ACES II 21 Year Service Life Extension

After Seven 36-Month Phase Inspections, it’s time for an Overhaul!

In the 1970s, the development of the Advanced Concept Ejection Seat (ACES II) met and exceeded the challenges of the day. For over 40 years the ACES II Seat has been inspected every three years, yet, ACES II has never been overhauled.

Some ejection seat manufacturers mandate OH every six years. The ACES II ejection seat has a 36 month “phase inspection” as its only scheduled maintenance requirement. After 20+ years of flying structural integrity and stress corrosion are critical safety issues that can go undetected through today’s scheduled inspections.

Decades of experience with the ACES II seat, Task Aerospace egress system experts have developed a 21-Year life extension OH and inspection process that will verify seat reliability for years to come.
THE 21-YEAR ACES II OVERHAUL PROCESS

Today’s aircrews are flying higher, faster, and more aggressively. With aging F-16 fleets, reliability of the Ejection Seat is more critical than ever.

As airframes undergo Service Life Extension Programs, a 21-Year Seat Overhaul is recommended to ensure system confidence and reliability.

Aircrews must have complete confidence that the Ejection Seat will function properly, EVERY TIME!

- Inspection and Overhaul process per military specifications
- Remove all subcomponents, cables, hoses, handles, and hardware
- Remove and Overhaul STAPAC Assembly
- Media blast the entire seat, removing paint and primer
- Non-Destructive Inspection of Critical Areas, insuring structural integrity
- Condition Inspection of entire seat, components, and subcomponents
- Perform Metal Repairs and Apply Coatings as required
- Prime & paint complete seat and sub-assemblies per tech order
- Replace/install subcomponents, cables, hoses, handles, and hardware
- Perform all System Level and Component Level Tests and Verifications
- Record all actions taken on the appropriate forms
- Provide Certificate of Conformance to ACES II TO 13A-56-11, signed by DoD certified Master Egress Technicians