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The Journey to Incorporate Health Monitoring and Condition Based Maintenance of Sikorsky Commercial Helicopters

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This paper is a discussion of the journey Sikorsky Aircraft Corporation (SAC) is on to incorporate vehicle health monitoring (VHM) and condition-based maintenance (CBM) capabilities into all our products. The paper focuses on SAC's S-92® aircraft, which was introduced in 2004 and was the first commercial helicopter fielded with a state-of-the-art HUMS integrated into the baseline aircraft. From day one, SAC has collected aircraft generated data and established data management, analysis, and decision making processes to provide maximum benefit to the operator with reasonable man-in-the-loop support. The paper discusses the development of automated processes for collecting data daily from operators from around the world; analyzing, trending, and flagging data for follow-up by subject matter experts; and mining data to establish normal versus anomalous behavior. The paper will also discuss SAC's Fleet Management Operations Center (FMOC) which was created to promote a collaborative environment between subject matter experts from various engineering and support services groups and to quickly recommend appropriate maintenance actions. Lastly, the paper discusses SAC's efforts to develop processes that can be used to achieve maintenance credits (e.g., TBO and retirement time extensions) and to expand health management across all aircraft subsystems.

Ключевые слова:

Содержание.

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