

**Salt Spray (Fog) Testing to ASTM B117-18**

**Report No.:** TR02785.01-05R0  
**Prepared for:** Ship-2-Shore  
John Bower  
**Address:** 109 – 7337 North Fraser Way  
Burnaby, BC V5J 0G7  
**Coating**  
**Manufacturer:** Ship-2-Shore  
**Date Received:** 12 August 2019  
**Date Tested:** 16 August 2019 to 28 September 2019  
**Part Data:** Coated specimens of the steel substrate  
**Equipment Used:** Q-Fog Cyclic Corrosion Tester CCT-1100, Powertech asset 30853  
Mettler Toledo pH meter F20, Powertech asset 34062  
VWR Hydrometer, Powertech asset 33700

**TEST CONDUCTED:**

Salt spray testing was conducted using the Q-Fog CCT in accordance with the following standard:

- ASTM standard B117-18, “Standard Practice for Operating Salt Spray (Fog) Apparatus”

**SAMPLE DESCRIPTION & PREPARATION:**

The client provided a specimen consisting of the substrate and coating listed in the table, below.

| Sample ID      | Substrate   | Coating                     |
|----------------|-------------|-----------------------------|
| Float Coat V.1 | Steel plate | Ship-2-Shore Float Coat V.1 |

The specimen substrate materials and coatings were supplied by the client and substrates were not cleaned prior to coating. The coating was applied to the substrate sample by brush by Ship-2-Shore representatives, Zoran Culin and Erik Bergvinson, who then witnessed the samples’ placement inside the Q-fog chamber before commencing the salt fog test.

**TEST SOLUTION PREPARATION:**

The test solution was prepared using  $5 \pm 1$  parts by mass of sodium chloride (NaCl) and 95 parts of water. Impurity content in the sodium chloride was confirmed to be below the limits given in ASTM B117, Section 8. Adjustment to solution pH was made using analytical grade sodium hydroxide and/or analytical grade hydrochloric acid.

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**TEST PROCEDURE:**

The test specimen was loaded into the test chamber in the orientations shown in Figure 1. The specimens were supported on inert racks in the salt spray chamber; the flat panel specimens were oriented at an angle of  $20^{\circ} \pm 5^{\circ}$  inclined from vertical.

The test parameters are shown below, in Table 1.

**Table 1: Test parameters**

| Parameter                        | Value  |
|----------------------------------|--|
| Duration                         | 1000 hours   |
| Start Date                       | 16 August 2019   |
| End Date                         | 28 September 2019  |
| Chamber Temperature              | $35^{\circ}\text{C} \pm 2^{\circ}\text{C}$                     |
| Collected Solution pH            | pH 6.5 to 7.2 (at $23^{\circ}\text{C} \pm 3^{\circ}\text{C}$ ) |
| Collected Solution Concentration | $5 \pm 1$ part by mass NaCl to $95 \pm 1$ part distilled water |

Chamber temperature, collected solution specific gravity, collection rate, and collected solution pH were measured every 24 hours, or up to a maximum of 96 hours when the time period spanned a weekend or holiday.

The condition of the specimen was documented by photograph at the following approximate intervals: 100, 336, and 500 hours.

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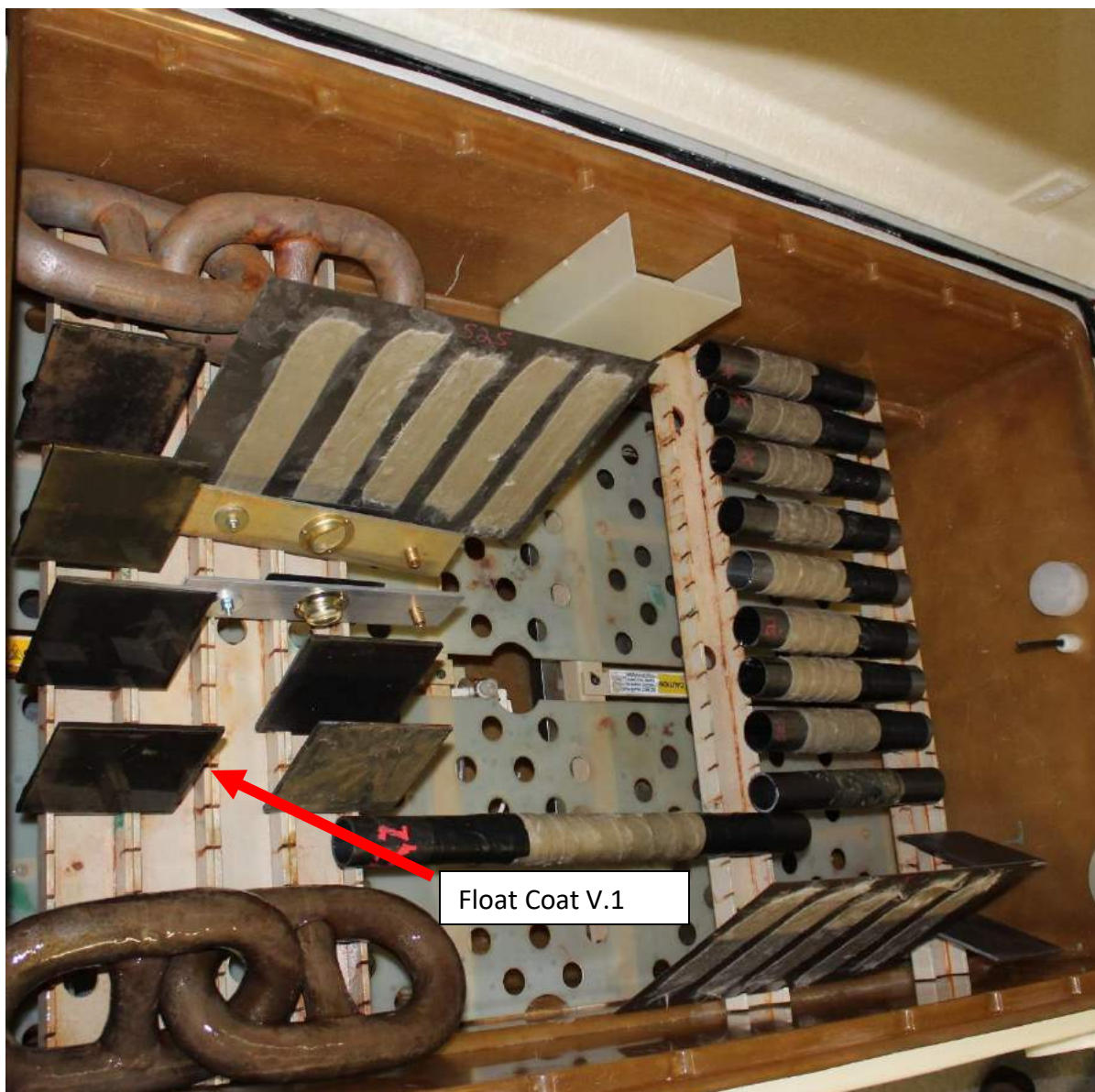


Figure 1: Float coat V.1 specimen inside the Q-fog chamber before starting the test

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**TEST DATA:**

See Appendix A for the test record.

All parameters except for collected solution pH were within the standard specification for the duration of the test. Collected solution pH remained near-neutral, but particular daily measurements were marginally below the specified pH range (minimum values of 6.0-6.3 versus 6.5-7.2). As per ASTM B117, reservoir pH adjustments were made to compensate when the collected solution pH was found to be out of specified range.

**TEST RESULTS:**

Test results relate only to the item tested. No acceptance criteria were provided by the client. Photographs of the specimens before and during testing are provided below in Figures 2.


The specimens did not sustain corrosion, pitting, or metal loss after exposures of up to 336 hours. Evidence of corrosion was observed on the Float Coat V.1 specimen (Figure 2-D) after exposures of approximately 500 hours and longer.

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| Prepared and Tested By:   | Reviewed By:   |
|  |  |
| Shima Karimi<br>EIT, Materials Solutions  | Kristen Porter, P.Eng.<br>Materials Engineer, Materials Solutions                  |

**Revision History**

*Revision 0*

2019-10-21    New Document

**Salt Spray (Fog) Testing to ASTM B117-18**

**APPENDIX A.  
SALT FOG (SPRAY) TEST RECORD**

**Salt Spray (Fog) Testing to ASTM B117-18**

|  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|
| <b>Powertech</b><br><b>AMTP05 Salt Fog Test Record</b><br><small>DOC. ID: AMFT03-R3</small>  |  |  |  |  |  | Test Standard: <input type="checkbox"/> ISO 9227:2017<br><input checked="" type="checkbox"/> ASTM B117-16  |  |  |  |  |  |
| Client/PL#: <u>Ship-2-Shor PL-02785</u>  |  |  |  |  |  | Equipment: <u>Q-Fog CCT-1100</u>   |  |  |  |  |  |
| Duration: <u>1000 hrs</u>  |  |  |  |  |  | Asset #: <u>30853</u>  |  |  |  |  |  |
| Start Date/Time: <u>Aug 16 / 12:30 PM</u>  |  |  |  |  |  | Cal. Due Date:   |  |  |  |  |  |
| End Date/Time: <u>Sep 27, 28</u>   |  |  |  |  |  |  |  |  |  |  |  |
| <b>Pre- &amp; Post-test Checks:</b><br><input checked="" type="checkbox"/> Sample condition and placement photodocumented?<br><input type="checkbox"/> Acceptance criteria confirmed? <u>No</u><br><input checked="" type="checkbox"/> Pre-/post-test cleaning requirements confirmed/completed?<br><input checked="" type="checkbox"/> Pre-test collection rate test complete (req. for ISO 9227)? <input type="checkbox"/> N/A |  |  |  |  |  | <b>Start of Test Checks:</b><br>Atomizing air check: <u>14.5 (100)</u> Pressure, kPa (psi)<br><u>35°C</u> Temperature, °C<br><input type="checkbox"/> Pass <input type="checkbox"/> Fail |  |  |  |  |  |

| Solution Type <sup>1</sup> | Date         | Time  | Solution Temp (°C) | Specific Gravity <sup>2</sup> | pH   | Collected Vol (mL) | Mass Check <sup>3</sup> (g/hr) | Elapsed Test Time (hr) | Collection Rate (mL/hr) | Chamber Temp (°C) | Initial |
|----------------------------|--------------|-------|--------------------|-------------------------------|------|--------------------|--------------------------------|------------------------|-------------------------|-------------------|---------|
| Pre-test                   |              |       |                    |                               |      |                    |                                |                        |                         |                   |         |
| Ⓢ                          | Aug 9        | 3:00  | 24.9               | 1.038                         | 6.31 | 17                 |                                | 11 hrs                 | 1.545                   | 35                | SK      |
| Ⓢ                          | Aug 9, 2019  | 3:05  | 24.8               | 1.037                         | 6.36 | 17.6               |                                | 11 hrs                 | 1.6                     | 35                | SK      |
| Res                        | Aug 16, 2019 | 12:30 | 23.8               | 1.030                         | 6.67 | ←                  |                                |                        |                         |                   | SK      |
| Ⓢ                          | Aug 19, 2019 | 2:30  | 26.00              | 1.032 <sup>25.3</sup>         | 6.55 | 102                |                                | 76 <sup>55895</sup>    | 1.34                    | 35                | SK      |
| Ⓢ                          | Aug 19, 2019 | 2:30  | 23.9               | 1.032 <sup>24.8</sup>         | 6.57 | 80                 |                                | 76 <sup>55895</sup>    | 1.052                   | 35                | SK      |
| R                          | "            | 3:00  | 25.7               | 1.029 <sup>24.5</sup>         | 6.97 | ←                  |                                |                        |                         |                   | →       |
| Ⓢ                          | Aug 20, 2019 | 3:45  | 24.6               | 1.033 <sup>24.4</sup>         | 6.45 | 42                 |                                | 55870                  |                         | 35                | SK      |
| Ⓢ                          | Aug 20, 2019 | 3:45  | 24.4               | 1.033 <sup>24.4</sup>         | 6.16 | 28                 |                                | 55870                  |                         | 35                | SK      |
| R                          | "            | 3:50  | 25.1               | 1.030 <sup>24.5</sup>         | 7.01 | ←                  |                                |                        |                         |                   | →       |
| Ⓢ                          | Aug 21, 2019 | 3:00  | 24.7               | 1.032                         | 6.60 | 27                 |                                | 55893                  | 1.174                   | 35                |         |
| Ⓢ                          | Aug 21, 2019 | 3:00  | 24.0               | 1.033                         | 6.50 | 39                 |                                | 55893                  | 1.695                   | 35                |         |
| Ⓢ                          | Aug 22, 2019 | 3:00  | 24.6               | 1.034 <sup>24.1</sup>         | 6.45 | 38                 |                                | 55917                  | 1.583                   |                   |         |
| Ⓢ                          | Aug 22, 2019 | 3:00  | 25.2               | 1.034 <sup>24.1</sup>         | 6.42 | 24                 |                                | 65917                  | 1.00                    |                   |         |
| Res                        |              | 3:30  | 22.7               | 1.029                         | 6.54 |                    |                                |                        |                         |                   |         |
|                            |              |       | 23.8               |                               | 6.59 |                    |                                |                        |                         |                   |         |
| Ⓢ                          | Aug 23       | 1:00  | 25.0               | 1.034                         | 6.48 | 32                 |                                | 55939                  | 1.454                   | 35                | SK      |
| Ⓢ                          | Aug 23       | 1:00  | 24.6               | 1.034                         | 6.41 | 21                 |                                | 55939                  | 0.954                   | 35                | SK      |

**Notes:**

1 Solution Type: P = Prepared, R = Reservoir, C = Collected

2 Column typically contains SG values not corrected for hydrometer offset. If SG value is outside the accepted range of 1.027 - 1.033, also report the corrected value using the notation convention: SG<sub>uncorrected</sub> (SG<sub>corrected</sub>)

3 Report the mass/hour value for the collected solution volume. If within the range of 1.02-2.06 g/hr, the collected volume measurement is confirmed.

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| <b>Powertech</b><br><b>AMTP05 Salt Fog Test Record</b><br>DOC. ID: AMFT03-R3 |  | Test Standard: <input type="checkbox"/> ISO 9227:2012<br><input checked="" type="checkbox"/> ASTM B117-16 |
| Client/PL#:  |  | Equipment:  |
| Duration:  |  | Asset #:  |
| Start Date/Time:   |  | Cal. Due Date:  |
| End Date/Time:   |  |   |

| Solution Type <sup>1</sup> | Date   | Time                | Solution Temp (°C) | Specific Gravity <sup>2</sup> | pH   | Collected Vol (mL) | Mass Check <sup>3</sup> (g/hr) | Elapsed Test Time (hr) | Collection Rate (mL/hr) | Chamber Temp (°C) | Initial |
|----------------------------|--------|---------------------|--------------------|-------------------------------|------|--------------------|--------------------------------|------------------------|-------------------------|-------------------|---------|
| Res.                       | Aug 23 | 1:30                | 25°C               | 1.03 <sup>23.7</sup>          | 6.48 | ←                  |                                |                        |                         |                   | →       |
| ⊙ R                        | Aug 26 | 18:50 <sup>SK</sup> | 23.7               | 1.031 <sup>26.7</sup>         | 6.64 | 118                |                                | 56010                  | 1.662                   | 35                | SK      |
| ⊙ L                        | Aug 26 | 18:50 <sup>SK</sup> | 23.2               |                               | 6.75 | 73                 |                                | 56010                  | 1.028                   | 35                | SK      |
| Res.                       | Aug 26 |                     | 24.1               |                               | 6.75 |                    |                                |                        |                         |                   |         |
| ⊙ R                        | Aug 27 | 2:10                | 25.3               | 1.030                         | 6.27 | 37.5               |                                | 56035                  | 1.5                     | 35                | SK      |
| ⊙ L                        | Aug 27 | 2:10                | 24.9               | 1.030                         | 6.33 | 21                 |                                | 56035                  | 0.84                    | 35                | SK      |
| Res.                       | Aug 27 | 2:20                | 24.8               | 1.027                         | 6.95 | ←                  |                                |                        |                         |                   | →       |
| ⊙ R                        | Aug 28 | 2:00                | 23.3               | 1.034                         | 6.46 | 38                 |                                | 56059                  | 1.58                    | 35                | SK      |
| ⊙ L                        | Aug 28 | 2:00                | 23.1               | 1.034                         | 6.44 | 23                 |                                | 56059                  | 0.958                   | 35                | SK      |
| Res.                       | Aug 28 | 2:30                | 23.6               | 1.027                         | 7.77 | ←                  |                                |                        |                         |                   | →       |
| ⊙ R                        | Aug 29 | 2:13                | 26.2               | 1.031                         | 6.45 | 38                 | 0.803                          | 56083                  |                         | 35                | 14.2    |
| ⊙ L                        | Aug 29 | 2:13                | 24.2               | 1.031 <sup>24.4</sup>         | 6.37 | 29                 | 0.619                          | 56083                  |                         | 35                | 14.25   |
| Res.                       | Aug 29 | 2:35                | 24.6               | 1.026 <sup>25.2</sup>         | 7.62 | ←                  |                                |                        |                         |                   | →       |
| L                          | Aug 30 | 2:50                | 24.6               | 1.032                         | 6.38 | 25                 |                                | 56106                  | 1.04                    | 35                | 24      |
| R                          | Aug 30 | 2:50                | 24.6               | 1.030                         | 6.40 | 38                 |                                | 56106                  | 1.58                    | 35                | 24      |
| Res.                       | Aug 30 | 2:50                | 24.4               | 1.027                         | 7.60 | ←                  |                                |                        |                         |                   | →       |
| L                          | Sep 03 | 2:50                |                    | 1.                            |      |                    |                                |                        |                         |                   |         |
| R                          | Sep 03 | 2:50                | 28.4               | 1.032                         | 6.87 | 130.5              |                                | 56202                  | 1.35                    | 35                | SK      |
| L RES                      | Sep 03 | 2:50                | 28.4               | 1.032                         | 6.79 | 104.5              | 58.22                          | 56202                  | 1.08                    | 35                | SK      |
| RES                        | Sep 03 | 2:50                | 25.6               | 1.030                         | 8.36 | ←                  |                                |                        |                         |                   | →       |
| L                          | Sep 04 | 2:50                | 23.4               | 1.032                         | 6.97 | 26                 |                                | 56226                  | 1.08                    | 35                | SK      |
| R                          | Sep 04 | 2:50                | 23.8               | 1.032                         | 6.78 | 42.5               |                                | 56226                  | 1.77                    | 35                | SK      |
| Res.                       | Sep 04 | 2:50                | 26.6               | 1.030                         | 8.27 | ←                  |                                | 56226                  | ←                       | 35                | SK      |

**Notes:**

- Solution Type: P = Prepared, R = Reservoir, C = Collected
- Column typically contains SG values not corrected for hydrometer offset. If SG value is outside the accepted range of 1.027 - 1.033, also report the corrected value using the notation convention: SG<sub>uncorrected</sub> (SG<sub>corrected</sub>)
- Report the mass/hour value for the collected solution volume. If within the range of 1.02-2.06 g/hr, the collected volume measurement is confirmed.

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| <b>Powertech</b><br><b>AMTP05 Salt Fog Test Record</b><br><small>DOC. ID: AMFT03-R3</small> |  |  |  |  |  | Test Standard: <input type="checkbox"/> ISO 9227:2012<br><input type="checkbox"/> ASTM B117-16 |  |  |  |  |  |
| Client/PL#:   |  |  |  |  |  | Equipment:   |  |  |  |  |  |
| Duration:   |  |  |  |  |  | Asset #:   |  |  |  |  |  |
| Start Date/Time:  |  |  |  |  |  | Cal. Due Date: 80  |  |  |  |  |  |
| End Date/Time:  |  |  |  |  |  |  |  |  |  |  |  |

| Solution Type <sup>1</sup> | Date   | Time  | Solution Temp (°C) | Specific Gravity <sup>2</sup> | pH   | Collected Vol (mL) | Mass Check <sup>3</sup> (g/hr) | Elapsed Test Time (hr) | Collection Rate (mL/hr) | Chamber Temp (°C) | Initial |
|----------------------------|--------|-------|--------------------|-------------------------------|------|--------------------|--------------------------------|------------------------|-------------------------|-------------------|---------|
| R                          | Sep 05 | 3:00  | 26.5               | 1.032 <sup>24.8</sup>         | 6.44 | 39                 |                                | 56250                  |                         | 35                | SK      |
| L                          | Sep 05 | 3:00  | 26.6               | 1.032 <sup>24.8</sup>         | 6.63 | 25                 |                                | 56250                  |                         | 35                | SK      |
| Res                        | Sep 05 | 3:00  |                    | 1.028 <sup>24</sup>           | 8.08 | ←                  |                                |                        |                         |                   | →       |
| R                          | Sep 06 | 3:15  | 22.1               | 1.031                         | 6.49 | 28                 |                                | 56273                  | 1.217                   | 35                | SK      |
| L                          | Sep 06 | 3:15  | 22.1               | 1.031                         | 6.48 | 24                 |                                | 56273                  | 1.043                   | 35                | SK      |
| Res                        | Sep 06 | 3:15  | 26.0               | 1.028                         | 7.99 | ←                  |                                |                        |                         |                   | →       |
| R                          | Sep 09 | 2:10  | 27.8               | 1.030                         | 6.51 | 127.5              | -                              | 56343                  | 1.821                   | 35                | SK      |
| L                          | Sep 09 | 2:10  | 27.7               | 1.031                         | 6.75 | 75                 | -                              | 56343                  | 1.071                   | 35                | SK      |
| Res                        | Sep 09 | 2:10  | 25.6               | 1.028                         | 7.72 |                    |                                |                        |                         |                   |         |
| R                          | Sep 10 | 2:48  | 25.2               | 1.032                         | 6.45 | 2843               |                                | 56368                  | 1.72                    | 35                | RY      |
| L                          | Sep 10 | 2:48  | 25.1               | 1.032                         | 6.48 | 28                 |                                | 56368                  | 1.12                    | 35                | RY      |
| RES                        | Sep 10 | 2:48  | 26.4               | 1.028                         | 6.95 | ←                  |                                |                        |                         |                   | → RY    |
| R                          | Sep 11 | 12:06 | 22.1               | 1.032                         | 6.53 | 32                 |                                | 56387                  | 1.684                   | 35                | SK      |
| L                          | Sep 11 | 12:06 | 21.6               | 1.032                         | 6.69 | 19                 |                                | 56387                  | 1.00                    | 35                | SK      |
| RES                        | Sep 11 | 12:06 | 24.0               | 1.029                         | 7.58 | ←                  |                                |                        |                         |                   | → SK    |
| R                          | Sep 13 | 2:40  | 25.4               | 1.033                         | 6.68 | 54                 |                                | 56417                  | 1.542                   | 35                | SK      |
| L                          | Sep 13 | 2:40  | 23.9               | 1.033                         | 6.67 | 35                 |                                | 56417                  | 1.166                   | 35                | SK      |
| RES                        | Sep 13 | 2:40  | 26.0               | 1.030                         | 8.42 | ←                  |                                |                        |                         |                   | → SK    |

**Notes:**

<sup>1</sup> Solution Type: P = Prepared, R = Reservoir, C = Collected

<sup>2</sup> Column typically contains SG values not corrected for hydrometer offset. If SG value is outside the accepted range of 1.027 - 1.033, also report the corrected value using the notation convention: SG<sub>uncorrected</sub> (SG<sub>corrected</sub>)

<sup>3</sup> Report the mass/hour value for the collected solution volume. If within the range of 1.02-2.06 g/hr, the collected volume measurement is confirmed.

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| <b>Powertech</b><br><b>AMTP05 Salt Fog Test Record</b><br>DOC. ID: AMFT03-R3 |  | Test Standard: <input type="checkbox"/> ISO 9227:2012<br><input checked="" type="checkbox"/> ASTM B117-16 |
| Client/PL#:  |  | Equipment:  |
| Duration:  |  | Asset #:  |
| Start Date/Time:   |  | Cal. Due Date:  |
| End Date/Time:   |  |   |

| Solution Type <sup>1</sup> | Date   | Time  | Solution Temp (°C) | Specific Gravity <sup>2</sup> | pH   | Collected Vol (mL) | Mass Check <sup>3</sup> (g/hr) | Elapsed Test Time (hr) | Collection Rate (mL/hr) | Chamber Temp (°C) | Initial |
|----------------------------|--------|-------|--------------------|-------------------------------|------|--------------------|--------------------------------|------------------------|-------------------------|-------------------|---------|
| R                          | Sep 16 | 12:45 | 26.8               | 1.032                         | 6.60 | 137.5              |                                | 56487                  | 1.964                   | 35                | SK      |
| L                          | "      | "     | 27.2               | 1.031                         | 7.02 | 97                 |                                | 56487                  | 1.386                   | 35                | SK      |
| RES                        | "      | "     | 24.1               | 1.030                         | 8.36 | ←                  |                                |                        |                         |                   | →       |
| R                          | Sep 17 | 2:25  | 28.3               | 1.030                         | 6.50 | 46                 |                                | 56513                  | 1.769                   | 35                | SK      |
| L                          | "      | 2:25  | 24.7               | 1.030                         | 6.54 | 30                 |                                | 56513                  | 1.154                   | 35                | SK      |
| RES                        | "      | 2:25  | 26.5               | 1.027                         | 8.20 | ←                  |                                |                        |                         |                   | →       |
| R                          | Sep 18 | 12:30 | 28.0               | 1.031                         | 6.94 | 37                 |                                | 56534                  | 1.76                    | 35                | SK      |
| L                          | Sep 18 | 12:30 | 26.8               | 1.031                         | 6.82 | 25                 |                                | 56534                  | 1.19                    | 35                | SK      |
| RES                        | "      | 12:30 | 25.2               | 1.029                         | 7.95 | ←                  | →                              | 56534                  | ←                       |                   | → SK    |
| R                          | Sep 19 | 2:45  | 25.8               | 1.033                         | 6.39 | 53                 |                                | 56561                  | 1.96                    | 35                | SK      |
| L                          | Sep 19 | 2:45  | 24.7               | 1.033                         | 6.48 | 31                 |                                | 56561                  | 1.15                    | 35                | SK      |
| RES                        | Sep 19 | 2:45  |                    | 1.030                         | 7.63 | ←                  | →                              |                        |                         |                   | →       |
| R                          | Sep 20 | 1:10  | 22.7               | 1.033                         | 6.69 | 45                 |                                | 56583                  | 2.04                    | 35                | SK      |
| L                          | Sep 20 | 1:10  | 22.5               | 1.033                         | 6.71 | 25                 |                                | 56583                  | 1.136                   | 35                | SK      |
| RES                        | Sep 20 | 1:10  | 24.1               | 1.030                         | 7.82 | ←                  |                                |                        |                         |                   | → SK    |
| R                          | Sep 23 | 1:45  | 26.7               | 1.032                         | 6.44 | 158                |                                | 56655                  | 2.19                    | 35                | SK      |
| L                          | Sep 23 | 1:45  | 25.5               | 1.030                         | 6.71 | 83                 |                                | 56655                  | 1.15                    | 35                | SK      |
| RES                        | Sep 23 | 1:45  | 24.4               | 1.030                         | 8.59 | ←                  |                                |                        |                         |                   | →       |
| R                          | Sep 24 | 11:44 | 24.0               | 1.033                         | 6.61 | 35.5               |                                | 56677                  | 1.61                    | 35                | SK      |
| L                          | Sep 24 | 11:44 | 23.4               | 1.033                         | 6.57 | 25                 |                                | 56677                  | 1.14                    | 35                | SK      |
| RES                        | Sep 24 | 11:44 | 24.9               | 1.030                         | 8.30 | ←                  |                                |                        |                         |                   | → SK    |

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3 Report the mass/hour value for the collected solution volume. If within the range of 1.02-2.06 g/hr, the collected volume measurement is confirmed.

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| <b>Powertech</b><br><b>AMTP05 Salt Fog Test Record</b><br>DOC. ID: AMFT03-R3 | Test Standard: <input type="checkbox"/> ISO 9227:2012<br><input type="checkbox"/> ASTM B117-16 |
| Instrument/PL#:  | Equipment:   |
| Duration:  | Asset #:   |
| Start Date/Time:   | Cal. Due Date:   |
| End Date/Time:   |  |

[illegible]

**Notes:**

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