



UH-60 IMMC Renews Contract with Clockwork Solutions

Austin, TX

For the seventh year in a row, The US Army's Integrated Materiel Management Center (IMMC) has contracted with Clockwork Solutions, Inc. (CSI) to conduct life-cycle modeling and spare parts forecasting for the H-60 Blackhawk aircraft.

Clockwork analysts use CSI's Advanced Total Life-Cycle Assessment Software Tool ([ATLAST™](#)) to build and maintain a stochastic model of the Army's fleet of 1,600+ Blackhawk. The Blackhawk model includes the different variants of H-60s – UH-60A, UH-60L, & UH-60M; the various Line Replaceable Units (LRU) installed - both common and unique among the variants; and components and sub-components up to five indenture levels deep. The model also includes observed LRU failure rates by the number of overhauls; planned operational usage of the aircraft; field, intermediate, and depot repair practices; initial LRU supply posture; future buy plans of both aircraft and LRU; and more.

Although the ATLAST™ model can be used to answer a myriad of life-cycle and programmatic questions, the IMMC is mostly interested in spares required to maintain aircraft availability. Among other things, CSI has been called upon to forecast future LRU demands over a period five years or more, produce and test an LRU buy plan, analyze the effect of introducing an LRU with improved reliability, forecast the required depot monthly output for LRU overhauls, and plan options for dealing with parts obsolescence. Also, CSI's demand forecasts have been used to facilitate the negotiation of Performance Based Logistics (PBL) agreements in which both the government and the manufacturer used the demand forecast in the negotiation process.

We at Clockwork Solutions are proud of our service in support of Army Aviation Fleet Management and look forward to continuing this work in the future.

About Clockwork Solutions (www.clockwork-solutions.com)

Clockwork Solutions develops and provides advanced availability and life cycle performance modeling and simulation technologies and conducts modeling support and consulting services. Clockwork is proud of the work it is doing across the defense services to improve supportability of systems through performance based modeling and forecasting.

Clockwork Solutions' proprietary modeling technology, SPAR™, uses unique fleet/system discrete event simulations to build comprehensive, reliability-based predictive models of complex assets and their operational and logistical environments, such as a fleet of aircrafts, missile systems, a power plant and its distribution system, a group of chemical plants, etc.



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Clockwork Solutions' customers include the US Army, the US Marine Corps, US Navy, Lockheed Martin, Raytheon, EADS Astrium, the Israeli Defense Forces, GE Aircraft Engines, Sikorsky Aircraft, Chevron, ConocoPhillips, and many others. Clockwork Solutions, Inc. is headquartered in Austin, TX, with satellite offices in Huntsville, AL and Stafford, VA.

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