

A GLOBAL STRATEGY

The Accelerated Approach to Advanced Aviation and Aerospace Manufacturing



The globalization of the aviation and aerospace industry is fundamentally changing the manufacturing operations that support it.

While advanced manufacturing demands are complex, costly and time consuming, the margins of error that accompany them have tumbled to all-time lows. Today, program efficiency is absolutely essential.

It's within this reality that two companies — J.M. Mullis and Haskell — have partnered to deliver the industry's most effective approach to manufacturing facility establishment. A partnership united to provide a strategic, single-source solution for aviation and aerospace manufacturing facilities that excel from program development through execution.

Our proprietary approach — called Sequenced Selection™ — accelerates program establishment, effectively accomplishing what can take up to four years in as few as 18 months. Sequenced Selection means problems aren't just solved; they're solved in the right order, and in tandem during the initial phases of facility establishment. It's how we deliver *across-the-program efficiencies*.

Joint Offering

- ▶ Program Development & Planning
- ▶ Production System Engineering
- ▶ Architectural & Engineering Design
- ▶ Incentive Analysis & Negotiation
- ▶ Site Selection
- ▶ Procurement
- ▶ Design-Build

Demonstrated Results

- ▶ Objective program analysis
- ▶ Accelerated project realization
- ▶ Program-wide efficiency
- ▶ Optimized location

Representative Clients

- ▶ Blue Origin
- ▶ Boeing
- ▶ Gulfstream
- ▶ Lufthansa
- ▶ SAFRAN Aerospace
- ▶ Spirit Aerosystems



1. Program

The success of facility realization ultimately lies within program development. Involving both J.M. Mullis and Haskell in this critical conceptual phase ensures not only that the traditional due diligence associated with site selection takes place, but also that facility design informs the process. Initial budget, timeline and vendor qualification issues are addressed alongside factors including supply chain, raw material access, labor availability and other considerations that amplify operations and productivity. This kind of parallel teamwork on the front end optimizes project quality while saving valuable time and resources in later stages.

2. Planning

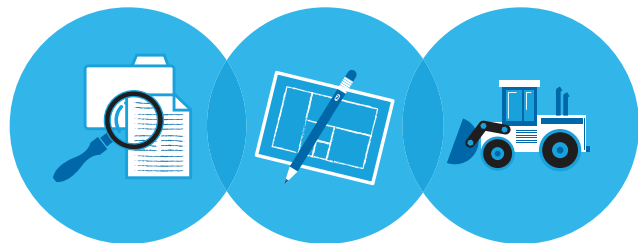
Having addressed the proper site selection and initial design criteria in your facility program, we move quickly to establish a detailed facility plan that will meet your specific manufacturing objectives. From final site selection through detailed design and capital approval, we develop a road map that enables your facility to experience the proven efficiencies of Haskell’s design-build methodology.

3. Execution

Program and planning phases pave the way for a coordinated execution strategy that can get underway immediately. Here, we put our design-build expertise to work in meeting key facility milestones such as procurement, construction and start-up — all in a way that achieves cost and scheduling goals while allowing you to focus on your core business. With a project management approach that features single-source accountability, you can benefit from reduced risk and certainty of outcome.

Through the collaboration of J.M. Mullis and Haskell, aviation and aerospace manufacturers now have a facility establishment solution in tune with the demands of a global marketplace. It’s a pairing with the proven ability to drive facility performance, optimize cost and resource requirements, and mitigate risk along the way.

SequencedSelection™



PROGRAM

PLAN

EXECUTE



CONTACT:

Greg Akers
 Division Leader
 (904) 791.4686
 greg.akers@haskell.com



111 Riverside Avenue
 Jacksonville, FL 32202
 (904) 791.4500



3753 Tyndale Drive
 Memphis, TN 38125
 (901) 753.0373