MSTAR OBSOLESCENCE REPLACEMENT PROGRAMME (ORP) PLAN AND REPORT DELIVERABLES

Plan and Report 01 – Integrated Support Plan (ISP)

1.	General Description of Plan Deliverables
1.1.	The Contractor shall provide an Integrated Support Plan (ISP) that is to be reviewed by the Authority and produced in accordance with:
	 Authority Data Item Description (DID) 01 at Annex B to the Contract.
	Statement of Requirement (SOR) at Annex A to the Contract.
	 ASD S3000L: International procedure specification for Logistic Support Analysis. Issue 1.1, Dated 01 Jul 2014.
	DEFCON 90 (Edn. 11/06) Copyright.
	 DEFSTAN 00-040: Reliability and Maintainability (R&M). Part No 1 – Management Responsibilities and Requirements for Programmes and Plans. Issue 8, Dated 28 October 2017.
	 DEFSTAN 00-049: MOD Guide to R&M Terminology Used in Requirements. Issue 4, Dated 17 Nov 2016.
	 DEFSTAN 00-600: Integrated Logistic Support (ILS). Requirement for MOD Projects. Issue 1, Dated 14 Apr 2018.DEFSTAN 05-057: Configuration Management of Defence Materiel. Issue 6, Dated 07 Mar 2014.DEFSTAN 00-049: MOD Guide to R&M Terminology Used in Requirements. Issue 4, Dated 17 Nov 2016.
	 DEFSTAN 05-057: Configuration Management of Defence Materiel. Issue 7, Dated 28 July 2018.
2.	Aims and Objectives of the Integrated Support Plan (ISP)
2.1.	The ISP is used by the Authority to evaluate, monitor and accept the Contractor's planning and performance of their proposed ILS programme.
3.	Content of the Integrated Support Plan (ISP)
3.1.	Availability, Reliability & Maintainability (AR&M)
	3.1.1. Describes the ILS activities which are to be performed by the Contractor in producing the AR&M deliverables and intended Maintenance Planning activities.
3.2.	Configuration Management
	3.2.1. Describes the ILS activities which are to be performed by the Contractor in producing the necessary Configuration Management System(s) and Configuration Management deliverables. This includes software modifications and additional related factors of configuration and obsolescence control included in the programme.
3.3.	Logistic Information Management
	3.3.1. Describes the intended method for the Contractor to identify, retain, publish, review and Update the flow of logistic information that needs to be included in a shared Logistic Information Repository (LIR), for the sharing and transmitting of data deliverables in the

3.4. Obsolescence Management

- 3.4.1. Describes the ILS activities that are to be performed by the Contractor for the Obsolescence Management of the System, Obsolescence Management deliverables.
- 3.5. <u>Software Support</u>
 - 3.5.1. Details the ILS activities that are to be performed by the Contractor to identify the Upkeep and Update software support activities as part to the Contractor's Software Support Analysis (SSA).
- 3.6. Progress and Monitoring
 - 3.6.1. Details how the Contractor plans to align with all of the in-scope ILS deliverables as part of the Governance control of the MSTAR ORP against the ILS Programme, as per the Contract Statement of Requirement.
- 4. <u>Contract Delivery Date</u>
- 4.1. As specified in Appendix 1 of the Statement of Requirements at Annex A to the Contract.
- 5. Update/Further Submission Requirements
 - 5.1. Draft ISP to be reviewed following Contract Award (CA).
 - 5.2. Update required six months after CA, to enable declaration of Logistic Support Declaration (LSD) in accordance with the Acceptance Process at Annex M to the Contract.
- 6. <u>Medium of Delivery</u>
 - 6.1. Electronic (MS Office 2016 compatible format for draft and final versions; and Adobe PDF compatible format for final versions) on optical media.
 - 6.2. Additional hardcopy for final versions.
- 7. <u>Number of Copies</u>
- 7.1. Two sets shall be provided to the Authority (one set being deemed for the Authority's Master Library and one set for the verification of all documents necessary to meet the requirements, referenced DEFSTANs and other referenced documents specified in Section 1).

Plan and Report 02 – Support Analysis Plan (SAP)

1.	General Description of Plan Deliverables
1.1.	The Contractor shall provide a Support Analysis Plan (SAP) that is to be reviewed by the Authority and produced in accordance with:
	 Authority DID 02, 04, 05, 06, 08 and 13 at Annex B to the Contract.
	 Statement of Requirement (SOR) at Annex A to the Contract.
	• ASD S3000L: International procedure specification for Logistic Support Analysis. Issue 1.1, Dated 01 Jul 2014.
	DEFCON 82 (Edn. 01/11/16) Special Procedure For Initial Spares.
	DEFCON 90 (Edn. 11/06) Copyright.
	 DEFCON 117 (Edn. 10/13) Supply of Information For NATO Codification and Defence Inventory Introduction.
	 DEFSTAN 00-040: Reliability and Maintainability (R&M). Part No. 1 – Management Responsibilities and Requirements for Programmes and Plans. Issue 8, Dated 28 Oct 2017.DEFSTAN 00-042: Reliability and Maintainability Assurance Activity. Part No 3 – R&M Case. Issue 1, Dated 03 March 2016.
	• DEFSTAN 00-044: Reliability and Maintainability (R&M) Data Collection and Classification. Issue 2, Dated 14 Dec 2012.
	• DEFSTAN 00-045: Using Reliability Centred Maintenance to Manage Engineering Failures.
	 DEFSTAN 00-600: Integrated Logistic Support (ILS). Requirement for MOD Projects. Issue 1, Dated 14 Apr 2018.
2.	Aims and Objectives of the Support Analysis Plan (SAP)
2.1.	The SAP is used by the Authority to evaluate the cost effectiveness of the proposed maintenance solution.
3.	Content and annexes of the Support Analysis Plan (SAP)
3.1.	The SAP contains documented evidence on how the Contractor's Support Analysis (SA) programme will be conducted to meet the Contractual requirements, including descriptions of how the Contractor's management controls will monitor and review the progress of the SA tasks and sub-tasks. This includes how reviews will be conducted on each task for the Authority to agree the Contractor's recommendations.
3.2.	Annex A: Criticality Analysis Report (CAR)
:	3.2.1. Details the the agreement, evaluation and acceptance to the Contractor's proposed Preventative Maintenance tasks. The Failure Modes and Effects Criticality Analysis (FMECA) is also to be applied to the MSTAR ORP System.
3.3.	Annex B: Level of Repair Analysis (LoRA) Report
:	3.3.1. Details the Non-Economic (NE) criteria of where the Corrective and Scheduled Maintenance Tasks identified in the FMECA are to be performed within the agreed MSTAR ORP Support Chain, covering Level 1 and Level 4 activities as described in the Definitions at Appendix 1 to the SOR.

- 3.4.1. Details the Contractor's existing knowledge and experience of similar products in use. Where appropriate, the Contractor is to provide the MTA data to enable the Authority to evaluate the Contractor's proposed maintenance activities for the product, prior to Logistic Support Declaration (LSD) and the transition to In-service.
- 3.5. Annex D: Availability Reliability and Maintainability (AR&M) Case Report
 - 3.5.1. Summarises the findings of the Criticality Analysis and details their recommended AR&M activities/tasks. This is to provide assurance to the Authority that the System's AR&M performance and behaviour will be monitored through life.
- 3.6. Annex E: Support and Test Equipment (S&TE) Report
 - 3.6.1. Details the S&TE items associated with the daily operation and maintenance upkeep of the MSTAR ORP System at Level 1, and is to be delivered if it is identified and agreed during the LoRA Engineering Judgement Panel (EJP) that they are required. Potential S&TE items agreed as being required for the System are to be considered as 'Items of Supply' and therefore subject to DEFCON 117 Codification and DEFCON 82 Initial Provisioning.
- 4. <u>Contract Delivery Date</u>
 - 4.1. As specified in Appendix 1 of the Statement of Requirements at Annex A to the Contract.
- 5. <u>Update/Further Submission Requirements</u>
 - 5.1. Draft SAP to be reviewed following Contract Award.
 - 5.2. Draft Annexes (CAR, LoRA, MTA, AR&M Case) to be delivered two months after CA.
 - 5.3. Draft LoRA to be reviewed at first Engineering Judgement Panel.D
 - 5.4. Draft AR&M Case (incorporating SAP and all Annexes) to be reviewed at Incident Sentencing Panel.
 - 5.5. Final updates to SAP and Annexes required eight months after CA, to enable declaration of LSD in accordance with the Acceptance Process at Annex M to the Contract.

- 6.1. Electronic (MS Office 2016 compatible format for draft and final versions; and Adobe PDF compatible format for final versions) on optical media.
- 6.2. Additional hardcopy for final versions.

7. Number of Copies

Plan and Report 03 – Transition Management Plan (TMP)

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1.		neral Description of Plan Deliverables	
	1.1.	he Contractor shall provide a Transition Management Plan (TMP) that is to be reviewed uthority and produced in accordance with:	d by the
		Authority DID 03 at Annex B to the Contract.	
		Statement of Requirement (SOR) Annex A to the Contract.	
		DEFCON 90 (Edn 11/06) Copyright.	
		DEFSTAN 00-600: Integrated Logistic Support (ILS). Requirement for MOD Projects 1, Dated 14 Apr 2018.	. Issue
2.		ns and Objectives of the Transition Management Plan (TMP)	
	2.1.	he TMP is used to provide documented evidence for assurance of the transition prog entifying the activities related to Testing and Evaluation, enabling Acceptance of t ISTAR ORP System.	
3.		ntent of the Transition Management Plan (TMP)	
	3.1.	etails the transition phases from MSTAR Mk IV to MSTAR ORP in accordance volume of the optimized of the optime optis optime optime optime optis optis optis optime optis optime o	with the
	3	. Planning	
	3	2. Input	
	3	B. Manufacture	
	3	. Output	
	3	6. Receipt In-Inspection	
	3	5. Fielding	
	3	'. Disposal	
	3	3. Support	
	3.2.	Details the other activities to be performed by the Contractor within the Transition Programme, including:	
	3	. Obsolescence	
	3	2. Effort	
	3	B. Integration	
	3	. Design opportunities	
	3	5. Control	
	3	5. Organisation	
•			

- 3.2.7. Reviews
- 3.2.8. Standards
- 3.2.9. Quality Assurance

4.		Contract Delivery Date
	4.1.	As specified in Appendix 1 of the Statement of Requirements at Annex A to the Contract.
5.		Update/Further Submission Requirements
	5.1.	Draft TMP to be reviewed following Contract Award.
	5.2.	Final update required six months after CA, prior to start of manufacture of first batch of MSTAR ORP Systems.
	5.3.	No further updates anticipated.
6.		Medium of Delivery
	6.1.	Electronic (MS Office 2016 compatible format for draft and final versions; and Adobe PDF compatible format for final versions) on optical media.6
	6.2.	Additional hardcopy for final versions.
7.		Number of Copies
	7.1.	Two sets shall be provided to the Authority (one set being deemed for the Authority's Master Library and one set for the verification of all documents necessary to meet the requirements, referenced DEFSTANs and other referenced documents specified in Section 1).

Plan and Report 04 – Supply Support Plan (SSP)

1.	General Description of Plan Deliverables
1.1.	The Contractor shall provide a Supply Support Plan (SSP) that is to be reviewed by the Authority and produced in accordance with:
	• Authority DID 09, 12, 14, 16, 17, 18, 19, 22 and 23 at Annex B to the Contract.
	 Statement of Requirement (SOR) at Annex A to the Contract.
	AQAP 2210 Edition 1: NATO Supplementary Software Quality Assurance Requirements.
	Condition 24 of the Terms and Conditions.
	 DEFCON 82 (Edn. 01/11/16) Special Procedure For Initial Spares.
	DEFCON 90 (Edn. 11/06) Copyright.
	 DEFCON 117 (Edn. 10/13) – Supply of Information For NATO Codification and Defence Inventory Introduction.
	Condition 23 of the Terms and Conditions.
	Condition 22 of the Terms and Conditions.
	• DEFCON 658 (Edn. 10/17) Cyber.
	 DEFFORM 68 (Edn. 01/12/16) Hazardous Articles, Materials or Substances Statement by the Contractor.
	 DEFFORM 129A (Edn. 02/16) Application for Packaging Designs and Authorisation for Package Design Work.
	 DEFSTAN 00-003: Design Guidance for the Transportability of Equipment. Issue 6, Dated 28 Feb 2017.
	 DEFSTAN 00-044: Reliability and Maintainability (R&M) Data Collection and Classification. Issue 2, Dated 14 Dec 2012.
	 DEFSTAN 00-056: Safety Management Requirements for Defence Systems.
	 DEFSTAN 00-600: Integrated Logistic Support (ILS). Requirement for MOD Projects. Issue 1, Dated 14 Apr 2018.
	DEFSTAN 05-057: Configuration Management of Defence Materiel. Issue 7, Dated 28 Jul 2018.
	 DEFSTAN 05-132: Marking of Service Materiel Items Using a Unique Item Identifier (UII). Issue 1, Dated 28 Jun 2017.
	DEFSTAN 05-135: Avoidance of Counterfeit Materiel. Issue 1, Dated 10 Jul 2014.
	DEFSTAN 05-138: Cyber Security for Defence Suppliers. Issue 2, Dated 28 Sep 2017.
	DEFSTAN 61-021: Generic Specification for Batteries.
	DEFSTAN 81-041: Packaging of Defence Materiel.

• Obsolescence Management International Standard IEC 62402:2007, Dated 31 Aug 2007.

• The Waste Electrical and Electronic Equipment (WEEE) (Waste Management Licensing) (England and Wales) Regulations 2006 SI No. 3315.

2. <u>Aims and Objectives of the Supply Support Plan (SSP)</u>

- 2.1. The SSP details how the Contractor will plan, design, deliver and monitor Supply Support services for the MSTAR ORP System, to the customer.
- 2.2. The SSP provides confidence to the Authority that the Contractor's intended Supply Support services will sustain the Product's availability levels through the activities to be delivered as part of the traditional support service.

3. <u>Content and annexes of the Supply Support Plan (SSP)</u>

- 3.1. Details the Logistic Information that the Contractor transmits, receives, records, retains and analyses in producing Initial Provisioning List. This also includes the logistic information for reverse supply chain transactions and responding to demand and re-provisioning requests for Items of Supply from the Authority.
- 3.2. Details the Contractor's end-to-end process commencing with receipt of the Authority's spares demand and ending with the acknowledgment of receipt into the Authority's specified location by the Unit/Authority. This also includes the recall procedure for reverse supply chain transactions from the Authority to the Contractor.
- 3.3. Details the Contractor's method for identifying opportunities for standardisation of materiel to reduce logistic resource burdens. This includes, but is not limited to, common items, fixtures and fixings, including Level 1 and Level 2 Support & Test Equipment (S&TE). Repair levels are defined in Appendix 1 to the Statement of Requirement.
- 3.4. Details the Contractor's method for providing logistic information to the Authority as part of codifying Items of Supply, and describes the Contractor's intended method for transmitting codification data to the Authority, including the method for information flows to the Contractor.
- 3.5. Details the Contractor's method for selecting Packaging, Handling, Storage and Transportation (PHS&T) levels for Items of Supply. This includes the 2D barcoding of all Line Replaceable Units (LRUs) of the MSTAR ORP System.
- 3.6. Details the Contractor's method for deriving the recommended provision of initial Range and Scale of Spares to be invested in by the Authority, including timelines of placing orders to cater for long lead items.
- 3.7. Details the Contractor's method for deriving the supply support sustainability services to ensure MSTAR ORP Operational Availability levels are achieved in the event of MSTAR ORP being required to deploy on an Operational deployment, in time to meet Unit readiness times.
- 3.8. Details the Contractor's method for deriving supply support services for routine replenishment and re-provisioning of spares, as part of the traditional support service.
- 3.9. Details the Contractor's method for deriving supply support services to be provided to the Authority as part to the Contractor's depth repair of candidate Repairable LRUs.ease in n number of repair
- 3.10. Annex A: Initial Provisioning List

3.10.1. Details the Contractor's proposed Range and Scale of Spares and S&TE for the MSTAR ORP System for the initial three year support period for storing, warehousing and distribution within the Authority's Joint Supply Chain. This includes details of a Replenishment and Re-provisioning of Spares Plan to detail the recommended Replenishment and Re-provisioning for upkeep of Spares availability during the In-Service Phase of the MSTAR ORP System.

3.11. Annex B: Deployment Spares Pack Report

3.11.1. Details a Range and Scale of recommended Spares holdings in order to sustain Systems during Operational deployment at any one time to last for a:

3.12. Annex C: Software Support Plan

- 3.12.1. Details the Contractor's software support planning, for the through life upkeep and design of the MSTAR ORP System, which has the ability to load, recover, modify and update software in a timely fashion, as far forward as possible, to sustain capability.
- 3.13. <u>Annex D: Packaging, Handling, Storage & Transportation (PHS&T) Report</u>
 - 3.13.1. Details the Contractor's method for ensuring that MSTAR ORP Items of Supply comply with DEFSTAN 81-041. This includes potential items for warehousing and transportation within the Authority's Support Chain. Scope to be agreed following review of LoRA Report.
- 3.14. Annex E: Disposal & Hazardous Items Report
 - 3.14.1. Details any Hazardous materials that are to be incorporated into the MSTAR ORP System as part of the Manufacture phase.
- 3.15. Annex F: Obsolescence Management (OM) Plan
 - 3.15.1. Details the Contractor's method for managing the loss, or impending loss of manufacturers or suppliers of components, assemblies, sub-assemblies, piece parts, and material. G) Technical Documentation Management Plan (TDMP), as specified in Authority DID 13 (at Annex B to the Contract), detailing the Contractor's proposed programme of delivery of technical publications to the agreed maturity level for acceptance of these publications by the Authority, in accordance with the Schedule of Requirements.
- 3.16. Annex G: Technical Documentation Management Plan (TDMP)
 - 3.16.1. Details the Contractor's proposed programme of delivery of technical publications to the agreed maturity level for acceptance of these publications by the Authority, in accordance with the Schedule of Requirements. DRACAS Plan, as specified in Authority DID 20 (at Annex B to the Contract), providing details to the Contractor's DRACAS process, stating how DRACAS shall integrate into the overall ILS management of the MSTAR ORP System. This shall provide the evidence that the Contractor has satisfied these requirements. In addition, the Contractor's DRACAS management System shall be in agreement with the Authority.
- 3.17. Annex H: Data Reporting, Analysis and Corrective Action System (DRACAS) Plan
 - 3.17.1. Details the Contractor's DRACAS process, stating how DRACAS will integrate into the overall ILS management of the MSTAR ORP System. This provides evidence that the Contractor has satisfied these requirements.

	7.1.	Two sets shall be provided to the Authority (one set being deemed for the Authority's Master Library and one set for the verification of all documents necessary to meet the requirements, referenced DEFSTANs and other referenced documents specified in Section 1).
7.		Number of Copies
	6.2.	Additional hardcopy for final versions.
	6.1.	Electronic (MS Office 2016 compatible format for draft and final versions; and Adobe PDF compatible format for final versions) on optical media.
6.		Medium of Delivery
	5.4.	No further updates anticipated.
	5.3.	Final update required eight months after CA, to enable declaration of LSD in accordance with the Acceptance Process at Annex M to the Contract.
	5.2.	Annexes required two months after CA.
	5.1.	Draft SSP to be reviewed following Contract Award.
5.		Update/Further Submission Requirements
	4.1.	As specified in Appendix 1 of the Statement of Requirements at Annex A to the Contract.
4.		Contract Delivery Date

Plan and Report 05 – Quarterly Status Report (QSR)

1.		General Description of Plan Deliverables
	1.1.	The Contractor shall provide a Quarterly Status Report (QSR) that is to be reviewed by the Authority and produced in accordance with:
		 Authority DID 10 and 20 at Annex B to the Contract.
		 Statement of Requirement (SOR) at Annex A to the Contract.
		DEFCON 90 (Edn. 11/06) Copyright.
		• DEFSTAN 00-600: Integrated Logistic Support (ILS). Requirement for MOD Projects. Issue 1, Dated 14 Apr 2018.
		• Obsolescence Management International Standard IEC 62402:2007, Dated 31 Aug 2007.
2.		Aims and Objectives of the Quarterly Status Report (QSR)
	2.1.	The QSR is required in response to the Authority's information request. This is used by the Authority to monitor and evaluate the Contractor's performance each quarter, in addition to monitoring the status of the MSTAR ORP System and its components.
3.		Content and annexes of the Quarterly Status Report (QSR)
	3.1.	Quarterly Progress Meeting (QPM) Agenda items
	3.2.	Key Performance Indicator (KPI) assessment
	3.3.	Activities in period, to include any Quality Audits, Engineering Change Requests, Site visits, Technical Advice and Assistance provided.
	3.4.	Analysis of Repair Activity in period
	3.5.	Summary of Incident/Observation Reports, to cover User/Support issues of MSTAR ORP performance.
	3.6.	Risks, Issues and Mitigations
	3.7.	Commercial activities
	3.8.	Annex A: Obsolescence Management Report

- 3.8.1. The purpose of this report is to provide details on the Contractor's management of the continued availability of component parts of the MSTAR ORP System, and to inform the Authority of obsolescence risks that have been addressed or that could impact on future MSTAR ORP Operational Availability. The report will consider Obsolescence, as a minimum, for the duration of the Contract including option years.
- 3.9. Annex B: DRACAS (Trend Analysis) Report
 - 3.9.1. The purpose of the DRACAS Report is to assist in the Acceptance, Upkeep and Update of the MSTAR ORP System and, therefore, that any improvements to be considered for implementation are based on the optimal engineering and functional performance and cost parameters.
- 3.10. All reports are to include an Executive Summary, Conclusion and Recommendation(s) for action to be agreed by the Authority. Additionally, any other secondary impact on other areas they interoperate with will be included. These reports will form part of the QPM, as defined in the Meetings Matrix at Annex T.
- 4. <u>Contract Delivery Date</u>
 - 4.1. As specified in Appendix 1 of the Statement of Requirements at Annex A to the Contract.
- 5. <u>Update/Further Submission Requirements</u>
 - 5.1. Initial QSR and Annexes to be delivered three months after CA.
 - 5.2. Updated version to be delivered on a quarterly basis with the initial report at CA + three months, no later than 10 working days prior to Quarterly Progress Meeting (QPM).
 - 5.3. DRACAS Report subject to quarterly reviews by Incident Sentencing Panel from LSD onwards. Following declaration of Initial Operating Capability (IOC) milestone, as defined in the Acceptance Process at Annex M to the Contract, this report will revert to a Trend Analysis Report.

- 6.1. Electronic (MS Office 2016 compatible format for draft and final versions; and Adobe PDF compatible format for final versions) on optical media.
- 7. <u>Number of Copies</u>
 - 7.1. One electronic set shall be provided to the Authority (one set being deemed as all documents necessary to meet the requirements, referenced DEFSTANs and other referenced documents specified in Section 1).

cessary, to meet the requirements, referenced DEFSTANs and other referenced documents specified in Section 1)

Plan and Report 06 – Training Needs Analysis (TNA) Report

1.	Gene	eral Description of Plan Deliverables
1.1		e Contractor shall provide a Training Needs Analysis (TNA) Report that is to be reviewed by Authority and produced in accordance with:
	• A	uthority DID 07 at Annex B to the Contract.
	• St	atement of Requirement (SOR) at Annex A to the Contract.
	• D	EFCON 90 (Edn. 11/06) Copyright.
		EFSTAN 00-600: Integrated Logistic Support (ILS). Requirement for MOD Projects. Issue Dated 14 Apr 2018.
2.	Aims	and Objectives of the Training Needs Analysis (TNA) Report
2.1	tha the Sta	e TNA is used to identify any additional Training requirements or amendments to Training t is generated by the Obsolescence Programme. This includes introduction to Service of ORP System and determining what the training gap is between the Performance andards required of the Operator/Maintainer against the existing training Performance andard(s).
3.	Cont	tent of the Training Needs Analysis (TNA) Report
3.1	(TC the an	tails the Contractor's review process of the Authority's MSTAR ORP Training Objectives Os) to enable provision of a Training Needs Analysis. This Analysis identifies what parts of TOs require updating or revising and include a description of the work required, including estimate of the labour hours, to complete the TNA. The Authority may provide advice, build the Contractor request this. The report covers the following:
	3.1.1.	<u>Analysis Level 1</u> . The Analysis of tasks and procedures in the daily operation of the System performed by the Level 1 User/Operator.
	3.1.2.	<u>Analysis Level 2</u> . Analysis of tasks and procedures in the Upkeep and maintenance of the System performed by the Level 1 Maintainer and above. Should the Report identify potential Upkeep tasks above that of the User/Operator Level 1 skills and capabilities, these will be subject to the LoRA EJP review for a decision on whether there are any training requirements for Level 2 and above. This decision will be made at the Authority's sole discretion.
	3.1.3.	<u>Design of Training</u> . The Report provides an indicative estimate of work required to design a Train the Trainer (T3) Pack for delivery to the Authority's Level 5 Trained Instructors. This includes the process for designing lesson plans, the daily use and operation of the System in all modes of operation and Upkeep maintenance performed by the Level 1 User/Operator.

- 3.1.4. Details the process for verifying the TNA, culminating in the Authority's evaluation of the Draft Training Packs, as detailed in the Training Acceptance Process at Annex M to the Contract.
- 3.1.5. Details the delivery of the required training activities and estimate of labour hours, based on the Contractor providing two T3 Courses, for delivery into the Authority's Training location for up to T3 Courses.
- 3.1.6. Details how the Contractor will deliver training resources. This includes all identified resources, media and facilities to enable the training of suitably qualified competent personnel in the safe use and maintenance of the MSTAR ORP System.
- 3.1.7. Details the Contractor's quality assurance process for:
 - 3.1.7.1. Identification of Candidate lesson plans.
 - 3.1.7.2. Identification of the method of delivery.
 - 3.1.7.3. Identification of an assessment method for training validation.
- 3.2. The Report includes the delivery of Training Packs in agreement with the Authority, in accordance with the Schedule of Requirements, and Contract Data Requirement (CDR) 003 at Annex D to the Contract. Once the Training Packs have been accepted in accordance with the Training Acceptance Process at Annex M to the Contract, the Ready for Training Declaration (RFTD) can be declared.
- 4. <u>Contract Delivery Date</u>
 - 4.1. As specified in Appendix 1 of the Statement of Requirements at Annex A to the Contract.
- 5. Update/Further Submission Requirements
- 5.1. Draft required two months after CA.
- 5.2. Final update required six months after CA, to enable declaration of Ready For Training Declaration (RFTD).
- 5.3. No further updates anticipated.

- 6.1. Electronic (MS Office 2016 compatible format for draft and final versions; and Adobe PDF compatible format for final versions) on optical media.
- 6.2. Additional hardcopy for final versions.

7. <u>Number of Copies</u>

Plan and Report 07 – Supportability Test, Evaluation and Verification (STEV) Plan

- 1. <u>General Description of Plan Deliverables</u>
 - 1.1. The Contractor shall provide a Supportability Test, Evaluation and Verification (STEV) Plan that is to be reviewed by ther Authority and produced in accordance with:
 - Authority DID 21 at Annex B to the Contract
 - Statement of Requirement (SOR) at Annex A to the Contract.
 - DEFSTAN 00-600: Integrated Logistic Support (ILS). Requirement for MOD Projects. Issue 1, Dated 14 Apr 2018.

2. <u>Aims and Objectives of the Supportability Test, Evaluation and Verification (STEV) Plan:</u> the STEV Plan shall be used to demonstrate to the Authority that the Contractor has delivered the required deliverables in line with the Schedule of Requirements, thus enabling declaration of LSD and transition to In-service following the manufacture of the first batch of MSTAR ORP Systems. If agreed by the Authority, this shall enable acceptance of the key support milestones as detailed in the Acceptance Process at Annex M to the Contract.

- 2.1. The STEV Plan is used to:
 - 2.1.1. Demonstrate to the Authority that the Contractor has delivered the required ILS deliverables in accordance with the Statement of Requirement at Annex A to the Contract and the Schedule of Requirements, thus enabling declaration of LSD and transition to In-service following the manufacture of the first batch of MSTAR ORP Systems. If agreed by the Authority, this will enable acceptance of the key support milestones, as detailed in the Acceptance Process at Annex M to the Contract.
 - 2.1.2. Detail how the Contractor will demonstrate to the Authority that the selection of the obsolescence replacement items is supportable and meet the requirements of the Acceptance Process, Cardinal Point Requirement Document (CPRD) and the Validation and Verification Requirement Matrix (VVRM).
- 3. Content of the Supportability Test, Evaluation and Verification (STEV) Plan
 - 3.1. The STEV Plan addresses, but is not limited to, the following criteria: Hardware, Software, Firmware, Integration, Documentation, Training, Logistics, Reliability and Maintainability...
- 4. <u>Contract Delivery Date</u>
- 4.1. As specified in Appendix 1 of the Statement of Requirements at Annex A to the Contract.
- 5. Update/Further Submission Requirements
 - 5.1. Draft STEV Plan to be delivered two months after CA.

- 5.2. Final update required for eight months after CA, to enable declaration of LSD in accordance with the Acceptance Process at Annex M to the Contract.
- 5.3. No further updates anticipated.

- 6.1. Electronic (MS Excel Office 2016 compatible format for draft and final versions; and Adobe PDF compatible format for final versions) on optical media.
- 6.2. Additional hardcopy for final versions.

7. Number of Copies

7.1. Two sets shall be provided to the Authority (one set being deemed for the Authority's Master Library and one set for the verification of all documents necessary to meet the requirements, referenced DEFSTANs and other referenced documents specified in Section 1).

Plan and Report 08 –Safety and Environmental Case Part 2 and Associated Hazard Logs

1.		General Description of Plan Deliverables
	1.1.	The Contractor shall provide a Safety and Environmental Case Part 2 and Associated Hazard Logs that are to be reviewed by the Authority and produced in accordance with:
		Authority DID 25 at Annex B to the Contract.
		 Statement of Requirement (SOR) at Annex A to the Contract.
		DEFCON 90 (Edn. 11/06) Copyright.
		 DEFSTAN 00-055: Requirements for Safety of Programmable Elements (PE) in Defence Systems. Issue 4. Dated 29 Apr 2016.
		 DEFSTAN 00-056: Safety Management Requirements for Defence Systems. Part No 1 – Requirements and Guidance. Issue 7, Dated 28 Feb 2017.
	1.2.	The Safety and Environmental Case Part 2 addresses equipment safety, therefore the Contractor shall update the Safety Case Part 2 to reflect the Obsolescence changes.
	1.3.	Individual GSR equipment/line replacement units (LRUs) Safety Case Part 2 shall be maintained and updated where equipment/LRUs have changed or been modified.
	1.4.	The Contractor shall provide a copy of the Hazard Log with the Safety Case(s).1.5.
2.		Aims and Objectives of the Safety and Environmental Case Part 2 and associated Hazard
	2.1.	Safety and Environmental Case Part 2 and associated Hazard Logs are required to provide confidence that the Contractor will implement appropriate process and action in the development and maintenance of Safety and Environmental requirements and documentation.
3.		Content of the Safety and Environmental Case Part 2 and associated Hazard Logs
	3.1.	Safety and Environmental Case Part 2
		3.1.1. Addresses equipment safety and covers the following areas:
		3.1.1.1. Scope

- 3.1.1.2. Identified hazards and related accidents
- 3.1.1.3. Assumptions, dependencies and limitations
- 3.1.1.4. Context of use
- 3.1.1.5. Unusual aspects of the System's design
- 3.1.1.6. Safety justification

3.2. <u>Hazard Log</u>

- 3.2.1. Provides the following detail:
 - 3.2.1.1. Accident data
 - 3.2.1.2. Hazard data
 - 3.2.1.3. Risk classification

4. <u>Contract Delivery Date</u>

4.1. As specified in Appendix 1 of the Statement of Requirements at Annex A to the Contract.

5. <u>Update/Further Submission Requirements</u>

- 5.1. Initial draft required two months after CA.
- 5.2. Final update required eight months after CA.
- 5.3. To be updated annually following formal review at Authority/MSTAR Safety Working Groups/ Panels/Committees and endorsement by committee.

6. <u>Medium of Delivery</u>

- 6.1. Electronic (MS Office 2016 compatible format for draft and final versions; and Adobe PDF compatible format for final versions) on optical media.
- 6.2. Additional hardcopy for final versions.

7. <u>Number of Copies</u>

Plan and Report 09 – Government Furnished Asset Management Plan (GFAMP)

1.	Gene	eral Description of Plan Deliverables
1.1		he Contractor shall provide a Government Furnished Asset Management Plan that is to be eviewed by the Authority and produced in accordance with:
	• A	uthority DID 24 at Annex B to the Contract.
	• St	atement of Requirement (SoR) at Annex A to the Contract.
	• D	EFCON 90 (Edn. 11/06) Copyright.
	• D	EFCON 694 (Edn 03/16) Accounting for Property of the Authority.
		EFSTAN 05-099: Managing Government Furnished Equipment in Industry. Issue 1, Dated 4 July 2017.
2.	Aims	and Objectives of the Government Furnished Asset Management Plan (GFAMP)
2.1		he GFAMP is required to detail how the Contractor intends to implement the GFA anagement requirements.
2.2		etails how the Contractor will manage all GFA loaned to them by the Authority and by embers of their Supply Chain to perform the activities covered by the Contract.
3.	Cont	ent of the Government Furnished Asset Management Plan
3.1	. Th	e GFAMP addresses, as a minimum:
	3.1.1.	Interaction with the Authority over the management of GFA on loan to the Contractor.
	3.1.2.	Interaction with the Authority to manage risks associated with GFA.
	3.1.3.	Proposed receipt process of GFE from the Authority (including quality checks to ensure fit, form and function of GFE).
	3.1.4.	GFA accounting and audit arrangements in accordance with the Authority's Assets in Industry Team requirements.
	3.1.5.	Provision of appropriate storage and protection of GFA.
	3.1.6.	Maintenance of GFE.

- 3.1.7. Liability insurance cover for GFA
- 3.1.8. Safety Management Plans
- 3.1.9. Support and Test Equipment (S&TE) requirements for GFE.
- 3.1.10. Requirements and support arrangements for Authority GFR.
- 3.1.11. Link with the project assumptions management process.
- 3.1.12. Return of GFA to the Authority.

4. <u>Contract Delivery Date</u>

- 4.1. As specified in Appendix 1 of the Statement of Requirements at Annex A to the Contract.
- 5. <u>Update/Further Submission Requirements</u>
 - 5.1. Draft to be reviewed following Contract Award.
 - 5.2. Final update required three months after CA.
 - 5.3. No further updates anticipated.

6. <u>Medium of Delivery</u>

- 6.1. Electronic (MS Office 2016 compatible format for draft and final versions; and Adobe PDF compatible format for final versions).
- 6.2. Additional hardcopy for final versions.

7. <u>Number of Copies</u>

Plan and Report 10 – Project Management Plan

General Description of Plan Deliverables
1.1. The Contractor shall provide a Project Management Plan that is to be reviewed by the Authority and produced in accordance with:
 Statement of Requirement (SoR) at Annex A to the Contract.
DEFCON 90 (Edn. 11/06) Copyright.
Aims and Objectives of the Project Management Plan
2.1. The PMP is a plan for how the project will be managed, and is used to provide the Authority with the Contractor's aims and expected benefits of the Project, including any assumptions or constraints.
2.2. The PMP provides confidence to the Authority on the processes that the Contractor will use to monitor and report on the status of the Project, and that the Contractor will manage risks, change, quality, etc.
2.3. The PMP provides documentation of the scope, requirements and budget as well as a time and dependency-based schedule, such as a Gantt Chart.Project deliverables Risk management
Content of the Project Management Plan
3.1. The PMP includes, as a minimum, the following elements:
3.1.1. Project aims
3.1.2. Project deliverables
3.1.3. Project schedule
3.1.4. Resource requirements
3.1.5. Communications plan
3.1.6. Risk management
3.1.7. Quality guidelines

- 4.1. As specified in Appendix 1 of the Statement of Requirements at Annex A to the Contract.
- 5. Update/Further Submission Requirements
 - 5.1. Draft to be reviewed following Contract Award.
 - 5.2. Final update required three months after CA.
 - 5.3. No further updates anticipated.

- 6.1. Electronic (MS Office 2016 compatible format for draft and final versions; and Adobe PDF compatible format for final versions).
- 6.2. Additional hardcopy for final versions.

7. <u>Number of Copies</u>

7.1. Two sets shall be provided to the Authority (one set being deemed for the Authority's Master Library and one set for the verification of all documents necessary to meet the requirements, referenced DEFSTANs and other referenced documents specified in Section 1).

Plan and Report 11 – Contractor's Master Test Plan (CMTP)

1.		General Description of Plan Deliverables
	1.1.	The Contractor shall provide a Contractor's Master Test Plan that is to be reviewed by the Authority and produced in accordance with:
		 Statement of Requirement (SoR) at Annex A to the Contract.
		Acceptance Process at Annex M to the Contract.
		DEFCON 90 (Edn. 11/06) Copyright.
2.		Aims and Objectives of the Contractor's Master Test Plan
	2.1.	The CMTP is used to demonstrate how the Contractor intends to fill in the evidential gaps that exist at Contract Award considering any evidence produced as part of the Tender. The evidence available at Contract Award combined with the evidence gathered during Contract delivery will provide the basis for the Authority's judgement on acceptance of the delivered solution, as specified in the Acceptance Process at Annex M to the Contract.
3.		Content of the Contractor's Master Test Plan
	3.1.	The CMTP explains in detail how the Contractor plans to achieve acceptance of the Contract deliverables, including participation in the Authority's Acceptance Process as defined at Annex M to the Contract.
	3.2.	The CMTP includes the relevant testing undertaken by the Contractor prior to Contract Award and showing how such testing contributes to the overall acceptance of the deliverables.
4.		Contract Delivery Date
	4.1.	As specified in Appendix 1 of the Statement of Requirements at Annex A to the Contract.
5.		Update/Further Submission Requirements
	5.1.	Draft to be reviewed following Contract Award.
	5.2.	Updates to be delivered in accordance with the Acceptance Process at Annex M to the Contract.

- 5.3. Final update required two months after CA, ready for Critical Design Review.
- 5.4. No further updates anticipated.

- 6.1. Electronic (MS Office 2016 compatible format for draft and final versions; and Adobe PDF compatible format for final versions).
- 6.2. Additional hardcopy for final versions.

7. <u>Number of Copies</u>

7.1. Two sets shall be provided to the Authority (one set being deemed for the Authority's Master Library and one set for the verification of all documents necessary to meet the requirements, referenced DEFSTANs and other referenced documents specified in Section 1).

Plan and Report 12 – Validation and Verification Requirement Matrix (VVRM)

1.	General Description of Plan Deliverables
	1.1. The Contractor shall complete and deliver the Authority's Validation and Verification Requirement Matrix (VVRM) that is to be reviewed by the Authority and produced in accordance with:
	 Statement of Requirement (SoR) at Annex A to the Contract.
	 Cardinal Point Requirement Document (CPRD) at Annex U to the Contract.
	 Acceptance Process at Annex M to the Contract.
	DEFCON 90 (Edn. 11/06) Copyright.
2.	Aims and Objectives of the Validation and Verification Requirement Matrix (VVRM)
	2.1. The Authority will use a VVRM tool to model the acceptance plan and to record progress against the plan, including decisions made at various milestones as defined in the Acceptance Process at Annex M. The Authority will update the VVRM as the Contract and delivery progresses. The VVRM is a key source of evidence underpinning the Acceptance Case and the Acceptance Case Report.
3.	Content of the Validation and Verification Requirement Matrix (VVRM)
	3.1. The populated VVRM tool holds the following key acceptance information:
	3.1.1. What will be measured
	3.1.2. How it will be measured
	3.1.3. When it will be measured (what event and trial)
	3.1.4. What 'good' looks like – criteria for success
	3.1.5. Who generates the evidence
	3.1.6. Who evaluates whether criteria have been met

4. Contract Delivery Date 4.1. As specified in Appendix 1 of the Statement of Requirements at Annex A to the Contract. 5. Update/Further Submission Requirements 5.1. Draft to be reviewed following Contract Award. 5.2. Final update required three months after CA. 5.3. No further updates anticipated. Medium of Delivery 6. 6.1. Electronic (MS Office 2016 compatible format for draft and final versions; and Adobe PDF compatible format for final versions).6.2. Additional hardcopy for final versions. 6.2. Additional hardcopy for final versions. 7. Number of Copies 7.1. Two sets shall be provided to the Authority (one set being deemed for the Authority's Master Library and one set for the verification of all documents necessary to meet the requirements,

referenced DEFSTANs and other referenced documents specified in Section 1).

Plan and Report 13 – Design Proposal

1.	General Des	cription of Plan Deliverables
		actor shall provide a Design Proposal that is to be reviewed by the Authority and in accordance with:
	 Statement 	of Requirement (SoR) at Annex A to the Contract.
	Cardinal F	Point Requirement Document (CPRD) at Annex U to the Contract.
	DEFCON	90 (Edn. 11/06) Copyright.
2.	Aims and Ob	jectives of the Design Proposal
		n Proposal is a technical report detailing the technical specification, including software nts and performance to the Measure of Performance, as defined in the CPRD at Annex ontract.
	between th	n Proposal is used to explicitly detail the changes in specification and performance e current UK Mark IV MSTAR and the proposed MSTAR ORP System required to solescence and ensure supportability of the full fleet of Sector Systems .
3.	Content of th	e Design Proposal:
	3.1. The Desig	n Proposal is to include:
	3.1.1. <u>Tech</u>	nical Specification
	3.1.2. <u>Perfo</u>	rmance Analysis
	3.1.2.1.	The scope of this is to describe the estimated range and accuracy performance of MSTAR ORP. This could be achieved by presenting simulation results obtained using a detailed simulation model of MSTAR ORP, coupled with detailed models of target characteristics.

		3.1.2.2. Details of differences between MSTAR ORP System and the existing MSTAR MkIV.	
4.	<u>Cont</u>	ract Delivery Date	
	4.1. As	s specified in Appendix 1 of the Statement of Requirements at Annex A to the Contract.	
5.	<u>Upda</u>	ate/Further Submission Requirements	
	5.1. D	raft to be reviewed following Contract Award.	
	5.2. Fi	inal update required three months after CA.	
	5.3. N	o further updates anticipated.	
6.	Med	ium of Delivery	
		lectronic (MS Office 2016 compatible format for draft and final versions; and Adobe PDF ompatible format for final versions).6.2. Additional hardcopy for final versions.	
	6.2. A	dditional hardcopy for final versions.	
7.	Number of Copies		
	Li	wo sets shall be provided to the Authority (one set being deemed for the Authority's Master brary and one set for the verification of all documents necessary to meet the requirements, ferenced DEFSTANs and other referenced documents specified in Section 1).	

Plan and Report 14 – Logistic Demonstration Plan

1. <u>General Description of Plan Deliverables</u>
1.1. The Contractor shall provide a Logistic Demonstration Plan that is to be reviewed by the Authority and produced in accordance with:
 Authority DID 27 at Annex B to the Contract.
 Statement of Requirement (SoR) at Annex A to the Contract.
 Cardinal Point Requirement Document (CPRD) at Annex U to the Contract.
 DEFCON 82 (Edn. 01/11/16) Special Procedure For Initial Spares.
DEFCON 90 (Edn. 11/06) Copyright.
 DEFSTAN 00-600: Integrated Logistic Support (ILS). Requirement for MOD Projects. Issue 1, Dated 14 Apr 2018.
 DEFSTAN 00-040: Reliability and Maintainability (R&M). Part No. 1 – Management Responsibilities and Requirements for Programmes and Plans. Issue 8, Dated 28 Oct 2017.
 DEFSTAN 00-042: Reliability and Maintainability Assurance Activity. Part No. 7 – Reliability Testing. Issue 1, Dated 10 Oct 2014.
 DEFSTAN 00-044: Reliability and Maintainability (R&M) Data Collection and Classification. Issue 2, Dated 14 Dec 2012.
 Aims and Objectives of the Logistic Demonstration Plan The Logistic Demonstration Plan is used to detail the Contractor's planned activities to demonstrate that the Reliability and Maintainability requirements specified in the CPRD have been met.

3.	3. <u>Content of the Logistic Demonstration Plan:</u>					
	3.1. The Logistic Demonstration Plan consists of two parts: the Reliability and Maintainability Demonstration Plans.					
	3.1.1. Reliability Demonstration Plan:					
	3.1.1.1. Objectives and definitions of all tests;					
	3.1.1.2. Details of items under test;					
	3.1.1.3. Schedule for testing;					
	3.1.1.4. Resources required;					
	3.1.1.5. Test methodology, collection and analysis of results;					
	3.1.1.6. Failure definitions and incident sentencing;					
	3.1.1.7. Consequences of test passing and contingency plan in case of failure;					
	3.1.1.8. Testing programme and timetable;					
	3.1.1.9. Services and facilities to be provided by Contractor;					
	3.1.1.10. Services and facilities required from Authority.					
	3.1.2. Maintainability Demonstration Plan:					
	3.1.2.1. Organisation responsible for testing and points of contact;					
	3.1.2.2. Description of quantitative parameters to be demonstrated;					
	3.1.2.3. Qualitative parameters to be demonstrated;					
	3.1.2.4. Location, i.e. In-service environment or supplier facility;					
	3.1.2.5. Environmental conditions, if relevant;					
	3.1.2.6. How fault insertion is intended to be conducted;					
	3.1.2.7. How maintenance task selection has been conducted;					
	3.1.2.8. Demonstration methodology;					
	3.1.2.9. Implications of failing demonstration;					
	3.1.2.10. Data to be recorded, methods of recording and format of test report;					
	3.1.2.11. Confidence statements;					
	3.1.2.12. Build standard, quantity and maturity of items under test;					
	3.1.2.13. Details of resources required;					
	3.1.2.14. Testing programme and timetable.					
4.	Contract Delivery Date					
	5.4. As specified in Appendix 1 of the Statement of Requirements at Annex A to the Contract.					
6.	Update/Further Submission Requirements					
	6.1. Draft to be delivered two months after Contract Award.					
	6.2. Final update required six months after CA.					
	6.3. No further updates anticipated.					
6.	Medium of Delivery					

- 6.1. Electronic (MS Office 2016 compatible format for draft and final versions; and Adobe PDF compatible format for final versions).6.2. Additional hardcopy for final versions.
- 6.2. Additional hardcopy for final versions.

7. <u>Number of Copies</u>