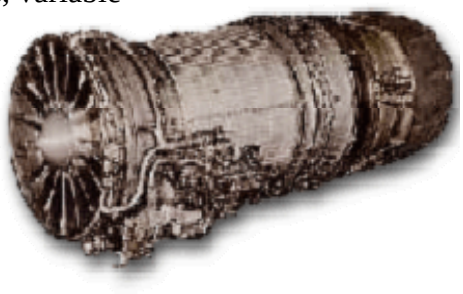
CLOCKWORK SOLUTIONS

PRODUCT APPLICATION

Tinker Airforce Base - United States Air Force
GE F100 Family of Engines

Clockwork has just completed Phase 1 of **RAMSS (Requirements, Analysis, and Management Support System)**, a production requirements forecast system for the GE F100 family of engines for use at the Oklahoma City Air Logistics Center (OC-ALC). This system addresses a critical United States Air Force (USAF) need — accurate production requirement forecasts. D041, the USAF's current system, uses historical supply system data to project a future profile of demands, repairs, condemnations, and buys per National Stock Number (NSN). Because D041 was designed to handle all of the USAF's weapon systems—one size fits all—it is forced to use generic, system-independent forecasting methods that ignore the singular aspects of individual weapon systems.

Engines possess several unique attributes that render inaccurate forecasts rooted in simple extrapolation of past demands. Age-based Engine Safety Inspection Program (ENSIP) activities, variable ratios of Total Accumulated Cycles (TACs) to flying hours, component wear out, sunshine repairs, and an evolving base of Technical Orders (TOs) and Time Compliant Technical Orders (TCTOs) are but some of the reasons for employing a more sophisticated approach.



Clockwork utilizes its SPAR™ predictive modeling technology as the platform for **RAMSS**, a high-fidelity, auditable link between the production requirements forecast and projected fleet performance.

RAMSS is expected to:

- Improve War Ready Engine (WRE) levels and Engine Non-Mission Capable Supply (ENMCS) rates through the use of more accurate production requirements forecasts;
- Provide decision makers with insight into the future effects and impact of budget decisions;
- Strengthen the effectiveness of materiel management personnel by providing them with tool that enables them to identify proactively bad actors and to quantify the value of proposed engineering and support changes;
- Enhance allocation of current year funds for parts acquisition;
- Improve decision-making processes by quantifying the impact of contemplated decisions on WRE levels and ENMCS rates.

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RAMSS operates within the existing USAF information system environment and uses data extracts from USAF systems. USAF personnel use it as a decision support tool, exploring the impact on the F100 fleet performance of alternative budget and technical decisions. At the conclusion of each analysis, **RAMSS** produces factors and other inputs required by D041 to create a forecast.

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