The supplier shall establish and maintain a system to control Test, Measuring, and Diagnostics Equipment and Standards (TMDES). TMDES include test and inspection equipment, test support equipment, gages, and equipment used to monitor and control production processes. TMDES also include production tools, jigs, fixtures, and personally owned measuring equipment used to measure, test, verify, calibrate, diagnose, or otherwise examine materials, supplies, and equipment to determine compliance with product and process specifications.

All Test, Measuring, and Diagnostic Equipment (TMDE) used for product on this order will be verified to have the accuracy, range, resolution, repeatability, reliability, and stability required so that the total uncertainty in any measurement process does not exceed 25 percent of the tolerance of the characteristic being measured. The uniquely designed TMDE or test stations shall be proofed and qualified to ensure effectiveness in measuring the product's compliance to configuration documentation.

The supplier shall maintain a CM controlled quality system that ensures calibration of items on this order comply to the following:

- If providing calibration services internally the supplier will ensure their calibration system complies with ANSI/NCSL Z540.1
- If calibration is being contracted by an outside service then that company being used shall have a calibration system that complies with ISO/IEC 17025:2005(E), General Requirements for the Competence of Testing and Calibration Laboratories
- Calibration and maintenance shall specify or contain:
  a) Description of preparations that must be made before calibration is started.
  b) Descriptions or diagrams of the equipment setup, as necessary.
  c) Environmental conditions required and stabilization period.
  d) Step-by-step instructions for performing calibration and maintenance activities.
  e) Data to be recorded, reports or certificates to be prepared, and method of analysis.

If measurement or calibration accuracies cannot be achieved due to technology limitations, a request for variance shall be submitted for approval to NGIS.

The supplier shall establish and maintain test station logs to record station history including station operational proofing, calibration of equipment, seal integrity, equipment servicing and replacement, explanations for modifications and breaks-of-station, and any other pertinent information on unusual events or circumstances. Log entries shall be signed or otherwise traceable to the person making the entry and shall include date and time of the event.

Northrop Grumman reserves the right to conduct surveillance at the supplier's facility to determine that the supplier's quality system is meeting these requirements. Any perceived or actual approval of supplier's program by Northrop Grumman does not constitute acceptance of goods or services or relief of purchase order or subcontract requirements.

Definitions:

Operational Proofing: The verification activities performed to ensure the station is properly assembled, performing properly, and will yield accurate test results.

Breaks-of-station: Any time the proofed station configuration is altered.
<table>
<thead>
<tr>
<th>Department</th>
<th>Date</th>
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<tbody>
<tr>
<td>Supplier Quality Assurance:</td>
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<td>Mission Assurance:</td>
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<td>Supply Chain:</td>
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