SPECIAL NOTICE

To Users of ASME Boiler and Pressure Vessel Code
Section VIII, Division 2 (Certification Mark with the U2 Designator)

This Special Notice is issued to inform users of Section VIII, Division 2, of an error in the equation provided in Table 6.1 for calculation of forming strains for one-piece, double-curved circumferential products, formed by any process that includes dishing or cold spinning. The current incorrect equation will essentially calculate a forming strain equal to zero, exempting the product from the current mandatory heat treatment. The purpose of the heat treatment is to reduce the forming strains to minimize the potential for post-forming cracking during subsequent manufacturing steps and operation. If cracking were to occur during operation it would as a minimum lead to a leak/loss of containment. The corrected equation is as follows:

<table>
<thead>
<tr>
<th>Type of Part Being Formed</th>
<th>Forming Strain</th>
</tr>
</thead>
<tbody>
<tr>
<td>For all one piece double curved circumferential products, formed by any process that includes dishing or cold spinning (for example, dished heads or cold spun heads),</td>
<td>$\varepsilon_f = 100 \ln \left( \frac{D_b}{D_f - 2t} \right)$</td>
</tr>
</tbody>
</table>

Where:

$\varepsilon_f$ = calculated forming strain.

$D_b$ = diameter of the blank plate or the diameter of the intermediate product.

$D_f$ = final outside diameter of component after forming.

$t$ = nominal thickness of the plate, pipe, or tube before forming.

The corrected equation will appear in the 2015 Edition of Section VIII, Division 2, which is scheduled for publication in July 2015.

In the interim, the cognizant Committee has approved Code Case 2804, which provides the users of Section VIII, Division 2 with the corrected equation.

For these reasons, the corrected equation in Code Case 2804 should now be used, and the use of the equation in Table 6.1 should be discontinued immediately. Code Case 2804 will be published in Supplement 6: Code Cases - Boilers and Pressure Vessels (2013 Edition), to be issued in September 2014; until issuance of the 2015 Edition, Code Case 2804 will be available to view from ASME's Web site at:


Manufacturers and Users are urged to review this notice as it pertains to pressure vessels that have been constructed in accordance with Section VIII, Division 2 (starting with the 2007 Edition), regarding possible consequences resulting from the use of the incorrect equation in Table 6.1.

Any questions with regard to this notice should be referred to:

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