

ATLAST Forecast of Coating H60 Main Rotor Blades: Increased Savings and RFI Levels

Austin, TX

Clockwork Solutions has carried out a study on Life Cycle performance at the introduction of main rotor blade (MRB) Hontek coating to the H60 fleet, and the effect on the spares posture of the blades. During this study, Clockwork observed the effect of altering the allowable cut-off age for a blade to be coated, and carried out a cost/benefit analysis on the merits of coating all main rotor blades. Two key outputs are spare stock levels (by coated and non-coated) and the number of upgrades (coatings) at the depot. Coating only occurs at CCAD, at a maximum rate of 120 blades a month.

After some assumptions concerning depot programs were made, the ATLAST model determined that the depots have been fully loaded with no disruption in performance. To some degree, these assumptions have been conservative since no improvements have been made outside of SWA. As field data was generated, any reliability improvements were measured.

The potential saving in Depot overhaul costs is \$12M over the next 10 years. Additionally, the reduction in maintenance actions will see the ready for issue (RFI) levels increase by about 120 MRB's.

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 Monte Carlo algorithms 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.

Clockwork Solutions' customers include the US Army, the US Marine Corps, JPO MRAP, Lockheed Martin, Raytheon, EADS Astrium, the Israeli Defense Forces, GE Aircraft Engines, Chevron, ConocoPhillips, and many others. Clockwork Solutions, Inc. is headquartered in Austin, TX.

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