Instrument B Calibration Data

Traveler Number _____

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Document Title

Nominal and Actual Calibration Data Instrument B 10/5/2017 12:10

Equipment Used: equipment notes

NOTE: calibration notes

Min and Max PLC Nominal Counts: -27648.00 27648.00 Min and Max Nominal EU (units): -100.00 100.00

Measured Counts Measured EU (units)

1265.00	-90.00	
5209.00	-50.00	
10093.00	0.00	
22345.00	50.00	
26989.00	90.00	

The least squares fit 2 degree polynomial is: -1.3044131E-07x^2 + 0.010228648x + -99.379737

Measured EU	Calcd EU	Error	% of EU Range
-90.00	-86.65	3.351	1.675%
-50.00	-49.64	0.362	0.181%
0.00	-9.43	-9.430	-4.715%
50.00	64.05	14.050	7.025%
90.00	81.67	-8.333	-4.167%

Calibrated engineering units for the min and max PLC counts are as follows:

EU at min and max PLC Counts: -481.8923 83.7110

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Compensate for a non-zero count value at zero EU. Shift the curve fit up or down by the count value of the zero EU value (the x-intercept of EU axis). The adjusted count values vs EU values are:

leasured EU (units)
-90 . 00
-50.00
0.00
50.00
90.00

The least squares fit 2 degree polynomial for the adjusted counts is: $-1.3044131E-07x^2 + 0.0072644577x + -3.4650805E-06$

Calibrated engineering units for the adjusted min and max PLC counts are as follows:

EU at min and max PLC Counts: -300.5586 101.1368

Nominal and Actual Calibration Curves Instrument B 10/5/2017 12:10

