



US Army OPTICAL SIGHT SYSTEM

Life Cycle Cost,
Reliability, Safety,
Technical Manuals

In support of the fire control system for the next-generation service refile, ALE was selected to assess the logistic impacts of various design alternatives and support the definition and development of an effective support system.

ALE applied its specialty engineering analysis capabilities and experience in working logistic issues for complex systems to accomplish the following tasks:

- Participate in trade studies to select the optimum design alternative
- Participate in design reviews and Integrated Program Teams to successfully integrate supportability into the system design process
- Perform Reliability Analysis and Life Cycle Cost analysis to identify key performance and cost drivers
- Perform Failure Mode, Effects, and Criticality Analysis (FMECA) and System Safety Hazard Analysis to identify potential hazards and critical safety issues during design
- Develop Technical Manuals to provide accurate operating and maintenance instructions

ALE's early participation in the program helped the team select the best design alternative that met performance requirements while minimizing the overall life cycle cost of the program. As part of these early efforts, ALE performed a preliminary logistic support analysis to establish supportability objectives, establish supportability related design goals for the team to work towards, and to identify critical support issues for early mitigation.

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.



*Making Systems Affordable
& Sustainable*

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