AGENDA ITEM: 620-248  Date: July 30, 2006  
TITLE: Flush Type Shell Connection reinforcing.

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SOURCE: E-mail, Mar.26, 2001 from B. Mistry  
PURPOSE: Clarify Flush Type Shell Connection Reinforcing, Para. 5.27.4.4  
IMPACT: None  
TECHNICAL BASIS: To make Reinforcing Area calculations technically more correct.  
JUSTIFICATION: Same as Technical basis

PROPOSED CHANGES: (as shown bold and underlined)

5.27.4.2 The required cross-sectional area of the reinforcement over the top of the connection shall be not less than the value determined using the following equation:

\[ \frac{K_1 h t}{2} \]

where

- \( K_1 \) = area coefficient, as given in Figure 5-13,
- \( h \) = greatest vertical height of the clear opening, in. in.,
- \( t \) = calculated thickness, in. of the sidewall course in which the connection is located, exclusive of corrosion allowance.

5.27.4.4 The required reinforcement may be provided by any one or by any combination of the following:

a. The shell reinforcing plate.

b. Any thickness of the shell plate in the assembly greater than the calculated thickness of the lowest side wall course, exclusive of corrosion allowance, thickness of the adjacent plates in the lowest sidewall course.

c. That portion of the neck plate that has a length equal to the thickness of the reinforcing plate.