

US ARMY AVIATION IMPROVED TURBINE ENGINE PROGRAM (ITEP) TMRR & EMD PHASES

Tradeoff Studies,
Product Support Analysis,
Maintenance Planning

ALE has been the Product Support Analysis (PSA) subcontractor to GE Aviation for the US Army Improved Turbine Engine Program (ITEP) thru the competitive TMRR phase and current EMD phase. GE's Product Support Program was a contributing factor in the US Army's down-select to the T901-GE-900 turboshaft engine to power the H-60, AH-64, and next generation vertical lift platforms.

ALE continues to be an integral teammate during the ITE Program, having contributed PSA experience and expertise to this development program for over five (5) years. ALE is executing a tailored supportability program that integrates Maintainability Engineering, Human Systems Integration/Human Factors Engineering (HSI/HFE), Support Equipment Engineering, and Technical Publications efforts to both influence the engine design for supportability, and design a robust and complete support system for the fielded engine. We have been able to utilize the over 30 years of GE T700 engine experience powering these same platforms to optimize the maintenance strategy, while leveraging the significantly enhanced Engine Health Monitoring and Controls System to increase engine availability and reduce maintenance burdens. Additionally, ALE has accelerated the development of a comprehensive SAE GEIA-STD-0007B compliant Logistics Product Data (LPD) database that will support development of the Integrated Product Support (IPS) elements (such as Technical Manuals, Provisioning, and Support Equipment), and provide detailed source data for the US Army to conduct organic maintenance planning.

Under the GE T901 TMRR and EMD contract phases, ALE has been responsible for the following analyses and associated deliverables IAW SAE TA-STD-0017, as well as keeping the US Army customer abreast of PSA activities and results using the Integrated Product Team (IPT) construct:

- Integrated Product Support Plan / Product Support Analysis Plan
- Functional Requirements Analysis
- Task Inventory
- Evaluation of Alternatives and Tradeoff Studies / Support System Alternatives
- Support System Standardization
- Maintenance Planning

ABOUT ACQUISITION LOGISTICS ENGINEERING (ALE)

Acquisition Logistics Engineering, ALE, is a full service Life Cycle Engineering company specializing in reducing total ownership cost and increasing availability of complex systems and equipment. We work closely with our customers to combine their technical expertise in system design with our in-depth understanding of issues associated with system operation and sustainment. This approach enhances reliability, maintainability, and safety, while at the same time reducing maintenance burdens and developing the logistic support capability needed for system success.

