

VECTORSUSTAINSM

Sustaining the Entire Aircraft Lifecycle and Beyond

For the Complete Lifecycle

VectorSustainSM is Hexagon US Federal’s continuous process to sustain military aircraft (fixed wing and rotorcraft) from initial fielding through retirement, and ensure the ongoing applicability and effectiveness of the Scheduled Maintenance Program (SMP). With over a decade of experience in the Department of Defense, the U.S. Air Force has relied on Hexagon technologies to promote accurate and efficient aircraft maintenance.

Distinguishing Characteristics and Benefits

VectorSustain provides lifecycle sustainment of SMPs through continuous fleet surveillance and process improvement. It creates, edits, searches, and reports on individual maintenance tasks to establish and sustain the approved SMP. Program specialists work in an intuitive, browser-based environment and perform continuous review of fleet performance considering reliability, SMP effectiveness, inspection findings, functional check reports, corrosion findings, and more. VectorSustain directly complements Hexagon’s VectorMxSM solution. While VectorMx builds new re-baselined SMPs, VectorSustain ensures SMP currency (effectiveness and efficiency) over the aircraft’s lifecycle. Executed under the appropriate customer authority, continuous monitoring of individual aircraft and fleet-wide performance ensures the SMP keeps the fleet healthy.

A Continuous Process

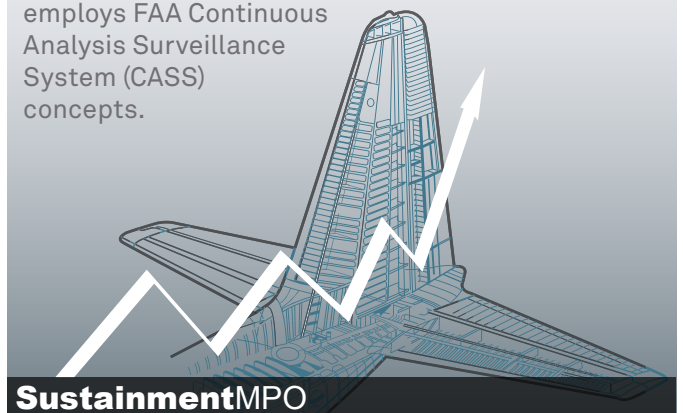
VectorSustain consists of proven, commercially-derived Hexagon processes and products such as InsightDecisionSM and InsightSustainSM. Using VectorSustain’s powerful set of Web-based tools, reliability specialists continually cleanse and analyze aircraft maintenance and operational data to detect negative performance at the earliest opportunities.

When a negative trend is identified, analysts “drill down” to determine the root cause. Once the problem source is ascertained, maintenance experts use MSG-3-based logic to identify the corrective actions necessary to restore fleet health. They crosscheck the SMP, contained in InsightSustainSM, to review its sufficiency for the problem area. If SMP changes are deemed necessary (task addition/deletion, task escalation/de-escalation, work card revision, etc.), the recommended changes are fully developed and presented to the MPO for approval and implementation. If the performance of a particular system and/or component has deteriorated below its inherent level, reliability and maintenance specialists provide engineering with the necessary analytical and technical support to determine the best return-on-investment actions.

VectorSustain uses a Maintenance Program Office (MPO) construct to provide an integrated structure, environment and resources to sustain the SMP. The result is a dynamic SMP that adapts to the aircraft’s changing lifecycle needs to ensure its safety, maximize reliability, and minimize cost.

Maintenance Program Office (MPO)

The MPO continuously monitors effectiveness of the maintenance program and makes improvements based on results. It also employs FAA Continuous Analysis Surveillance System (CASS) concepts.



Increase Safety and Reliability, Reduce Costs

VectorSustain ensures VectorMx SMPs remain current and are continuously refined as aircraft age, are exposed to new environments, fly new operational profiles, and are modified. The result: inherent safety, enhanced reliability/mission capability, and further cost reductions.



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About Hexagon US Federal

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