### Question

I've noted a discrepancy in Figure 4-66 between the multiplier factor curve and the curves reported in Figure 4-65 plotted at Sulfur 0.5wt%. In fact, using Figure 4-66, the multiplier factor at $S = 0.5\text{wt\%}$ is approximately 0.91 instead of 1, and to have a multiplier of 1 the wt% of sulfur is 0.65. Which is the correct interpretation of these two figures? Are the multiplier factor curves in Figure 4-66 correct or should “S” in Figure 4-65 be updated?

### Reply

Figures 4-65 and 4-66 are based on existing curves in the published literature and were redrawn for clarity in RP 571. In the process of re-drawing the curves, a note was transcribed incorrectly. In Figure 4-65, the note in the upper left should read “Sulfur content: 0.6 wt%”. This correction will be made in the next edition of the document.

The curves in Figures 4-65 and 4-66 show general trends of behavior of increasing sulfur content and temperature on the corrosion rate of various alloys. These curves should be used for general estimating purposes of corrosion behavior and corrosion trends and are not meant to make an exact determination of corrosion rate. Many other variables have a strong effect on corrosion rate, including the type of sulfur compounds present in the stream, as well as velocity and alloy content. See 4.4.2.3 c, e, and f for cautionary statements that describe these variables. It is suggested that the sulfidation references listed in RP 571 be consulted for additional background on the development of these curves.