

Realistic Operational Conditions – Examples

Example TEMP entry for generic sonar system:

3.4.1 Operational Test Events and Objectives. OT will be conducted using an event driven and operationally realistic end-to-end scenario. Data gathered during previously completed IT and DT events with production-representative test articles will be considered in the evaluation. OT will be conducted using test events designed to assess all required capabilities of the sonar system and the ship's crew in operation of the system. The scenario will require the system to provide Undersea Warfare surveillance support to a Naval Strike Group. Within this scenario, the Blue Force test ship will sortie from port, conduct active, passive, and coordinated USW with friendly forces, and return to the port. USW operations will be conducted in deep, open ocean waters and Littorals against SSK and SSN threats executing validated threat tactics. Test sites will include representative levels of neutral shipping to provide realistic levels of interfering contacts. Threat forces will be tasked to aggressively pursue and attack the Naval Strike Group, and may preemptively engage the Blue Force test ship if possible.

Example TEMP entry for generic utility helicopter:

3.4.1 Operational Test Events and Objectives. The IOT will be conducted at a training center with appropriately equipped and trained pilots and maintainers. Vignettes will include company-level air movement, air assault and CASEVAC missions. Vignettes will be conducted with five LRIP Dakota digital and five Baseline analog aircraft side-by-side in wartime OPTEMPO as prescribed by the OMS/MP. Dakota aircraft will complete 150 hours of record test.

The IOT will start with a communications exercise to verify the aircraft communication systems meet interoperability requirements and to verify proper integration with the Tactical Internet. The Assault Helicopter Company leadership and portions of the battalion staff from the Assault Helicopter Battalion and the Aviation Unit Maintenance (AVUM) Company will participate in the test. An Infantry Company and an Artillery Battery will act as the supported unit.

Testing will focus primarily on vertical maneuver missions in an operational environment against appropriate validated threats. Representative threats (RF, IR, laser) will stimulate aircraft survivability equipment (ASE) to demonstrate proper integration and display, and evoke appropriate responses/flight maneuvers from flight crews. Brigade and below level operations orders will be provided to the headquarters staff for dissemination and execution by the lift element. Maintainners will employ the two level maintenance concept.

IOT Company level missions will emphasize navigational capability; day/night operations; interoperability (communication), situational awareness and other key performance parameters.

Simulated maneuver forces will be used to augment live maneuver forces to portray a realistic Common Operating Picture (COP). Operationally realistic command and control,

Realistic Operational Conditions – Examples

threat and friendly forces will be provided. A "Blue Cell" C2 element will perform the responsibilities of the higher level HQ and provide direction. A "Red Cell" will perform a similar function for threat forces operating within the scope of the Training and Doctrine Command (TRADOC) approved test vignettes. A "White Cell" consisting of Battlefield Operating Systems nodes not otherwise represented in other cells, or live, will serve to coordinate test matrix execution and perform test control functions. The simulation cells will serve to generate a real, partially correct, or false COP; stimulate communications; stress the command element; and, most importantly, to stimulate the aircrews.