Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0093 CALIBRATION DATE: 01-Feb-17 SBE 45 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 4.599770e-005 a1 = 2.684250e-004 a2 = -1.814891e-006 a3 = 1.408846e-007

| BATH TEMP (° C) | INSTRUMENT OUTPUT (counts) | INST TEMP (° C) | RESIDUAL (° C) |
|--------------------|-------------------------------|--------------------|-------------------|
| 1.0000 | 641605.4 | 1.0000 | 0.0000 |
| 4.5000 | 548965.3 | 4.5000 | -0.0000 |
| 15.0000 | 350554.0 | 15.0000 | -0.0000 |
| 18.5000 | 303727.1 | 18.5001 | 0.0001 |
| 24.0000 | 243881.1 | 24.0000 | 0.0000 |
| 29.0000 | 200972.5 | 28.9999 | -0.0001 |
| 32.5000 | 176084.9 | 32.5001 | 0.0001 |

n = Instrument Output (counts)

Temperature ITS-90 (°C) = $1/{a0 + a1[ln(n)] + a2[ln^2(n)] + a3[ln^3(n)]} - 273.15$

Residual ($^{\circ}$ C) = instrument temperature - bath temperature

