



Ministry  
of Defence



## **ABEO: Improved Rocket Propelled Grenade Protection Post Design Services**

### **Statement of Work**

<b>Issue:</b>	Version 1.3
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**AUTHORISATION**

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**AMENDMENTS**

Issue No.	Date	Incorporated by	Para	Details of change
1.0	06/06/2016		-----	First Version Released
1.1	28/07/2016		-----	Revision of required work
1.2	01/12/2016		3.6	Revision of reporting information
				Changes to contract closure information
1.3	06/12/2016			Rectification of mistakes Removal of repeated items in other contractual documents

**ACRONYMS & ABBREVIATIONS**

<b>Acronym / Abbreviation</b>	<b>Definition</b>
ABEO	ABEO is a Project name with no meaning
AESP	Army Equipment Support Publication
ALARP	As Low As Reasonably Practicable
CI	Capability Improvement
DAIB	Defence Accident and Investigation Board
EFR	Equipment Failure Report
GVW	Gross Vehicle Weight
IRPGP	Improved Rocket Propelled Grenade Protection
PM	Project Manager
PMVP	Protected Mobility Vehicle Programme
POCs	Points of Contact
POEMS	Project Orientated Environmental Management System
POSMS	Project Orientated Safety Management System
PDS	Post Design Services
QAR	Quality Assurance Representative
RPG	Rocket Propelled Grenade
TARIAN	Tarian RPG Protection System - MOD project name is ABEO
SOW	Statement of Work
SPoC	Single Point of Contact
UKAS	United Kingdom Accreditation Service
UOR	Urgent Operational Requirements
UV	Ultra Violet

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# 1 APPLICATION

## 1.1 General

- 1.1.1 This contract is intended to provide Design Authority support for the ABEO/Tarian RPG protection system in service with the UK Armed forces, specifically that of which fitted to the Protected Mobility Vehicle Fleet. The current equipment has an Out of Service Date circa 2020.
- 1.1.2 This document applies to services provided by AMSAFE BRIDPORT herein in referred to as "**The Contractor**" on behalf of Protected Mobility Vehicle Programme (PMVP) herein in referred to as "**The Authority**".
- 1.1.3 This document applies to the Tarian RPG Protection System Procured in 2010 under the project name ABEO, herein in referred to as "**The Equipment**".

## 1.2 Core Services

- 1.2.1 This document identifies the work to be provided as a **Core** service for all Design Services.

## 1.3 Non-Core Services

- 1.3.1 This document identifies the work to be provided as **Non-Core** services but is not exhaustive. Non-Core services are tasks provided by The Contractor that fall outside the scope of the Core services. No Non-Core tasks shall be undertaken until authorised to do so in writing by The Authority's Commercial Officer, in accordance with the tasking agreement defined in the Contract.

## 1.4 Performance Monitoring

- 1.4.1 Any services provided by The Contractor within this Statement of Work (SOW) will be subject to performance monitoring by The Authority in accordance with the terms and conditions of the Contract. A list of deliverables is shown at Appendix A to the SOW.

## 2 DESIGN SERVICES

### 2.1 General

2.1.1 This document defines the Design Services delivered to The Authority through a single portal by The Contractor. Services delivered fall into the following key area:

- (1) Post Design Services (PDS);

2.1.2 These are **Non-Core** activities.

### 2.2 Definitions/ Scope

2.2.1 **Post Design Services (PDS):** The Contractor and The Authority ensure that the Equipment continues to meet the agreed capability<sup>1</sup> and remains fit in form and function for continued In-Service use by using the services described in this SOW. Should the need arise for PDS, The Contractor is to provide engineering services, ordered and delivered according to this Contract or tasked according to this Contract, to support design changes caused by, but not limited to, issues such as:

- (1) Legislation;
- (2) Safety & Environmental;
- (3) Obsolescence;
- (4) Reliability;
- (5) Maintainability;
- (6) Technological Insertions;
- (7) Equipment Capability;
- (8) Configuration Management.

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<sup>1</sup>Defined within the Acceptance Report. Ref. PMVP/ABEO/AR, 06/03/2015.

### 3 GENERAL ADMINISTRATION

#### 3.1 Design Authority

3.1.1 The Contractor is the Design Authority (DA) for the Equipment as a **Core** service.

#### 3.2 Management

3.2.1 The Contractor shall be responsible for quality, cost effective solutions, effective performance and timely delivery of all Design Services and Management Support under **Core and Non-Core** Services. Management includes, but may not be limited to, the following:

- (1) Liaison with The Authority;
- (2) Managing the Core Services;
- (3) Managing the Non-Core services;
- (4) Preparing programmes and allocating resources;
- (5) Managing sub-contractors;
- (6) Monitoring performance against targets and reporting progress;
- (7) Technical direction of all activities;
- (8) Providing relevant information and details for Incident Sentencing Committee (ISC);
- (9) Codification.

#### 3.3 Authority Focal Points

3.3.1 The Contractor shall provide as a **Core** service a Project Manager (PM), who shall act as the Single Point of Contact (SPoC) for The Authority. They shall maintain internal and external management activities for the Equipment. The PM shall guide the activities of the programme, coordinate the internal support team, serve as the primary interface with The Authority and other ABEO stakeholders. They shall respond to all requests, communication, and actions from The Authority within the scope of the programme and be responsible for any issues and actions that may arise within, but not limited to, the following areas of responsibility:

- (1) Overall Programme;
- (2) Design;
- (3) Training;
- (4) Technical Documentation;
- (5) Spares;
- (6) Issues and Risks;
- (7) Incidents and Failures;

3.3.2 This is considered a **Core** service. The Contractor shall allocate no less than **12 working days per year** for the provision of a SPoC and the routine project management of this contract in accordance with the aspects set out in this SOW.

### 3.4 Meetings

#### 3.4.1 Core Meetings

- i. The Contractor is required to attend an initial meeting following the contract being placed. This shall be known as the Kickoff meeting and shall be chaired by the Authority Project Manager. The meeting shall be held on The Contractors premises and the Contractor shall prepare to contribute the items outlined in Table 1 – Kickoff Meeting Requirements.

Meeting Subject	Remarks	Periodicity	Location
<b>Kickoff Meeting.</b> To include:	Contractor's PM required	Once	Contractors Premises
Identification of persons responsible for both the Core and Non-Core aspects of the contract.	Including, but not limited to: Project Management Engineering Obsolescence Management		
Introduction to the capability: Tarian RPG Protection system	Including background information from the initial procurement of the system.		
Discussion of any Future developments or improvement initiatives	Applicable to the PMVP Fleet of vehicles		
Identification of any foreseeable project risks or issues	Contractor Workload, resource allocation etc.		
Update on equipment hazards and risks	If any different to the Authorities recorded Hazards		
Clarification of formal communication methods with the Authority.			
Clarification/Identification of any KPIs	Those set on the Contractor.		

**Table 1 – Kickoff Meeting Requirements**

#### 3.4.2 Non-Core Meetings

- i. The Contractor shall provide support and attendance at progress meetings as defined in Table 2 – Progress Meeting Requirements, as a **Non-Core** service when such a meeting is required.
- ii. If required, additional meetings as a **Non-Core** activities may include, but not be limited to, Safety, Security, Design and Configuration Control Board, and Incident Sentencing Committee meetings.
- iii. For all **Non-Core** meetings the Contractor shall be tasked to attend with 20 working days of notice and shall submit a quotation utilising the Tasking Procedure within 10 working days prior to the meeting. The Contractor may be required to provide video

conferencing facilities at their premises for use at these meetings, as and when required. Meetings should be combined where possible and could take place over several days where necessary.

- iv. The Contractor shall provide suitable representatives for these **Non-Core** activities to The Authority's satisfaction, who shall input to and support the meetings. In the event that any of the designated representatives are unable to attend a meeting, a suitable replacement shall be provided with delegated authority.

Meeting Subject	Remarks	Periodicity	Location
<b>Progress Meetings.</b> To include:	Contractor's PM required	Ad Hoc	Premises nominated by 'The Authority', usually DE&S Abbey Wood or Amsafe Bridport
• Review of Overall In-Service Status	Including Incidents and Failures		
• PDS Task Review			
• Spares/Repair Review	Overview of any Warranty/Repair issues		
• Design Status/ Technical Issues	Review of any required/recommended design changes		
• Integrated Logistic Support (ILS) Review	To include but not limited to: Army Equipment Support Publications (AESP) update, Training, NATO Codification, Transportation		
• Obsolescence Issues			
• Safety Issues			
• Security Issues			
• Quality Issues			
• Commercial Issues			
• Performance Review (to include Key Performance Indicators (KPI) and Performance Indicators (PI))			
• Risks and Issues Review			
• Fleet Management			

**Table 2 – Progress Meeting Requirements**

### 3.4.3 Minutes of Meetings

- i. The Minutes of Meetings (MoMs) shall be produced by The Contractor for all meetings, **Core** and **Non-Core**. MoMs shall include both minutes of comments and actions raised to be issued as a draft for comment within 10 working days of the meeting. The Authority will provide comments to the draft minutes within 10 working days after being issued by The Contractor. The publication of agreed meeting

minutes shall signal the end of the meeting support responsibility and the resolution of matters arising shall be the subject of tasking requests or through core activity.

### 3.5 **Project Advice and Assistance**

- 3.5.1 The Contractor shall ensure the availability of a single point of contact to The Authority to initiate taskings and provide advice and assistance under these Contract Items. The Contractor shall respond to contact from The Authority within 5 working days.

### 3.6 **Progress Reporting**

- 3.6.1 The Contractor shall upkeep and maintain project data on a management information system. The Contractor shall update the management information data as appropriate.
- 3.6.2 The Contractor shall provide bi-annual progress reports summarising the tasks and efforts undertaken to fulfil the obligations defined within this SOW and contract. The report shall issue these reports in line with DID-001 (Appendix E) to the Authority at 6 monthly intervals from the initiation of this contract
- 3.6.3 The development and submission of these reports is a **Core** service. The total time allocated to complete a report shall be 1 day by the Contractor's Project Manager; equivalent of 2 days pro rata.

### 3.7 **Disposal Plan Management**

- 3.7.1 The contractor shall inform The Authority of any changes to the system that may require a modification of The Authority's system disposal plan as a **Core** service.

## 4 DOCUMENTATION MANAGEMENT

### 4.1 General

4.1.1 The Contractor shall retain, upkeep and maintain all Design Services documentation as a **Core** service.

4.1.2 Documentation includes all master documentation as described below;

- (1) Manufacturing drawings;
- (2) Drawing lists;
- (3) Definitive equipment specifications;
- (4) Master Record Index;
- (5) MDP as per UK DID MDP (2/98);
- (6) AESPs as listed in Appendix B to this SOW;
- (7) Technical reports, documents or illustrations;
- (8) Configuration status record;
- (9) Interface Control Documentation;
- (10) Test schedules, specifications and results;
- (11) Cross referenced part numbers  
(contractor Part Number <> NATO stock number);
- (12) Contractor's equipment safety & environmental case;
- (13) Training Documentation;
- (14) Special Tools & Equipment Records.

4.1.3 As a minimum, The Authority shall receive information as per DID-002 (Appendix E) on important updates as necessary, and if required The Contractor shall provide copies of any documentation to The Authority as a **Core** service.

4.1.4 As a **Non-Core** service The Contractor shall modify and issue, as tasked according to this Contract, any amendments to the documentation as directed by The Authority, when required.

#### 4.2 **Accommodation**

4.2.1 The Contractor shall provide safe, dry and secure storage for the custody of all held documentation in accordance with ISN 2014/01.

#### 4.3 **Drawings**

4.3.1 The Contractor shall be responsible for the content, accuracy and authoring of all amendments to their and any Authority copies of drawings under each respective tasking. The drawings are to be updated in both hardcopy (where hardcopy format exists) and electronic copy. All changes to drawings must be logged in accordance with The Authority's procedures and DEFSTAN 05-10 as a **Non-Core** service. Reproduction of amended hard copy, and/or electronic format drawings for The Authority is a **Non-Core** service and must be produced as per DID-003 (Appendix E).

#### 4.4 **Army Equipment Support Publications (AESPs)**

4.4.1 As a **Non-Core** service The Contractor shall issue, as tasked according to this Contract, any amendments to the AESPs as directed by The Authority, when required.

## **5 QUALITY**

### **5.1 Accreditation**

- 5.1.1 The Contractor shall demonstrate certification (with a scope of activity that covers the requirements of the contract) to the latest ISO9001 standard or equivalent (e.g. AS9100) as accredited by a UKAS recognised 3rd party. This certification is to be maintained throughout the life of the contract without The Authority incurring additional cost.

### **5.2 Quality Audits**

- 5.2.1 During the term of the contract, quality assurance risk based surveillance activities may be carried out by The Authority or their representative in accordance with the latest ISO9001 and AQAP2110 standard. The Contractor shall provide reasonable access to their premises and relevant records required by The Authority. Where The Contractor uses sub-contractor and sub-suppliers, they are to ensure that appropriate quality assurance terms and conditions are “flowed-down” including the potential that The Authority or their representative may require similar access.

## 6 SAFETY AND ENVIRONMENTAL MANAGEMENT

### 6.1 General

- 6.1.1 The wider issues of Safety and Environment will be managed according to the guidelines described in the latest version of DEFSTAN 00-56, Project Orientated Safety Management System (POSMS) and Project Orientated Environmental Management System (POEMS). The overall objective of this will be to ensure that the risks involved in each task are Broadly Acceptable, Tolerable and As Low As Reasonably Practicable (ALARP) within the constraints of operational effectiveness, time and cost.

### 6.2 Safety and Environmental Case

- 6.2.1 The Contractor shall provide as a **Non-Core** service, on a survey and quote basis, updated inputs to the Safety Case for ABEO and the respective Safety Cases of any “fitted with” platforms in accordance with the latest version DEFSTAN 00-56 and the associated JSP as required by a design change or output of a safety review meeting.
- 6.2.2 Compliance with relevant legislation, standards and guidelines shall be demonstrated by cross-referenced compliance data.

### 6.3 Failure Reports

- 6.3.1 When tasked by The Authority, The Contractor shall investigate and report on JAMES Component Reports, EFRs, DAIB reports as well as progress issues that arise as a result. Such service is considered **Non-Core** and should be directed by The Authority.

### 6.4 Meetings

- 6.4.1 The Contractor shall provide the appropriate Safety Engineering and technical expertise for attendance at all Safety and Environmental working groups and any management meetings listed at Section 3.4 as part of the **Non-Core** services.

## 7 PDS TASKING

### 7.1 General

- 7.1.1 The Contractor shall provide tasking information as per the Tasking Procedure as a **Core** service. This shall consist of a detailed Scope of Work and a full cost breakdown detailing each allowance separately with each response to tasking.
- 7.1.2 **Non-Core** PDS consist of event-driven activities that are required in response to the demands of the programme. PDS activities shall be performed on a survey and quote basis on instruction and authorisation by The Authority. All Non-Core services will be completed within Cost, Time and Performance targets agreed with The Authority for each task.
- 7.1.3 Should any Task result in a modification proposal, the Modification Proposal Form procedures set out in DEFSTAN 05-57 Issue 6 shall apply.
- 7.1.4 If any deviation from agreed time and performance targets is identified, The Contractor or The Authority must inform the other of such deviation within 5 working days of its occurrence.

### 7.2 Design Services Development

- 7.2.1 On a **Non-Core** tasking basis The Contractor shall enact controlled design changes to the ABEO systems primarily consisting of the design, embodiment and test of a design change. In enacting the controlled design change, The Contractor shall also undertake, on a survey and quote basis, the following related activities including, but not exclusive to:
- (1) Preparing, producing and issuing hardware specifications;
  - (2) Designing and developing hardware;
  - (3) Manufacturing and assessing performance of prototypes;
  - (4) Managing and attending equipment trials;
  - (5) Analysing trials results and producing reports;
  - (6) Providing strip reports for equipment submitted for further investigation;
  - (7) Introduction of replacement or alternative components;
  - (8) Amending drawings, publications and documentation;
  - (9) Preparing Fitting Instructions;
  - (10) Investigating manufacturing or material issues;
  - (11) Impact on training;
  - (12) Impact on ILS/TLS;
  - (13) Configuration Management;
  - (14) Embody design changes onto any reference platforms.

7.2.2 The Authority reserves the right for itself or nominated representatives to witness all test and acceptance activities.

## 8 MODIFICATION KITS

### 8.1 General

- 8.1.1 Modification kits are a **Non-Core** service, and subject to separate prior authorisation in accordance with the tasking process.

### 8.2 Supply of Modification Kits

- 8.2.1 The Contractor shall manage the procurement, supply and delivery of Modifications Kits on behalf of The Authority as a **Non-Core** service. The Authority will approve the specific requirements of each task, including timescale, design, content, quantity and delivery for each Modification Kit.
- 8.2.2 The Contractor shall be responsible for codification of Modification Kits and their constituent parts in accordance with NATO standards as part of the Non-Core service.

### 8.3 Fitment of Modification Kits

- 8.3.1 Where a Modification to the design of equipment is necessary, The Contractor may be required to embody Modification Kits into equipment. The Contractor shall undertake this as a **Non-Core** service and manage any retrofit Modification Kits, including updating drawing packs, configurations and MDPs.
- 8.3.2 Fitting of Modification Kits may be undertaken in Unit Lines, Contractor's premises, or at other locations, including overseas and in areas of conflict. It may be performed by The Contractor or the Authority's personnel.
- 8.3.3 The Contractor shall nominate a Task Manager(s) responsible for managing all aspects of the modification fitting programme(s). The Contractor's Task Manager(s) is responsible for the following:
- (1) Liaison with The Authority's PM in respect of the supply of Modification Kit;
  - (2) Liaison with Authority's agencies;
  - (3) Preparing and agreeing a retrofit programme with The Authority's PM and the User;
  - (4) Managing and implementing the jointly agreed retrofit programme;
  - (5) Maintaining a record of vehicles modified.
- 8.3.4 The modification embodiment programme may comprise just one, or several individual modifications. The fitting of Modification Kits is a **Non-Core** service.

### 8.4 Training

- 8.4.1 The Contractor shall be responsible for providing appropriate training to accompany Modification Kits in conjunction with The Authority under the tasking process as part of the **Non-Core** service.
- 8.4.2 All Modification kits should include a Modification Instruction in AESP format in accordance with DID-002 (Appendix E). Fault Diagnosis and Repair of Repairable Items.

## APPENDIX A – TABLE OF DELIVERABLES

Core Services	Ref	Area
Non-Core Progress Management Report	DID 001	Reports
Demonstration of accreditation to the latest ISO 9001 standard		Accreditation

\* Deliverables resulting from Non-Core (tasked) activities will be captured on the relevant tasking forms.

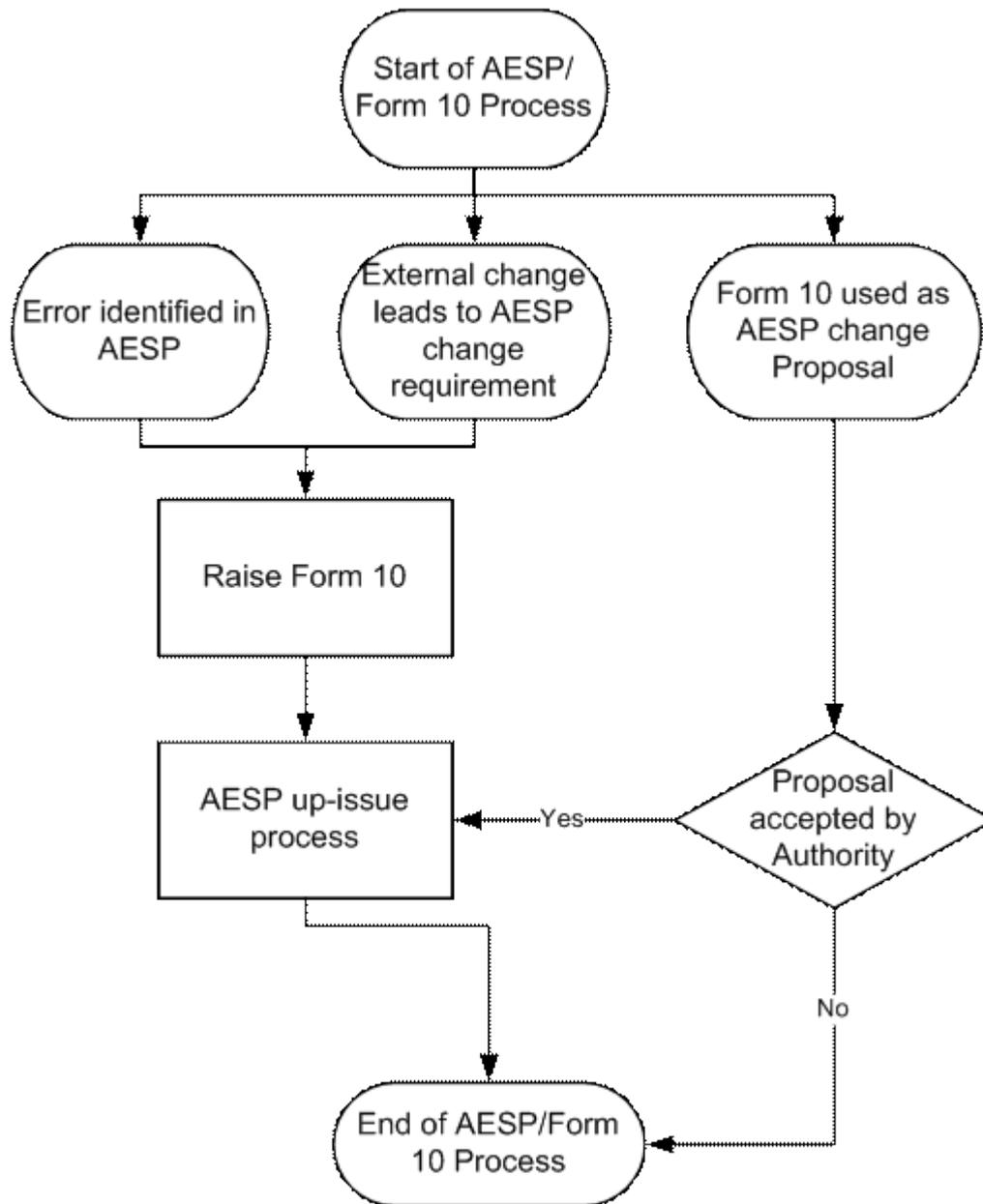
## APPENDIX B – AESPS COVERED BY CONTRACT

AESPs that support the associated Platforms are to be managed by The Authority.

<b>Platform</b>	<b>Related AESP</b>
Foxhound	2355-E-100-421
Support Vehicle 9 Tonne (SV9T)	2320-W-119-421
Warthog	2350-E-100-421
Carrier Wheeled 4x4	2320-D-418-201
HUSKY	2320-D-110-421
Mastiff 2	2320-D-419-421
Ridgback	2320-D-414-421
Mastiff 3	2355-D-100-421
Heavy Equipment Transporter (HET)	N/A

## APPENDIX C – AESP/ FORM 10 PROCESS

Updating of AESPs/Form 10s is to be managed by The Contractor in accordance with the Contract. It is recognised that this is a migratory managed process, and this will be completed by The Contractor, in conjunction with The Authority.



## APPENDIX D – STANDARDS LIST

STANDARD/CONDITION	GUIDANCE	Version	Date	Classification
ISN 2014/05	Government Security Classification Scheme	N/A		UNCLASSIFIED
JSP454	Land Systems Safety and Environmental Protection	Issue 6.1		UNCLASSIFIED
DLF	The Defence Logistics Framework	2.1		UNCLASSIFIED
AQAP 2110	NATO Quality Assurance Requirements for Design Development and Production	Edition 3	November 2009	UNCLASSIFIED
DEFSTAN 00-35	Parts 1&5 – Environmental Handbook for Defence Materiel	Issue 4	September 2006	UNCLASSIFIED
DEFSTAN 00-40	Part 1 – Reliability & Maintainability.	Issue 7	April 2012	UNCLASSIFIED
DEFSTAN 00-56	Parts 1&2 – Safety management requirements for Defence material.	Issue 5	Jan 2014	UNCLASSIFIED
DEFSTAN 00-70	Part 1 – Standard serviceability testing	Issue 2	November 2013	UNCLASSIFIED
DEFSTAN 00-600	Integrated Logistic Support	Issue 3	Jan 2014	UNCLASSIFIED
DEFSTAN 01-5	Fuels, Lubricants and associated products.	Issue 17	March 2011	UNCLASSIFIED
DEFSTAN 05-57	Configuration management of defence material.	Issue 6	March 2014	UNCLASSIFIED

STANDARD/CONDITION	GUIDANCE	Version	Date	Classification
DEFSTAN 05-61	Part 1 Quality Assurance Procedural Requirements – Concessions	Issue 5	August 2010	UNCLASSIFIED
DEFSTAN 05-61	Part 4 - Quality Assurance Procedural Requirements - Contractor Working Parties	Issue 3	October 2002	UNCLASSIFIED
DEFSTAN 05-99	Managing Government Furnished Assets (GFA) in Industry.	Issue 4	December 2010	UNCLASSIFIED
DEFSTAN 05-135	Avoidance of Counterfeit Materials	Issue 1	July 2014	OFFICIAL
UK DID MDP	UK Data Item Description For Manufacturing Data Pack. This is on the MoD commercial toolkit under MOD Guidelines For Industry – GFI No. 10 Part B Annex C.	Issue 2	1998	UNCLASSIFIED

## APPENDIX E - DATA ITEM DESCRIPTIONS

<b>DATA ITEM DESCRIPTION (DID)</b>	
<b>1. Identification Number</b> DID-001	
<b>2. Title</b> Management Reports	
<b>3. Description</b> This Data Item covers the requirement for Progress Reports	
<b>4. Contract reference</b> PMVP/00006	<b>5. UK MoD Responsibility</b> Project Manager
<b>6. Date of First Delivery</b> 10 Days prior to the project meeting.	<b>7. Date of Subsequent Delivery</b> For any alterations - No more than 5 days previous to the project Meeting.
<b>8. UK MoD Review Time-scales</b> N/A	
<b>10. Preparation Instructions</b>	
<b>11. Content</b> <p>The Management Report will include, but is not limited to, the following information:</p> <ol style="list-style-type: none"> <li>1. Statement and summary of invoices submitted to date;</li> <li>2. Number, value and progress of open tasks by category (Design Improvement, Legislation, Health &amp; Safety, Management, Miscellaneous, Obsolescence and AESP's) on Contract;</li> <li>3. If there are delays in completion of tasks, then details of actions being undertaken to remedy the situation are required;</li> <li>4. Number and value of Tasks raised, approved and completed in the reporting period;</li> <li>5. List of outstanding tasks awaiting MoD approval;</li> <li>6. Update on key technical issues;</li> <li>7. Commentary on key commercial and financial issues;</li> <li>8. Obsolescence update;</li> <li>9. Safety updates;</li> <li>10. Key Programme issues;</li> <li>11. Quality issues;</li> <li>12. ILS and TLS reports;</li> <li>13. Repairs performance report;</li> <li>14. List all Equipment Failure Reports submitted by the Authority to the Contractor for review and analysis together with proposed remedial action where necessary;</li> <li>15. Spares supply performance report;</li> <li>16. Review of Joint Risk Register;</li> <li>17. ISC Report;</li> <li>18. Performance Measurement against KPIs and PIs;</li> <li>19. Codification update;</li> <li>20. Engineering Change Notices.</li> </ol> <p><b>Format</b> To be supplied in a Microsoft Word 2003 format.</p>	
<b>11 Addressees, Distribution and Media</b> UK MoD Project Manager, one soft copy	

<b>DATA ITEM DESCRIPTION (DID)</b>	
<b>1. Identification Number</b> DID-002	
<b>2. Title</b> Technical Documentation Requirements	
<b>3. Description</b> To provide updates to the Technical Documentation necessary to cover installation, operation, maintenance, repair and support of the supplied equipments	
<b>4. Contract Reference</b> PMVP/0006	<b>5. UK MoD Responsibility</b> Project Manager
<b>6. Date of First Delivery</b> n/a	<b>7. Date of Subsequent Delivery</b> n/a
<b>8. UK MoD Review Time-scales</b> 20 business days	
<b>10. Preparation Instructions</b>	
<p><b>PURPOSE</b></p> <p>To facilitate the provision /or updating of the Technical Documentation, including the removal of legacy documentation, necessary to cover any changes to installation, operation, maintenance, repair and support of the supplied sub-systems, component equipments, throughout its life, in full support of the agreed maintenance policy.</p> <p><b>PREPARATION INSTRUCTIONS</b></p> <p>AESPs in the following Categories in pdf format suitable for loading onto Tech Docs On Line (TDOL), unless otherwise stated:</p> <ol style="list-style-type: none"> <li>1. Technical Description (Category 302)</li> <li>2. Installation Instruction (Category 411)</li> <li>3. Maintenance Instructions (Category 5), to include: <ul style="list-style-type: none"> <li>• Failure Diagnosis</li> <li>• Repair Instructions</li> <li>• Inspection Standards</li> </ul> </li> </ol> <p>All Technical publications shall be produced in stages</p> <ul style="list-style-type: none"> <li>• Draft – Sufficiently populated to commence verification and progressive validation</li> <li>• Camera ready/CD Copy</li> </ul> <p><b>Format</b> - AESP format in accordance with the requirements of JSP 180 series Technical Publication Specifications.</p>	
<b>11 Addressees, Distribution and Media</b> UK MoD Project Manager, one soft copy	

<b>DATA ITEM DESCRIPTION (DID)</b>	
<b>1. Identification Number</b> DID-003	
<b>2. Title</b> Manufacturing Data Pack	
<b>3. Description</b> The Manufacturing Data Pack (MDP) for an article comprises a data pack the format and content of which is set out in this Data Item Description (DID). Subject to third party rights and as otherwise stated herein, the MDP includes that data which defines the physical geometry, material and acceptance/conformance criteria of the article and its components, for use by MOD when awarding competitive contracts for the manufacture, assembly and acceptance of the articles described.	
<b>4. Contract Reference</b> PMVP/00006	<b>5. UK MoD Responsibility</b> Project Manager
<b>6. Date of First Delivery</b> n/a	<b>7. Date of Subsequent Delivery</b> n/a
<b>8. UK MoD Review Time-scales</b> 20 business days	
<b>10. Preparation Instructions</b>	
<p><b>GENERAL REQUIREMENTS</b></p> <ul style="list-style-type: none"> <li>All data to be supplied as part of a Manufacturing Data Pack pursuant to a Contract Data Requirement shall be prepared in accordance with this DID.</li> <li>This DID shall apply to data prepared by manual and/or automated methods such as Computer Aided Design and Computer Aided Manufacturing Systems.</li> <li>This DID is applicable to the MOD procurement of articles, including components of articles, designed and developed under MOD Contracts and also to commercially developed articles and components.</li> <li>The MDP shall reflect the build standard of the latest version of the production standard article under the contract.</li> </ul> <p><b>FORMAT</b></p> <ul style="list-style-type: none"> <li>The MDP product drawings and associated parts list for commercially developed articles shall be in the Contractor's or the original supplier's format, unless specified otherwise in the Contract.</li> <li>The MDP product drawings and associated parts list for articles developed under an MOD Contract shall be in the Contractor's or the Authority's format (e.g. DEFSTAN 05-10), as specified in the Contract.</li> </ul> <p><b>CONTENT</b></p> <ul style="list-style-type: none"> <li>The MDP shall document, either directly or by reference to generally available documents and as appropriate to the manufacturer of the article, the following: <ul style="list-style-type: none"> <li>a. dimensional and tolerance data;</li> <li>b. a description of the manufacturing processes<sup>1</sup> called up in the drawings or referenced documents;</li> </ul> </li> </ul>	

- c. the sequence in which the article is to be assembled and the manufacturing processes (referred to above) applied;
- d. tolerance input and output characteristics;
- e. diagrams, including interface control diagrams;
- f. mechanical connections;
- g. physical characteristics, including form and finish;
- h. descriptions of materials<sup>1</sup> used;
- i. inspection and test criteria;
- j. article calibration requirements;
- k. hardware marking requirements.

#### **DETAILED REQUIREMENTS**

The MDP shall include as appropriate:

- a. product drawings, including assembly drawings;
- b. Parts Lists, Data Lists and Index Lists;
- c. inspection and test schedules and/or production acceptance criteria;
- d. material specifications in the circumstances described in the second paragraph of footnote 1;
- e. treatment and other process specifications in the circumstances described in the second paragraph of footnote 1;
- f. maskwork/artwork (PCBs);
- g. special to product tool and test equipment drawings, if the design and development of the tools and equipment has been funded by MOD under a Contract requiring the preparation of production standard drawings.

#### **SPECIAL CASES**

- If in the view of the Contractor, the article or component is unlikely to be satisfactorily manufactured by a third party by reason of the omission from the MDP of data subject to third party rights, proprietary material and/or process specifications (see the first paragraph of footnote 1), or special to product tool and test equipment drawings the Contractor shall so advise the Authority as soon as the Contractor becomes aware of the situation.

#### **FOOTNOTES**

<sup>1</sup> Manufacturing processes (including heat treatment and protective processes), techniques and material specifications, which are proprietary to the Contractor or his suppliers and are self-standing in the sense described in paragraph 16 of Guidelines for Industry No 10 - The Application of Intellectual Property (IP) DEFCONs will not be provided. However the MDP will identify the general nature of such proprietary processes/techniques and materials. All other material and process specifications will be provided (or a generally available document defining the material or process will be referenced in the MDP).

#### **11 Addressees, Distribution and Media**

UK MoD Project Manager, one soft copy