

Reliability Simulations to meet the needs of a changing Army

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Abstract

Precision Fires Project Office is actively planning to support the US Army transformation to meet a wider range of threats in a set of operating environments. Army transformation necessitates development of a strategically responsive force. High Mobility Artillery Rocket System (HIMARS) is the vehicle in the Multiple Launch Rocket System (MLRS) Family that will meet these requirements. The Precision Fire Project Office is using process simulation as one of the tools to project required resources for HIMARS sustainability. Developed simulation models predict demands caused by failures for Line Replaceable Units (LRUs) that contribute to the total Operation and Sustainment (O&S) cost for the system. Demands are simulated based on the Reliability and OPTEMO of the LRUs. Forecasted demands are used to evaluate alternatives based on Reliability and cost.