessel of the APb 0 .

Changes 'setween Revision 0 and Revision 1 of the code case include the following:

1. Addition of criteria for bifurcation buckling analysis.
2. Factors for smaller values of $M$ (an index of the relation between length, radius, and thickness).
3. Reformulation of some of the equations for cylinders.
4. Factors added for spherical shells (these were previously noted as in the course of preparation),
5. Notations added for the new criteria.

Although the AP600 containment is a cylindrical shell with ellipsoidal top and bottom heads, the factors for spherical shells are used in the design and analysis of hatch covers.

If you have any questions, please ca! 1 me at (412) 374-4334.
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