

What is R&M?

R&M is a discipline that utilises tools and techniques for establishing, monitoring, assessing, proving and improving the Reliability and Maintainability characteristics of equipment.

If R&M is used during the design process it results in equipment that is **more cost effective**, throughout its life, to operate.

About Aspire R&M

A complete range of specialist personnel are available who understand and analyse the product in terms of R&M and its interaction with the design, ensuring that the operational effectiveness is maximised whilst still achieving optimised through life costs.

Aspire works within the UK MoD and the UK and international defence industries. We routinely provide comprehensive R&M Cases following the format and policy of Defence Standard 00-42 Part 3, including deliverables as contained within the Defence Standard 00-40 Series.

The R&M Case is a reasoned, auditable argument created to support the contention that a defined system satisfies the R&M requirements.

We have sound knowledge and experience of system Progressive Assurance (A holistic term to describe the planning, test, evaluation, assessment and measurement techniques and methodology required to determine the effectiveness of a system within the design and through life).

For More Information about our R&M services please **CONTACT US**. We will arrange for a Subject-Matter-Expert to talk to you.



Aspire R&M Services:

- Proposal preparation
- Programme tailoring and management
- R&M tasking
- R&M Case preparation
- In-service R&M support
- Reliability and Maintainability Trials
- Reliability Demonstrations
- Training in R&M Principles & Techniques
- R&M Modelling including Scenario Modelling
- R&M Allocation & Prediction
- Fault Tree Analysis (FTA)
- FMEA / FMECA / DMEA
- Reliability Centred Maintenance (RCM)
- Critical Items Lists
- FRACAS / DRACAS
- Requirement capture and flow down
- Maintainability Analysis
- Qualification Testing
- Testability Analysis etc.
- Monte Carlo Analysis
- R&M Model Development & Construction

Aspîre

Benefits of Aspîre R&M

Use of the Aspîre R&M Engineering approach and products provides the following benefits:

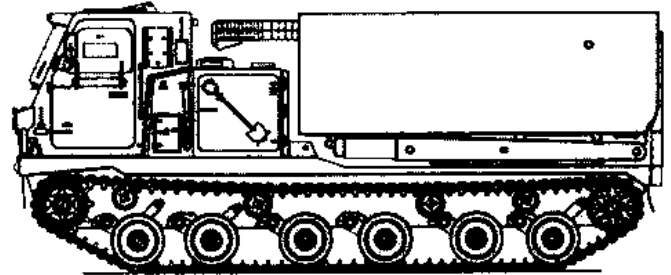
- ❑ Tailored approach based on the exact needs of the programme reducing the cost of delivering the final Support Solution
- ❑ Pragmatic, practical approach to problem solving
- ❑ Knowledge of the MoD, the UK Military, and Military R&M activities within an overall Supportability Engineering Programme
- ❑ Understanding of the complete Military Support infrastructure (as opposed to focusing exclusively on front line troops)
- ❑ Extensive IT skills can be deployed to develop prototype software and support R&M activities
- ❑ Ability to translate concepts and theory into practical solutions or processes
- ❑ Through Life Management Planning and Through Life Costing capabilities

Inflatable Decoys & Training Systems



Aspîre provided bid support, designed and implemented a pragmatic R&M programme that was appropriate and affordable for a small system / project.

A tailored program of R&M analytical tasks identifying the R&M risks was performed, thus **providing assurance that the design satisfied the customer requirements.**



Multi Launch Rocket System (MLRS) European Fire and Control System (EFCS)

Acting on behalf of EADS Dornier Aspîre managed the R&M program and 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
- ❑ Failure Modes Effects and Criticality Analysis (FMECA)
- ❑ Reliability Modelling
- ❑ Maintainability Modelling
- ❑ Sensitivity Analysis
- ❑ Generation of a Reliability Case



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Aspîre Scandinavian Office:
Boasstigen 6
S-691 33 Karlskoga
SWEDEN.
Tel: +46 586 817 22
Fax: +46 586 817 29
Email: info@aspirecl.com
Website: www.aspirecl.com

