

Cell 8 Calibration - August 19, 2010 11:19

Calibration Data

| I [kA] | Field [T] | Error [T] |
|--------|-----------|-----------|
| 2.0 | 1.8096 | 0.00141 |
| 4.0 | 3.6220 | 0.00099 |
| 6.0 | 5.4342 | 0.00065 |
| 8.0 | 7.2459 | 0.00048 |
| 10.0 | 9.0576 | 0.00030 |
| 12.0 | 10.8687 | 0.00010 |
| 14.0 | 12.6794 | 0.00027 |
| 16.0 | 14.4899 | 0.00062 |
| 18.0 | 16.2999 | 0.00087 |
| 20.0 | 18.1097 | 0.00114 |
| 22.0 | 19.9188 | 0.00150 |
| 24.0 | 21.7277 | 0.00154 |
| 26.0 | 23.5365 | 0.00148 |
| 28.0 | 25.3443 | 0.00147 |
| 30.0 | 27.1520 | 0.00151 |
| 32.0 | 28.9590 | 0.00148 |
| 34.0 | 30.7653 | 0.00121 |
| 36.0 | 32.5719 | 0.00095 |
| 38.0 | 34.3776 | 0.00054 |
| 38.8 | 35.0996 | 0.00030 |

Field Data

| Field [T] | I [kA] |
|-----------|--------|
| 2.0 | 2.21 |
| 2.5 | 2.76 |
| 3.0 | 3.31 |
| 3.5 | 3.86 |
| 4.0 | 4.42 |
| 4.5 | 4.97 |
| 5.0 | 5.52 |
| 5.5 | 6.07 |
| 6.0 | 6.62 |
| 6.5 | 7.18 |
| 7.0 | 7.73 |
| 7.5 | 8.28 |
| 8.0 | 8.83 |
| 8.5 | 9.39 |
| 9.0 | 9.94 |
| 9.5 | 10.49 |
| 10.0 | 11.04 |
| 10.5 | 11.59 |
| 11.0 | 12.15 |
| 11.5 | 12.70 |
| 12.0 | 13.25 |
| 12.5 | 13.80 |
| 13.0 | 14.35 |
| 13.5 | 14.91 |
| 14.0 | 15.46 |
| 14.5 | 16.01 |
| 15.0 | 16.56 |
| 15.5 | 17.12 |
| 16.0 | 17.67 |
| 16.5 | 18.22 |
| 17.0 | 18.77 |
| 17.5 | 19.33 |
| 18.0 | 19.88 |
| 18.5 | 20.43 |
| 19.0 | 20.98 |
| 19.5 | 21.54 |
| 20.0 | 22.09 |
| 20.5 | 22.64 |
| 21.0 | 23.20 |
| 21.5 | 23.75 |
| 22.0 | 24.30 |
| 22.5 | 24.85 |
| 23.0 | 25.41 |
| 23.5 | 25.96 |
| 24.0 | 26.51 |
| 24.5 | 27.07 |
| 25.0 | 27.62 |
| 25.5 | 28.17 |
| 26.0 | 28.72 |
| 26.5 | 29.28 |
| 27.0 | 29.83 |
| 27.5 | 30.38 |
| 28.0 | 30.94 |
| 28.5 | 31.49 |
| 29.0 | 32.04 |
| 29.5 | 32.60 |
| 30.0 | 33.15 |
| 30.5 | 33.71 |
| 31.0 | 34.26 |
| 31.5 | 34.81 |
| 32.0 | 35.37 |
| 32.5 | 35.92 |
| 33.0 | 36.47 |
| 33.5 | 37.03 |
| 34.0 | 37.58 |
| 34.5 | 38.14 |
| 35.0 | 38.69 |

$$B = 0.90584 * I - 8.05 * 10^{-7} * I^3$$

$$I = 1.10396 * B + 1.19 * 10^{-6} * B^3$$

