Interpretation: G-1-01

Subject: ASME B31G-2009
Date Issued: September 29, 2011
File: 11-1259

Question (1): When calculating the term $z = L^2 / Dt$, is $t$ in this case the corroded pipe wall thickness?
Reply (1): No. Dimension $t$ is the uncorroded pipe wall thickness.

Question (2): When calculating the failure stress ($S_f$), is $t$ the corroded pipe wall thickness?
Reply (2): Yes.

Question (3): When calculating the hoop stress ($S_O$ or $S_h$), is $t$ in this case the corroded pipe wall thickness?
Reply (3): No. Dimension $t$ is the uncorroded pipe wall thickness.

Question (4): Does $t$ represent the uncorroded pipe wall thickness?
Reply (4): Yes.

ERRATA: Change to "uncorroded"
September 29, 2011

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Dear Mr. Emslie:

The B31 Mechanical Design Technical Committee has reviewed your Interpretation request. Some of the questions needed to be reworded slightly so that the Committee could respond to them appropriately. On September 22, 2011, the B31 MDC voted to approve the interpretations as shown below.

Question #1: When calculating the term \(z=L_2/Dt\), is "t" in this case the corroded pipe wall thickness?
Reply #1: No. Dimension "t" is the uncorroded pipe wall thickness.

Question #2: When calculating the failure stress \((S_f)\) is "t" the uncorroded pipe wall thickness?
Reply #2: Yes.

Question #3: When calculating the hoop stress \((S_o \text{ or } S_h)\) is "t" in this case the corroded pipe wall thickness?
Reply #3: No. Dimension "t" is the uncorroded pipe wall thickness.

Question #4: Does "t" represent the uncorroded pipe wall thickness?
Reply #4: Yes.

Sincerely,

Colleen O'Brien
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