

## Title: Installation Qualification Procedure

Document No: 730004135

Version No: 00

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| <b>IQ Test Name:</b> Associated Documentation Verification                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                     | <b>Test Script No.:</b> IQ-01                 |                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------|----------------|
| <b>Equipment No./ID:</b> TE83064-14                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                     | <b>Equipment Name:</b> CPSM Final 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><br>List all applicable documents (Preventive Maintenance, Calibration, Operating Procedures, Test Specification Procedures, Manufacturing Procedures, etc.) under the Document type header and then complete the table below. If applicable documents are unavailable state why in the comments section. All applicable documents must be in either Ready, Pre-Rel-Prod, or Release General state in SAP. Enter N/A for any parameter or cell that is not used or not applicable. |                                                                     |                                               |                |
| <b>Objective Evidence:</b><br>Completed Test Script Data Sheet<br>SAP Screen shot of below available document(s)                                                                                                                                                                                                                                                                                                                                                                                         |                                                                     |                                               |                |
| Document Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Title; Doc. No.; Revision/Version No.                               | Status in SAP                                 | Initial & Date |
| TSP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CPSM Final Test Procedure<br>735002984, Rev. M, Ver. 11             |                                               |                |
| CAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CPSM Final Test Maintenance Procedure<br>735003028, Rev. D, Ver. 03 |                                               |                |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                     |                                               |                |
| <b>Overall Test Conclusion:</b> <input type="checkbox"/> Pass <input type="checkbox"/> Fail                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                     |                                               |                |

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| <b>IQ Test name:</b> Test Software and Instrument Firmware Version                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |                                               | <b>Test Script No.:</b> IQ-04 |                |             |                     |          |           |                |                         |               |          |  |  |                                       |                   |          |  |  |                                       |                   |          |  |  |                                       |                   |          |  |  |                                       |                   |          |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------|-------------------------------|----------------|-------------|---------------------|----------|-----------|----------------|-------------------------|---------------|----------|--|--|---------------------------------------|-------------------|----------|--|--|---------------------------------------|-------------------|----------|--|--|---------------------------------------|-------------------|----------|--|--|---------------------------------------|-------------------|----------|--|--|
| <b>Equipment No./ID:</b> TE83064-14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                     | <b>Equipment Name:</b> CPSM Final Test System |                               |                |             |                     |          |           |                |                         |               |          |  |  |                                       |                   |          |  |  |                                       |                   |          |  |  |                                       |                   |          |  |  |                                       |                   |          |  |  |
| <b>Installation Site:</b> Venture: WPPL, Singapore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |                                               |                               |                |             |                     |          |           |                |                         |               |          |  |  |                                       |                   |          |  |  |                                       |                   |          |  |  |                                       |                   |          |  |  |                                       |                   |          |  |  |
| <p><b>Purpose:</b><br/>To verify that the installed firmware/software is correct per the applicable design/operational documents (TSP, ASP, MPR, BOM, and/or other Design documents).</p> <p><b>Test execution:</b><br/>List all critical instruments/components and/or sub-systems that require software and/or firmware in the Description column. List the associated required software/firmware version, as defined in the applicable design/operational documents, in the Acceptance criteria column. Verify that the software/firmware version on the Test Equipment match the acceptance criteria and are identical. Enter N/A for any parameter or cell that is not used or applicable.</p> <p><b>Objective evidence:</b><br/>Completed Test Script Data Sheet<br/>Identify the applicable design/operational document that defined the required software/firmware version(s) in the associated Installation Qualification Report.</p> <table border="1"> <thead> <tr> <th>Description</th> <th>Acceptance criteria</th> <th>As found</th> <th>Pass/Fail</th> <th>Initial &amp; Date</th> </tr> </thead> <tbody> <tr> <td>Test Equipment Software</td> <td>Version: 1.42</td> <td>Version:</td> <td></td> <td></td> </tr> <tr> <td>Instrument Firmware<br/>P/N: 186015085</td> <td>Version: 1.71.395</td> <td>Version:</td> <td></td> <td></td> </tr> <tr> <td>Instrument Firmware<br/>P/N: 186015088</td> <td>Version: 1.71.395</td> <td>Version:</td> <td></td> <td></td> </tr> <tr> <td>Instrument Firmware<br/>P/N: 186015017</td> <td>Version: 1.71.395</td> <td>Version:</td> <td></td> <td></td> </tr> <tr> <td>Instrument Firmware<br/>P/N: 186015046</td> <td>Version: 1.71.395</td> <td>Version:</td> <td></td> <td></td> </tr> </tbody> </table> |                     |                                               |                               |                | Description | Acceptance criteria | As found | Pass/Fail | Initial & Date | Test Equipment Software | Version: 1.42 | Version: |  |  | Instrument Firmware<br>P/N: 186015085 | Version: 1.71.395 | Version: |  |  | Instrument Firmware<br>P/N: 186015088 | Version: 1.71.395 | Version: |  |  | Instrument Firmware<br>P/N: 186015017 | Version: 1.71.395 | Version: |  |  | Instrument Firmware<br>P/N: 186015046 | Version: 1.71.395 | Version: |  |  |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Acceptance criteria | As found                                      | Pass/Fail                     | Initial & Date |             |                     |          |           |                |                         |               |          |  |  |                                       |                   |          |  |  |                                       |                   |          |  |  |                                       |                   |          |  |  |                                       |                   |          |  |  |
| Test Equipment Software                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Version: 1.42       | Version:                                      |                               |                |             |                     |          |           |                |                         |               |          |  |  |                                       |                   |          |  |  |                                       |                   |          |  |  |                                       |                   |          |  |  |                                       |                   |          |  |  |
| Instrument Firmware<br>P/N: 186015085                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Version: 1.71.395   | Version:                                      |                               |                |             |                     |          |           |                |                         |               |          |  |  |                                       |                   |          |  |  |                                       |                   |          |  |  |                                       |                   |          |  |  |                                       |                   |          |  |  |
| Instrument Firmware<br>P/N: 186015088                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Version: 1.71.395   | Version:                                      |                               |                |             |                     |          |           |                |                         |               |          |  |  |                                       |                   |          |  |  |                                       |                   |          |  |  |                                       |                   |          |  |  |                                       |                   |          |  |  |
| Instrument Firmware<br>P/N: 186015017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Version: 1.71.395   | Version:                                      |                               |                |             |                     |          |           |                |                         |               |          |  |  |                                       |                   |          |  |  |                                       |                   |          |  |  |                                       |                   |          |  |  |                                       |                   |          |  |  |
| Instrument Firmware<br>P/N: 186015046                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Version: 1.71.395   | Version:                                      |                               |                |             |                     |          |           |                |                         |               |          |  |  |                                       |                   |          |  |  |                                       |                   |          |  |  |                                       |                   |          |  |  |                                       |                   |          |  |  |
| <p><b>Comments:</b><br/>Test software version specified in 735002984, Rev. M, Ver. 11<br/>Firmware for P/N: 186015085 and P/N: 186015088 specified in ECR #9221562<br/>Firmware for P/N: 186015017 and P/N: 186015046 specified in ECR #9221627</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                     |                                               |                               |                |             |                     |          |           |                |                         |               |          |  |  |                                       |                   |          |  |  |                                       |                   |          |  |  |                                       |                   |          |  |  |                                       |                   |          |  |  |
| <p><b>Overall Test Conclusion:</b>      <input type="checkbox"/> Pass                      <input type="checkbox"/> Fail</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                                               |                               |                |             |                     |          |           |                |                         |               |          |  |  |                                       |                   |          |  |  |                                       |                   |          |  |  |                                       |                   |          |  |  |                                       |                   |          |  |  |

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