

Background

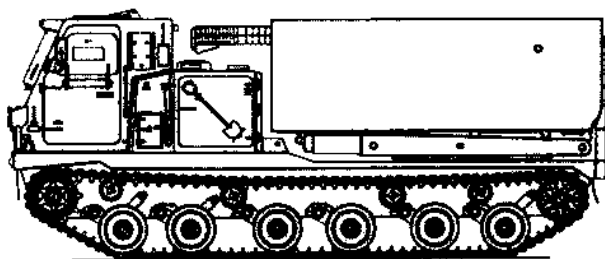
This Case Study provides an example of a large and comprehensive Integrated Logistic Support (ILS) programme at both early and development phases of the Life Cycle. The Aspîre Highly Integrated Support Planning (H-ISP) Project Support methodology was used.

Aspîre's approach ensured **interdependence of the analytical activities**. An evolutionary transition, from theoretical analyses through Supportability and Reliability and Maintainability (R&M) Cases to **practical deliverables** targeted at the end User, was achieved.

Acting on behalf of EADS Dornier, Aspîre was contracted to provide Supportability Engineering programme management and conduct analyses, together with the provision of high level consultancy advice to the prime contractor management team for the European solution for the new Multi Launch Rocket System (MLRS) European Fire Control System (EFCS).

This Project did not have a specific, customer defined Standard requirement (e.g. Defence Standard 00-60) and therefore, the whole approach was engineering and 'value added' driven with each activity having to be justified as to its beneficial contribution to the overall process.

Aspîre applied state-of-the-art Supportability Engineering expertise, enhanced by wide experience, to provide a pragmatic and cost-effective solution to the challenges posed by this innovative project.



ILS Programme Manager

Aspîre provided the ILS Programme Manager for the Technical Demonstration and Development Phases of the Project.

The Programme encompassed a wide range of activities and Engineering tasks including the establishment of a Defect Reporting and Corrective Action System (DRACAS), LSA, R&M, Training Needs Analysis (TNA) as well as addressing the interfaces with, Technical Publications, Integrated Supply Support, the Human Factors programme and Through Life Cost (TLC).

The programme consisted of **multiple iterations of the process** (a demonstration of the evolving development of information and deliverables).

The Aspîre Project Management Environment (APME) toolset was utilised and clearly demonstrated the **benefits of mapping Requirements to the activities** being performed.

For More Information about Aspîre Project Support please **CONTACT US**.

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Aspîre

Logistic Support Analysis (LSA)

Teamed with Dornier Consulting, Aspîre conducted the LSA.

A significant number of analyses were performed and included;

- Requirements Analysis and Identification
- Functional Analysis
- FMECA (to Military Standard 1629)
- Damage Modes Effects Analysis (DMEA) (to Military Standard 1629)
- Software Support Analysis (Defence Standard 00-60 Part 3)
- Task Identification & Analysis
- Development of Support, Maintenance and Diagnostic Concepts
- Level of Repair Analysis (LoRA)
- Spares Ranging and Scaling
- Sensitivity Analysis
- Testability Analysis
- Maintenance Planning
- Generation of a Support Case

Reliability and Maintainability Analysis (R&M)

Aspîre conducted the R&M analyses. This included providing guidance and direction to the sub-system suppliers and the collation and interpretation of data to provide an effective set of analytical activities at the System level. Analyses included:

- Requirements Analysis and Identification
- FMECA
- Reliability Modelling
- Maintainability Modelling
- Sensitivity Analysis
- Generation of a Reliability Case

Through Life Costing (TLC)

Aspîre provided assistance to the TLC programme encompassing the planning of the TLC programme, the generation of a comprehensive Cost identification and collation management tool.

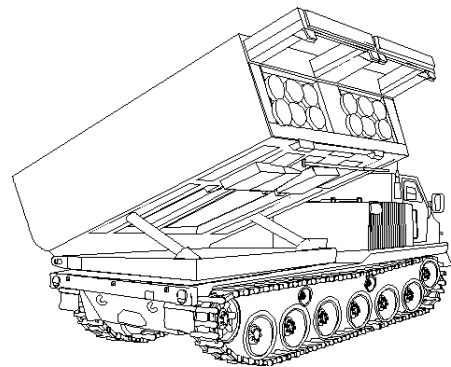
Aspîre populated the tool with data derived from a number of contributing areas (e.g. Programme Management, Production, Commercial and Support) and conducted the analysis and preparation of Summary Reports for inclusion in the formal Commercial Proposal to the EFCS Project Team and Customer (BWB).

Training Needs Analysis (TNA)

Aspîre conducted TNA and identified training requirements and preferred methods of implementing that training.

The TNA encompassed the principles of UK JSP 502 and provided a cost effective interpretation of these guidelines.

The activities included the performance of a Training Study and the generation of a TNA Scoping Study Report, followed by an Operational Task Analysis (OTA), a Training Gap Analysis (TGA) and a Training Options Analysis (TOA).



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