3.6. LIVE FIRE TEST AND EVALUATION APPROACH

- If live fire testing is required, describe the approach to evaluate the survivability/lethality of the system, and (for survivability LFT&E) personnel survivability of the system's occupants.
  - o *LFT&E Strategy Guidance*
  - o *Integrated Survivability Assessment Guidance and Best Practices*
  - o *Force Protection Evaluation Guidance*
- Include a description of the overall live fire evaluation strategy to influence the system design (as defined in Title 10 U.S.C. § 2366), critical live fire evaluation issues, and major evaluation limitations.
- Discuss the management of the LFT&E program, to include the shot selection process, target resource availability, and schedule.
- Discuss a waiver, if appropriate, from full-up, system-level survivability testing, and the alternative strategy.

3.6.1. Live Fire Test Objectives

- State the key live fire test objectives for realistic survivability or lethality testing of the system.
- Include a matrix that identifies all tests within the LFT&E strategy, their schedules, the issues they will address, and which planning documents will be submitted for DOT&E approval and which will be submitted for information and review only.
- Identify whether full-up, system-level testing will be conducted, or whether a waiver will be required from such testing. If a waiver will be required from full-up, system-level testing, describe the key features of the alternative LFT&E plan, including the planned levels of test realism to support the evaluation of survivability or lethality.
- Quantify the testing sufficiently (e.g., number of test hours, test articles, test events, test firings) to allow a valid cost estimate to be created.

3.6.2. Modeling and Simulation (M&S)

- Only discuss what is unique to live fire.
- Describe the key models and simulations and their intended use.
- If M&S is to be used for test planning, describe how M&S will be used as a basis for decisions regarding test scope or test conditions.
- If M&S is to be used for prediction of test results, identify which tests will have predictions based on M&S, and which models will be used for such predictions.
- If M&S is to be used for evaluation of critical LFT&E issues, summarize the degree of reliance on M&S, and identify any evaluation issues that will be addressed solely by M&S.
- Include the LFT&E test objectives to be addressed using M&S to include operational test objectives.
- (Post MS A TEMP) Identify who will perform M&S verification, validation, and accreditation
- (Post MS A TEMP) Identify data needed and the planned accreditation effort.
- Identify how the test scenarios will be supplemented with M&S.
- Identify and describe LVC requirements.
- Identify M&S resource requirements in Part IV.
  - o *M&S for LFT&E Guidance*