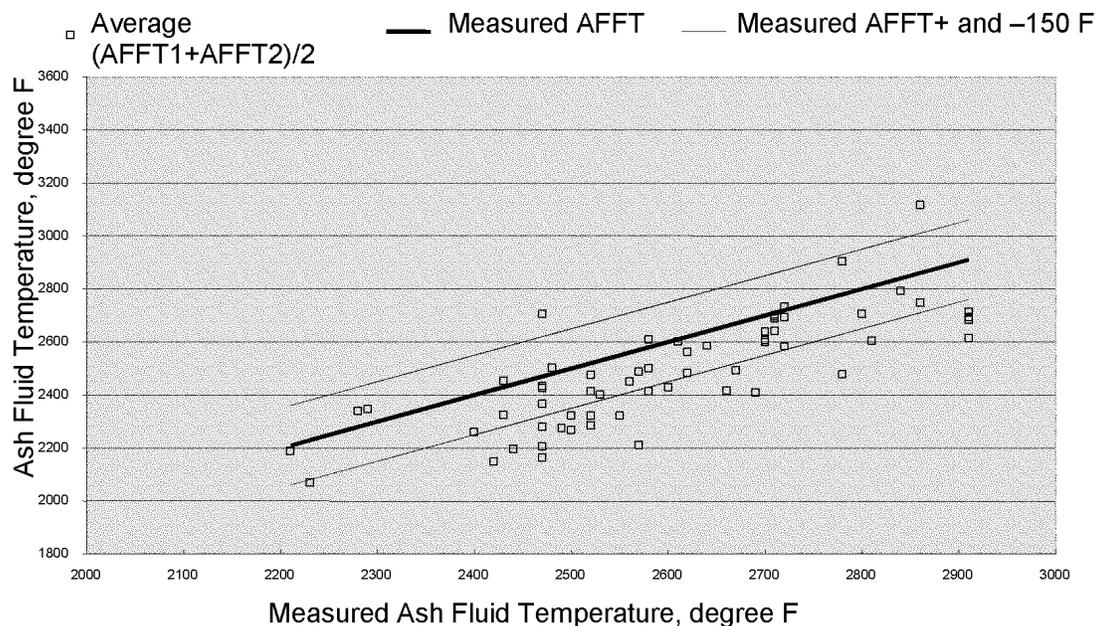


Figure 2-6
Comparison of Average WR Correlations and Measured Pennsylvania Coal Data



Other Coal Samples

In addition to the ash fusion temperature and composition data from the DOE technical data book, approximately 30 coal samples from Nexant's in-house database were used to compare the WR correlations versus measured ash fluid temperatures. Nexant's data are accumulated from past projects and publications, and include coals from around the world. Figure 2-7 compares the direct WR AFFT₁ correlation against the actual AFFT for the Nexant in-house coal samples. The average deviation is -63°F and the standard deviation is 130°F . As shown in Figure 2-7 and by the large negative average deviation, the direct WR AFFT₁ correlation continues to underestimate the measured ash fluid temperature.

Figure 2-8 compares the indirect WR AFFT₂ correlation against the measured AFFT. The average deviation is $+83^{\circ}\text{F}$ and the standard deviation is 325°F . The indirect WR AFFT₂ estimates are more scattered than the direct WR AFFT₁ correlations and the negative average deviation indicates that the correlation underestimates the measured ash fluid temperatures. The large standard deviation indicates that indirect WR AFFT₂ correlation is less accurate than the direct WR AFFT₁ correlation.

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Figure 2-7
Comparison of Direct WR Correlations and Nexant International Coal Data

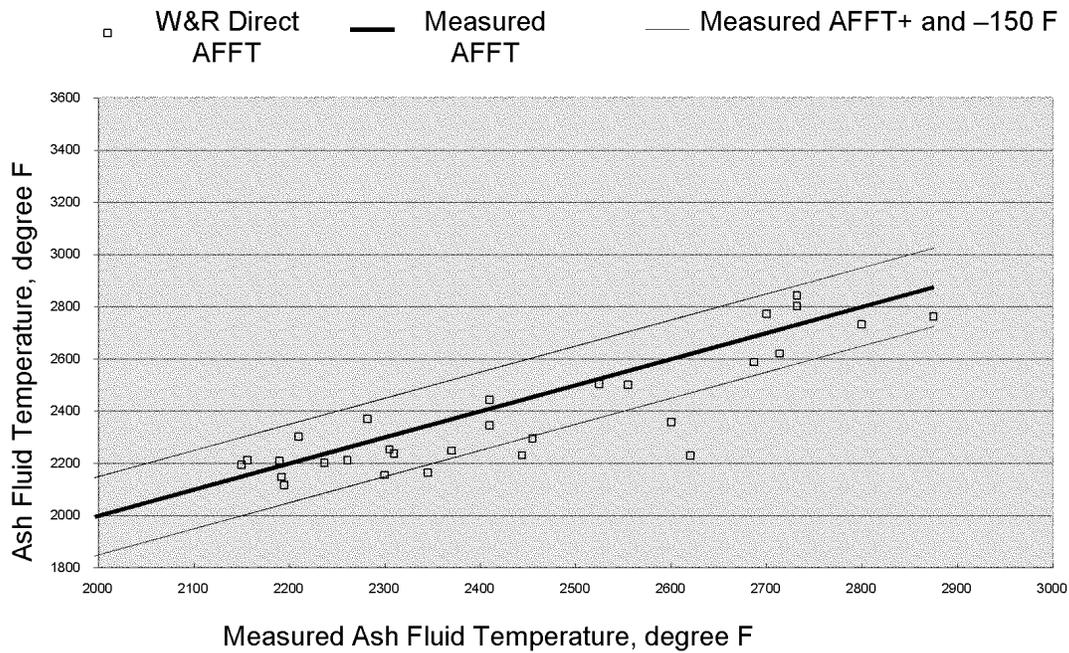


Figure 2-8
Comparison of Indirect WR Correlations and Nexant In-House Coal Data

