

## Quarterly Temperature Verification Regional Operation Centers

DEP SOP FT 1400; Acceptance Criteria for Temp.  $\pm 0.5^{\circ}\text{C}$ .

Correction factor needed if acceptance criteria are exceeded.

Record all digits displayed for temperature readings. Do not round before reporting measurements.

Meter ID#: YSI T1 Date of Last Verification: 7/12/18  
Date: 10/10/18 Time: 1315 ETZ / CTZ NIST Reference Device ID#: 15-078-250  
Cold Bath (between 0 – 10°C): Sonde: 3.57 °C; NIST: 3.4 °C; Result: Pass / Fail  
Warm Bath (between 30 – 40°C): Sonde: 38.13 °C; NIST: 38.15 °C; Result: Pass / Fail  
Is Correction Factor Needed? Y / N If yes, describe: \_\_\_\_\_  
Person Performing Verification: P. Oconnor / C. Ruben

Comments: \_\_\_\_\_

Meter ID#: YSI #3 Date of Last Verification: 7/12/18  
Date: 10/10/18 Time: 1315 ETZ / CTZ NIST Reference Device ID#: 15-078-250  
Cold Bath (between 0 – 10°C): Sonde: 3.65 °C; NIST: 3.4 °C; Result: Pass / Fail  
Warm Bath (between 30 – 40°C): Sonde: 38.15 °C; NIST: 38.15 °C; Result: Pass / Fail  
Is Correction Factor Needed? Y / N If yes, describe: \_\_\_\_\_  
Person Performing Verification: P. Oconnor / C. Ruben

Comments: \_\_\_\_\_

~~Meter ID#: YSI #4 Date of Last Verification: \_\_\_\_\_~~  
~~Date: 10/10/18 Time: 1315 ETZ / CTZ NIST Reference Device ID#: \_\_\_\_\_~~  
~~Cold Bath (between 0 – 10°C): Sonde: \_\_\_\_\_ °C; NIST: \_\_\_\_\_ °C; Result: Pass / Fail~~  
~~Warm Bath (between 30 – 40°C): Sonde: \_\_\_\_\_ °C; NIST: \_\_\_\_\_ °C; Result: Pass / Fail~~  
~~Is Correction Factor Needed? Y / N If yes, describe: \_\_\_\_\_~~  
~~Person Performing Verification: \_\_\_\_\_~~

Comments: Meter stick #1, Sealer #2, NIST Model 15-078-250, 11731445  
SN 161036863  
Cert # 4337-8216062

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Meter ID#: YSE184187 Date: 07-12-18 Time: 1310, 1320  
Date of Last Verification: Factory Preset (New)  
Cold Bath (between 0 – 10°C): Sonde: 5.8 °C NIST: 6.03 °C  
Warm Bath (between 30 – 40°C): Sonde: 36.1 °C NIST: 36.5 °C  
Correction Factor: -0.2°C  
Person Performing Verification: PO'Connor

Comments: New Sonde

Meter ID#: YSE17 Date: 07-12-18 Time: 1312, 1321  
Date of Last Verification: 04-11-18  
Cold Bath (between 0 – 10°C): Sonde: 5.65 °C NIST: 5.88 °C  
Warm Bath (between 30 – 40°C): Sonde: 36.83 °C NIST: 36.43 °C  
Correction Factor: -0.4°C  
Person Performing Verification: PO Conn

Comments: \_\_\_\_\_

Meter ID#: YSE183 Date: 07-12-18 Time: 1315, 1323  
Date of Last Verification: 04-11-18  
Cold Bath (between 0 – 10°C): Sonde: 5.28 °C NIST: 5.73 °C  
Warm Bath (between 30 – 40°C): Sonde: 36.40 °C NIST: 36.39 °C  
Correction Factor: -0.01°C  
Person Performing Verification: \_\_\_\_\_

Comments: POD model # 15-078-250 SM 161036863 From Fisher  
CBRT # 4337-8216062 NIST X 12-30-18

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Form effective April 1, 2015

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|                                 |                    |                 |                 |                 |                                      |
|---------------------------------|--------------------|-----------------|-----------------|-----------------|--------------------------------------|
| Meter ID#:                      | <u>USI #3</u>      | Date:           | <u>04-10-18</u> | Time:           | <u>0845</u> Warm<br><u>0917</u> Cold |
| Date of Last Verification:      | <u>01-10-18</u>    |                 |                 |                 |                                      |
| Cold Bath (between 0 – 10°C):   | Sonde:             | <u>2.57</u> °C  | NIST:           | <u>2.59</u> °C  |                                      |
| Warm Bath (between 30 – 40°C):  | Sonde:             | <u>38.13</u> °C | NIST:           | <u>37.73</u> °C |                                      |
| Correction Factor:              |                    |                 |                 |                 |                                      |
| Person Performing Verification: | <u>P. O'Connor</u> |                 |                 |                 |                                      |

Comments: NIST Model # 15-078-250, 11731445 SN 16103865  
Traceable Certificate of Calibration CERT # 4337-  
8216062

|                                 |                    |                 |                 |                 |                                      |
|---------------------------------|--------------------|-----------------|-----------------|-----------------|--------------------------------------|
| Meter ID#:                      | <u>USI #4</u>      | Date:           | <u>04-10-18</u> | Time:           | <u>0848</u> Warm<br><u>0919</u> Cold |
| Date of Last Verification:      | <u>01-10-18</u>    |                 |                 |                 |                                      |
| Cold Bath (between 0 – 10°C):   | Sonde:             | <u>2.66</u> °C  | NIST:           | <u>2.62</u> °C  |                                      |
| Warm Bath (between 30 – 40°C):  | Sonde:             | <u>37.94</u> °C | NIST:           | <u>37.66</u> °C |                                      |
| Correction Factor:              |                    |                 |                 |                 |                                      |
| Person Performing Verification: | <u>P. O'Connor</u> |                 |                 |                 |                                      |

Comments: \_\_\_\_\_

|                                 |                    |                 |                 |                 |                                      |
|---------------------------------|--------------------|-----------------|-----------------|-----------------|--------------------------------------|
| Meter ID#:                      | <u>USI556 #1</u>   | Date:           | <u>04-10-18</u> | Time:           | <u>0850</u> Warm<br><u>0920</u> Cold |
| Date of Last Verification:      | <u>01-10-18</u>    |                 |                 |                 |                                      |
| Cold Bath (between 0 – 10°C):   | Sonde:             | <u>2.29</u> °C  | NIST:           | <u>2.64</u> °C  |                                      |
| Warm Bath (between 30 – 40°C):  | Sonde:             | <u>37.42</u> °C | NIST:           | <u>37.59</u> °C |                                      |
| Correction Factor:              |                    |                 |                 |                 |                                      |
| Person Performing Verification: | <u>P. O'Connor</u> |                 |                 |                 |                                      |

Comments: \_\_\_\_\_

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Record temperature reading with only one rounded decimal figure

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|                                 |                        |       |                 |       |                  |
|---------------------------------|------------------------|-------|-----------------|-------|------------------|
| Meter ID#:                      | <u>YSTI</u>            | Date: | <u>04-10-18</u> | Time: | <u>0852</u> Warm |
| Date of Last Verification:      | <u>01-10-18</u>        |       |                 |       | <u>0901</u> Cold |
| Cold Bath (between 0 – 10°C):   | Sonde: <u>2.910</u> °C |       |                 | NIST: | <u>2.48</u> °C   |
| Warm Bath (between 30 – 40°C):  | Sonde: <u>37.82</u> °C |       |                 | NIST: | <u>37.56</u> °C  |
| Correction Factor:              |                        |       |                 |       |                  |
| Person Performing Verification: | <u>PO Cam</u>          |       |                 |       |                  |

Comments: \_\_\_\_\_

|                                 |                        |       |                 |       |                  |
|---------------------------------|------------------------|-------|-----------------|-------|------------------|
| Meter ID#:                      | <u>SEA#2</u>           | Date: | <u>04-10-18</u> | Time: | <u>0855</u> Warm |
| Date of Last Verification:      | <u>01-10-18</u>        |       |                 |       | <u>0909</u> Cold |
| Cold Bath (between 0 – 10°C):   | Sonde: <u>2.50</u> °C  |       |                 | NIST: | <u>2.15</u> °C   |
| Warm Bath (between 30 – 40°C):  | Sonde: <u>37.66</u> °C |       |                 | NIST: | <u>37.42</u> °C  |
| Correction Factor:              |                        |       |                 |       |                  |
| Person Performing Verification: | <u>PO Cam</u>          |       |                 |       |                  |

Comments: \_\_\_\_\_

|                                 |                 |       |       |       |          |
|---------------------------------|-----------------|-------|-------|-------|----------|
| Meter ID#:                      | _____           | Date: | _____ | Time: | _____    |
| Date of Last Verification:      | _____           |       |       |       |          |
| Cold Bath (between 0 – 10°C):   | Sonde: _____ °C |       |       | NIST: | _____ °C |
| Warm Bath (between 30 – 40°C):  | Sonde: _____ °C |       |       | NIST: | _____ °C |
| Correction Factor:              | _____           |       |       |       |          |
| Person Performing Verification: | _____           |       |       |       |          |

Comments: \_\_\_\_\_

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Record temperature reading with only one rounded decimal figure

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|                                                                                                          |                                   |       |                 |       |             |
|----------------------------------------------------------------------------------------------------------|-----------------------------------|-------|-----------------|-------|-------------|
| Meter ID#:                                                                                               | <u>YEST#6</u> <sup>QUANTA#1</sup> | Date: | <u>01-10-18</u> | Time: | <u>0940</u> |
| Date of Last Verification: <u>10-10-2017</u>                                                             |                                   |       |                 |       |             |
| Cold Bath (between 0 – 10°C): Sonde: <u>9.23</u> °C; NIST: <u>9.0</u> °C; Result: <u>Pass</u> / Fail     |                                   |       |                 |       |             |
| Warm Bath (between 30 – 40°C): Sonde: <u>32.81</u> °C; NIST: <u>32.88</u> °C; Result: <u>Pass</u> / Fail |                                   |       |                 |       |             |
| Correction Factor: <u>0.09</u>                                                                           |                                   |       |                 |       |             |
| Person Performing Verification: <u>P O'Connor A Kalmbacher</u>                                           |                                   |       |                 |       |             |

Comments: Fisher Scientific Catalog # 15-078-250, 11731445 SN#  
161036863  
X 12-30-18

|                                                                                                          |              |       |                 |       |             |
|----------------------------------------------------------------------------------------------------------|--------------|-------|-----------------|-------|-------------|
| Meter ID#:                                                                                               | <u>JE4#2</u> | Date: | <u>01-10-18</u> | Time: | <u>0941</u> |
| Date of Last Verification: <u>10-10-2017</u>                                                             |              |       |                 |       |             |
| Cold Bath (between 0 – 10°C): Sonde: <u>8.66</u> °C; NIST: <u>9.12</u> °C; Result: <u>Pass</u> / Fail    |              |       |                 |       |             |
| Warm Bath (between 30 – 40°C): Sonde: <u>32.39</u> °C; NIST: <u>32.71</u> °C; Result: <u>Pass</u> / Fail |              |       |                 |       |             |
| Correction Factor: <u>0.32</u>                                                                           |              |       |                 |       |             |
| Person Performing Verification: <u>P O'Connor A. Kalmbacher</u>                                          |              |       |                 |       |             |

Comments: \_\_\_\_\_

|                                                                                                         |                              |       |                 |       |             |
|---------------------------------------------------------------------------------------------------------|------------------------------|-------|-----------------|-------|-------------|
| Meter ID#:                                                                                              | <u>YEST#20</u> <sup>#4</sup> | Date: | <u>01-10-18</u> | Time: | <u>0943</u> |
| Date of Last Verification: <u>10-10-2017</u>                                                            |                              |       |                 |       |             |
| Cold Bath (between 0 – 10°C): Sonde: <u>8.87</u> °C; NIST: <u>9.13</u> °C; Result: <u>Pass</u> / Fail   |                              |       |                 |       |             |
| Warm Bath (between 30 – 40°C): Sonde: <u>32.31</u> °C; NIST: <u>32.6</u> °C; Result: <u>Pass</u> / Fail |                              |       |                 |       |             |
| Correction Factor: <u>0.29</u>                                                                          |                              |       |                 |       |             |
| Person Performing Verification: <u>P O'Connor, A Kalmbacher</u>                                         |                              |       |                 |       |             |

Comments: \_\_\_\_\_

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Correction factor needed if acceptance criteria are exceeded

Record temperature reading with only one rounded decimal figure

Numbers  $\leq 4$ , are rounded down; numbers  $\geq 5$  are rounded up

Meter ID#: YSI #1, 556 Date: 01-10-18 Time: 0948  
Date of Last Verification: 10-10-2017  
Cold Bath (between 0 – 10°C): Sonde: 8.69 °C; NIST: 9.11 °C; Result: Pass / Fail  
Warm Bath (between 30 – 40°C): Sonde: 32.03 °C; NIST: 32.43 °C; Result: Pass / Fail  
Correction Factor: 0.4  
Person Performing Verification: P O'Connor, A KAlmbacher

Comments: \_\_\_\_\_

Meter ID#: YSI #3 6920 Date: 01-10-2018 Time: 0955  
Date of Last Verification: 10-10-2017  
Cold Bath (between 0 – 10°C): Sonde: 9.12 °C; NIST: 9.16 °C; Result: Pass / Fail  
Warm Bath (between 30 – 40°C): Sonde: 32.15 °C; NIST: 32.16 °C; Result: Pass / Fail  
Correction Factor: \_\_\_\_\_  
Person Performing Verification: P O'Connor, A. KAlmbacher

Comments: \_\_\_\_\_

Meter ID#: YSI #7 6920 Date: 01-10-18 Time: 0958  
Date of Last Verification: 10-10-17  
Cold Bath (between 0 – 10°C): Sonde: 8.90 °C; NIST: 9.13 °C; Result: Pass / Fail  
Warm Bath (between 30 – 40°C): Sonde: 32.20 °C; NIST: 32.05 °C; Result: Pass / Fail  
Correction Factor: -0.15  
Person Performing Verification: P O'Connor, A KAlmbacher

Comments: \_\_\_\_\_