

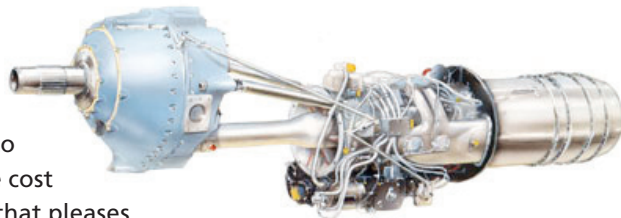
Reliability-Based Fleet Management: Measuring Decisions in a Complex World

Our Customer's Problem: Deciding in the Dark

Today's fleet management issues are so complex that they leave many aviation companies in the dark. These operators must make decisions affecting fleet reliability and readiness costs without fully understanding all the variables and linkages that affect aircraft performance and produce detrimental outcomes.

Suboptimal performance – cancelled flights, late arrivals, system breakdown and other factors – and the excessive operational costs associated with these failures are obvious problems, but less apparent issues – reduced customer satisfaction, lower competitive stature and damage to reputation, to name just a few – can be equally serious.

Clearly, solving the fleet management riddle calls for reliance on an expert in the field with the resources and acumen to shed light on decision-making and ensure cost savings and high performance standards that pleases regulators, meets stakeholder expectations and delights everyone who flies.



Solution: Reliability-Based Fleet Management

Reliability-Based Fleet Management (RBFM) can light the way and handle the tasks that make fleet management issues so worrisome. The system's capabilities and extensive resources cover every aspect of these difficult requirements to ensure aircraft and support systems are ready to meet customer demands. Complex MRO concerns require comprehensive solutions, and RBFM applies this approach to every task the system addresses to keep aircraft flying. For example, during an engine maintenance operation, system technicians obviously repair all failed components, but they also complete preventive maintenance and repair when economically feasible on other parts that are likely to fail during the next operational cycle. This principle underlies the Reliability-Based Fleet Management system.



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Reliability-Based Benefits

RBFM's disciplined focus on reliability and availability helps customers achieve their operational and financial goals by providing maintenance and related support services at the lowest possible cost per operating hour. Integrating maintenance for aircraft, components and systems in a coherent, standardized structure guarantees reduced cost and improved efficiency.

RBFM is inherently systematic and based on statistical modeling, which means operators can predict future costs with the same precision that they measure current expenses and accurately specify spares inventories. It helps to prioritize maintenance activities as a function of the impact of specific parts on

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cost and reliability. The system also evaluates the potential advantages of aircraft and system upgrades as a function of component life cycle costs. In addition, it provides accurate measures of fleet utilization to determine the expected service life of most parts as well as optimal phase-outs when equipment approaches obsolescence.

Application of proven statistical methods will enable RBFM to apply system processes and engender savings down to work-cell levels by shifting resources to meet anticipated maintenance and availability requirements.

Customers: Results Worth Replicating

Operator response to the Reliability-Based Fleet Management approach has been strong and positive. The U.S. and Canadian armed forces and several leading manufacturers have praised the system's new approach, which has been recognized recently with the U.S. Department of Defense Maintenance Symposium's Best Idea award. These organizations know what they're talking about. Abundant documented evidence supports the value of the approach. Reliability-Based Fleet Management accurately predicted APU reliability improvements more than five years ago. One customer saved \$2 million over the life of a contract by optimizing the scope of work on turboprop engine maintenance. Another operator increased the time on wing of a large turboprop engine used on

transport aircraft by 20 percent over three years and reduced unscheduled engine removals by the same amount. Finally, a manufacturer increased production of on-condition maintenance gear boxes, increasing gross earnings by about \$5 million per year.



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Future Fleet Management: A Unique Capability

The Reliability-Based Fleet Management approach offers unique improvements to comprehensive MRO support services, and StandardAero is the acknowledged subject matter expert in the field, ready to evolve with the entire industry as it implements the system's processes. The system's capabilities embody an integrated strategic approach to the complex issues that fleet management creates.

The system's purpose is to set a high standard for the entire aerospace industry that will simplify major maintenance and administrative systems and procedures. This will help to generate new levels of operational efficiency and cost reductions. By making aerospace operations safer, more reliable and less expensive, RBFM will help to create continued growth and progress as demands for aviation services increase. The system's concepts will lead aerospace operators toward a bright, productive and profitable future.

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Conclusion: Leading Fleet Management

StandardAero measures its history from the earliest days of flight and figures the future from its vantage point as leading provider of aviation support services. Today, the company features the talents and commitment of nearly 4,000 people from four outstanding enterprises that helped to shape a variety of aerospace support activities for a global customer base. StandardAero is setting the pace for fleet management, including comprehensive maintenance, repair and overhaul for every aircraft system and component. The company also handles exterior and interior design and fabrication, training services, process documentation, spare parts management and quality assurance.

StandardAero's industry experience spans decades, and the company operates from major facilities in the U.S., Canada, Europe, Australia and Singapore, with 14 other strategically located service and support centers around the world. Annual revenues of \$1.5 billion make the company solidly among the leaders in fleet management, keeping aircraft ready for reliable flight and minimizing time on the ground. StandardAero's expertise focuses not just on fleet management services, but also on the strategic direction of aviation MRO and related industries. It brings exceptional skill and understanding

to the issues that define fleet operation and management, with a finely tuned focus on high quality service delivery, safe operations and complete customer satisfaction for the entire StandardAero global client family.

StandardAero's industry leadership and broad vision are tied directly to the performance of every individual in the company and guide work at every level of the enterprise. Consistent commitment and dedication to excellence is a hallmark of employee activities and makes StandardAero a trusted service provider and partner for the aerospace industry it supports every day.

