3.2.2. Test Methodology

- For each capability and key functional area, address a test methodology that:
  - o Verifies achievement of critical technical parameters and the ability to achieve key performance parameters, and assess progress toward achievement of critical operational issues.
  - o Measures the system's ability to achieve the thresholds prescribed in the capabilities documents.
  - o Provides data to the Program Manager to enable root cause determination and to identify corrective actions.
  - o Measures system functionality.
  - o Provides information for cost, performance, and schedule tradeoffs.
  - o Assesses system specification compliance.
  - o Identifies system capabilities, limitations, and deficiencies.
  - o Assesses system safety.
  - o Assesses compatibility with legacy systems.
  - o Stresses the system within the intended operationally relevant mission environment.
  - o Supports cybersecurity assessments and authorizations.
  - o Supports the interoperability certification process.
  - o Documents achievement of contractual technical performance and verifies incremental improvements and system corrective actions.
  - o Provides DT&E data to validate parameters in models and simulations.
  - o Assesses the maturity of the chosen integrated technologies.

3.2.3. Modeling and Simulation (M&S)

- Describe the key models and simulations and their intended use. Include the developmental test objectives to be addressed using M&S to include any approved operational test objectives.
- Identify who will perform M&S verification, validation, and accreditation.
- Identify data needed and the planned accreditation effort.
- Identify how the developmental test scenarios will be supplemented with M&S, including how M&S will be used to predict the Sustainment KPP and other sustainment considerations.
- Identify and describe LVC requirements.
- Identify developmental M&S resource requirements in Part IV.

3.2.4. Test Limitations and Risks

- Discuss any developmental test limitations that may significantly affect the evaluator's ability to draw conclusions about the maturity, capabilities, limitations, or readiness for dedicated operational testing.

- Address the impact of these limitations as well as resolution approaches.

- Discuss any known test risks at the time the TEMP is being written. These are risks that may prevent or delay the satisfactory execution of the test events. Any test risks that are included in the program-level risk management database should be included. Include a risk mitigation plan for the identified test risks.

  o *Test Limitations Guidance and DT Examples*

3.3. DEVELOPMENTAL TEST APPROACH

3.3.1. Mission-Oriented Approach

- Describe the approach to test the system performance in a mission context, i.e., how the system will actually be employed.

- Discuss how developmental testing will reflect the expected operational environment to help ensure developmental testing is planned to integrate with operational testing.

- Describe the use of actual user subjects to support human factors engineering assessments and NET development.

  o *Integrated Testing Guidance and Best Practices*