

Title: **Installation Qualification Protocol**

Document # 730004135

Version # 02

Page 1 of 8

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| <b>Test Script #</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | IQ-01                                                                                    | <b>IQ Test Name:</b>   | Associated Documentation Verification                                                                           |                           |
| <b>Equipment #</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | TE82988-12                                                                               | <b>Equipment Name:</b> | Global Test System                                                                                              |                           |
| <b>Installation Site:</b> Venture: WPPL, Singapore                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                          |                        |                                                                                                                 |                           |
| <b>Purpose:</b><br>To verify that supporting documentation is available prior to the completion of qualification.                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                          |                        |                                                                                                                 |                           |
| <b>Test Execution:</b> <ul style="list-style-type: none"><li>List all applicable documents (Preventive Maintenance, Calibration, Operating Procedures, Test Specification Procedures, Manufacturing Procedures, etc.) under the Document type header, then complete the table below. Rows may be added/removed as needed.</li><li>All applicable documents must have a status of Ready, Pre-Rel-Prod, or Release General in SAP. If applicable documents are unavailable in SAP, state why in the comments section.</li></ul> |                                                                                          |                        |                                                                                                                 |                           |
| <b>Objective Evidence:</b> <ul style="list-style-type: none"><li>Completed IQ-01 Test Script Data Sheet</li><li>SAP screenshots of below available document(s)</li></ul>                                                                                                                                                                                                                                                                                                                                                      |                                                                                          |                        |                                                                                                                 |                           |
| <b>Document Type</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Title, Doc. #, Version/Revision #</b>                                                 |                        | <b>Status in SAP</b>                                                                                            | <b>Initial &amp; Date</b> |
| TSP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 210001115 KESTREL DCC (Kanye) Programming and Test Instructions 50593, Rev. 03, Rev. 03  |                        |                                                                                                                 |                           |
| CAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Waters GTS Preventative Maintenance and Calibration Procedure 735004006, Rev. A, Ver. 00 |                        |                                                                                                                 |                           |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                          |                        |                                                                                                                 |                           |
| <b>Overall Test Conclusion</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                          |                        | <b>Document No.:</b> _____<br><b>Iteration No.:</b> _____<br><b>Attachment:</b> _____ <b>Page:</b> ____ of ____ |                           |
| <input type="checkbox"/> Pass <input type="checkbox"/> Fail                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                          |                        |                                                                                                                 |                           |

## Title: *Installation Qualification Protocol*

Document # 730004135

Version # 02

Page 2 of 8

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                     |                                                                                                    |                    |                           |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------|---------------------------|--|
| <b>Test Script #</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | IQ -02                                                                                                              | <b>IQ Test Name:</b>                                                                               | Site Verification  |                           |  |
| <b>Equipment #</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | TE82988-12                                                                                                          | <b>Equipment Name:</b>                                                                             | Global Test System |                           |  |
| <b>Installation Site:</b> Venture: WPPL, Singapore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                     |                                                                                                    |                    |                           |  |
| <p><b>Purpose:</b><br/>To verify the location in which the test equipment is to be installed is suitable for use.</p> <p><b>Test Execution:</b></p> <ul style="list-style-type: none"> <li>List additional applicable environmental/input parameters in the Parameters column. Rows may be added as needed.</li> <li>Using the applicable equipment documentation, define the specification(s) in the Acceptance Criteria column, as appropriate.</li> <li>Verify and/or measure the applicable parameters and complete the table below. Do not delete any of the listed defined parameters. Enter N/A for any parameter or cell that is not used or applicable. The reason for why the parameter is not used or applicable shall be explained within the corresponding Installation Qualification Report.</li> </ul> <p><b>Objective Evidence:</b></p> <ul style="list-style-type: none"> <li>Completed IQ-02 Test Script Data Sheet</li> <li>Photo(s) of the work area, as applicable</li> <li>The source of each Acceptance Criterion shall be referenced in the IQR if stored in SAP. If not in SAP objective evidence specifying the Acceptance Criterion shall be provided in or as an attachment to the IQR.</li> <li>Copies of calibration certificates for measurement tools, if applicable</li> </ul> |                                                                                                                     |                                                                                                    |                    |                           |  |
| <b>Parameters</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Acceptance Criteria</b>                                                                                          | <b>As Found</b>                                                                                    | <b>Pass/Fail</b>   | <b>Initial &amp; Date</b> |  |
| Ambient Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 59-86° F (15-30° C)                                                                                                 |                                                                                                    |                    |                           |  |
| Relative Humidity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 20%-80%, Non-Condensing                                                                                             |                                                                                                    |                    |                           |  |
| Workspace                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Adequate space for testing and service                                                                              |                                                                                                    |                    |                           |  |
| Test Station Bench                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Large and strong enough to support all equipment                                                                    |                                                                                                    |                    |                           |  |
| Electrical Supply                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 50-60 HZ,<br>114-126 VAC                                                                                            |                                                                                                    |                    |                           |  |
| Electrical Outlets                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | >= 1                                                                                                                |                                                                                                    |                    |                           |  |
| Network Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | >= 1                                                                                                                |                                                                                                    |                    |                           |  |
| Vacuum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 40 cfm (1.13 cubic meters/min)<br>minimum vacuum flow and a<br>minimum vacuum pressure of<br>23 inches Hg (78 kPa). |                                                                                                    |                    |                           |  |
| <p><b>Comments:</b><br/>All acceptance Criteria listed in table above specified in GTS Site Preparation Guide_Rev 5.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                     |                                                                                                    |                    |                           |  |
| <b>Overall Test Conclusion</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                     | <p>Document No.: _____</p> <p>Iteration No.: _____</p> <p>Attachment: _____ Page: ____ of ____</p> |                    |                           |  |
| <input type="checkbox"/> Pass <input type="checkbox"/> Fail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                     |                                                                                                    |                    |                           |  |

## Title: *Installation Qualification Protocol*

Document # 730004135

Version # 02

Page 3 of 8

| <b>Test Script #</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IQ-03      | <b>IQ Test Name:</b>        | Instrumentation Calibration Verification |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------|------------------------------------------|
| <b>Equipment #</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | TE82988-12 | <b>Equipment Name:</b>      | Global Test System                       |
| <b>Installation Site:</b> Venture: WPPL, Singapore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |                             |                                          |
| <p><b>Purpose:</b><br/>To verify that all critical instruments are in the calibration database and that a calibration and/or a preventive maintenance has been performed, as appropriate.</p> <p><b>Test Execution:</b></p> <ul style="list-style-type: none"> <li>List all critical instruments/components and/or sub-systems that require calibration and/or preventive maintenance in the Description column. Rows may be added as needed.</li> <li>Verify that all listed critical instruments/components have had a preventive maintenance and/or calibration performed in accordance with the PM and/or Calibration procedure(s) or by an outside source, and are listed within the associated calibration database, then complete the table below.</li> </ul> <p><b>Objective Evidence:</b></p> <ul style="list-style-type: none"> <li>Completed IQ-03 Test Script Data Sheet</li> <li>Copies of calibration and/or maintenance certificates</li> <li>Screen captures from the associated Calibration database</li> </ul> |            |                             |                                          |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Asset #    | Cal/PM Dates                | Initial & Date                           |
| Multifunction DAQ<br>NI PXI-6229                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 97021      | Last Cal/PM:<br>Cal/PM Due: |                                          |
| Multifunction DAQ<br>NI PXI-6229                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 97022      | Last Cal/PM:<br>Cal/PM Due: |                                          |
| Source Measurement Unit<br>NI PXI-4130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 97023      | Last Cal/PM:<br>Cal/PM Due: |                                          |
| DC ELECTRONIC LOAD<br>Chroma 63103A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 97010      | Last Cal/PM:<br>Cal/PM Due: |                                          |
| DC ELECTRONIC LOAD<br>Chroma 63103A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 97011      | Last Cal/PM:<br>Cal/PM Due: |                                          |
| DC ELECTRONIC LOAD<br>Chroma 63103A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 97012      | Last Cal/PM:<br>Cal/PM Due: |                                          |
| DC ELECTRONIC LOAD<br>Chroma 63103A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 97013      | Last Cal/PM:<br>Cal/PM Due: |                                          |
| DC POWER SUPPLY<br>TDK-Lambda GENH30-25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 97019      | Last Cal/PM:<br>Cal/PM Due: |                                          |
| DC POWER SUPPLY<br>TDK-Lambda GENH30-25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 97020      | Last Cal/PM:<br>Cal/PM Due: |                                          |

## Title: *Installation Qualification Protocol*

Document # 730004135

Version # 02

Page 4 of 8

|                                                            |       |                             |  |
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| DC POWER SUPPLY<br>TDK-Lambda GENH60-12.5                  | 97015 | Last Cal/PM:<br>Cal/PM Due: |  |
| DC POWER SUPPLY<br>TDK-Lambda GENH60-12.5                  | 97016 | Last Cal/PM:<br>Cal/PM Due: |  |
| DC POWER SUPPLY<br>TDK-Lambda GENH60-12.5                  | 97017 | Last Cal/PM:<br>Cal/PM Due: |  |
| DC POWER SUPPLY<br>TDK-Lambda GENH60-12.5                  | 97018 | Last Cal/PM:<br>Cal/PM Due: |  |
| 6 1/2 DIGITAL MULTIMETER<br>AGILENT 34411A                 | 97025 | Last Cal/PM:<br>Cal/PM Due: |  |
| FUNCTION/ARBITRARY<br>WAVEFORM GENERATOR<br>AGILENT 33220A | 97026 | Last Cal/PM:<br>Cal/PM Due: |  |
| DIGITAL PHOSPOR<br>OSCILLOSCOPE<br>TEKTRONIX TDS 3054C     | 97024 | Last Cal/PM:<br>Cal/PM Due: |  |
| Programmable Resistor<br>GX1164                            | 97014 | Last Cal/PM:<br>Cal/PM Due: |  |

### Comments:

|                                |                               |                                                                                     |
|--------------------------------|-------------------------------|-------------------------------------------------------------------------------------|
| <b>Overall Test Conclusion</b> |                               | Document No.: _____<br>Iteration No.: _____<br>Attachment: _____ Page: ____ of ____ |
| <input type="checkbox"/> Pass  | <input type="checkbox"/> Fail |                                                                                     |

Title: **Installation Qualification Protocol**

Document # 730004135

Version # 02

Page 5 of 8

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                            |                        |                                                                                                                 |                           |  |
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| <b>Test Script #</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | IQ-04                      | <b>IQ Test Name:</b>   | Test Software and Instrument Firmware Version                                                                   |                           |  |
| <b>Equipment #</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | TE82988-12                 | <b>Equipment Name:</b> | Global Test System                                                                                              |                           |  |
| <b>Installation Site:</b> Venture: WPPL, Singapore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                        |                                                                                                                 |                           |  |
| <b>Purpose:</b><br>To verify that the installed software/firmware is correct per the applicable design and/or operational document(s).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                        |                                                                                                                 |                           |  |
| <b>Test Execution:</b> <ul style="list-style-type: none"><li>List all relevant Equipment software and/or instrument firmware in the Description column. Specify the associated part number for the instrument firmware, if applicable. Rows may be added/removed as needed.</li><li>List the associated required equipment software and/or critical instrument/internet connection sharing firmware version(s), as defined in the applicable design/operational document(s), in the Acceptance Criteria column.</li><li>Verify that the software version displayed on the Operator Interface of the program and/or the firmware loaded on the instruments/PC match the acceptance criteria identically, if applicable, then complete the table below.</li></ul> |                            |                        |                                                                                                                 |                           |  |
| <b>Objective Evidence:</b> <ul style="list-style-type: none"><li>Completed IQ-04 Test Script Data Sheet</li><li>Identify and/or provide a screen capture/print out/copy of the applicable design/operational document that defines the required software/firmware version(s) within or as an attachment to the associated Installation Qualification Report.</li><li>Screen capture and/or test record displaying/indicating the software and/or firmware version(s), as applicable</li></ul>                                                                                                                                                                                                                                                                   |                            |                        |                                                                                                                 |                           |  |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Acceptance Criteria</b> | <b>As Found</b>        | <b>Pass/Fail</b>                                                                                                | <b>Initial &amp; Date</b> |  |
| Test Sequence<br>210001115HVC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Version: C                 | Version:               |                                                                                                                 |                           |  |
| Test Sequence<br>210001115                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Version: C                 | Version:               |                                                                                                                 |                           |  |
| NI TestStand                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Version: 4.2.1             | Version:               |                                                                                                                 |                           |  |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                        |                                                                                                                 |                           |  |
| <b>Overall Test Conclusion</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                            |                        | <b>Document No.:</b> _____<br><b>Iteration No.:</b> _____<br><b>Attachment:</b> _____ <b>Page:</b> ____ of ____ |                           |  |
| <input type="checkbox"/> Pass <input type="checkbox"/> Fail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                            |                        |                                                                                                                 |                           |  |

**Title:** *Installation Qualification Protocol*

Document # 730004135

Version # 02

Page 6 of 8

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                   |                  |
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| <b>Test Script #</b> IQ-05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | <b>IQ Test Name:</b> General Safety and Alarms                                                                    |                  |
| <b>Equipment #</b> TE82988-12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | <b>Equipment Name:</b> Global Test System                                                                         |                  |
| <b>Installation Site:</b> Venture: WPPL, Singapore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                                                                                                   |                  |
| <b>Purpose:</b><br>To verify that the equipment can operate in a safe manner, within its designated location.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                   |                  |
| <b>Test Execution:</b> <ul style="list-style-type: none"><li>List any additional safety related conditions or alarms in the Safety Inspection column, such as: guarding, interlocks, thermal or mechanical safety, chemical, secured gas tanks, restart or power loss, emergency stop, environmental exhaust, electrical safety, noise, safety labels, etc. Rows may be added as needed. EH&amp;S shall be consulted as necessary.</li><li>List the associated safety requirement(s)/specification(s) in the Acceptance Criteria column.</li><li>Perform an inspection/test of the equipment to assess its safety related conditions, then complete the table below.</li></ul> |  |                                                                                                                   |                  |
| <b>Objective Evidence:</b> <ul style="list-style-type: none"><li>Completed IQ-05 Test Script Data Sheet</li><li>Photo(s) of the secured glass bottles, tanks, etc., if applicable</li><li>The source of any applicable Acceptance Criterion shall be summarized in the IQR if stored in SAP. If the source is not stored in SAP, at a minimum the page specifying the applicable Acceptance Criterion shall be provided as an attachment.</li></ul>                                                                                                                                                                                                                            |  |                                                                                                                   |                  |
| <b>Safety Inspection</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | <b>Acceptance Criteria</b>                                                                                        | <b>Pass/Fail</b> |
| Mechanical Safety/<br>Pinch Points/Sharp Edges                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | None Found (or mitigated appropriately)                                                                           |                  |
| Safety Labels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | Clearly highlight hazards or requirement of equipment                                                             |                  |
| Emergency Stop                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | System ceases operation upon depressing the Emergency Stop button                                                 |                  |
| Guarding                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | Shielding in place to prevent hazard during operation                                                             |                  |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                                                                                                                   |                  |
| <b>Overall Test Conclusion</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | <b>Document No.:</b> _____<br><b>Iteration No.:</b> _____<br><b>Attachment:</b> _____ <b>Page:</b> _____ of _____ |                  |
| <input type="checkbox"/> Pass <input type="checkbox"/> Fail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                                                                                   |                  |

## Title: *Installation Qualification Protocol*

Document # 730004135

Version # 02

Page 7 of 8

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                              |                                                                                                                 |                           |
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| <b>Test Script #</b> IQ-06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>IQ Test Name:</b> Functional Verification                 |                                                                                                                 |                           |
| <b>Equipment #</b> TE82988-12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Equipment Name:</b> Global Test System                    |                                                                                                                 |                           |
| <b>Installation Site:</b> Venture: WPPL, Singapore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                              |                                                                                                                 |                           |
| <p><b>Purpose:</b><br/>To verify that the system operates as expected.</p> <p><b>Test Execution:</b></p> <ul style="list-style-type: none"> <li>Select the UUT(s) or tests to be performed as defined within the Installation Qualification Section of 730001835.</li> <li>List the Part Number and Serial Number, if applicable, in the UUT Part Number/Serial Number column.</li> <li>Define the appropriate Acceptance Criteria within the Acceptance Criteria column.</li> <li>Perform a test of the UUT(s), verify the Acceptance Criteria, then complete the table below. If an associated Test Record is being used as objective evidence the Header/Footer information should be verified for accuracy.</li> </ul> <p><b>Objective Evidence:</b></p> <ul style="list-style-type: none"> <li>Completed IQ-06 Test Script Data Sheet</li> <li>Copy of the Test Record(s) for the UUT(s), as applicable</li> <li>The UUT(s) selected for this Test Script and the reasoning for why it/they were selected shall be summarized within the associated Installation Qualification Report.</li> <li>If this Acceptance Criteria is other than "All required CTQ Specification measurements result in a Pass" then it shall be summarized within the associated VAF, Process Validation Plan, and/or Installation Qualification Report.</li> <li>For systems that download firmware to product the BOM showing the firmware requirement shall be provided within the IQR.</li> </ul> |                                                              |                                                                                                                 |                           |
| <b>UUT Part Number/Serial Number</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Acceptance Criteria</b>                                   | <b>Pass/Fail</b>                                                                                                | <b>Initial &amp; Date</b> |
| Part Number: TE83004<br>Serial Number:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | All required CTQ Specification measurements result in a Pass |                                                                                                                 |                           |
| Part Number: 210001115<br>Serial Number:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | All required CTQ Specification measurements result in a Pass |                                                                                                                 |                           |
| <p><b>Comments:</b><br/>GTS SelfTest Fixture TE83004 will be connected and tested according to Waters GTS Preventative Maintenance and Calibration Procedure 735004006, Rev. A, Ver. 00; This test is to check GTS overall functionality. A SelfTest report will be printed out as Objective Evidence for this test.</p> <p>UUT 210001115 will be loaded on test fixture 279002953 to run functional test. A test report will be generated as object evidence for this test.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                              |                                                                                                                 |                           |
| <b>Overall Test Conclusion</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                              | <b>Document No.:</b> _____<br><b>Iteration No.:</b> _____<br><b>Attachment:</b> _____ <b>Page:</b> ____ of ____ |                           |
| <input type="checkbox"/> Pass <input type="checkbox"/> Fail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                              |                                                                                                                 |                           |

**Title: *Installation Qualification Protocol***

Document # 730004135

Version # 02

Page 8 of 8

**Appendix A: TRAINING RECORD**

|                   |       |                       |                                                                 |                 |    |
|-------------------|-------|-----------------------|-----------------------------------------------------------------|-----------------|----|
| <b>Document #</b> | 50593 | <b>Document Title</b> | 210001115 KESTREL DCC (Kanye) Programming and Test Instructions | <b>Version</b>  | 03 |
|                   |       |                       |                                                                 | <b>Revision</b> | 03 |

☐ Read and Understood

By signing you acknowledge that you have reviewed, understand, and agree to comply with the policies and practices of the procedure defined above.

| Printed Name | Signature | Initials | Date |
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